# HISTORICAL ANALYSIS OF 70 YEARS OF SALT MARSH CHANGE AT THREE COASTAL LTER SITES

by

CHRISTINE BURNS

(Under the Direction of Merryl Alber and Clark Alexander)

## ABSTRACT

Salt marshes are dynamic ecosystems that change in response to natural and human factors. This study used digitization of historical charts and imagery and the Analyzing Moving Boundaries Using R toolkit to measure approximately 70 years of change in lateral marsh extent and the distribution of interior features (ponds, upland, channels, and flats), in marshes of the Georgia Coastal Ecosystems (GCE), Virginia Coast Reserve (VCR), and Plum Island Ecosystems (PIE) LTER sites. Measuring the marsh edge exposed to high fetch and along channels was important for providing complete information on marsh change. Although GCE was dynamic, total marsh area was conserved. VCR experienced marsh loss to flat expansion, which was offset by marsh migration, and overall marsh area was conserved. PIE was erosional, losing marsh along the outer edge, channel widening, and ponding. GCE was considered the most resilient because of its tidal range, sediment supply, and elevation.

INDEX WORDS: historical analysis, marsh change, AMBUR, LTER, marsh migration, ponding, shoreline change, channel migration, lateral change, cross site analysis, long term change, image interpretation

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by

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DEDICATION

To Mom, Dad, Colleen, and Elias who inspire me, support me, and always manage to make me laugh.

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CHAPTER 1

# INTRODUCTION AND LITERATURE REVIEW

## 1.1 INTRODUCTION

Salt marshes are dynamic coastal ecosystems that occur in the upper intertidal zone. Their extent is largely determined by tidal range, sediment supply, elevation, and slope (Goudie 2013; Morris et al. 2002; Fagherazzi et al. 2012). These ecosystems provide important services such as storm protection, nutrient cycling, habitat, and carbon storage (Barbier et al. 2011), which have been valued at US $10,000 per hectare (Barbier et al. 2011; Temmerman et al. 2013). These services are important, given that over half of the world's population lives within 100 km of the coast.

Marshes are impacted by direct modifications as well as changes in the upland, and they are vulnerable to sea level rise (SLR). Human modification has historically been the main driver of coastal wetland loss (Smith 2009). Regions of the world with the greatest rates of historical wetland loss occur in areas where humans have significantly altered the landscape (Kirwan and Megonigal 2013). There are rising concerns that these anthropogenic modifications of marshes limit the ability of marshes to adapt in an ever-changing environment (Erwin et al. 2004; Ganju et al. 2017; Kirwan and Megonigal 2013). In recent years, SLR has become an additional threat to the longevity of salt marshes. Sea level rose 1.7 mm $yr^{-1}$ globally during the $20^{th}$ century and over 2 mm $yr^{-1}$ since the 1990s (Bindoff et al. 2007; Jevrejeva et al. 2008; Church and White 2011). These rates are expected to continue accelerating through the latter half of the century.

Marshes are dynamic in both the horizontal and vertical directions. They have historically adjusted their vertical position in response to changes in sea level through feedbacks between flooding, plant growth, and elevation. Marshes confronted with rapidly rising sea-level experience greater periods of inundation. In marshes with sufficient sediment supply, the increased inundation leads to increased growth of aboveground biomass, which has greater sediment-trapping abilities. This promotes vertical accretion, allowing the marsh to maintain its position relative to sea level (Kirwan et al. 2010; Morris et al. 2002). Although marshes are relatively stable in the vertical direction, they are highly dynamic in the horizontal. Unlike in the vertical direction, there is no feedback mechanism between lateral erosion and expansion of the marsh; and the marsh-sea boundary is always expanding or contracting (Fagherazzi 2013). SLR can impact the relative balance between marsh expansion and contraction, as marshes expand more slowly when sea level is rising and often also experience greater wind-wave driven erosion due to increased water depths (Fagherazzi 2013). This imbalance, coupled with low sediment supply, may result in widespread edge erosion throughout the marsh and a loss of total marsh area.

In addition to edge loss, marsh area is lost through the expansion of interior marsh ponds and interior mud flats. Traditional marsh pond and flat formation is driven by physical and biogeochemical factors. Physical factors include wrack deposition, ice rafting, and creek blockage (Fischer et al. 2000; Wilson et al. 2014). Biogeochemical factors include waterlogging, vegetation stress, and decomposition of organic matter (Wilson et al. 2014; Spivak et al. 2017). High rates of SLR and changes in marsh drainage can increase inundation time, thus waterlogging the marsh. Waterlogged marshes experience more reducing conditions in the soils,

which cause vegetation senescence and subsequently, the decomposition of organic matter (Wilson et al. 2014; Friedrichs and Perry 2001; Spivak et al. 2017).

One important adaptation method for marshes facing increased SLR is marsh migration onto the adjacent uplands. This horizontal expansion may be particularly important in marshes with limited sediment supply or low tidal range, as these marshes are less able to keep pace with SLR by vertical accretion (Field et al. 2016; Kirwan and Megonigal 2013, Ganju et al. 2017). Upland slope, human-engineered coastal protection, and competitive interactions with upland vegetation at the marsh-upland edge all affect whether marsh migration can occur (Field et al. 2016; Smith 2009).

Human modification and the effects of SLR are not felt uniformly along the coast. Thus, a cross-site comparison provides insight into how different marshes have changed as a result of these stressors. This study analyzes and compares marsh change at three sites in the NSF sponsored Long Term Ecological Research (LTER) network by collecting comparable data at each location. As detailed in the following chapters, these three sites represent a gradient of environmental conditions and human stressors. The southernmost site is in the Georgia Coastal Ecosystems (GCE). This site is predominantly vegetated by *Spartina alterniflora* with a mesotidal (2 m) range and moderate human impacts. The intermediate site is in the Virginia Coast Reserve (VCR). This site is also predominantly vegetated by *S. alterniflora*, has a microtidal (1m) range, and few human impacts. Finally, the northernmost site is in Plum Island Ecosystems (PIE). This site is predominantly vegetated by *Spartina patens*, has the largest tidal range at 2.9 m, and has a long legacy of marsh ditching and human development in the watershed.

## 1.2 THESIS OBJECTIVES AND STRUCTURE

Historical analyses provide valuable insights into how ecosystems change over long timescales. Historical charts and aerial photographs can be used to delineate the previous extent of important ecosystem features. The National Wetlands Inventory conducted by the US Fish and Wildlife Service has used these methods for wetland delineation back into the 1970s (Dahl et al. 1991). The purpose of this research is to provide insight into long-term trends in marsh characteristics. This study used ArcGIS 10, the Analyzing Moving Boundaries Using R (AMBUR) package, historical aerial photographs, and charts to provide a site-specific historical analysis of each study site. The analysis can be used to inform an understanding of how each marsh has changed over time as well as identify factors, or combinations of factors, that have historically contributed to stability in these marshes. This research used both shoreline-change metrics and analysis of changes in the vegetated marsh to asses these marshes over time.

This thesis first addresses long-term marsh areal change at each of the three sites by analyzing change in location of the marsh edge using AMBUR. I compare changes along the marsh edge exposed to the main body of water as well as changes in channels of varying sizes and channel orders. This assessment provides insight into the spatial distribution and magnitude of lateral contraction and expansion of the study marshes (Chapter 2). In Chapter 3, I present a more detailed analysis of changes in the vegetated marsh platform by analyzing how interior marsh features such as upland, interior mud flats, and ponded area have evolved over approximately 70 years. I also analyze the distribution of marsh features by elevation in recent imagery to better understand how elevation is shaping changes in these marshes.

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# CHAPTER 2

# LONG-TERM TRENDS IN LATERAL SALT MARSH EXTENT AT THREE LTER SITES ON THE US EAST COAST[1]

[1] Burns, C., M. Alber, and C. Alexander. To be submitted to *Estuaries and Coasts*.

**Abstract**

Marshes are valuable intertidal habitats that respond to changes in their environment, and their edges can experience rapid expansion or erosion over time. This chapter used the Analyzing Moving Boundaries Using R (AMBUR) toolkit to measure 70 years of marsh change at salt marshes within three Long Term Ecological Research sites along the US East coast: Georgia Coastal Ecosystems (GCE), Virginia Coastal Reserve (VCR), Plum Island Ecosystems (PIE). At each site, this study assessed changes at the open fetch marsh edge as well throughout interior channels of varying sizes. The GCE and VCR study marshes exhibited a dynamic stability in which erosion and accretion were balanced, whereas PIE experienced slow levels of erosion throughout the study area. Changes at PIE were significant with respect to the error. At VCR and PIE, the highest rates of erosion occurred along the marsh exposed to high fetch where wind-wave action is likely a major contributor to marsh erosion. Evaluation of interior channel edge suggested that channels of all sizes experienced both erosion and accretion, with the rates of change increasing with increasing channel order. This study demonstrated that rates of erosion and accretion at the open fetch marsh edge may differ from those in the interior, and it is therefore important to asses changes throughout the entire marsh.

**Key word:** shoreline change, LTER, cross-site, AMBUR, image interpretation, marsh, long term change, channel order, wind wave erosion, lateral change, sea level rise, historical analysis

## 2.1 Introduction

Marshes are highly dynamic ecosystems. Although there are feedback mechanisms that allow marshes to establish a vertical equilibrium, they are considered unstable in the horizontal direction (Fagherazzi 2013; Ganju et al. 2017). These systems can experience high rates of contraction and expansion in response to external forces (Sharma et al. 2016; Friedrichs and Perry 2001). In extreme cases, marsh boundaries may change on the order of 10s to 100s of meters per year. For example, Mattheus et al. (2009) describe the impacts of increased sediments in the Neuse River delta, North Carolina. In the 1960s, forest clearing for silviculture increased sediment input to the Neuse River, resulting in a rapid increase in the rate of marsh expansion. The silviculture operation expanded over a 20-year period before reaching its maximum extent in 1983, at which point the rate of marsh expansion also slowed down. The processes of contraction and expansion are weakly linked; therefore, marsh extent at any given time represents a relatively short-term balance between constructive and destructive processes (Fagherazzi et al. 2013).

Sediment is the main constructive agent in marshes, and tidal range and storm activity are two major mechanisms of sediment delivery. Macrotidal marshes (spring tide range > 4 m) import most of their sediment through the extensive flooding associated with the spring tide. As tidal range decreases, storms play an increasingly important role. Therefore, microtidal marshes (spring tide < 2 m) depend more heavily on storms as their dominant sediment source. Mesotidal marshes (spring tide range 2-4 m) fall in between, and depending on conditions may be more dependent on storms or tidal range to deliver sediments (Friedrichs and Perry 2001; Ganju et al. 2017).

Channels serve as the conduit of nutrients, water, biota, and sediment to the interior marsh (Wallace 2005; Hughes 2012). Because of their role in sediment transport, channels are integral to understanding how the extent of tidal marshes change over time (Kirwan and Murray 2007). Proximity to a sediment source is a critical component of sediment delivery; and thus, rates and locations of accretion and erosion on the marsh platform are controlled by the distribution of channels (Friedrichs and Perry 2001). Creek blockage and inlet opening initiated by storm activity are natural marsh modifications that can result in permanent changes to how tidal channels flow through the marsh, and, subsequently, where they deposit and erode sediments.

Some channel features make them more resistant to change than others. Larger channels tend to be more stable, whereas smaller channels are more transient. Larger channels are also often less sinuous than smaller channels, because smaller channels are less incised and tend to naturally meander through the marsh. These meanders set up a cross-channel current gradient which results in erosion of the outside bank and deposition along the inside (Hughes 2012; Seminara 2006). Channels are most stable in densely vegetated marshes, those composed of peaty material, and those with cohesive sediments (Eisma 1998; Marani et al. 2003; Hughes 2012).

Waves, created by either wind or boat wakes, erode the marsh edge. Edge retreat occurs continuously as waves break against the exposed mud and dislodge sediments (Wallace 2005; Micheli and Kirchner 2002). As tide levels fall, wave erosion leads to undercutting of the marsh. The lower mud is eroded more quickly than the overlying root mat, creating an overhanging feature. Larger, episodic, erosion events occur when these overhanging blocks of marsh break off (Schwimmer 2001; Fagherazzi et al. 2013). Marshes exposed to high wave energy tend to be

highly scarped and erosional, whereas marshes in calmer environments tend to be accretional and have more gently sloping shorelines (Sharma et al. 2016; McLoughlin et al. 2015).

Wave energy as a driver of lateral marsh erosion has been well documented in marshes throughout the world. In Venice Lagoon, Italy, Marani et al. (2011) used dimensional analysis and edge retreat data collected from aerial imagery to derive a linear relationship between the rate of volumetric marsh retreat and wave power, which was successfully tested against measured rates of edge retreat. In the Gulf of Mexico, Sharma et al. (2016) measured short term changes in marsh shoreline and documented that the shoreline eroded some years and advanced seaward in others. The net effect was ultimately erosional as the environment was too high energy for re-vegetation of the slump blocks once separated from the marsh platform. Thus, wave induced erosion is a common natural driver of marsh contraction.

Sea level rise (SLR) can also affect marsh extent. Sea level rose 1.7 mm $yr^{-1}$ globally during the $20^{th}$ century and over 2 mm $yr^{-1}$ since the 1990s (Bindoff et al. 2007; Jevrejeva et al. 2008; Church and White 2011). However, these rates are expected to continue accelerating through the latter half of the century. SLR impacts marsh extent by increasing marsh inundation time beyond that which the vegetation can tolerate (Kearney et al. 2002; Hartig et al. 2002). When the vegetation dies, the marsh edge becomes unstable and retreats. Additionally, SLR also increases the water depth in front of the marsh, allowing for the generation of larger waves and increased edge loss along the march exposed to high fetch (Mariotti and Fagherazzi 2013). Although waves are a natural force, pervasive erosion of marsh edges can be indicative of an ecosystem stressed by factors such as increased inundation due to SLR (Hughes 2012; Eisma 1998; Downs et al. 1994).

This study is a historical analysis of lateral migration of the marsh edges at three sites along the U.S. East coast over the last 70 years. I compared the marsh edge in the present with historical aerial photographs and National Ocean Service Topographic Sheets (T-sheets) (Dolan et al. 1991). I also utilized metrics such as channel order and sinuosity to better understand how marsh morphology impacts the spatial distribution of marsh change. Understanding how the marsh edge changes over time and across channels of varying sizes provides insight into the dynamic nature of these systems.

## 2.2 Methods

Study Sites

Three Long Term Ecological Research Network (LTER) sites were chosen for this study: Georgia Coastal Ecosystems (GCE); Virginia Coast Reserve (VCR) and Plum Island Ecosystems (PIE). Within the larger domain of each LTER site, a smaller study area in the salt marsh was chosen for each site. The boundaries were drawn to include marsh adjacent to the upland border at the mainland well as marsh along a larger body of water.

*Georgia Coastal Ecosystems, GA (GCE)*

The GCE domain encompasses three adjacent sounds on the South Atlantic Bight. There are high sediment inputs to these sounds largely due to forest clearing and agriculture (Meade 1982; Dame et al. 2000). The Altamaha River is the largest source of freshwater and sediment to this region. Suspended sediment concentrations range from 26 to 400 mg $L^{-1}$ (Schutte et al. 2013). This analysis focused on a 40 $km^2$ section of marsh adjacent to Doboy Sound (Figure 2.1a). Although wave energy tends to be low along the Georgia coast, the strongest winds come from the NE and SW (Clayton et al. 1992; Tanner 1960). The fetch in front of the study site is 1 to 1.5 km. GCE is mesotidal with a mean range of 2.5 meters, and is experiencing 3.24 mm $yr^{-1}$

of relative SLR (8670870). Historically, this site has had minimal marsh modification, thus allowing the marsh to adapt naturally to changing environmental conditions.

*Virginia Coast Reserve, VA (VCR)*

The VCR LTER is a network of barrier islands, coastal bays, and salt marshes extending 110 kilometers along the Delmarva peninsula (Figure 2.1b). VCR is microtidal with a tidal range of 1.2 meters and is experiencing 3.64 mm $yr^{-1}$ of relative SLR (8632200). There are no major rivers supplying sediment or freshwater to the marshes and thus sediment is predominantly supplied by redistribution within the coastal area (Lawson et al. 2007). The suspended sediment concentrations range from 3 to 48 mg $L^{-1}$ depending on the conditions and time of year (Lawson et al. 2007). This analysis focused on a 40 $km^2$ section of marsh on the mainland side of Hog Island Bay. The dominant wind direction is from the SSE-SSW and N-NE (Fagherazzi and Wiberg 2009) and the fetch in front of the marsh is about 11 km. VCR is minimally impacted by heavy boat traffic, shoreline stabilization, or development (McLoughlin et al. 2015).

*Plum Island Ecosystems, MA (PIE)*

PIE is a macrotidal estuary separated from the Gulf of Maine by Plum Island, a barrier island. The Parker, Ipswich, and Rowley River watersheds drain into Plum Island Sound, but extensive damming limits the supply of sediment to the estuary (Wilson et al. 2014). Average suspended sediment concentrations are 3 to 30 mg $L^{-1}$ (Kirwan et al. 2010; Drake et al. 2009). The mean tidal range is 2.9 meters. Tidal salt marshes occupy 40 $km^2$ of the 60 $km^2$ estuary (Wilson et al. 2014). This study focused on a 21 $km^2$ section of marsh south of the Parker River (Figure 2.1c). The prevailing winds are from the W although the strongest winds come from the NE (Leonardi et al. 2015). The fetch in front of the study area is 1 to 1.5 km. PIE is experiencing 2.82 mm $yr^{-1}$ of relative SLR (8443970). Historically this marsh was heavily modified by

ditching for mosquito control and salt marsh haying, which resulted in "over-drainage" of the marsh (Redfield 1972).

Image analysis

Imagery was analyzed for three time points at each study site. In all cases high resolution orthoimagery was available for 2013, and I also obtained historical aerial photographs and T-sheets for two earlier time points at each site. The goal was to have broadly spaced intervals beginning in the1930s and 40s with a middle dataset in the 1970s to compare with the orthoimagery. At GCE, I used 1933 T-sheets for the earliest time point and 1972 aerial photographs for the mid-point. For PIE, I obtained two sets of aerial photographs, one from 1938 and one from 1971. Finding quality historical data for VCR proved more challenging. I used 1949 aerial photographs for the earliest time point and 1960s T-sheets for the mid-point (Table 2.1).

I digitized the marsh adjacent to the main bay or sound (labeled as open fetch marsh) as well as interior channel edges in all imagery using a Wacom Intuos or Wacom Cintiq tablet and ArcGIS 10. For this study, I developed a set of rules to keep the digitizing process consistent across sites and imagery sources. All shorelines in aerial photographs, T-sheets, and orthoimagery were digitized at a scale of 1:500 to 1:1,500. Creeks were delineated down to a 10-meter width. Creeks less than 10 meters wide were not consistently surveyed on the T-sheets and were often too pixelated in the historical aerial imagery for accurate delineation. As these small creeks can be fairly ephemeral, changes in their morphology are not necessarily indicative of large-scale marsh change (Hughes 2012). Low-water imagery was used to reduce the impact of tidal influence, and aerial photographs were excluded from analysis if reflection or damage made them difficult to accurately interpret.

Channel Order

I performed a channel order analysis on the 2013 imagery to characterize the marsh at each site. Centerlines were generated for each channel from the digitized shorelines using the POLYGON TO CENTERLINE python toolbox (ESRI 2018). Each segment of the centerline was attributed with its channel order according to the Strahler method (Strahler 1957) as follows: channels that were the smallest and originated in the marsh were designated as first order channels. When two first order channels connect, they form a second order channel. This process continues until all the segments are labeled. The total number of channels, their distribution, and length were assigned using ArcGIS.

First order channels were often cut off or completely excluded during digitization, because they did not meet the minimum size requirement of 10 m. For this reason, first order channels were not included in the analysis. Both GCE and PIE had sixth order channels, whereas fifth order was the highest channel order at VCR. This is in part because GCE and PIE marshes drain into a main, sixth order, channel, whereas VCR drains into an open bay. The channel order classifications were further used to group similar channels together during the AMBUR analysis.

Sinuosity was calculated using the SINUOSITY Python toolbox (ESRI 2011). It attributed each channel order segment with a sinuosity ratio where the sinuosity ratio *($R_s$)* is equal to the sinuous length *($L_s$)* divided by the straight-line distance (*$L_{str}$)* (Eq 1).

$$Eq\ (1): R_s = \frac{L_s}{L_{str}}$$

This value generally ranges from 1 to 4 (Pestrong 1965). Channels with a sinuosity of 1.5 or greater were considered meandering, whereas those below 1.5 were considered straight (Hughes 2012; Pestrong 1965).

AMBUR

AMBUR (Analyzing Moving Boundaries Using R) was used to compare the digitized shorelines of both the open fetch marsh and internal channels across time (Jackson et al. 2012). The AMBUR package is highly customizable and specifically designed to handle strongly curved features such as marsh channels. A baseline was drawn landward and seaward of the digitized shorelines by creating a 5 meter buffer around the shoreline shapefile. AMBUR was used to cast transects at 50 meter intervals from the outer baseline to the nearest location on the inner baseline. This near transect method is designed for curved features, because it prevents transects from crossing over each other. A filter was applied to these transects to remove gaps. The filter uses a moving window average of the azimuths of the five transects within the window to assign a value to the middle transect. AMBUR then uses the intersection of the filtered transects with the digitized shorelines to determine the shoreline change rate.

Rate Calculation Methods

The endpoint rate (EPR) method of calculating shoreline change takes the distance of total shoreline movement and divides it by the elapsed time between observations. The EPR only requires two shorelines, making it the easiest and most widely used method. For this reason, it is often used in cross-study comparisons (Dolan et al. 1991). The disadvantage of the EPR approach is that potentially valuable mid-point data is excluded and temporal variation is lost. Since only two data points are used, there is also the potential to give stronger influence to inaccurate data (Dolan et al. 1991). The linear regression (LRR) method uses a best fit line through shoreline change rates derived from multiple observations over time. The advantage of this approach is that it uses combinations of all the shorelines to calculate the change rates. The disadvantage is that regressions may give weight to some shorelines over others when shorelines

are clustered (Dolan et al. 1991; Jackson 2005). The difference between EPR and LRR as applied in this study were within the margin of uncertainty associated with the shorelines (see below). Therefore, only the EPR values are discussed here.

Sources of Uncertainty

Shoreline uncertainty values are influenced by the accuracy of the shoreline measurements, the temporal variability of the shoreline, the number of observations, the proximity of each observation to the time of an actual change in shoreline movement, the period of time between observations, the total time span of the dataset, and the method used to calculate shoreline change rate (Dolan et al. 1991). For this analysis, I evaluated four main sources of uncertainty for each shoreline: digitizer error, pixel resolution, T-sheet plotting error, and georectification error.

(1) Digitizer error *(D)* was determined for each shoreline by repeatedly digitizing three 1 kilometer shoreline sections five times each. The digitizer error differs according to how easy it is to interpret the imagery. To capture this variability, the digitizer error was calculated separately for each set of images.

(2) Pixel resolution *(P)* only applies to the aerial photographs and orthoimagery. Features cannot be resolved if they are smaller than the pixel size.

(3) T-sheet plotting error *(T)* only applies to T-sheets, which were used at VCR and GCE. Many previous studies have assessed the accuracy of T-sheets, which is dependent on the accuracy of the measuring distance, plane table position, and accurate delineation of the high-water line by the original surveyors (Shalowitz 1964). The most recent analysis determined that the uncertainty of T-sheet generated shorelines was ± 5.1 m for maps created after 1911 (Romine et al. 2009).

(4) Georectification error *(G)* is determined using a Root Mean Square Error (RMSE) value calculated by the rectification software (in this case ArcGIS). To minimize this error, great care was taken to choose ground control points (GCP) that were well-distributed across the image and were stable over the entire course of the study period. Typical GCPs included docks, dock pilings, road intersections, and houses. When ideal GCPs could not be identified, creek and ditch intersections were used (McLoughlin et al. 2015; Anders and Byrnes 1991). A minimum of 10, often closer to 15, GCPs were used, allowing for higher order polynomial transformations and a better fit (Anders and Byrnes 1991; Romine et al. 2009).

These four sources of error are random and uncorrelated and thus may be represented by a single measure where the uncertainty (*U*) of the shoreline position is equal to the square root of the sum of each error source squared (Eq 2) (Fletcher et al. 2003; Crowell et al. 1991).

$$Eq\ (2): U = \pm\sqrt{D^2 + P^2 + T^2 + G^2}$$

This error analysis resulted in shoreline positional uncertainties ranging from 1 to 6 meters for the various images. Each shoreline was attributed with an uncertainty value for the AMBUR analysis. Based on the individual uncertainty terms, AMBUR calculates a combined uncertainty value for the rate of change.

**2.3 Results**

Channel Order Analysis

The channel order metrics for each study marsh are reported in Table 2.2. There were greater numbers of low as compared to high order channels at each site. The sinuous length of lower order channels was always longer than that of high order channels (Figure 2.2a-b). Fourth order channels at GCE were the exception as they had the highest sinuous length of all channels

at the site. The mean sinuous length increased with higher channel order at all three sites. The fifth order channels at VCR were the exception. VCR had anomalously low numbers of fifth order channel, which were short and quickly intersected Hog Island Bay.

The average sinuosity ratio for all three sites was similar although the relationship between sinuosity and channel order varied among sites (Table 2.2). At VCR and PIE, the sinuosity ratio generally decreased with lower channel order. At GCE, sinuosity increased with increasing channel order up to fourth order channels and then sharply decreased for fifth and sixth order channels, which were nearly straight (Figure 2.2c). Higher order channels were very straight (sinuosity ratio of nearly 1) at all three sites.

AMBUR Analysis

Two spatial scales were used to assess patterns of erosion and accretion: site-wide and by channel order. The site-wide or overall trend includes all of the transects throughout the entire study area. The channel order scale then groups transects according to their Strahler (1957) channel order and provides information on how patterns of erosion and accretion change by channel size.

*GCE*

The EPR analysis of GCE marsh shoreline compared 1933 with 2013. There were 2,017 transects, split fairly evenly between eroding (1,002) and accreting (1,015) over the study period (Table 2.3). The error calculated for all the EPR values at this site was ± 0.08 m $yr^{-1}$. Maximum accretion rates at GCE were two times faster than maximum erosion rates, and these fast rates largely occurred at the tip of Rock Island (Figure 2.3). The fastest rates of erosion were found along Hudson Creek. The mean EPR for the entire study site was +0.03 m $yr^{-1}$. This value was smaller than the potential error, making the calculated rate not significantly different from zero.

Figure 2.4 shows the location of transects according to their channel order. The EPR of channels ranged from of -0.06 m $yr^{-1}$ (for fifth order channels) to +0.16 m $yr^{-1}$ (for the sixth order channel, which represents the open fetch marsh edge). Only the third and sixth order channels had EPRs that were greater than the error term and therefore significant.

The patterns of erosion and accretion varied with channel order. Due to their sinuous nature, second and third order channels often exhibited a pattern of eroding and accreting transects, which alternated along the banks as the channel changed direction. However, the transects on the opposing bank showed an opposite pattern of erosion and accretion (Figure 2.4a-b). Second order channels had similar numbers of eroding and accreting transects whereas third order channels were more accretional. Sixty-one percent of the third order channel transects were accreting, and the mean EPR was +0.12 m $yr^{-1}$ (Table 2.4) (Figure 2.4c). Unlike the lower order channels which experienced erosion and accretion on both banks, half of the fourth order channels experienced uniform change. Hudson Creek widened as both banks eroded, and the Carnigan River narrowed as the marsh on both sides accreted. Fifth order channels had the highest percentage of eroding transects (68%) at GCE, yet the mean EPR remained slow (-0.06 m $yr^{-1}$). This slow EPR resulted from averaging of fast rates (over +3.0 m $yr^{-1}$) of accretion occurring at the tip of Rock Island, which offset the more numerous but more slowly eroding transects along the channel (Figure 2.4d). The sixth order channels were more accretional than erosional (the open fetch marsh). The mean EPR of accreting transects was twice as fast as that of eroding transects, with the maximum rate of accretion over 3.0 m $yr^{-1}$, whereas the maximum rate of erosion was -0.42 m $yr^{-1}$. Most of the erosion was concentrated in the northeast corner of Rock Island.

*VCR*

At VCR the EPR comparison was between 1949 and 2013. Figure 2.6 shows the distribution of transects at this site. Out of 1,585 transects, 48% were eroding and 52% were accreting (Table 2.3). The error term for the EPR values at this site was ± 0.06 m $yr^{-1}$. The mean overall EPR for the entire site, +0.04 m $yr^{-1}$, was again smaller than the potential error. The fastest rates of erosion at VCR occurred along the open fetch marsh adjacent to Hog Island Bay, and the fastest rates of accretion occur along Point Creek (Figure 2.5).

The EPR of channels categorized into channel orders were all less than the error term except for fourth order channels, which accreted at a rate of +0.29 m $yr^{-1}$. The open fetch marsh edge also exceeded the error at a rate of -0.19 m $yr^{-1}$. Second and third order channels had equal amounts of eroding and accreting transects (Table 2.4). Similar to GCE, the patterns of marsh erosion and accretion alternated along the length of the channel as it weaved its way through the marsh. The fourth order channel, Point Creek, was an exception as the marsh on both banks accreted (Figure 2.6a-b). Fourth order channels were distinctly accretional at VCR with 73% of transects accreting and a mean EPR of +0.29 m $yr^{-1}$. Fast rates of accretion, over 2.0 m $yr^{-1}$, occurred along Point Creek. Here, accretion on the inside of a sharp meander resulted in the connection of a point bar with the marsh edge. This point bar then became vegetated, extending the marsh platform by nearly 100 m in some locations (Figure 2.6c). Fifth order channels were a very small portion of the channels, and had a slow EPR. Nearly a quarter of the transects were not along a marsh channel but rather represented the open fetch marsh adjacent to Hog Island Bay (Figure 2.6e). These transects were largely erosional with an EPR of -0.19 m $yr^{-1}$. The accretional segments along the bay had remnants of small marsh islands in the front.

*PIE*

At PIE, the EPR comparison was between 1938 and 2013. Out of 1,349 transects, 74% were eroding and 26% were accreting (Table 2.3). The range of erosion and accretion rates was much narrower at this site, and the overall site-wide EPR value was slow, -0.07 m $yr^{-1}$. This was just slightly greater than the error term for this site (± 0.06 m $yr^{-1}$). The fastest rates of erosion were found along Plum Island Sound, whereas the fastest rates of accretion occurred along the Parker River (Figure 2.7).

When evaluated by channel order, the EPR of channels ranged from -0.02 m $yr^{-1}$ (for second order channels) to -0.28 m $yr^{-1}$ (for sixth order channels, which represent the open fetch marsh edge). Because the erosional transects were so pervasive, PIE lacked the distinct alternating patterns associated with meandering channels at the other sites (Table 2.4).

The mean EPR and the percentage of transects eroding generally increased with higher channel order. Second order channels were 64% erosional, third order were 82% erosional, and fourth order were 86% erosional. However, only 62% of the transects in fifth order channels were erosional (Figure 2.8d). The Parker River was the main fifth order channel included in this study. It had a large accreting area near the Route 1 Bridge. This is an area with a lot of human influence (Figure 2.7). A large marina was constructed on the southern end of the bridge during the study, which likely accounts for the fast rates of accretion in that area. Finally, 95% of the transects along the sixth order, open fetch marsh, were erosional.

*Cross-site Comparison*

All three sites had slow site-wide EPR values. PIE is the only site where the mean EPR for the entire study area, -0.07 m $yr^{-1}$, was significant based on the error in the analysis, ± 0.06 m $yr^{-1}$. PIE is also the only site in which the site-wide EPR was erosional. At PIE, all channel

orders had an erosional mean EPR. Across all channel orders the rate of change at PIE was much slower than at GCE or VCR (Figure 2.9). Histograms of the EPR values reveal that all three sites have a wider distribution of EPR values with increasing channel order, and GCE and VCR had long accretional tails in the higher order channels (Figure 2.10). VCR had the largest extremes with both the fastest rates of erosion and the fastest rates of accretion.

Most of the transects (95%) were located in the interior channels of GCE and PIE, with only 5% of transects falling along the exposed open fetch marsh. VCR had the longest open fetch marsh, with 20% of transects occurring on the marsh exposed edge. The open fetch marsh at PIE was strictly erosional, whereas at GCE and VCR the open fetch marsh experienced both erosion and accretion. At PIE and VCR, the net change in the open fetch marsh was erosional and significant with respect to the error. At GCE change along the open fetch marsh was also significant with respect to the error, but it was accretional.

**2.4 Discussion**

This study analyzed long term changes in the position of the marsh edge at three locations along the US East Coast to provide insight into lateral changes in marsh extent. Two of the sites, GCE and VCR, exhibited dynamic stability in which high rates of both erosion and accretion occurred but which in aggregate left the total marsh area unchanged. The third site, PIE, lacked the dynamism of the other two sites. Despite the high number of erosional transects throughout the entire site, rates of erosion were slow, and the overall marsh change at PIE was minimal.

The open fetch marsh was the most dynamic area at all three sites as this area generally had the highest rates of marsh change. Rates of open fetch marsh change in this study ranged from -0.28 to +0.16 m $yr^{-1}$. These rates are on the lower end of previously reported from the

literature. Studies of open fetch marsh change at sites surrounding Hog Island Bay, Virginia (McLoughlin et al. 2015) and Rehoboth Bay, DE (Schwimmer 2001) reported rates of open fetch marsh change spanning 0.02 to 7.3 m $yr^{-1}$.

The distribution of erosional transects along the open fetch marsh suggest that wind wave energy may be an important component of lateral marsh extent at these sites. The role of wind waves in eroding the marsh is largely dictated by fetch and the orientation of the marsh with respect to the dominant winds. The open fetch marsh of VCR exemplifies this relationship, because the VCR marsh juts out into Hog Island Bay, creating shorelines oriented both towards and away from the dominant winds. The SSW winds are the most common while the N NE winds associated with winter storms are the strongest (Fagherazzi and Wiberg 2009). The fetch from the N NE ranges from 8 to 11 kilometers. Because these are the strongest winds, shorelines facing the NE likely receive the largest wind-generated waves. In this study, the mean rate of change for the open fetch marsh was -0.19 m $yr^{-1}$ ± 0.06 m $yr^{-1}$. The shorelines with the highest rates of erosion (over 2 m $yr^{-1}$) were facing the NE. When the open fetch marsh was oriented in other directions, most often E, erosion was slower and, in some cases, accretion occurred.

Unlike VCR, the open fetch marsh of PIE is straight, facing east. Because this entire shoreline receives similar wind-wave energy, erosion was consistent along this shoreline. The dominant winds at this site are the westerlies, and like the VCR, the strongest winds are the northeast winds (Leonardi et al. 2015). The fetch across Plum Island Sound from the NE is about 1.5 kilometers, but there are large shoals in the sound that reduce the fetch to less than 0.5 kilometers as the tide falls. This likely explains why the highest rates of erosion at PIE are a meter less than those documented from VCR. This also suggests that at the PIE site, the impact of wind-waves at the open fetch marsh edge may be tidally dependent.

Unlike the other two sites, GCE did not exhibit high rates of erosion along the open fetch marsh. While the strongest winds come from NE, these winds tend to be limited to one season with the rest of the year predominately receiving winds from the southeasterly and northwesterly directions (Clayton et al. 1992; Tanner 1960; Weber and Blanton 1980). The fetch from the NE ranges from less than 1 kilometer to 2 kilometers. Overall, wind-wave energy does not seem to be a significant modifier of the open fetch marsh at GCE as both erosion and accretion occurred along the marsh adjacent to Doboy Sound.

Rates of channel-edge migration were generally much slower than the rates of change of the open fetch marsh at all sites, which is consistent with the published literature. Published rates of channel migration range from 0.2 m $yr^{-1}$ in Delaware Bay (Garofalo 1980) and Long Island, NY (Browne 2017) to 0.9 m $yr^{-1}$ in Venice Lagoon, Italy (Rizzeto and Tosi 2001). In this study, migration rates of individual channels were highly variable and ranged from 0.01 to 0.3 m $yr^{-1}$. While these rates are generally slower than the published rates, the published studies did not provide channel order data and thus it is difficult to compare these results.

Vegetation and dense roots can provide channels with greater stability and resistance to erosion (Gabet 1998; Micheli and Kirchner 2002). GCE and VCR are dominated by the low marsh grass, *Spartina alterniflora,* whereas PIE is largely vegetated with the denser-growing high marsh grass, *S. patens.* Previous work in Georgia marshes suggest that *S. alterniflora* is more susceptible to erosion than many of the high marsh species and thus more conducive to lateral creek migration (Wadsworth 1980). More densely growing high marsh vegetation and thick root masses stabilize the marsh by dissipating flows, binding sediments, and slowing erosion (Gabet 1998; Micheli and Kirchner 2002; Lawrence et al. 2004). Differences in vegetation and marsh composition may account for the differences between PIE, which exhibited

modest change in the location of channels and slower EPR values, and the other two sites. PIE often eroded slowly on both channel banks, whereas GCE and VCR experienced fast rates of erosion and accretion, often times with one bank eroding and the opposite bank accreting.

Within each site, the spatial distribution of eroding and accreting transects was a factor of the sinuosity of the channels, whereas the magnitude of change was a factor of channel order. Eroding and accreting transects along a single shoreline alternated as the channel moved through the marsh. Thus, more sinuous channels tended to experience erosion and accretion in more equal amounts. This was demonstrated best by lower-order channels, because they tended to be more sinuous. Balanced patterns of erosion and accretion in low order channels has been previously documented in short term studies of the Duplin River and Blackbeard Creek, Georgia (Wadsworth 1980; Letzch and Frey 1980). In this study, the total rate of change for these lower order channels was often close to zero, because the eroding and accreting transects sum to zero in aggregate. Previous work by Eisma (1998) and Hughes (2012) suggest that higher order channels should be more stable and therefore more resistant to migration than lower order channels. In this study, the higher order channels were more stable in the sense that they were less sinuous with consistent patterns of erosion and accretion along a single shoreline. They were less stable in that they exhibited a trend of more rapid EPR values, both positive and negative, with increasing channel order. Despite these faster rates, the EPR for higher order channels was often still close to, or within, the analysis error.

Studies of marsh extent change rarely look at the entire marsh. All three of these marshes had mean rates of change on the order of a few centimeters per year when assessed across the entire study area but had more dramatic rates of change when examined as individual components of a marsh system. Many studies look at changes of the open fetch marsh due to

wind-wave energy, or they look at patterns of channel migration and channel widening, but rarely both at once. Furthermore, many channel migration studies only look at a select few channels rather than a full range of sizes. This study shows that shoreline change rates of the open fetch marsh tend to be faster than those in the channels, but they are balanced out by the greater amount of marsh edge in the interior where there are slower rates of change. At PIE and GCE, 95% of transects were in the marsh interior and at VCR 80% of transects fell within the marsh interior. Ultimately, it is important to look at both components (open fetch and channel) when assessing marsh change.

I conclude that wave energy was likely an important erosive force in these marshes. The impact of wave erosion increases with SLR (Marani et al. 2011). As sea level continues to rise, the adjacent bays and estuaries will become deeper allowing for larger waves to propagate and attack the shore, potentially increasing wave-related edge erosion (McLoughlin et al. 2015; Marani et al. 2011). Additionally, studies suggest that high wind events, such as storms, may be increasing in frequency at least since the 1970s (Stocker et al. 2013). Hayden and Hayden (2003) conducted a study of extratropical cyclone frequency at all of the US LTER sites. They note an increase of 15 storms per year at VCR and 25 storms per year at PIE between 1885 and 1990. This increase in storms coupled with deeper water in front of the marsh due to SLR has the potential to impact edge erosion of the open fetch marsh.

**2.5 Conclusions**

Because marshes are naturally dynamic systems, lateral marsh change is not necessarily a sign of instability. Much of the previous literature focuses on changes in either the exposed open fetch marsh or the channels. By measuring changes throughout the marsh, I show that often the processes of erosion and accretion balance each other throughout the marsh. Both the GCE and

VCR marshes maintained a similar total marsh area across the approximately 70-year study period. However, both of these marshes experienced fast rates of erosion and accretion. This dynamism may actually help to maintain these two marshes as they redistribute the sediments lost from one section of marsh to another. PIE did not experience the large magnitude of change observed at the other two sites but rather exhibited very slow levels of erosion throughout the entire marsh. PIE marsh is heavily ditched. Thus, sediments eroded from the marsh are less readily replaced, because of this, erosion was expected. Despite high rates of modification, PIE marsh exhibited resilience as the overall mean rate of change at this marsh was slow. Finally, shoreline change in these marshes was not limited to one part of the marsh but was distributed throughout these marshes, affecting channels of all sizes, albeit at differing rates. Wind-wave energy modified the exposed marsh edges, whereas the processes and patterns of channel meandering drove the spatial pattern of marsh change in the smaller channels.

As we look to the future of these marshes, prolonged inundation and increased wind-wave erosion have the potential to modify marsh extent. The open fetch section of the marshes at PIE and VCR were the most affected by wind-wave energy, and therefore are likely to be most affected by changes in storminess in the future. Rates of relative SLR are currently highest at GCE and VCR. Despite high rates of relative SLR, these marshes currently demonstrate resilience as the overall mean rate of change was nearly zero, suggesting that they effectively redistributed marsh sediments over the last 70 years and that the total area of marsh has been conserved over that time.

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## 2.7 Tables and Figures

*Table 2.1. Data sources used for the shoreline change analysis. T-sheets were used to extend the record or in place of imagery when suitable imagery could not be found. This table displays the percent of overlap between the images at the front and side of the images.*

| Site | Date | Type | Scale | Pixel Size (m) | Number of Photos | % overlap between photos |
|---|---|---|---|---|---|---|
| **GCE** | Sept 20-22, 1933 Nov 24, 1933 | T-sheet | 1:10,000 1:20,000 | - | 2 | none |
| | Dec 2, 1972 | color aerial photograph | 1:20,000 | 1.3 | 19 | 50-60% front 50% side |
| | Early 2013 | orthomosaic | - | 0.15 | - | - |
| **VCR** | Feb 2, 1949 | black and white | 1:20,000 | 0.5 | 12 | 50-60% front 30% side |
| | April 1960 | T-sheet | 1:10,000 | - | 4 | none |
| | Spring 2013 | 2013 orthomosaic | - | 0.3 | - | - |
| **PIE** | Nov 1, 1938 | 1938 black and white | 1:25,000 | 0.83 | 5 | 70% front 40% side |
| | June 11, 1971 | 1971 black and white | 1:20,000 | 1.31 | 5 | 20-30% front 10- 20% side |
| | April 2013 | 2013 orthomosaic | - | 0.3 | - | - |

*Table 2.2. Channel order metrics for each study area. Channel order was determined using the Strahler method. The total length of each of channels in each order as well as the mean length of channels in each order are reported in this table. Finally the sinuosity ratio was calculated using Eq(1) for each order.*

| | Channel Order | Number of Segments | Total Sinuous Length (m) | Mean Sinuous Length (m) | Sinuosity Ratio |
|---|---|---|---|---|---|
| | 2 | 30 | 17,287 | 576 | 1.32 |
| | 3 | 12 | 17,975 | 1,498 | 1.39 |
| **GCE** | 4 | 5 | 20,055 | 4,011 | 1.66 |
| | 5 | 2 | 9,122 | 4,561 | 1.23 |
| | 6 | 1 | 4,874 | 4,874 | 1.21 |
| | 2 | 40 | 29,442 | 736 | 1.46 |
| | 3 | 17 | 20,019 | 1,178 | 1.43 |
| **VCR** | 4 | 3 | 7,902 | 2,634 | 1.43 |
| | 5 | 2 | 1,735 | 868 | 1.02 |
| | Open fetch | 1 | 16,385 | 16,385 | 1.97 |
| | 2 | 35 | 17,499 | 500 | 1.37 |
| | 3 | 10 | 10,100 | 1,010 | 1.19 |
| **PIE** | 4 | 5 | 6,503 | 1,300 | 1.13 |
| | 5 | 3 | 6,642 | 2,214 | 1.14 |
| | 6 | 1 | 3,080 | 3,080 | 1.02 |

*Table 2.3. Summary of the AMBUR transect data for each of the three study sites. The shoreline analysis spanned from 1933 to 2013 at GCE, 1949 to 2013 at VCR, and from 1938 to 2013 at PIE.*

| | **GCE** | **VCR** | **PIE** |
|---|---|---|---|
| **Number of Transects** | 2,017 | 1,585 | 1,397 |
| **Percent Erosional** | 50 | 48 | 74 |
| **Percent Accretional** | 50 | 52 | 26 |
| **Max Erosion Rate (m yr $^{-1}$)** | -1.07 | -2.21 | -1.25 |
| **Max Accretion Rate (m yr $^{-1}$)** | +3.08 | +3.62 | +1.81 |
| **Mean Rate of Change (EPR) (m yr $^{-1}$)** | +0.03 | +0.04 | -0.07 |
| **Error (m yr $^{-1}$)** | ±0.08 | ±0.06 | ±0.06 |

*Table 2.4.The AMBUR transect data divided into channel orders as determined in this study. The error for GCE was ± 0.08 m yr$^{-1}$, for VCR was ± 0.06 m yr$^{-1}$, and for PIE was ± 0.06 m yr$^{-1}$. Channel order was determined using the Strahler method. The end point rate of change or (EPR) was calculated using the AMBUR package in R.*

| | Channel Order | Number of Transects | Percent Erosional | Mean EPR of Eroding Transects (m yr$^{-1}$) | Max. rate of erosion (m yr$^{-1}$) | Percent Accreting | Mean EPR of Accreting Transects (m yr$^{-1}$) | Max. rate of accretion (m yr$^{-1}$) | Overall EPR (m yr$^{-1}$) |
|---|---|---|---|---|---|---|---|---|---|
| **GCE** | 2 | 375 | 49% | -0.20 | -1.47 | 51% | +0.23 | +1.23 | +0.02 |
| | 3 | 585 | 39% | -0.20 | -1.11 | 61% | +0.30 | +3.00 | +0.12 |
| | 4 | 641 | 57% | -0.29 | -1.69 | 43% | +0.29 | +1.46 | -0.04 |
| | 5 | 235 | 68% | -0.30 | -0.77 | 32% | +0.45 | +3.08 | -0.06 |
| | 6 | 99 | 33% | -0.15 | -0.42 | 67% | +0.32 | +3.03 | +0.16 |
| | **TOTAL** | **1,935** | **50%** | **-0.24** | **-1.69** | **50%** | **+0.29** | **+3.08** | **+0.03** |
| **VCR** | 2 | 406 | 50% | -0.15 | -1.23 | 50% | +0.18 | +0.60 | +0.02 |
| | 3 | 474 | 46% | -0.15 | -0.92 | 54% | +0.24 | +0.81 | +0.06 |
| | 4 | 294 | 27% | -0.18 | -0.56 | 73% | +0.46 | +2.1 | +0.29 |
| | 5 | 34 | 56% | -0.20 | -1.0 | 44% | +0.13 | +0.43 | -0.05 |
| | Bay- adjacent | 321 | 66% | -0.60 | -2.21 | 34% | +0.56 | +3.62 | -0.19 |
| | **TOTAL** | **1,529** | **48%** | **-0.27** | **-2.21** | **52%** | **+0.32** | **+3.62** | **+0.04** |
| **PIE** | 2 | 443 | 64% | -0.06 | -0.11 | 36% | +0.04 | +0.13 | -0.02 |
| | 3 | 353 | 82% | -0.09 | -0.25 | 18% | +0.04 | +0.31 | -0.07 |
| | 4 | 213 | 86% | -0.14 | -0.88 | 14% | +0.26 | +0.30 | -0.09 |
| | 5 | 199 | 62% | -0.17 | -0.75 | 38% | +0.12 | +1.81 | -0.06 |
| | 6 | 61 | 95% | -0.30 | -0.61 | 5% | +0.18 | +0.82 | -0.28 |
| | **TOTAL** | **1349** | **74%** | **-0.12** | **-0.88** | **26%** | **+0.08** | **+1.81** | **-0.07** |

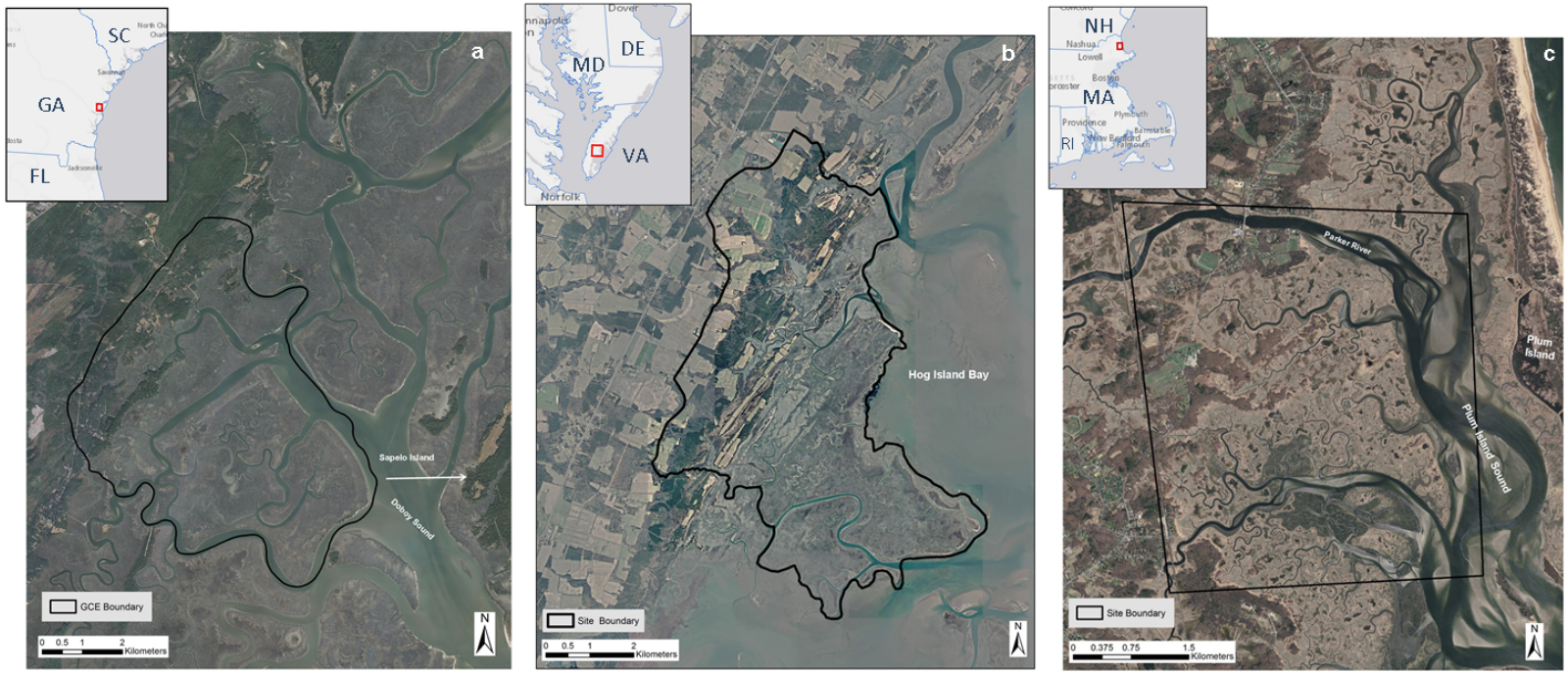



*Figure 2.1. Outlines of each of the three study sites (a) GCE, (b) VCR, and (c) PIE with an inset map showing their location along the coast. The red box on the inset indicates the extent of the larger map. The GCE and VCR study areas are 40 km$^2$ whereas PIE study area is only 21 km$^2$.*

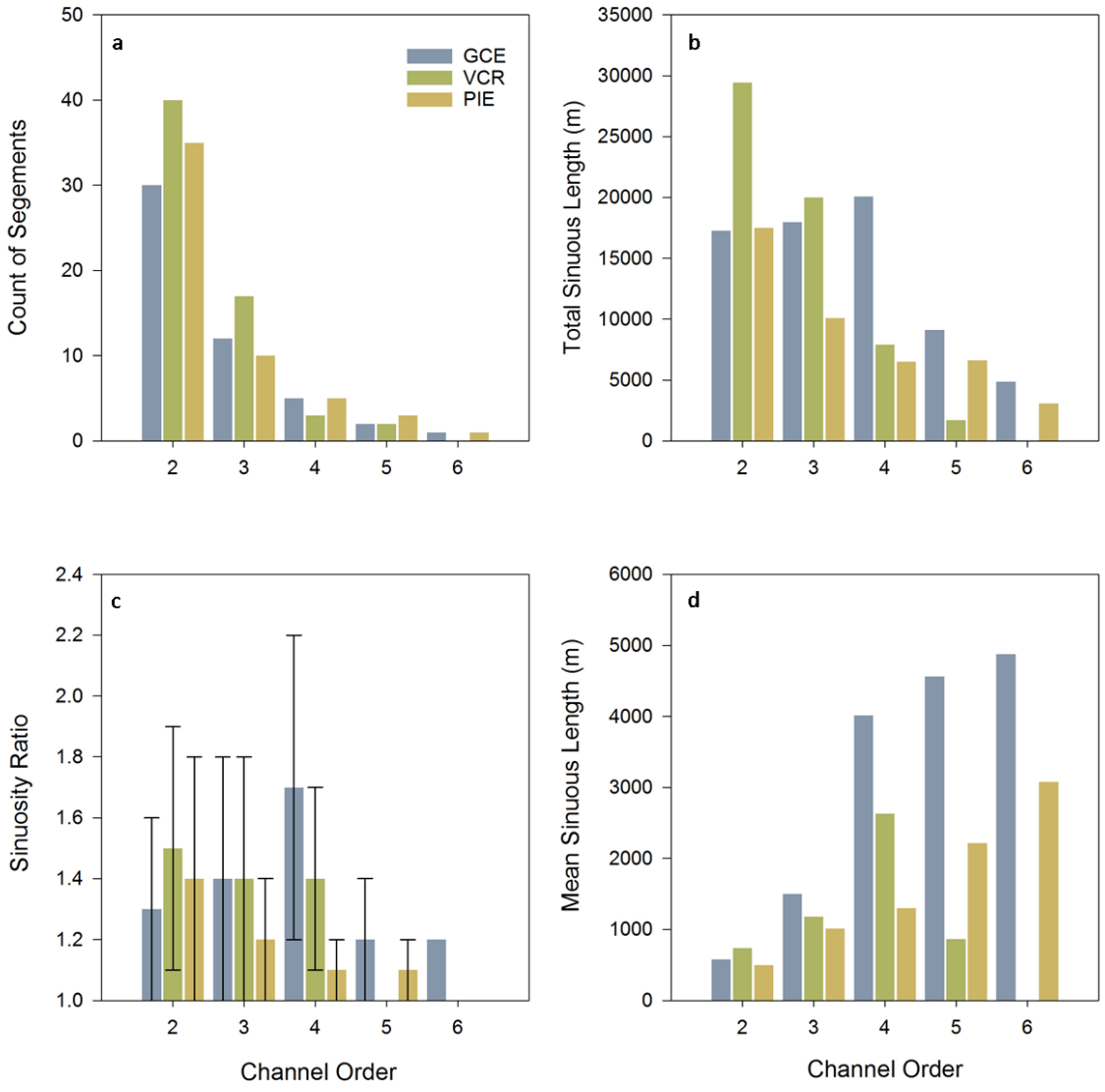



*Figure 2.2. The channel order metrics for each site including (a) count of segments, (b) total sinuous length of the channels in each order category, (c) the average sinuosity of channels in each order, and (d) the mean sinuous length. The black line in c is at 1.5 which represents the cut off for channels to be considered meandering. The mean sinuous length is calculated by dividing the total sinuous length by the number of segments.*

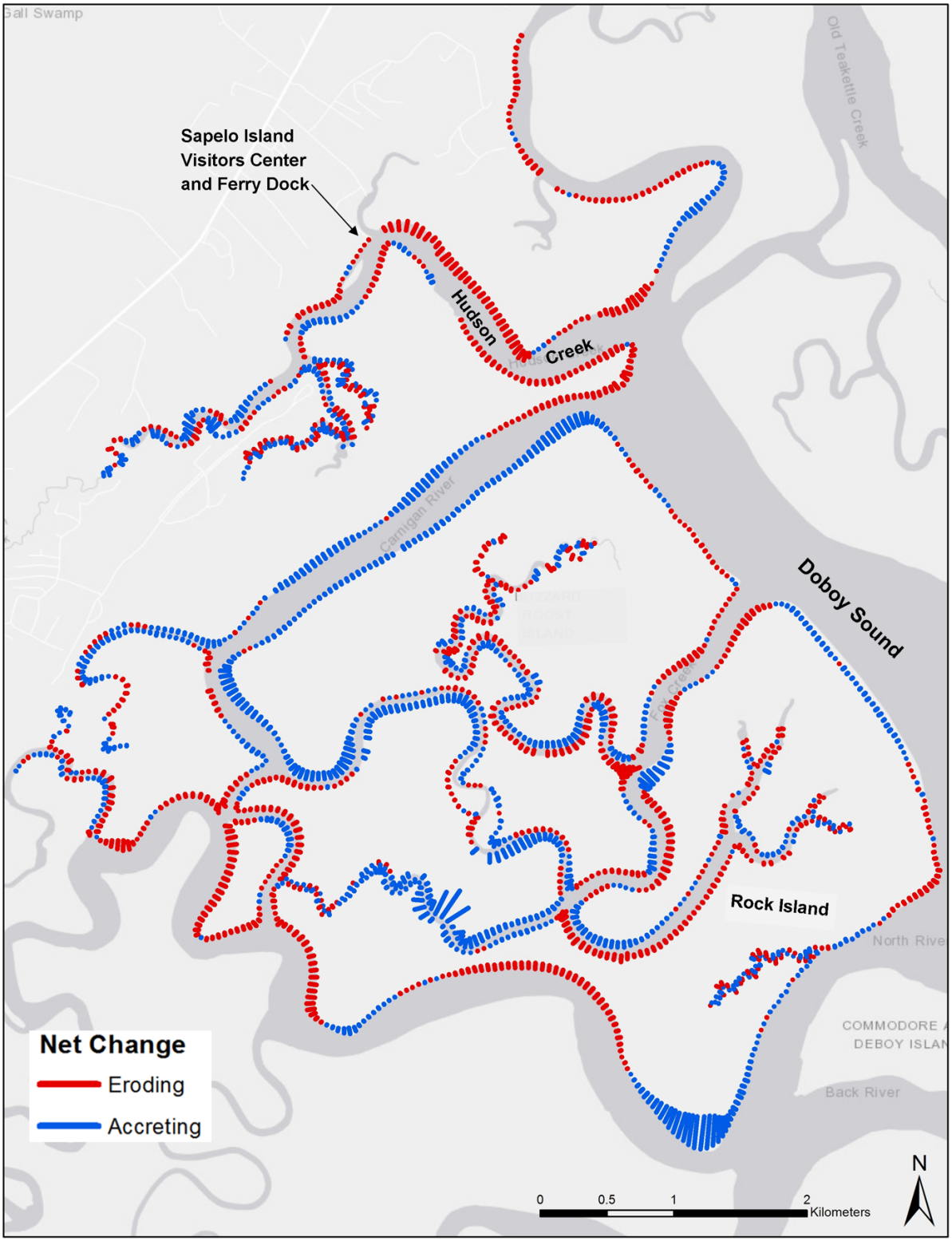



*Figure 2.3. AMBUR produced transects of shoreline change at the GCE study site. The lengths of transects represent the magnitude of change from 1933 to 2013 as measured in kilometers. Red transects are eroding and blue transects are accreting.*

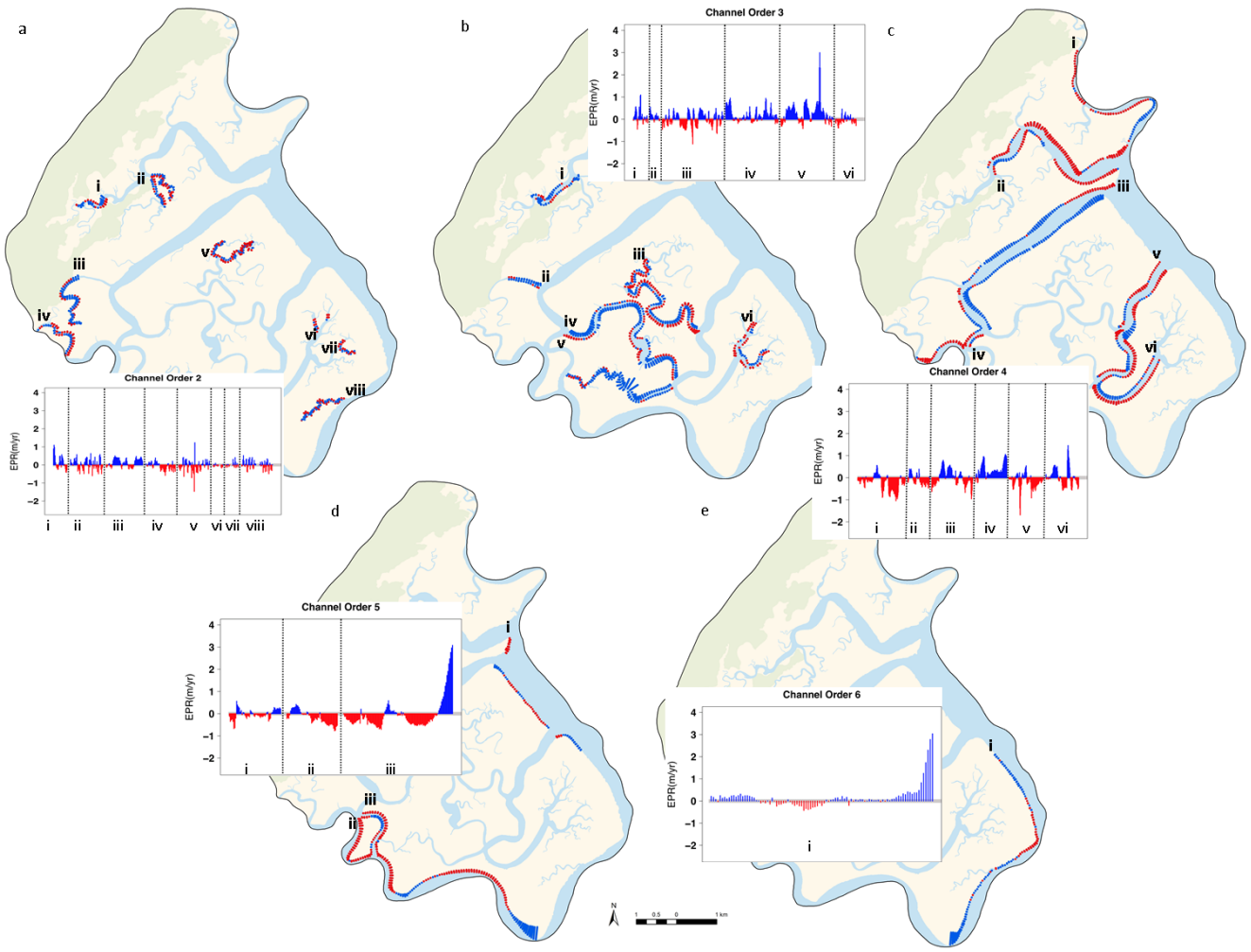



*Figure 2.4. Maps showing the location of transects according to their channel order at the GCE study site: (a) second order channels, (b) third order channels, (c) fourth order channels, (d) fifth order channels, and (e) sixth order channels. The roman numerals on each map correspond to those on the graphs and indicate where each individual channel falls. The placement of the roman numerals on the map indicates where the transects start for each section of the graph.*

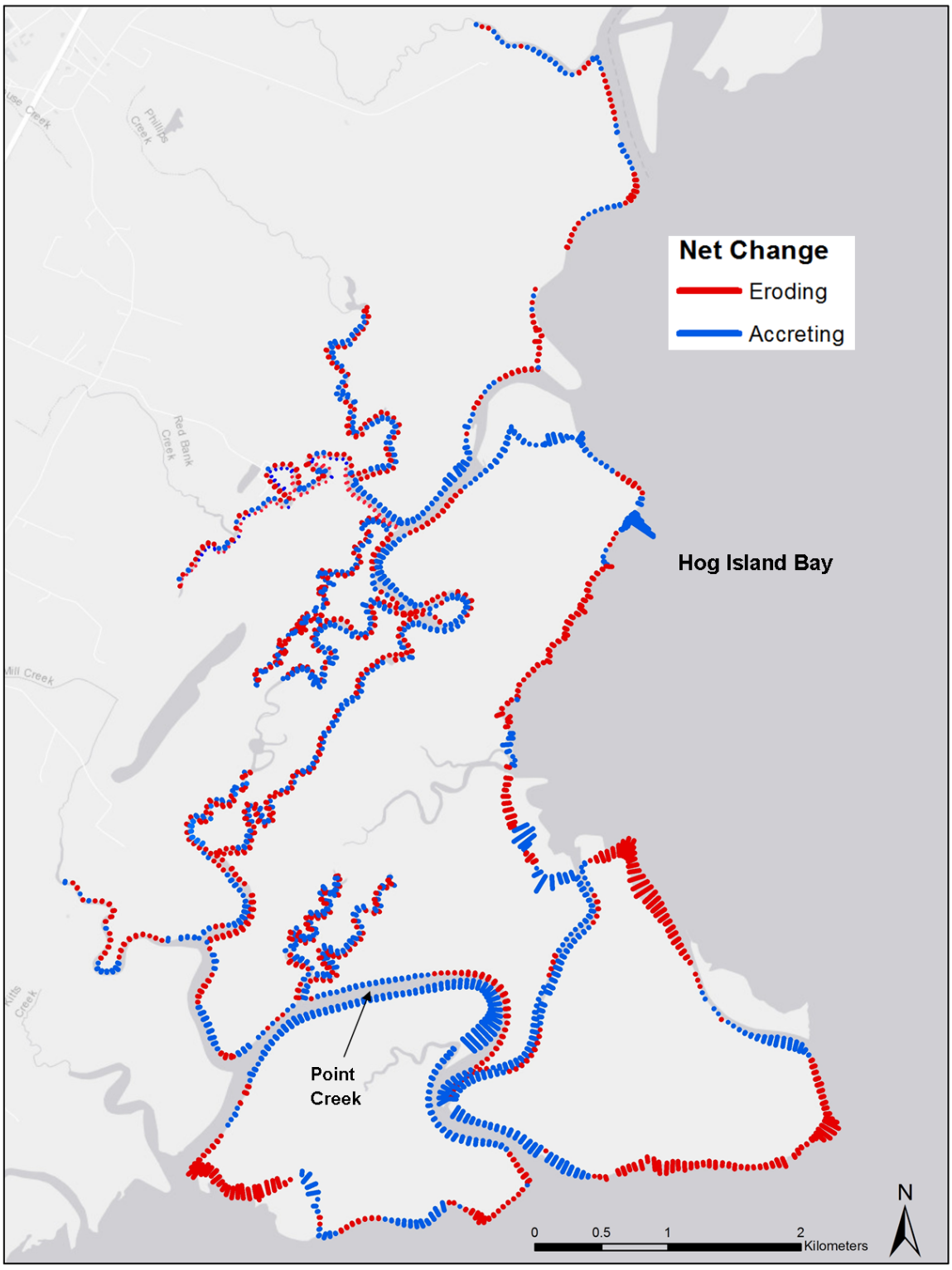



*Figure 2.5. AMBUR produced transects of shoreline change at the VCR study site. The lengths of transects represent the magnitude of change from 1949 to 2013 in kilometers. Red transects are eroding and blue transects are accreting.*

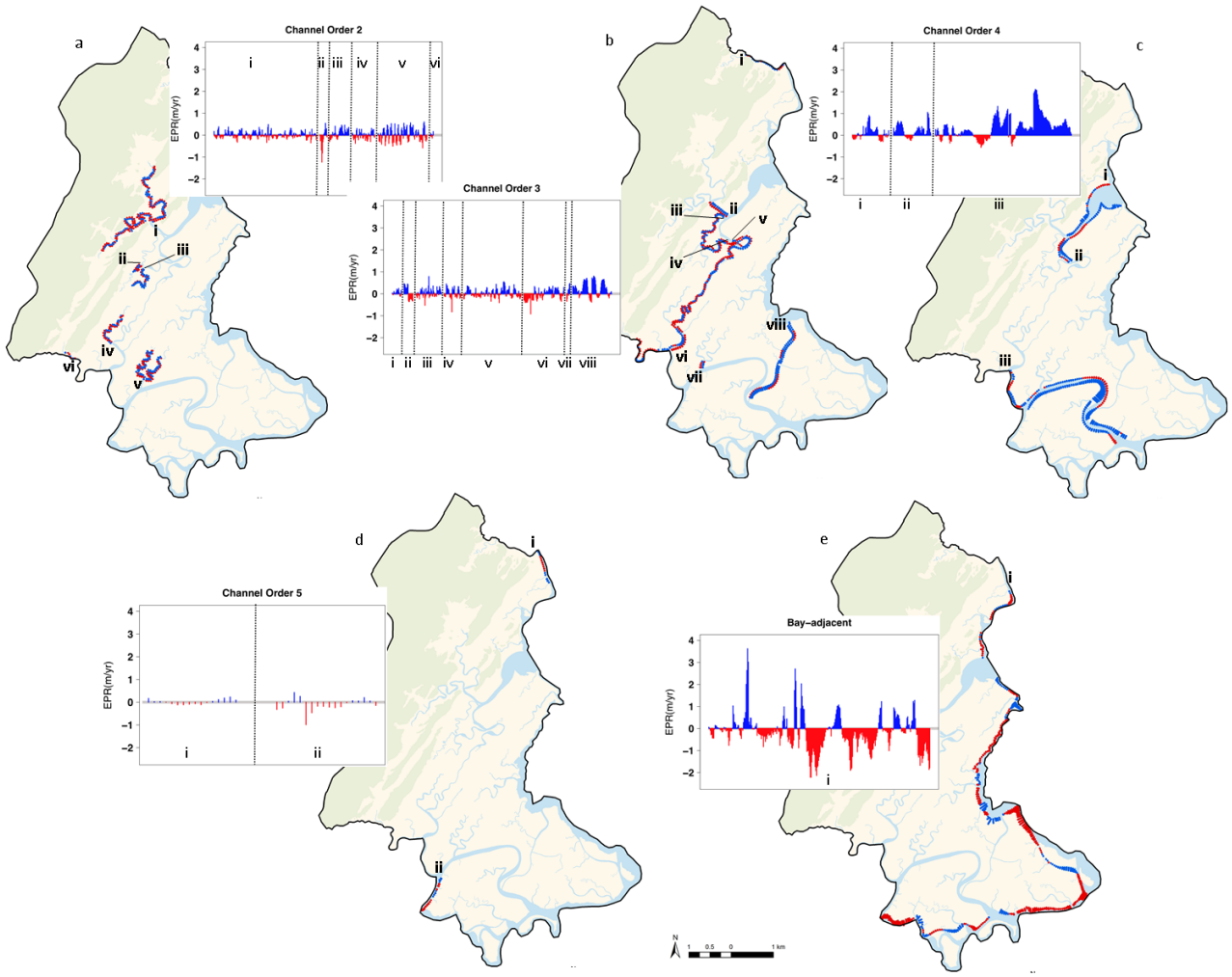



*Figure 2.6. Maps showing the location of transects according to their channel order at the VCR study site: (a) second order channels, (b) third order channels, (c) fourth order channels, (d) fifth order channels, and (e) Hog Island Bay transects. The roman numerals on each map correspond to those on the graphs and indicate where each individual channel falls. The placement of the roman numerals on the map indicate where the transects start for each section of the graph.*

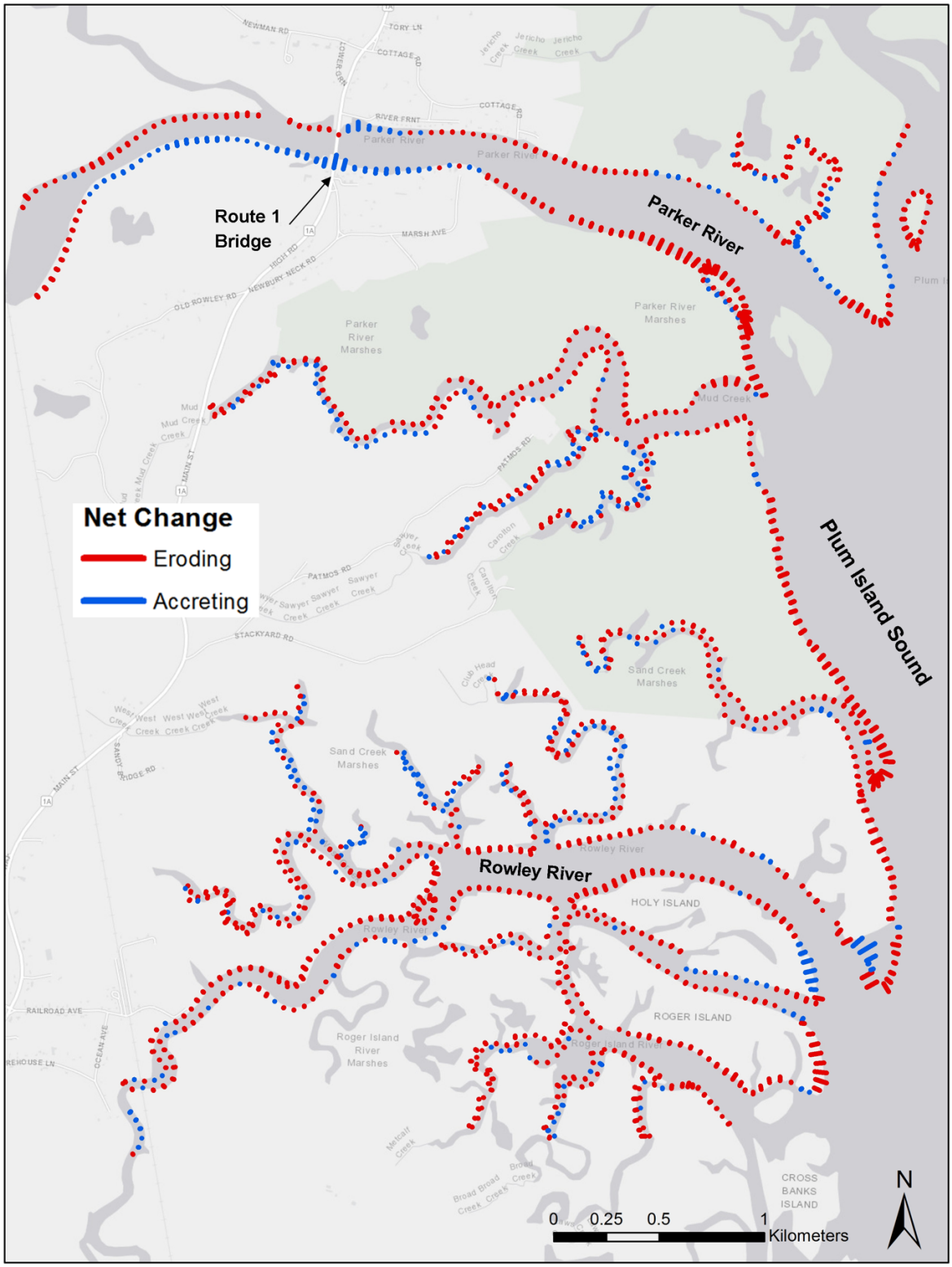



*Figure 2.7. AMBUR produced transects of shoreline change at the PIE study site. The length of transects represent the magnitude of change from 1938 to 2013 as measured in kilometers. Red transects are eroding and blue transects are accreting.*

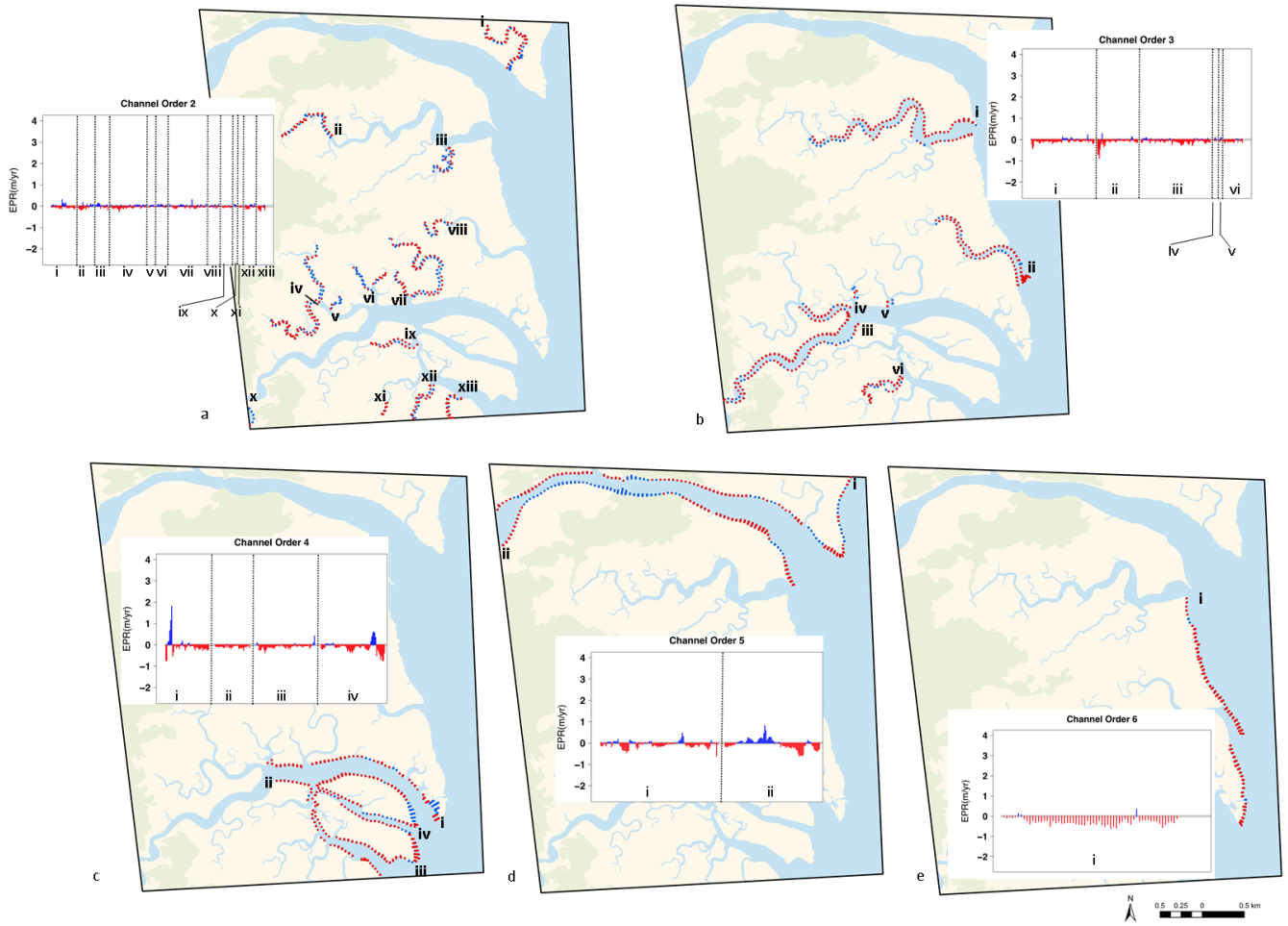



*Figure 2.8. Maps showing the location of transects according to their channel order at the PIE study site: (a) second order channels, (b) third order channels, (c) fourth order channels, (d) fifth order channels, and (e) sixth order channels. The roman numerals on each map correspond to those on the graphs and indicate where each individual channel falls. The placement of the roman numerals on the map indicate where the transects start for each section of the graph.*

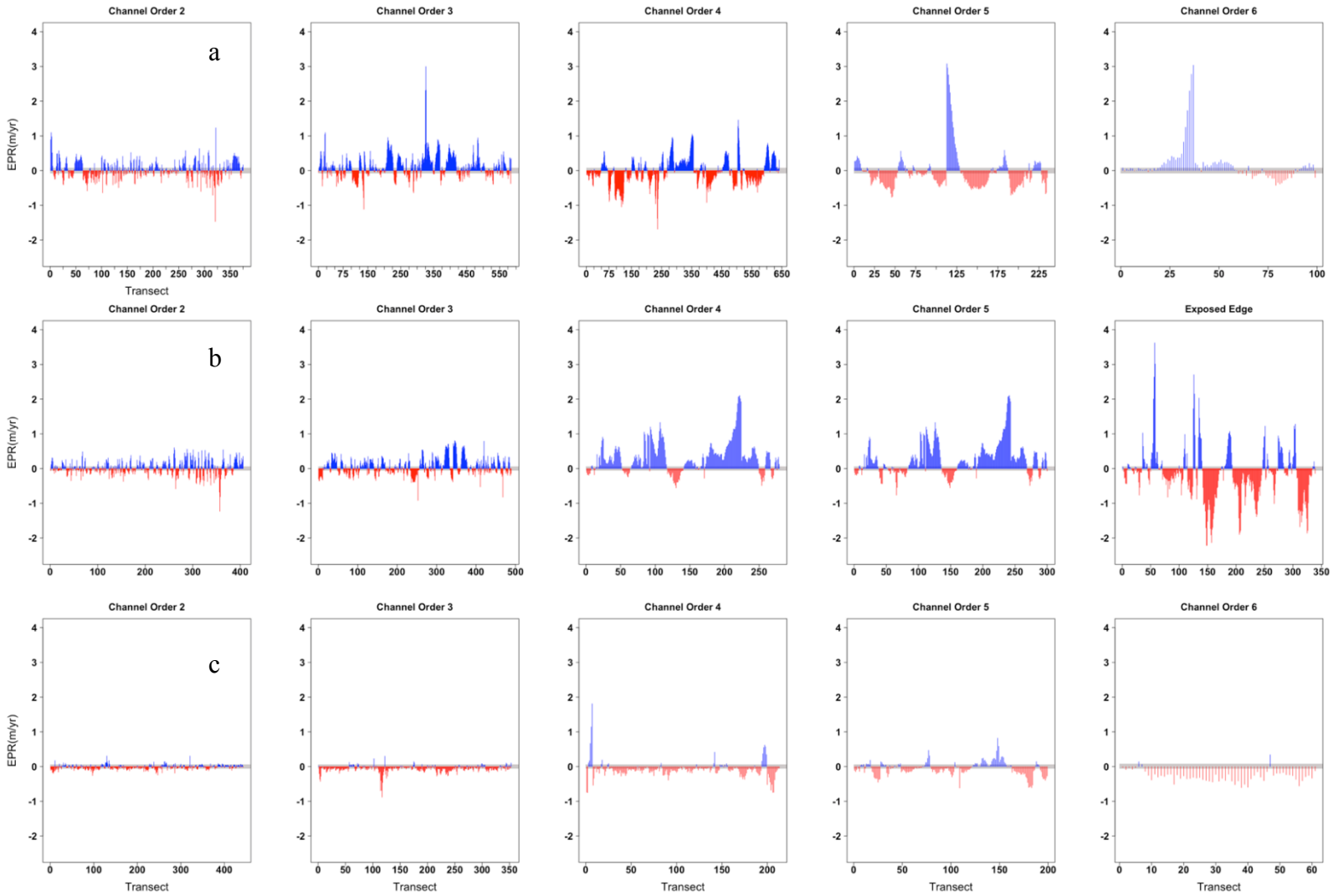



*Figure 2.9. End point rate of change (EPR) values for each transect grouped according to channel order at study site (a) GCE, (b) VCR, and (c) PIE. The magnitude of change increases with increasing channel order. Note that the y-axis is the same in all of the plots whereas the x-axis differs according to the number of transects.*

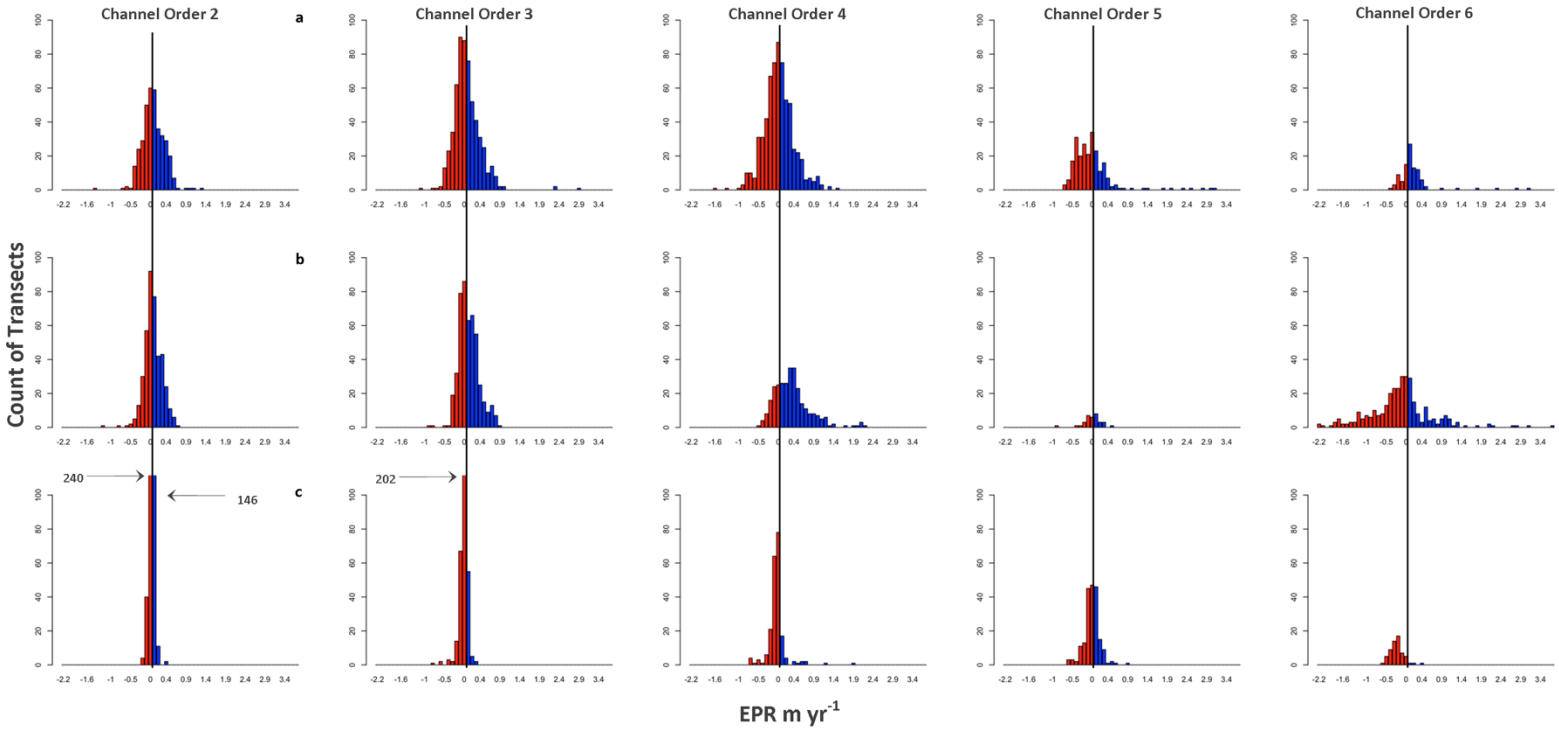



*Figure 2.10. Histograms showing the frequency of EPR values in 0.1 m bins for each channel order at (a)GCE, (b) VCR, and (c) PIE. A black line is drawn at 0 on each graph indicting the divide between positive (blue) and negative (red) EPR values. The highest counts at second and third order channels at PIE were manually added to keep the y axis the same across all three study sites.*

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# CHAPTER 3

# CROSS- SITE ANALYSIS OF HISTORICAL MARSH CHANGE OVER 70 YEARS[2]

[2] Burns, C., C. Alexander, and M. Alber. To be submitted to *Estuaries and Coasts*

**Abstract**

Marshes are valuable ecosystems that have historically kept pace with changes in sea level. However, there are concerns regarding their long term sustainability in light of sea level rise and anthropogenic change. This study used historical aerial photographs to measure changes in the vegetated marsh extent at study sites ranging from 18 to 25 $km^2$ in the three LTER sites along the US East coast: Georgia Coastal Ecosystems (GCE), Virginia Coast Reserve (VCR), and Plum Island Ecosystems (PIE) over approximately 70 years. I classified each marsh feature into vegetated marsh, ponds, interior mud flats, channels and uplands and quantified conversions between features over time. I also merged the classified data with a Digital Elevation Model (DEM) from each site. GCE maintained a consistent vegetated marsh extent (0.4 $km^2$) even as the location of various marsh features changed. VCR experienced extensive vegetated marsh loss to interior mud flat expansion. This loss was exceeded by migration onto the upland which increased vegetated area by 0.6 $km^2$. The vegetated marsh area at PIE decreased by 1.2 $km^2$ due to losses from ponding, channel widening, and erosion at the open fetch marsh edge. The DEMs revealed that the three marshes were positioned at differing elevations within the tidal frame, with PIE at the highest and VCR at the lowest elevation. GCE was identified as the most resilient to future change and VCR as the least, based on historical changes in vegetated marsh extent and other environmental characteristics.

**Key words**: DEM, GIS, marsh change, image interpretation, ponding, marsh migration, cross-site analysis, elevation, sea level rise, human modification, resilience, vulnerability

## 3.1 Introduction

Salt marshes are intertidal wetland habitats found in protected areas in the temperate zone. They provide many important ecosystem services including storm protection, nursery habitat, nutrient cycling, and carbon storage (Barbier et al. 2011; Temmerman et al. 2013). Marshes are subject to changes in sea level, and have historically kept pace with rising seas by adjusting their vertical extent through feedbacks between inundation, vegetation, and sediment. Increased inundation leads to increased growth of aboveground biomass, which has greater sediment trapping abilities. This promotes vertical accretion, allowing the marsh to maintain its position relative to sea level (Morris et al. 2002; Kirwan et al. 2010). However, rates of sea level rise (SLR) have been increasing over the past century (Church and White 2011) and are expected to increase between 0.26 and 0.82 m by 2100 with some model estimates in excess of 2 m (IPCC 2014; Jackson and Jevrejeva 2016). This has raised concerns regarding potential consequences for vegetated marsh area. Not only might increased flooding affect the vertical position of the marsh, it may also cause changes in the horizontal extent at the landward and seaward boundaries (Fagherazzi et al. 2013; Kirwan et al. 2016). The ability of a marsh to respond to SLR may also be hindered by human activities that affect sediment delivery to the coast or provide barriers to marsh migration, particularly at the upland border (Adam 2002; Torio and Chmura 2013).

Marshes are dynamic environments, and the vegetated marsh naturally expands and contracts over time (Fagherazzi 2013). Vegetated marsh can be lost due erosion at the outer marsh exposed to high fetch, channel widening, or interior flooding (Downs et al. 1994). Erosion in response to wave action physically removes material from the seaward edge of the marsh and along the channels, thus leaving no substrate for plants (Schwimmer 2001). Wave induced

erosion is more severe in places with large fetch, such as Venice Lagoon, Italy (Day et al. 1998) and Nanticoke Estuary, MD (Kearney et al. 1988) or in places with heavy boat traffic (Browne 2017). SLR exacerbates this type of marsh loss by increasing the depth of the adjacent body of water and allowing for the generation of larger waves and their propagation to shore (Mariotti and Fagherazzi 2013). Channel widening occurs as prolonged inundation stresses the edge vegetation, and can cause plants to die back along channels throughout the entire marsh (Downs et al. 1994). Prolonged inundation may also impact the marsh interior, particularly in low-lying areas where the marsh may not keep up vertically with SLR (Kirwan et al. 2016). When vegetation is lost due to interior flooding the area may convert to ponds or interior mud flats (Schepers et al. 2017; Passeri et al. 2015). For example, Stevenson et al. (1985) note the loss of 2300 ha of vegetated marsh to interior ponding at Blackwater National Wildlife Refuge where the effects of SLR are enhanced by coastal subsidence.

Marsh vegetation expands when plants colonize low-lying areas such as mudflats or creek edges. This process can be rapid due to positive feedbacks between plants and sediment trapping. In an assessment of the geologic lifecycle of marshes, Fagherazzi (2013) compiled global marsh erosion and expansion rates. He found rates of marsh expansion ranged from 30 cm $yr^{-1}$ in bays and lagoons to 100 m $yr^{-1}$ in deltaic environments with high concentrations of suspended sediments.

Marsh area can also expand by vegetation moving upslope, encroaching on areas that were formerly uplands. Marsh migration generally occurs as a result of increased inundation of the marsh-upland border by salt water due to SLR. Wasson et al. (2013) measured upslope migration of the marsh upland boundary by 20 cm in the vertical direction and 100 cm in the horizontal direction over 10 years in Elkhorn Slough, CA. This migration correlated with an

increase in inundation hours. A steep slope to the upland (Kirwan et al. 2016) and resistant forest vegetation (Field et al. 2016) can slow down or inhibit this horizontal shift. The presence of static structures at the marsh upland boundary such as shoreline armoring can also prevent this horizontal migration. This condition of limiting the extent of the intertidal area between rising seas at the marsh edge and human development on the upland is often referred to as "coastal squeeze" (Torio and Chmura 2013).

The processes of marsh expansion and contraction may occur simultaneously, as marshes are naturally dynamic in the horizontal direction (Fagherazzi 2013). Schieder et al. (2018) demonstrated that marshes along Chesapeake Bay experienced net erosion at the marsh-water boundary while simultaneously shifting horizontally onto the upland. Observed rates of marsh migration onto the upland were largely equal to or greater than the erosion documented at the marsh-water boundary, such that the net effect on marsh extent was neutral in this case.

The effect of SLR on the extent of vegetated marsh depends on the interplay of multiple factors including the relative rate of SLR, sediment supply, and the elevation of the marsh platform within the tidal frame (Morris et al. 2002; Passeri et al. 2015; Mariotti 2016). Marshes are more vulnerable to vegetation loss when the rate of SLR is higher, when sediment supply is low, and when the marsh platform is set lower in the tidal frame (Ganju et al. 2016; Friedrichs and Perry 2001). Tidal range can also be a factor, as it sets the limits of the intertidal zone. In general, marshes with larger tidal ranges have the potential to trap more sediment and therefore adjust their vertical position (Friedrichs and Perry 2001). Finally, access to upland migration space is also important. A model by Kirwan et al. (2016) suggests that it is not just availability of upland space but also the slope that affects migration. They found that marshes with gently sloping upland transitions experienced marsh expansion under a wide range of relative SLR and

suspended sediment concentration scenarios, whereas those with steeper slopes had less accommodation space and were drowned more quickly. Schile et al. (2014) modeled the relationship between sediment supply, elevation, and proximity to the adjacent upland in the San Francisco Bay Estuary. They found that the sites with mid to high suspended sediment concentrations were able to maintain their vertical extent through accretion for 100 years under SLR rates of 52 to 100 cm century$^{-1}$. Eventually, even these high sediment marshes reached a point at which they needed accommodation space in the form of upland habitat for continued persistence.

This study is a cross-site comparison of historical changes in marsh features in three east coast marshes. These marshes have different rates of relative SLR, tidal range, and sediment supply. They also occur at different elevations in the tidal frame and have differing upland slopes. I characterized each of the expansion and contraction processes described above (changes in open fetch marsh edge; channel edges; marsh interior; and upland border) in order to interpret observed changes in vegetated marsh extent over approximately 70 years. I also evaluated elevation of the various marsh features in the present day to gain insight into the potential ability of each site to adapt to future changes.

## 3.2 Methods

Study Area

Three Long Term Ecological Research (LTER) sites were chosen for this study: Georgia Coastal Ecosystems (GCE), Virginia Coast Reserve (VCR), and Plum Island Ecosystems (PIE) (Table 3.1). A focus area of approximately 20 km$^2$ was chosen for detailed analysis at each site. Each focus area included a portion of the marsh-upland boundary and the main bay or sound.

*Georgia Coastal Ecosystems, GA (GCE)*

GCE is situated at the midpoint of the Georgia coastline. The marshes of GCE are typical of marshes found in the southeastern United States and are dominated by the low marsh grass, *Spartina alterniflora,* although *Juncus romerianus* can be found in the high marsh at the upland transition (Hladik and Alber 2014; Pennings and Richards 1998). This analysis focused on a 25 $km^2$ section of marsh adjacent to the mainland behind Sapelo and Wolf Islands (Figure 3.1a). The suspended sediment concentrations at this site range from 26 to 400 mg $L^{-1}$ (Schutte et al. 2013). GCE is considered mesotidal and is currently experiencing 3.23 mm $yr^{-1}$ of relative SLR (Figure 3.2a). This site has minimal marsh modification, although there is a growing interest in shoreline hardening.

*Virginia Coast Reserve, VA (VCR)*

The VCR site is located on the Delmarva Peninsula (Figure 3.1b) (McLoughlin et al. 2015). This study focused on an 18 $km^2$ section of marsh adjacent to Hog Island Bay, one of a number of shallow bays included in the VCR LTER. VCR experiences the highest rates of relative SLR in this study at 3.64 mm $yr^{-1}$ (Figure 3.2b) and the average sediment concentration is 25 mg $L^{-1}$ but it ranges from 3 to 48 mg $L^{-1}$ depending on the season (Lawson et al. 2007). This site is largely vegetated by *S. alterniflora.* The marsh-to-upland boundary is dominated by forest and agriculture, and much of it has been protected under easements (McLoughlin et al. 2014). Overall, this study site is relatively undeveloped and as such has experienced minimal modification.

*Plum Island Ecosystems, MA (PIE)*

This 21 $km^2$ study site is positioned in the marshes on the western mainland side of Plum Island Sound (Figure 3.1c). Three major watersheds drain into Plum Island Sound, but upstream

dams limit the sediments supplied to these marshes. Suspended sediment concentrations range from 3 to 30 mg $L^{-1}$ (Kirwan et al. 2010; Drake et al.2009). This site is dominated by the high marsh grass, *S. patens*. These marshes were heavily ditched and previous studies suggest this led to over-drainage of the PIE marsh (Redfield 1972). These ditches are now filling in, returning the marsh to its natural drainage state (Wilson et al. 2014; Adamowicz and Roman 2005). PIE experiences 2.82 mm $yr^{-1}$ of relative SLR (Figure 3.2c). According to a 2013 study of shoreline armoring in Massachusetts, most of the shoreline armoring in northern Massachusetts falls outside of the PIE study area (Fontenault et al. 2013).

Data Acquisition:

I obtained aerial images of each site for three time periods beginning in the late 1930s and 40s and ending in 2013 (Table 3.2). Some of these datasets overlapped with the imagery used in Chapter 2. At GCE, I used imagery from 1942, 1972, and 2013. At VCR, the imagery was from 1949, 1957, and 2013. Finally, PIE imagery was from 1938, 1971, and 2013. Imagery for VCR was the hardest to obtain and is thus less well-spaced than the imagery used at GCE and PIE sites.

I used ArcGIS 10 to manually digitize vegetated marsh as well as other features such as ponds, interior mud flats, channels, and upland (Figure 3.3). The category of channels was further split into the sub-categories of interior marsh channel and open fetch marsh to distinguish between the interior creeks and the exposed shoreline edge. Manual delineation of aerial images is a well-established technique of classifying historical marsh extent for long-term studies. Automated classification techniques, which are becoming increasingly used in wetland delineation, are not able to analyze historical aerial imagery as automated methods often rely on elevation data or spectral signatures to classify the marsh (Rapinel et al 2018; Dronova 2015).

Digitizing rules were established to ensure that features were digitized consistently over time and across study sites (Table 3.3). However, I did make adjustments to account for specific circumstances at each site. At GCE, the 1972 dataset was missing one photo along the upland boundary. A 1976 photo was therefore used to fill that gap as it was the closest available imagery in time. This was deemed acceptable as shorelines throughout the rest of the 1976 photo closely tracked the 1972 shorelines. At VCR, the marsh water boundary was difficult to discern along sections of Hog Island Bay. The shoreline was delineated where the texture changed from rough to smooth and the imagery tone changed from a lighter to darker color. The study area boundary at this site was partially drawn to avoid reflectance and defects in two of the 1949 images. Finally at PIE, ponds were often located in groups with a thin, 1 to 2 m wide, barrier between them. As this is not likely to be discernable in the older imagery, these ponds were digitized as single features.

Accuracy Assessment:

Similarly to Chapter 2, assessments of digitizer error *(D)*, pixel resolution *(P)*, and georectification error *(G)* were put into *Eq (1)* to determine the consistency (C) of the digitized polygons (Dolan et al. 1991; Romine et al. 2009).

$$Eq\ (1): C = \pm\sqrt{D^2 + P^2 + G^2}$$

The digitizer error was assessed by repeat digitization of polygon features, pixel resolution was obtained from the imagery, and the georectification error was calculated from the RMSE values provided by the ArcGIS software (Chapter 2).

Since this analysis used polygon features rather than line features, the consistency is reported in percent area rather than absolute measurements so that it scales appropriately with the

feature size. The feature consistency ranged from 2 to 5%. These values are within the range of consistency calculated by other studies (Cotton 2004).

Subtraction Analysis

A subtraction analysis was performed using the UNION tool in ArcGIS. This tool merges the datasets and creates new polygons revealing where features have changed. The subtraction analysis was used to show overall changes from the first (1930/40s) dataset to the middle dataset (1950s-1970s), from the middle dataset to the present day (2013) dataset, as well as for changes between the first dataset and the present-day dataset for each site.

DEM analysis

An existing Digital Elevation Model (DEM) was obtained for each study site from each of the three LTER programs (Table 3.4). Vegetated marsh, ponds, and interior mud flats were attributed with an average elevation of the pixels within each digitized feature. Additionally, the DEM was used to determine the slope of the first 50 m of the upland transition. Each site was also evaluated for the percentage of pixels below a 3° slope as slopes greater than 3° are considered to be too steep for marsh migration (Kirwan et al. 2016; Field et al. 2016). These DEMs were created from LiDAR elevations obtained for separate projects and consequently had different resolutions. The DEMs were all resampled to 10 m, the resolution of the coarsest data set. The accuracy of these data had been previously calculated and were obtained through the metadata files associated with each DEM. A correction was applied to the GCE LiDAR to account for the presence of vegetation on the marsh (Hladik and Alber 2012). This was required because the vegetation of the Georgia marsh never fully dies. PIE and VCR LiDAR data were both flown in April when vegetation was low, and therefore were not corrected. All DEMs provided elevations in meters referenced to NAVD 88.

## 3.3 Results

Characterization of Marsh Features

Table 3.5 provides a summary of the cumulative area of each marsh feature type (vegetated marsh, tidal channel, flats, ponds, and uplands) in each of the three years evaluated at each site. The total area of each feature class is reported in Table 3.5 along with the estimate of consistency. These consistency values of the digitized polygon areas ranged from 2 to 5%, with the older images generally having greater inconsistency.

The relative importance of marsh features varied among the three sites and was partially dependent on where the study area boundaries were drawn. All three sites included vegetated marsh, upland, and tidal channels (Figure 3.3). Over 50% of each study site was vegetated marsh. Upland area varied from as low as 11% of the GCE study site to as high as 22% at VCR (Table 3.5). Tidal channel area was a greater portion of the study site at PIE (26%) than at VCR (11%), with GCE falling between. The presence of interior mud flats and ponds varied among sites. GCE had exclusively interior mud flats, which made up a small percentage (1%) of the study site, while PIE had exclusively ponds (3%). VCR included both interior mud flats (5%) and ponds (1%).

*GCE*

The vegetated marsh extent did not change significantly at the GCE study site between 1942 and 2013 (Figure 3.4a). Vegetated marsh area decreased by 0.3 $km^2$ (1% decrease) from 1942 to 2013, which is within the error term. The amount of area converted from vegetated marsh to interior mud flats (0.25 $km^2$) was approximately equivalent to the colonization of flats by vegetated marsh (0.28 $km^2$), such that the total interior mud flat area remained constant (0.4 $km^2$) with a consistent ratio of vegetated marsh:flats of 41:1 (Table 3.6). Although expansion and

contraction of existing flats was observed, many changed locations, with only that 28% of interior mud flat area remaining in the same location from 1942 to 2013 (Figure 3.5). This was the lowest percentage of unchanged flats of the three sites.

Tidal channel area at the GCE site increased by 0.3 $km^2$ (6% increase) from 1942 to 2013. However, a pattern of channels extending further into the marsh was observed in a number of places (Figure 3.5). As channels extended, they connected with the existing interior mud flats and drained them. New flats often formed further into the marsh, such that they maintained their position at the head of the creek (iii and iv in Figure 3.5). In contrast to interior marsh loss to channel conversion, changes in the area of the open fetch marsh along Doboy sound were net neutral between 1942 and 2013.

Changes measured in upland area at GCE were also within the error estimates (3% decrease). However, one interesting change in the upland extent occurred directly adjacent to the vegetated marsh boundary in an area that was historically farmed. Between 1942 and 1972, this farm was overtaken by vegetated marsh and 4.7 ha of upland were lost (see i in Figure 3.5a). From 1972 to 2013, 1.3 ha of the recently converted upland area was converted to interior mud flat (Figure 3.5b).

*VCR*

The VCR study site experienced change in all feature categories between 1949 and 2013. The area of vegetated marsh expanded by over 1 $km^2$ due to upland conversion to vegetated marsh, whereas 0.5 $km^2$ were lost due to conversion to interior mud flats (Table 3.3). When all changes were considered, the net effect was a 0.6 $km^2$ increase in vegetated marsh (6% increase) (Figure 3.4b).

Unvegetated interior mud flats at the VCR study site increased by 0.5 $km^2$ between 1949 and 2013, which nearly doubled the total interior mud flat area (80% increase). While the area converted from flats to vegetated marsh remained consistent over the course of the study, the conversion from vegetated marsh to flats doubled between the middle and later imagery (Table 3.7). Much of this increase was through the expansion of existing interior mud flats, as 76% of interior mud flat area remained consistent between 1949 and 2013 (Figure 3.6). This interior mud flat expansion occurred largely in a few low-lying sections in the interior of marsh around Castle Ridge Creek and Red Bank Creek: Between 1949 and 2013 these two channels narrowed and the surrounding interior mud flats expanded. These changes in flats resulted in a decrease in the ratio of vegetated marsh:flats from 18:1 to 10:1 over time. In addition to interior mud flats, the VCR study site also had a few ponds totaling 0.02 $km^2$ in area. As ponds were quite sparse, fluctuations in their total area did not have a significant effect on vegetated marsh extent. The ratio of vegetated marsh:ponds was consistently very high (435:1 in 1949 and 448:1 in 2013). Ponded area decreased between 1949 and 1957 but was fully regained by 2013.

VCR had 2 $km^2$ of tidal channels. The 0.3 $km^2$ decrease in channel area from 1949 to 2013 was not large, but it did exceed the error estimate (14% decrease) (Table 3.7). Channel area was predominantly lost in the interior channels of the marsh, such as the previously mentioned Castle Ridge and Red Bank Creeks, both of which narrowed (Figure 3.6). The area of open fetch marsh adjacent to Hog Island Bay was assessed separately. This section of marsh experienced little gains or losses from 1949 to 2013, and the net change was negligible (+0.03 $km^2$). This focus area did not include the area of the VCR marsh where I observed the highest levels of open fetch marsh change in Chapter 2.

The VCR study site had more upland area included within the focus area than the other two sites, with large upland islands on the marsh platform in addition to the mainland border (Figure 3.3). Between 1949 and 2013, the site lost 1 $km^2$ of upland to vegetated marsh (24% decrease) (Table 3.3). From 1949 to 1957, upland conversion to vegetated marsh largely took place at upland vegetated islands on the marsh platform, whereas from 1957 to 2013 upland area was lost at the marsh upland boundary as well as at these islands (Figure 3.6).

*PIE*

The greatest changes in marsh features at the PIE study site were in the areas of vegetated marsh and ponds (Figure 3.4c). When all conversions were considered, vegetated marsh had a net decrease of 1.2 $km^2$ between 1938 and 2013 (10% decrease) (Table 3.5). During this same period, ponded area increased from 0.3 $km^2$ to 1 $km^2$ (206% increase). This increase in ponded area can be attributed to both an increase in the number of ponds (1094 to 1484 ponds) and mean pond size (302 $m^2$ to 683 $m^2$). Throughout the study, the conversion rate of ponds to vegetated marsh was half as much as the conversion of vegetated marsh to ponds (Table 3.8). Both conversion rates increased proportionately, such that the creation of ponds continuously outweighed their loss to drainage. The change detection analysis indicated that 42% of the ponded area in 1938 was still present in 2013, suggesting that pond expansion and new initiation of ponds both played a role in their increase (Figure 3.7). The ratio of vegetated marsh to ponds decreased from 35:1 in 1938 to 10:1 in 2013.

Tidal channels represented a larger portion (26%) of the PIE study marsh than those at the other two LTER sites (Figure 3.4c). Total channel area increased by 0.5 $km^2$ (9% increase from 1938 to 2013) (Table 3.8). The increase in channel area was due to a slight widening of most of the channels throughout the entire study site (Figure 3.7). Of the 0.5 $km^2$ gained, 0.1 $km^2$

can be attributed to marsh loss along Plum Island Sound. All changes in upland area were within the error (less than 1% change).

DEM Analysis

*Vegetated Marsh Elevation*

The height of the vegetated marsh platform varied considerably among the three sites. The study site at VCR was the lowest, with a mean elevation of 0.48 m; followed by GCE (0.77 m) and PIE (1.36 m). The hypsometric curves (Figure 3.8) show this as well, in that 90% of the marsh at the VCR site sat below 0.7 m, whereas those thresholds were 1 m for GCE and 1.5 m for PIE.

Despite their striking differences in elevation, vegetation in each of these marshes largely occupied a narrow, one meter, elevation range, with a majority of the vegetated area within a range of 10 or 20 cm. However, they varied greatly with respect to MHW. At VCR, 46% of the vegetated marsh was between 0.4 and 0.6 m, which is just under MHW (Figure 3.9b). At GCE, 40% of the marsh area was between 0.7 and 0.9 m, which is about MHW (Figure 3.9a). At PIE, the vegetated area was considerably above MHW, with 51% between 1.3 and 1.4 m (Figure 3.9c).

*Elevation of ponds and flats*

At the GCE study site interior mud flats occurred between -0.4 and 1.4 m, which was nearly the full marsh elevation range. The largest flats and therefore the highest proportion of interior mud flat area occurred at the lowest elevations (-0.4 m) (Figure 3.10). Although the elevation of these large flats could not be measured in the historical imagery, they were consistently present in this location across all images. Although most of the flats occurred at lower elevations, the highest number of flats occurred between MSL and MHW, and there was

an increase in both number of flats and the mean flat size increased between 1 and 1.3 m (Figure 3.10a and c).

The vertical distribution of interior mud flats at the VCR study site had a narrower range (-0.1 to 0.7 m) than at GCE (Figure 3.11a), and nearly all the flats by number and area were between MSL and MHW. The number of flats exhibited a unimodal distribution with the most flats falling between 0.1 and 0.2 m. The lowest elevation interior mud flats were much larger than the higher elevation flats. Thus, the total flat area, average flat size, and proportion of flats generally exhibited an inverse relationship with elevation (Figure 3.11b-c).

The distribution of ponds at the PIE study site mirrored the elevation distribution of the vegetated marsh, with the most ponds in terms of both number and area falling between 1.3 and 1.4 m (Figure 3.12a). Both the total pond area and the number of ponds had unimodal distributions (Figure 3.12a-b). Contrary to the VCR study site and the GCE study site where interior mud flats occurred predominately below MHW, nearly all ponds at the PIE study site sat above MHW. Additionally, mean pond size exhibited the opposite relationship than that observed with respect to the interior mud flat size at the other study sites in that mean pond size generally increased with increasing elevation. The ponds at PIE were ubiquitous across the entire study area (Figure 13.12e), and the proportion of ponds relative to vegetated marsh area was more evenly distributed than the proportion of interior mud flat area to vegetated marsh at either the VCR or GCE sites (Figure 3.12d).

*Upland Slope*

Of the three study sites, VCR had the lowest average upland slope at 0.83° ± 0.71° (SD) while PIE had the highest average slope of 4.06° ± 3.10° (SD) (Table 3.9). Nearly all (98%) pixels fell below 3° slope at VCR as compared to only 46% of those at PIE. The upland slope of

GCE fell between VCR and PIE with an average slope of 2.24° ± 0.2.2° (SD) with 76% of pixels having a slope below 3°. The range in upland slope was about 20° for GCE and PIE and less than 10° at VCR. The GCE slope varied along the upland border (Figure 3.13a). The southwestern section of the upland transition had a steeper slope than the northeastern section, where I noted above that upland had converted to vegetated marsh and then interior mud flat. VCR had a low slope along nearly all upland borders including the marsh islands (Figure 3.13b). PIE had the most range in slope along the marsh-upland border (Figure 3.13c).

**3.4 Discussion**

Over the past 70 years, the GCE study site experienced the least net change in vegetated marsh of the three sites, VCR was the most dynamic with major losses and major gains in vegetated marsh area and PIE experienced the most loss of vegetated marsh area. At VCR, the largest changes occurred in the interior marsh where vegetated marsh was lost to interior mud flat expansion but gained due to migration onto the upland. At PIE, vegetated marsh loss was divided between interior ponding and channel expansion. Below I evaluate each of the mechanisms of vegetated marsh loss and gain.

Open fetch marsh loss was a large driver of vegetated marsh change at both the PIE and VCR study sites while GCE experienced no open fetch marsh loss. These findings are consistent with the AMBUR analysis (Chapter 2). This type of loss is associated with marshes that have large fetches and strong wind energy (McLoughlin et al. 2015).

Extensive open fetch marsh loss was documented at VCR in the AMBUR analysis (Chapter 2) as well as in a study by Erwin et al. (2004), yet it was not evident at the smaller study site chosen for the detailed analysis presented here. The area that had the highest rates of marsh retreat in the AMBUR analysis were not included in this detailed analysis, as high rates of

reflectance on the marsh made interior mud flats and ponds difficult to accurately delineate in that area. The decrease in open fetch marsh loss observed at VCR is likely due to the orientation of the marsh edge analyzed here. Fagherazzi and Wiberg (2009) demonstrate that shorelines at VCR have the highest erosion rates where they are exposed to wind waves from the north and north northeast as these are the strongest winds. The section of marsh analyzed here was more easterly facing than the highly erosional marsh edge highlighted in the AMBUR analysis (Chapter 2). This more easterly facing marsh likely experienced less wind-wave erosion.

Loss of vegetated marsh along Plum Island Sound accounted for 20% of all vegetated marsh loss at PIE. High rates of marsh loss were also noted along the sound in the AMBUR analysis (Chapter 2). Studies suggest that the frequency and intensity of storms in the North Atlantic has increased (Stoker et al. 2013), and a study by Hayden and Hayden (2003) found that the number of storms at PIE increased since 1885. This increase in storminess brings more high energy wind waves to the coast, which likely increased vegetated marsh loss through increased erosion. Marsh loss along the exposed edge is also expected to worsen as SLR increases the depth of adjacent water bodies, allowing for the generation of larger wind-waves.

PIE was the only site to exhibit evidence of a net loss of vegetated marsh due to channel widening, which was again supported by the AMBUR analysis results (Chapter 2). The AMBUR analysis of PIE documented low-level erosion throughout the entire marsh suggesting that the vegetated marsh edge is retreating, albeit very slowly. The sediments eroded through channel widening at PIE may help to maintain vertical accretion rates on the marsh platform, despite low suspended sediment inputs from the river. Although there was no net loss, GCE and VCR were both dynamic with regard to changes in channel morphology, with high rates of both lateral

erosion and accretion in channels. The AMBUR analysis of these sites suggested that they redistributed sediments laterally by way of channel meanders (Chapter 2).

All three sites experienced large changes in their pond and interior mud flat features. A number of physical and biogeochemical processes are attributed to the formation of ponds and interior mud flats. Physical mechanisms include creek blockage from slumping, wrack deposition, and ice rafting. Biogeochemical mechanisms include waterlogging and vegetation stress resulting in organic matter decomposition (Wilson et al. 2014). Once created, ponds and flats can follow one of two paths: (1) they can continue to deepen and expand until they eventually connect with a tidal channel and drain, in which case revegetation occurs or (2) they can enter the "runaway expansion path". Runaway expansion occurs once these features reach a critical minimum width and wave erosion takes over as the main driver of expansion, thus initiating a positive feedback loop of pond or flat expansion (Mariotti and Fagherazzi 2013; Kearney et al. 2002). Whether these features follow the route to revegetation or towards runaway expansion is dependent on the rate of external sediment deposition in relation to relative SLR (Mariotti 2016).

While all three sites experienced changes in interior mud flats and ponds over time, the GCE and PIE features largely followed the first path where they expanded to a point and then drained and revegetated. VCR showed evidence of marsh waterlogging that is likely linked to SLR. The interior mud flats at VCR were low in elevation with respect to the marsh platform, sitting just above MSL. The total interior mud flat area nearly doubled from 1949 to 2013 and this occurred through the expansion of existing, low-lying flats within the vegetated marsh. Two of these flats expanded to the extent that they achieved the critical minimum width for runaway

expansion as modeled by Marriotti and Fagherazzi (2013). This suggests that they are now large enough to expand by wind-wave erosion.

Unlike VCR, the interior mud flat features at the GCE site maintained a constant total area and shifted locations in all three sets of imagery. These interior mud flats occurred across the entire elevation range of the GCE study site. Thus, they are not likely to have been caused by waterlogging of low-lying marsh. Although the interior mud flats were larger and more numerous at lower elevations, there were also some located along the upland boundary. The high marsh at this site area is dominated by *Juncus roemerianus,* which is well known for its wrack-trapping abilities (Pennings and Richards 1998). If left in place on the vegetated platform for long enough, wrack can smother marsh grasses, leaving bares patches that grow back once the wrack is removed by tides or decomposition. Fischer et al. (2000) documented an increase in wrack persistence with increasing elevation in Sapelo Island marshes, supporting the role of wrack rather than waterlogging in GCE interior mud flat formation. The shifting location of interior mud flats from 1942 to 2013 also supports the conclusion that waterlogging is not the main driver of interior mud flat creation at the GCE study site. If waterlogging was the driver, the mudflats would have expanded out from low-lying areas over the course of the study. Instead, over 70 % of the mud flats present in 1942 were colonized by marsh grass in 2013 with new flats forming elsewhere in the marsh.

Another process in salt marshes that can lead to interior mud flat creation is sudden marsh dieback. This occurs when the vegetation turns brown and eventually dies, leaving bare patches in the marsh. The causes of salt marsh dieback are not fully understood and they likely vary between locations. Fungal pathogens, altered soil chemistry, and drought are all potential drivers of sudden marsh dieback (Alber et al. 2008). The time intervals used in this study are too

widely spaced to identify if any of the interior mud flats may have been the result of a sudden marsh dieback event.

Although ponding may be indicative of drowning in many marshes (Downs et al. 1994), in previously ditched marshes such as those at PIE, ponds may actually be reflective of restoration of natural marsh drainage (Adamowicz and Roman 2005; Wilson et al. 2014). Thus, understanding the base conditions of the marsh is critical to determining whether or not ponding is truly a warning sign of degradation (Wilson et al. 2014; Kearney et al. 2002). In this study, PIE experienced high rates of vegetated marsh loss to interior ponding, with the total ponded area tripling over the 70-year study period. Previous work at PIE suggests that these marshes have been accreting vertically at rates equal to SLR; therefore, extensive ponding is not likely a result of waterlogging due to SLR.

I compared these results with a study by Wilson et al. (2014), which measured ponding in a few targeted locations at PIE. Although this study site was larger, these results are consistent with Wilson et al. (2014) when normalized for marsh area. Their study found that ponding peaked in 1994 with a normalized pond area of 0.12 $m^2$ $m^{-2}$ marsh and then decreased to 0.1 $m^2$ $m^{-2}$ in 2008, which was the final year of their study. The 2013 normalized ponded area from this study was also 0.1 $m^2$ $m^{-2}$, which suggests that ponding may have stabilized over the last decade. This suggests that SLR is not likely driving ponding at PIE. SLR would cause continual increases in ponding rather than stabilization from 1994. This is consistent with other studies, which have also noted a relationship between pond formation and drainage restoration in heavily modified New England marshes (Adamowicz and Roman 2005).

Finally, vegetated marshes were assessed for evidence of migration onto the upland. Neither GCE nor PIE experienced significant changes in their upland area over time. However,

the GCE results indicate that marsh migration is possible in some areas, as one small section of upland was converted to vegetated marsh. VCR experienced the greatest amount of marsh migration of the three sites. VCR had the lowest mean slope to upland of the three sites and the lowest range in slope values which makes much of the upland transition conducive to marsh migration onto the upland. The marsh migration onto the upland was so extensive at this site that the total vegetated marsh area increased despite the extensive loss of vegetated marsh to interior mud flat formation. Multiple studies in the Chesapeake (Shieder et al. 2018) and Delaware Bays (Smith 2013) have documented marsh migration onto the upland. These studies also note a trend of migration onto the upland that often exceeds marsh loss due to other sources of erosion. The results of this study are unique in that most (71%) of the marsh migration was at upland vegetated islands contained within the marsh, not at the marsh boundary with the mainland.

I used the historical changes in vegetated marsh extent documented from the 1930s and 40s through the present as well as the environmental characteristics of each site to assess their potential vulnerability to future SLR. The environmental characteristics included suspended sediment concentration, tidal range, upland slope, and rates of relative SLR. These characteristics provide insight into the potential ability of each marsh to adapt to SLR through vertical accretion or horizontal migration. Characteristics like a large tidal range and high suspended sediment concentration are important for vertical accretion, (Ganju et al. 2017) whereas the upland slope dictates the ability of marshes to migrate horizontally (Kirwan et al. 2016). Each marsh varies with respect to these characteristics and therefore has a different potential vulnerability SLR.

Over the 70-year study, the marsh area at the VCR expanded, yet this site is still considered to be the most vulnerable of the sites in the study because of the types of vegetated marsh loss and the environmental characteristics of this site. The major mechanisms of loss in

vegetated marsh observed at the VCR study site were edge retreat along Hog Island Bay and expansion of the low-lying interior mud flats. Low elevation marshes, such as VCR, are more vulnerable to SLR because of their proximity to MSL. Additionally, marshes with low tidal ranges and limited suspended sediments, like the VCR study site, are less able to adjust their vertical elevation. For these reasons, the expansion of interior flats suggests that the VCR may be waterlogging in the marsh interior due to SLR. Currently, the loss of marsh to waterlogging is offset by the marsh expansion onto the upland at the VCR study site. Kirwan et al. (2016) model suggests that by the end of the century the rate of SLR will likely exceed the rate of marsh migration at this site. Because the marsh expansion cannot help to maintain the marsh extent at this site for very long, it is considered the most vulnerable.

PIE has high ponding, and has experienced both open fetch marsh loss and channel loss, which on the surface make this marsh appear highly vulnerable to SLR and the slight channel widening suggests that SLR may be impacting this marsh at the edges. Yet, this marsh also has a high tidal range and it sits at a high elevation, both of which help to buffer this marsh against SLR. This is important at PIE, which has low suspended sediment concentrations and steeper upland slopes which serves to limit increases in vertical elevation and the potential for migration onto the upland. Previous work in New England marshes suggest that vegetation shifts from high marsh species such as *S. patens* to low marsh species such as *S. alterniflora* will be the first indicator of changes in response to increased sea level. This process has been documented in some of the marshes of Cape Cod, MA (Smith 2015) and Long Island, NY (Carey et al. 2017). However, there is currently no evidence in the literature of a similar transition at PIE. Thus far, this marsh appears to be keeping pace with SLR (Wilson et al. 2014), which is again likely due to its high elevation in the tidal frame.

Of the three sites, GCE appeared to be the least vulnerable to SLR, with vegetated marsh losses being offset by gains. According to the Kirwan et al. (2016) model, marshes with a tidal range greater than 1 m and a suspended sediment concentration of more than 30 mg $L^{-1}$ should be able to keep pace vertically with increases in sea level of multiple centimeters per year. GCE meets both of these requirements. It also has the additional benefit of being tucked behind Sapelo and Wolf islands, protecting it from the long fetches associated with high rates of loss along the sounds and bays seen at the other two sites. Finally, GCE has low enough upland slopes in some places to migrate horizontally. Taken together, GCE is therefore likely to be the most resilient of the three marshes.

**3.5 Conclusions**

The marshes at all three LTER sites experienced gains and losses in the vegetated marsh over the last 70 years, but GCE was the only site in which the net change was not significantly different from zero. Despite being highly dynamic, GCE experienced no net change in vegetated marsh area from 1942 to 2013. All sources of marsh loss, open fetch marsh loss, channel erosion, and interior mud flat formation were offset by vegetation colonization elsewhere. GCE did not experience extensive migration of the marsh onto the upland, although the upland slope is generally low and thus conducive to this process. At VCR, the major mechanism of vegetated marsh loss documented in this study was interior mud flat expansion. Interior mud flat expansion was offset by vegetated marsh expansion onto the upland, which ultimately resulted in an increase in total marsh area. Finally, PIE experienced multiple mechanisms of vegetated marsh loss, including of the marsh along Plume Island Sound, channel widening, and ponding, the last of which is likely a result of this marsh returning to its natural drainage state. The PIE marsh had

no major mechanism of marsh gain as the upland slope was too steep for marsh migration in most places.

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## 3.7 Tables and Figures

*Table 3.1. Characteristics of each of the three study sites including the rate of relative sea level rise (rSLR), suspended sediment concentration (SSC), and height above North American Vertical Datum of 1988 (NAVD88).*

| | GCE | VCR | PIE |
|---|---|---|---|
| **Biogeographic Province** | Carolinian | Virginian | Acadian |
| **rSLR mm $y^{-1}$** | 3.24 | 3.64 | 2.82 |
| **Tidal Range** | 2.0 | 1.2 | 2.9 |
| **SSC mg $L^{-1}$** | 25-400 | 3-48 | 3-30 |
| **Height (m) of MSL relative to NAVD88** | - 0.2 | - 0.1 | - 0.1 |
| **Height (m) of MHW relative to NAVD88** | 0.8 | 0.6 | 1.1 |
| **Dominant Marsh Vegetation** | *Spartina alterniflora* | *Spartina alterniflora* | *Spartina patens* |
| **Population Density People $km^{-2}$** | 70 | 25 | 583 |
| **Dominant Land Use** | 60% Forest<br>25% Agriculture | 57% Forest<br>34% Agriculture | 46% Forest<br>38% Urban |

*Table 3.2. Data sources used for the feature analysis. The scale and date are provided for each set of imagery.*

| Site | Date | Type | Scale |
|---|---|---|---|
| **GCE** | Nov 28, 1942 | Black and white | 1:40,000 |
| | Dec 2, 1942 | color aerial photograph | 1:20,000 |
| | Early 2013 | orthomosaic | - |
| **VCR** | Feb 2, 1949 | black and white | 1:20,000 |
| | Oct 20, 1957 | Black and white | 1:20,000 |
| | Spring 2013 | orthomosaic | - |
| **PIE** | Nov 1, 1938 | black and white | 1:25,000 |
| | June 11, 1971 | black and white | 1:20,000 |
| | April 2013 | orthomosaic | - |

*Table 3.3. Digitizing rules established to keep digitizing consistent across study areas and time scales.*

| General Rules |
| --- |
| • Low water imagery was chosen to reduce the impact of tides |
| • Map scale was set to 1:500 to 1:1,500 for digitizing |
| • Where imagery was used in Chapter 2, the same shoreline file was used for the delineation of tidal channels |
| • Features such as ponds and tidal flats had to meet a 10 meter minimum width requirement . |
| • Where possible digitizing was limited to the center of the photo where the least warping occurs. |
| • To ensure that all the features included were permanent, features needed to show up in overlapping aerial images in order to be digitized. |
| • Aerial photographs were excluded from analysis if reflection or damages made them difficult to accurately interpret. |

*Table 3.4. Sources of DEM products used in this study.*

| | Year | Resolution | Vertical Accuracy | Creator | Source |
|---|---|---|---|---|---|
| GCE | 2010 | 10 m | ± 0.18 m | USGS/C. Hladik | Courtesy of C. Hladik/GA LiDAR Consortium |
| VCR | 2015 | 0.76 m | Vegetated: ± 0.12 m<br>Unvegetated: ± 0.18 m | USGS | Courtesy of J. Porter/ NOAA data access viewer |
| PIE | 2005 | 1 m | ± 0.20 m | NCALM / C. Hopkinson and V. Valentine | LTER ID: knb-lter-pie.422.1 |

*Table 3.5. Area of each feature category at each site with the potential error. Error values were assessed as the consistency of the polygon area. These values ranged from 2-5% and were used to calculate the errors provided in the table. The 2013 values in bold indicate when the changes between the earliest and latest dataset were greater than the error term.*

| | Year | Vegetated Marsh | Tidal Channel | Mud Flats | Ponds | Upland |
|---|---|---|---|---|---|---|
| **GCE** | 1942 | 16.45 $km^2$ ± 0.49 $km^2$ | 5.39 $km^2$ ± 0.16 $km^2$ | 0.40 $km^2$ ± 0.01 $km^2$ | - | 2.81 $km^2$ ± 0.1 $km^2$ |
| | 1972 | 16.74 $km^2$ ± 0.45 $km^2$ | 5.21 $km^2$ ± 0.14 $km^2$ | 0.37 $km^2$ ± 0.01 $km^2$ | - | 2.74 $km^2$ ± 0.1 $km^2$ |
| | 2013 | 16.22 $km^2$ ± 0.65 $km^2$ | 5.73 $km^2$ ± 0.24 $km^2$ | 0.40 $km^2$ ± 0.02 $km^2$ | - | 2.72 $km^2$ ± 0.1 $km^2$ |
| | Average Percent of Study Site | 66% | 21% | 1% | - | 11% |
| **VCR** | 1949 | 10.60 $km^2$ ± 0.23 $km^2$ | 2.14 $km^2$ ± 0.05 $km^2$ | 0.60 $km^2$ ± 0.01 $km^2$ | 0.02 $km^2$ | 4.33 $km^2$ ± 0.1 $km^2$ |
| | 1957 | 11.06 $km^2$ ± 0.18 $km^2$ | 1.97 $km^2$ ± 0.03 $km^2$ | 0.72 $km^2$ ± 0.01 $km^2$ | 0.02 $km^2$ | 3.76 $km^2$ ± 0.1 $km^2$ |
| | 2013 | **11.20 $km^2$ ± 0.34 $km^2$** | **1.85 $km^2$ ± 0.06 $km^2$** | **1.08 $km^2$ ± 0.03 $km^2$** | 0.02 $km^2$ | **3.28 $km^2$ ± 0.1 $km^2$** |
| | Average Percent of Study Site | 62% | 11% | 5% | < 1% | 22% |
| **PIE** | 1938 | 11.71 $km^2$ ± 0.46 $km^2$ | 5.34 $km^2$ ± 0.21 $km^2$ | - | 0.33 $km^2$ ± 0.01 $km^2$ | 3.55 $km^2$ ± 0.14 $km^2$ |
| | 1971 | 11.25 $km^2$ ± 0.57 $km^2$ | 5.44 $km^2$ ± 0.28 $km^2$ | - | 0.71 $km^2$ ± 0.04 $km^2$ | 3.53 $km^2$ ± 0.18 $km^2$ |
| | 2013 | **10.55 $km^2$ ± 0.16 $km^2$** | **5.82 $km^2$ ± 0.09 $km^2$** | - | **1.01 $km^2$ ± 0.02 $km^2$** | 3.56 $km^2$ ± 0.05 $km^2$ |
| | Average Percent of Study Site | 53% | 26% | - | 3% | 17% |

*Table 3.6. Changes in vegetated marsh area at the GCE study site as determined by subtraction analysis.*

| **Change** | | **1942 - 1972** | **1972 - 2013** | **1942 - 2013** |
|---|---|---|---|---|
| Vegetated marsh losses | Conversion to interior mud flats | -0.24 $km^2$ | -0.24 $km^2$ | -0.25 $km^2$ |
| | Channel widening and extension | -0.72 $km^2$ | -0.72 $km^2$ | -1.15 $km^2$ |
| | Open fetch marsh loss | -0.01 $km^2$ | -0.04 $km^2$ | -0.03 $km^2$ |
| Vegetated marsh gains | Migration onto upland | +0.18 $km^2$ | +0.08 $km^2$ | +0.17 $km^2$ |
| | Colonization of interior mud flats | +0.28 $km^2$ | +0.21 $km^2$ | +0.28 $km^2$ |
| | Colonization of channel edge | +0.87 $km^2$ | +0.24 $km^2$ | +0.83 $km^2$ |
| | Colonization open fetch marsh | +0.06 $km^2$ | +0.01 $km^2$ | +0.04 $km^2$ |
| **Net change in vegetated marsh** | | **+0.2 $km^2$** | **-0.5 $km^2$** | **-0.3 $km^2$** |

*Table 3.7. Changes in vegetated marsh area at the VCR study site as determined by subtraction analysis.*

| **Change** | | **1949 - 1957** | **1957 - 2013** | **1949 - 2013** |
|---|---|---|---|---|
| Vegetated marsh losses | Conversion to interior mud flats | -0.28 $km^2$ | -0.51 $km^2$ | -0.59 $km^2$ |
| | Channel widening and extension | -0.23 $km^2$ | -0.31 $km^2$ | -0.28 $km^2$ |
| | Open fetch marsh Loss | -0.06 $km^2$ | -0.05 $km^2$ | -0.06 $km^2$ |
| Vegetated Marsh gains | Migration onto upland | +0.65 $km^2$ | +0.54 $km^2$ | +1.05 $km^2$ |
| | Colonization of interior mud flats | +0.16 $km^2$ | +0.17 $km^2$ | +0.13 $km^2$ |
| | Colonization of channel edge | +0.37 $km^2$ | +0.45 $km^2$ | +0.54 $km^2$ |
| | Colonization of open fetch marsh | +0.04 $km^2$ | +0.09 $km^2$ | +0.09 $km^2$ |
| **Net change in vegetated marsh** | | **+0.5 $km^2$** | **+0.1 $km^2$** | **+0.6 $km^2$** |

*Table 3.8. Changes in vegetated marsh area at the PIE study site as determined by subtraction analysis.*

| **Change** | | **1938 - 1971** | **1971 - 2013** | **1938 - 2013** |
|---|---|---|---|---|
| Vegetated Marsh losses | Conversion to ponds | -0.54 $km^2$ | -0.62 $km^2$ | -0.86 $km^2$ |
| | Channel widening and extension | -0.40 $km^2$ | -0.5 $km^2$ | -0.51 $km^2$ |
| | Open fetch marsh loss | -0.02 $km^2$ | -0.08 $km^2$ | -0.09 $km^2$ |
| Vegetated marsh gains | Migration onto upland | +0.29 $km^2$ | +0.21 $km^2$ | +0.20 $km^2$ |
| | Colonization of ponds | +0.19 $km^2$ | +0.31 $km^2$ | +0.19 $km^2$ |
| | Colonization of channel edge | +0.29 $km^2$ | +0.21 $km^2$ | +0.13 $km^2$ |
| | Colonization of open fetch marsh | +0.02 $km^2$ | +0.00 $km^2$ | +0.0 $km^2$ |
| **Net change in vegetated marsh** | | **-0.4 $km^2$** | **-0.8 $km^2$** | **-1.2 $km^2$** |

*Table 3.9. The results of the slope analysis for the 50 meters adjacent to the marsh upland boundary. Slopes greater than 3° are considered to be too steep for marsh migration.*

| | Length of the upland border | Minimum | Maximum | Mean | Standard Deviation | Percentage of pixels below 3° slope. |
|---|---|---|---|---|---|---|
| **GCE** | 26.38 km | 0.01° | 18.50° | 2.24° | 2.20° | 76 |
| **VCR** | 41.71 km | 0.0° | 7.48° | 0.83° | 0.71° | 98 |
| **PIE** | 53.78 km | 0.01° | 22.18° | 4.06° | 3.10° | 46 |

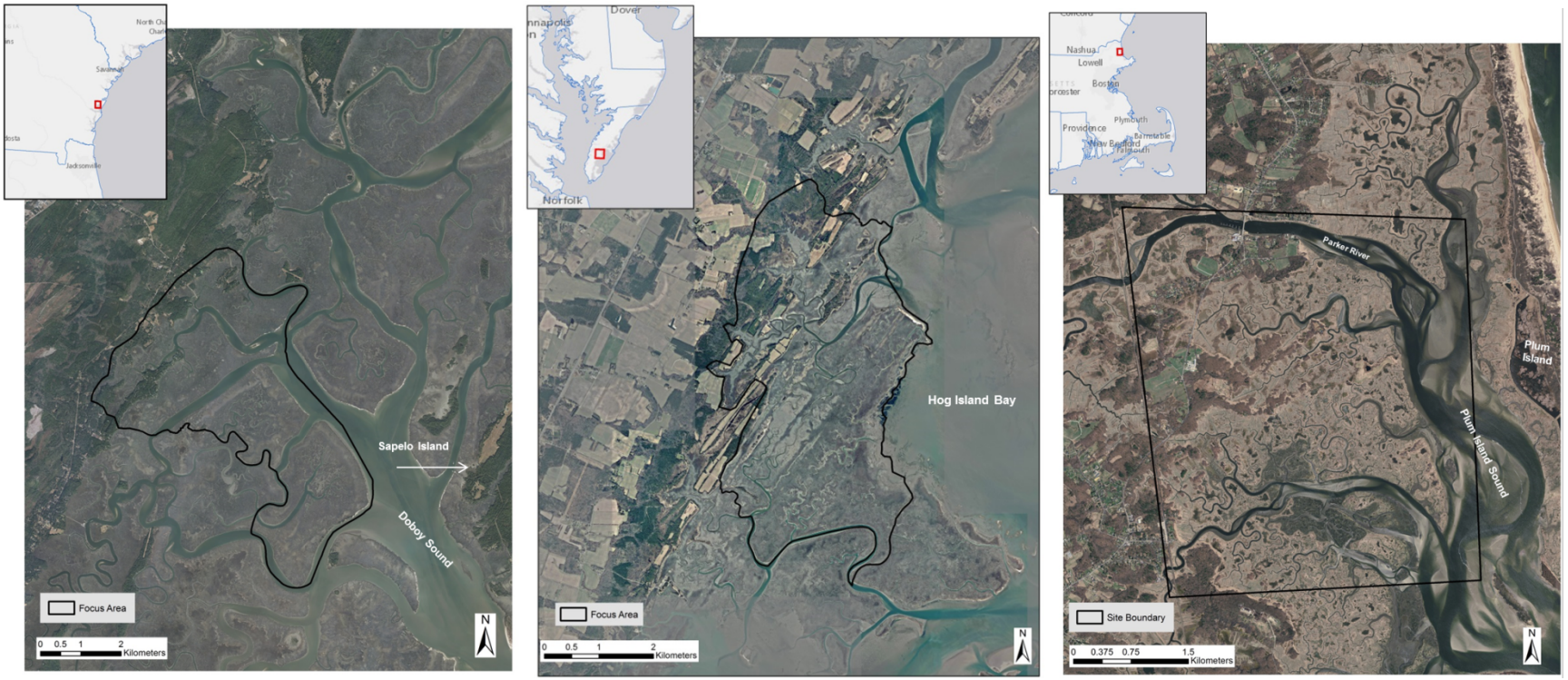



*Figure 3.1. Three LTER study sites from south to north (a) GCE, (b) VCR, (c) PIE with an inset map showing their locations along the coast. The red box on each map indicates the extent of the larger map. The black line delineates the study are for this analysis. The GCE study area is 25 km$^2$. VCR is 18 km$^2$. PIE is 21 km$^2$.*

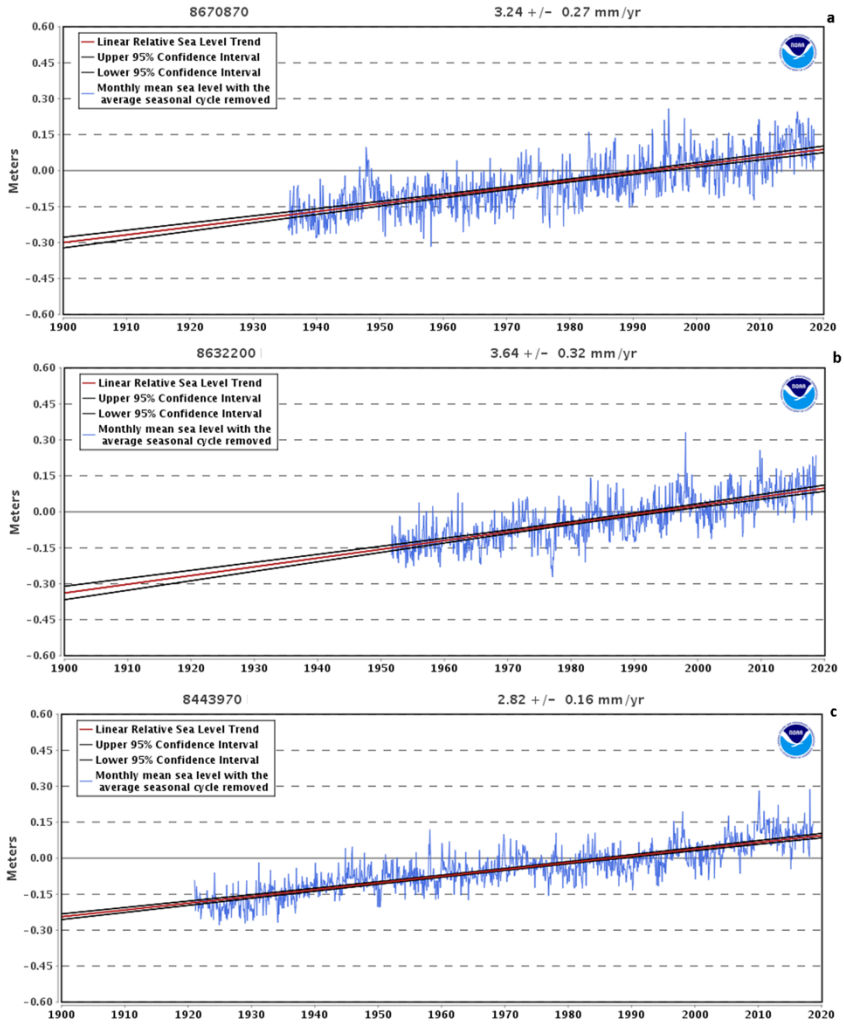



*Figure 2.2 Sea Level Rise graphs for (a) GCE, (b) VCR, and (c) PIE taken from the nearest tide gauge (NOAA Tides and Currents).*

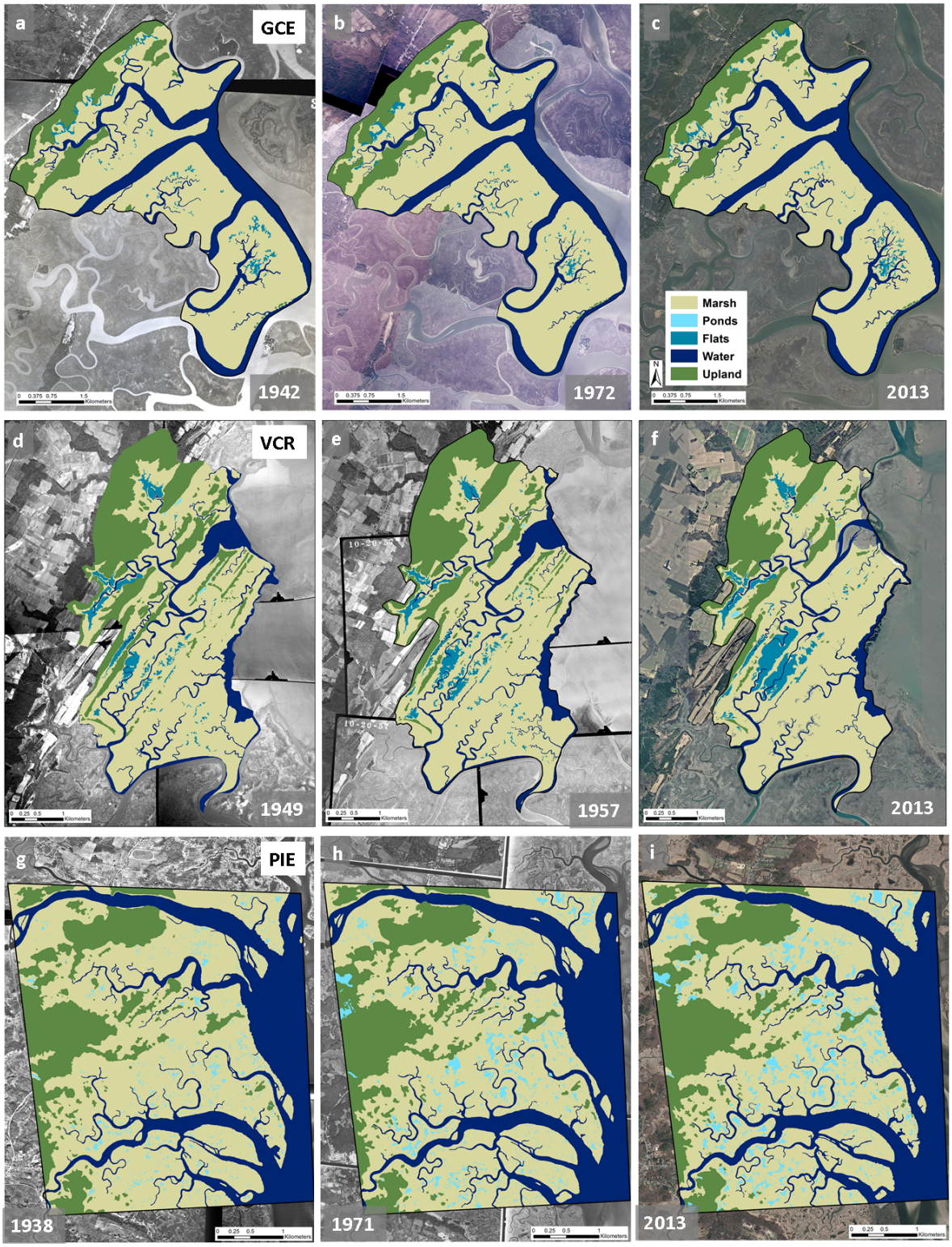



*Figure 3.3. The digitized feature classes at each site. The top row (a-c) is the GCE imagery, the middle row(d-f) is the VCR imagery, and the bottom row (g-i) is the PIE imagery.*

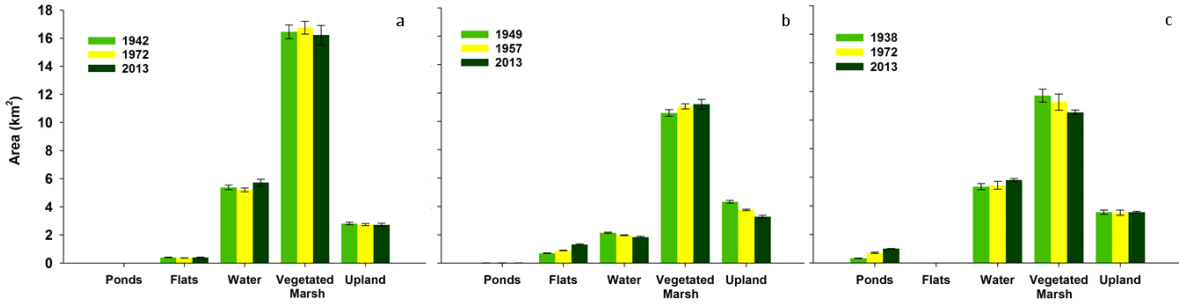



*Figure 3.4 Graph of total area for each feature class at the (a) GCE, (b) VCR, (c) PIE. The error bars are based on the 2-5% error calculated using the methods described in Chapter 2.*

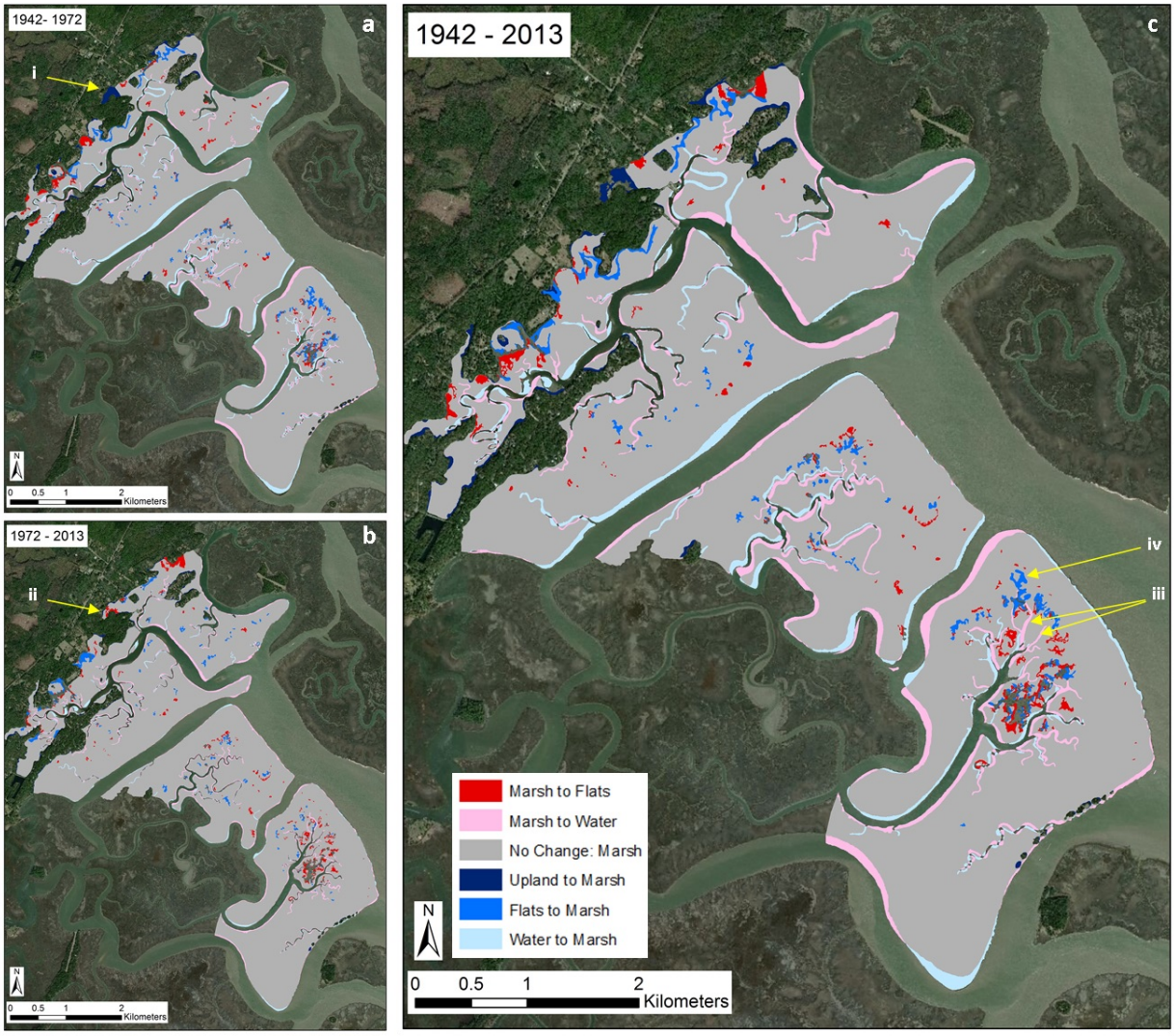



*Figure 3.5. GCE subtraction analysis showing the change in marsh features between (a) 1942 and 1972, (b) 1972 to 2013, and (c) for the entire study period, 1942 to 2013. (i) indicates the location of marsh migration onto the upland from 1942 to 1972 (ii) about a quarter of this new marsh converted to interior mud flats between 1972 and 2013 (iii) shows the location of tidal channels extending deeper into the marsh and (iv) the subsequent retreat of interior mud flats as the channels move deeper. In this figure changes in the "marsh" refers to the vegetated marsh.*

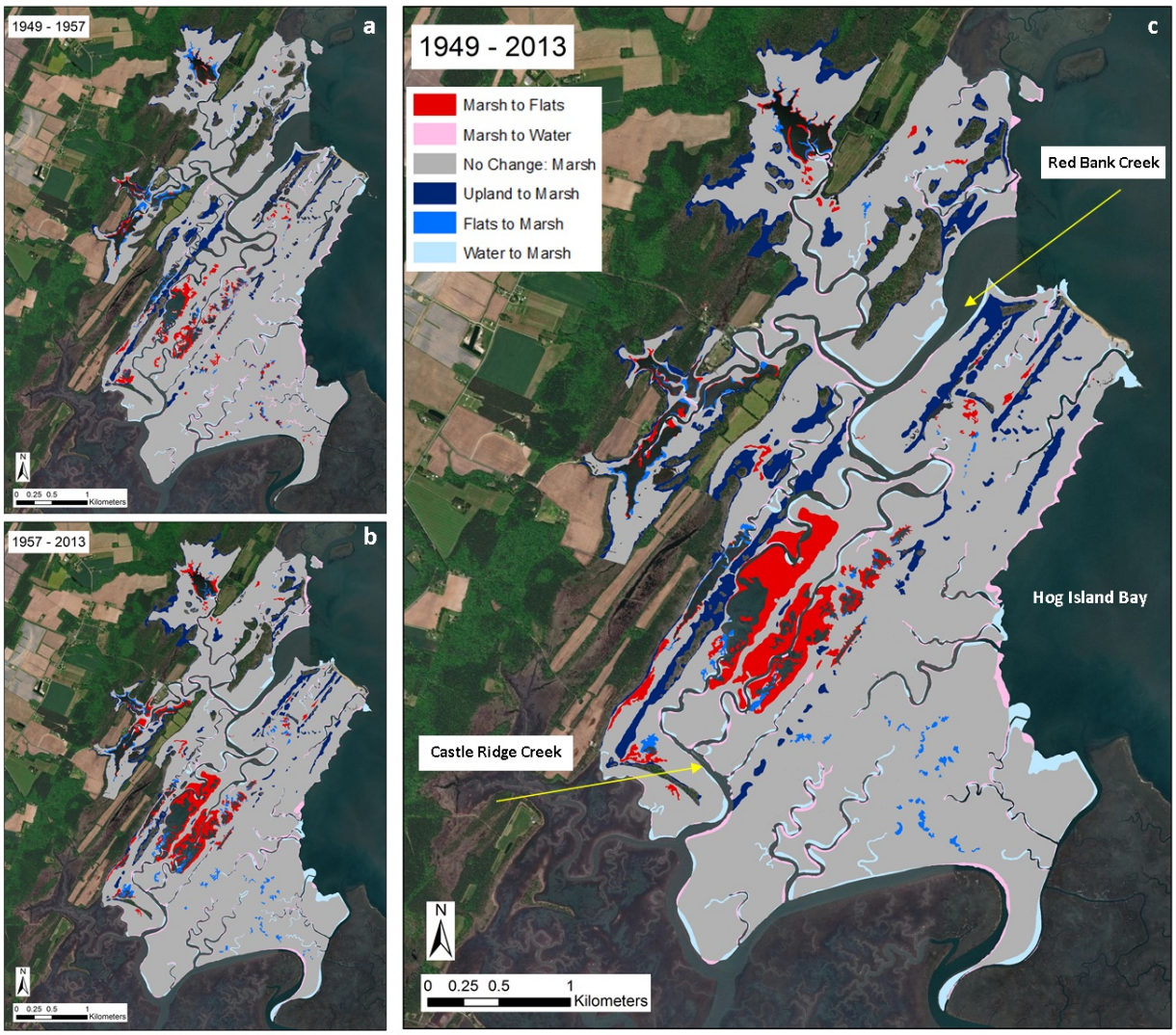



*Figure 3.6. VCR subtraction analysis showing the changes in marsh features between (a) 1949 and 1957, (b) 1957 to 2013, and (c) for the entire study period, 1949 to 2013. In this figure changes in the "marsh" refers to the vegetated marsh.*

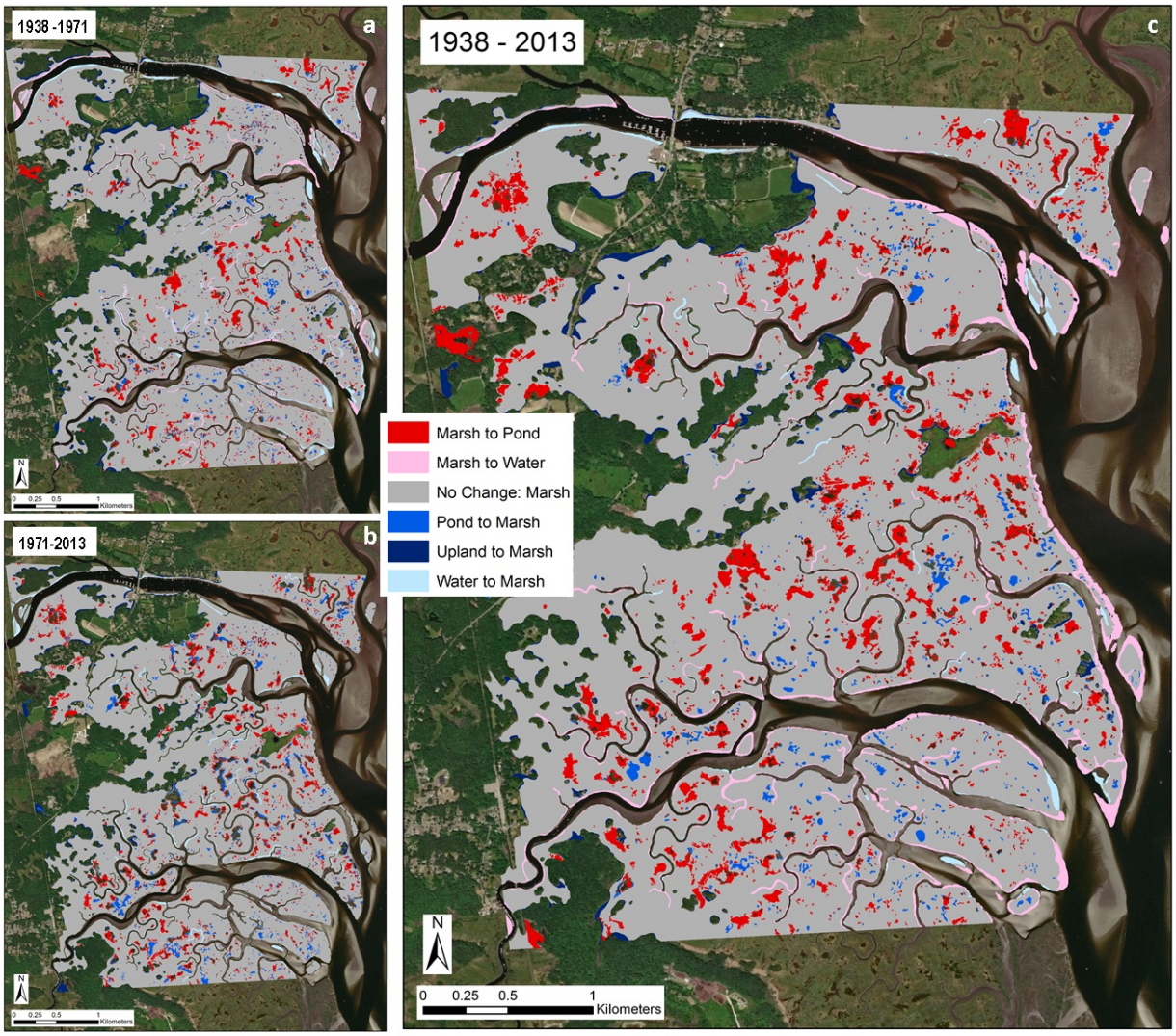



*Figure 3.7. PIE subtraction analysis showing the changes in marsh features between (a) 1938 and 1971, (b) 1971 to 2013, and (c) for the entire study period, 1938 to 2013. In this figure changes in the "marsh" refers to the vegetated marsh.*

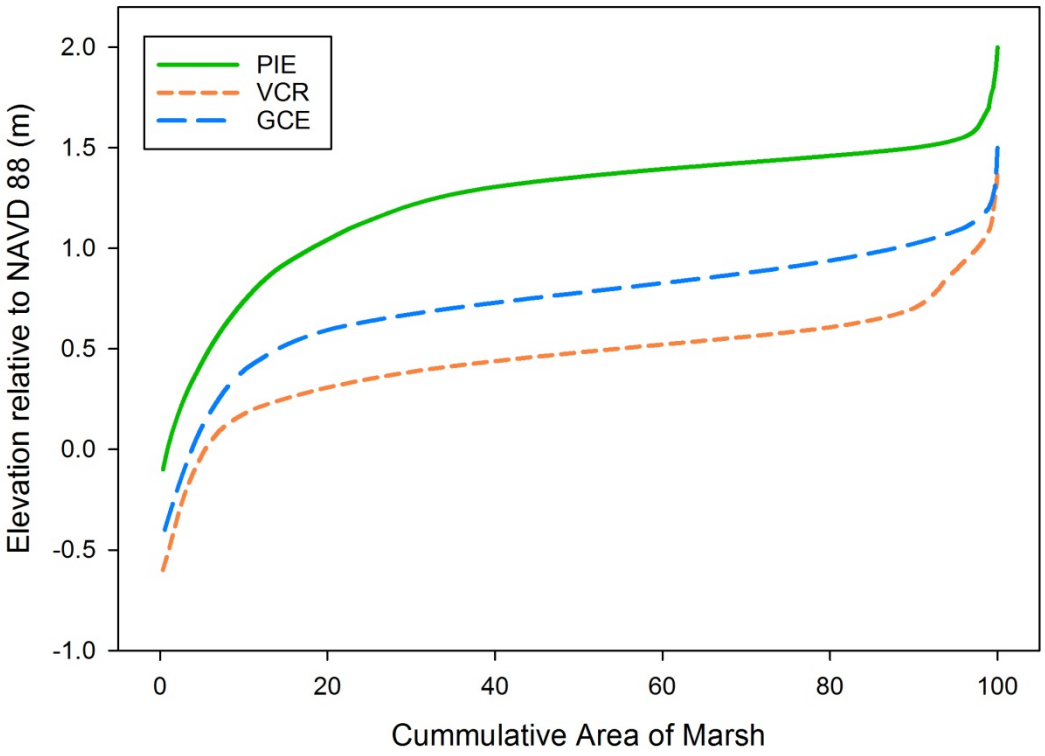



*Figure 3.8. Hypsometric curve of vegetated marsh elevation at GCE, VCR, and PIE study sites.*

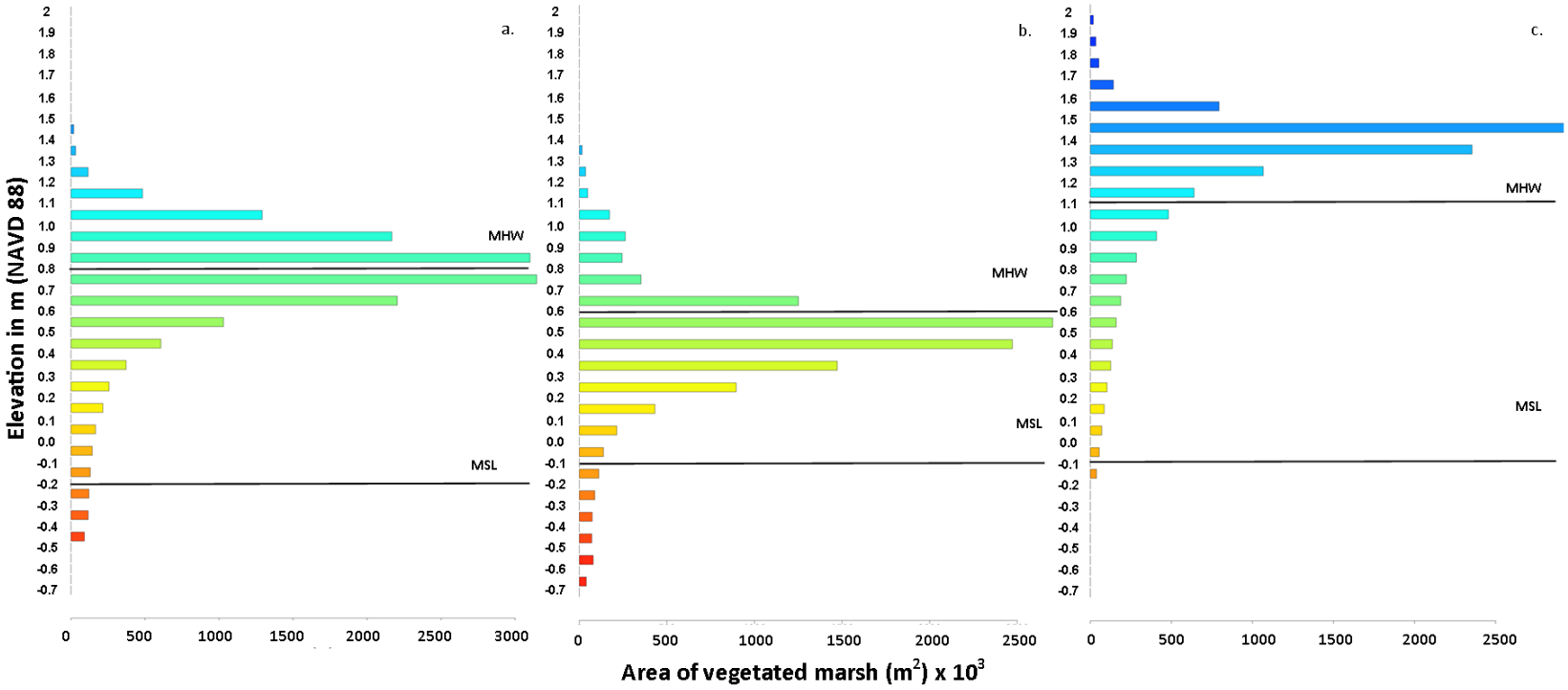



*Figure 3.9. The distribution of vegetated marsh elevation at the (a) GCE, (b) VCR, (c) PIE study sites. Lines have been drawn to represent the elevation of mean high water (MHW) and mean sea level (MSL).*

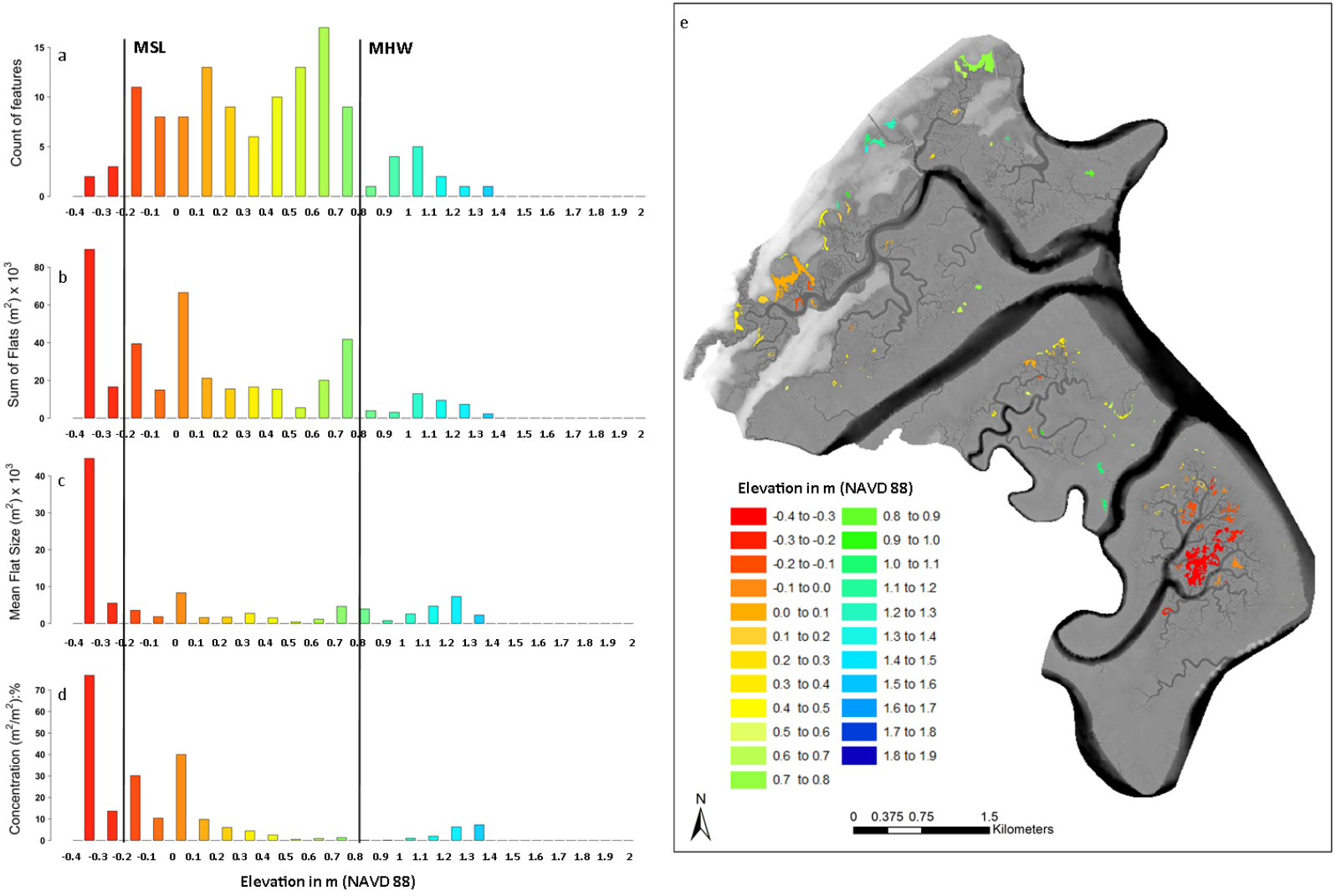



*Figure 3.10. Analysis of interior mud flat features by elevation at the GCE study site. (a) The number of flats per 0.1 m interval, (b) the total interior mud flat area per interval, (c), mean flat size by interval, (d) proportion of flats relative to the vegetated marsh per interval, (e) as well as the location of these flats within the study site.*

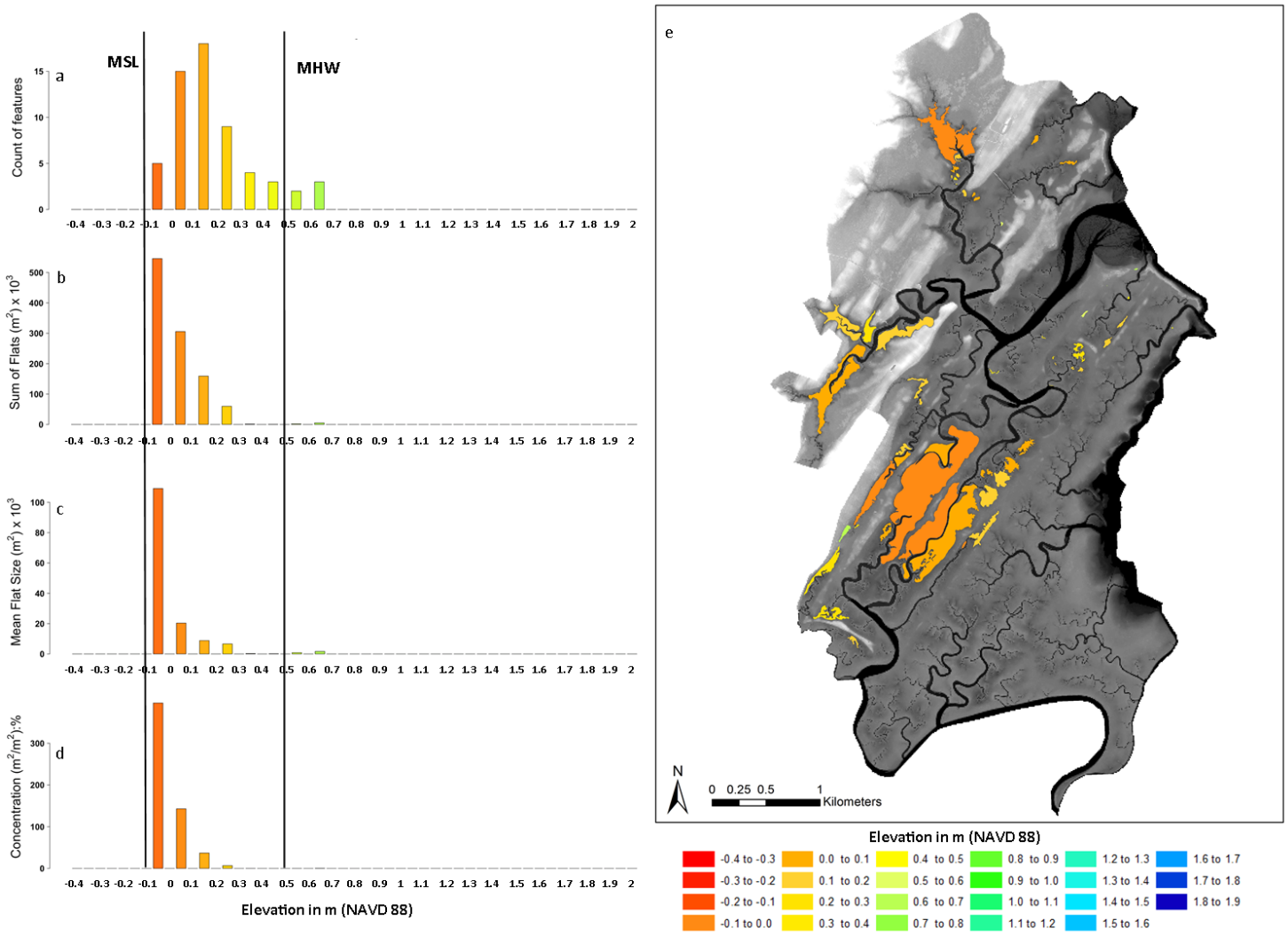



*Figure 3.11. Analysis of interior mud flat features by elevation at the VCR study site. (a) The number of flats per 0.1 m interval, (b) the total interior mud flat area per interval, (c), mean flat size by interval, (d) proportion of flats relative to the vegetated marsh per interval, (e) as well as the location of these flats within the study site.*

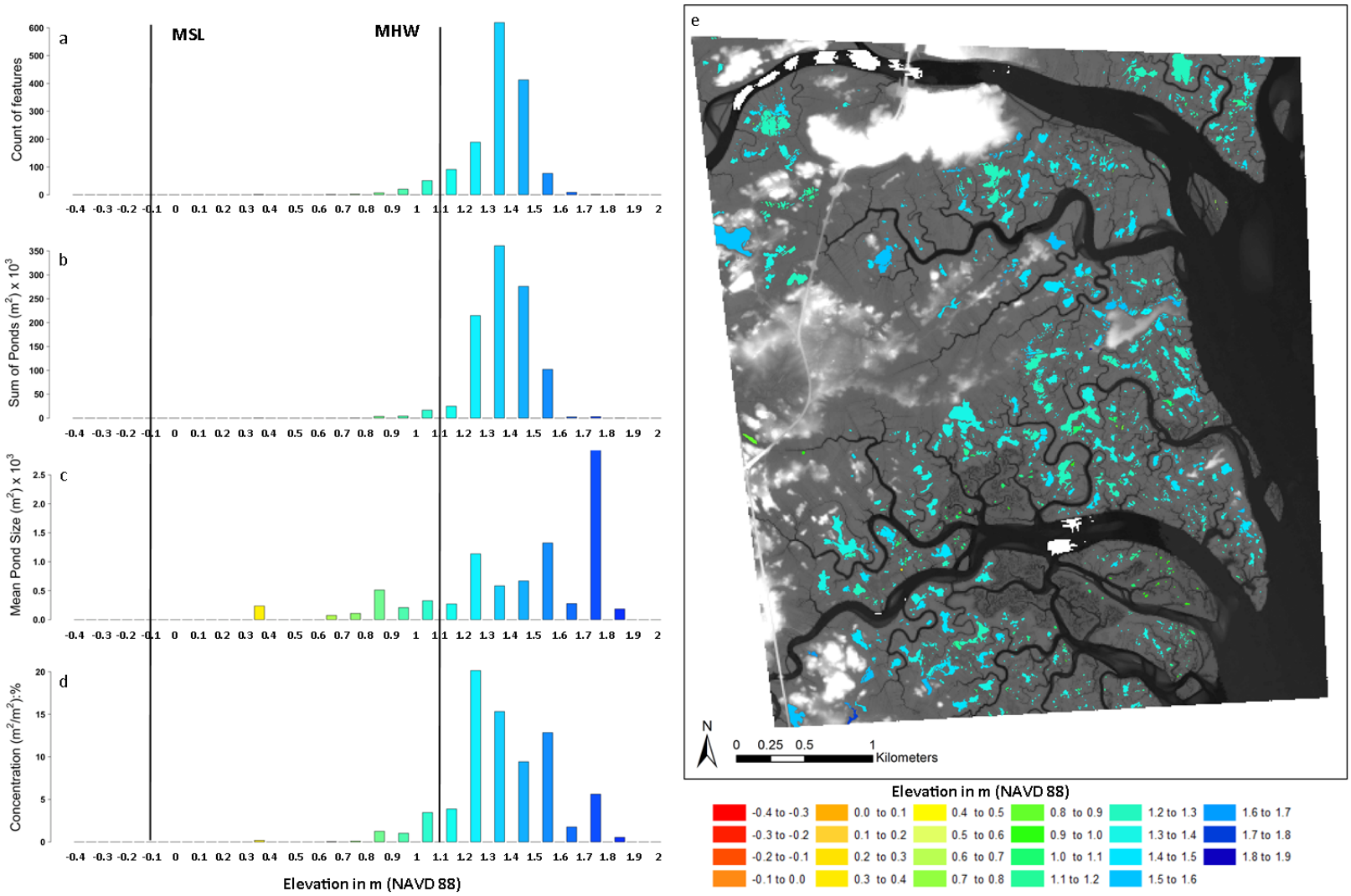



*Figure 3.12. Analysis of pond features by elevation at the PIE study site. (a)The number of ponds per 0.1 m interval, (b) the total ponded area per interval, (c), mean pond size by interval, (d) proportion of ponds relative to the vegetated marsh per interval, (e) as well as the location of these ponds within the study site.*

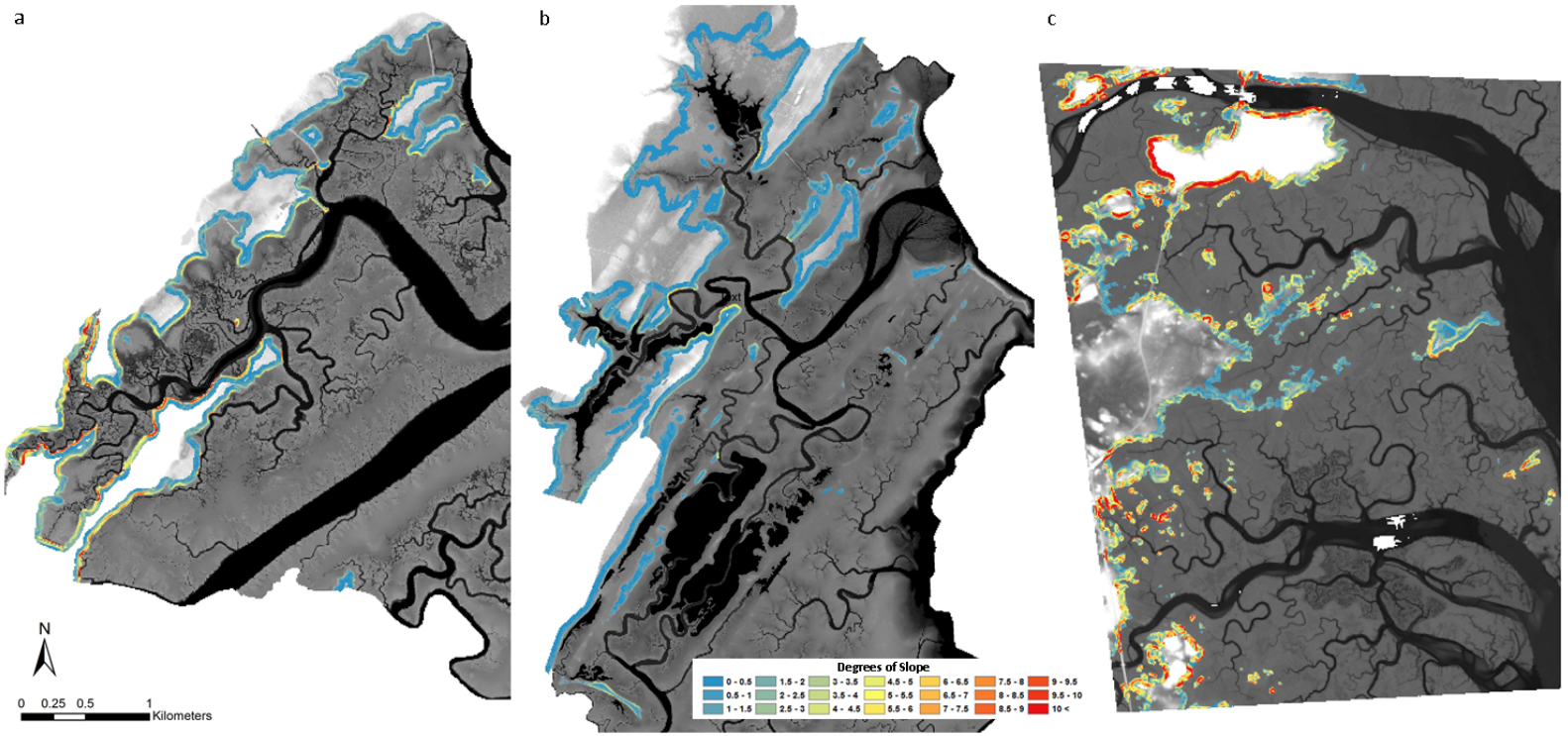



*Figure 3.13. The slope of the upland from the marsh edge to 50 meters back at (a) GCE, (b) VCR (c) PIE.*

# CHAPTER 4

# CONCLUSIONS AND FURTHER RESEARCH

## 4.1 Conclusions

Salt marshes are valuable ecosystems with a long history of human influence and modification. Understanding how these systems have historically changed provides critical insight into the long-term marsh sustainability of these marshes. This cross-site analysis used salt marshes within three sites that are part of the Long Term Ecological Research network: the Georgia Coastal Ecosystems, Virginia Coast Reserve, and Plum Island Ecosystems. These sites represented systems with varying tidal ranges, suspended sediment concentrations, rates of SLR, dominant vegetation, and elevation.

The shoreline analysis in Chapter 2 revealed a dynamic marsh edge both adjacent to the main body of water and within channels of all orders at all sites. The orientation of the marsh relative to the prevailing winds largely dictated erosion along the marsh adjacent to the sound or bay. Because of this, the marshes of GCE did not experience erosion along Doboy sound at the same scale as the open fetch marshes of PIE and VCR. Within the channels, the processes of erosion and accretion were often balanced as the channels meandered through the marsh. Thus, erosion on one creek bank was offset by accretion on the opposite bank. PIE was largely the exception to this, as nearly all channels were eroding, albeit slowly, suggesting that SLR may have had a small effect on channel morphology at this site.

The detailed feature analysis in Chapter 3 revealed three marshes evolving in very different ways. At GCE the detailed analysis confirmed the findings of the shoreline analysis

that, although this marsh experienced erosion and accretion, the vegetated marsh area was conserved. All features at GCE maintained a consistent total area even though their distribution throughout the marsh often changed. Interior mud flats occurred at the full range of elevations, and the slope analysis of the upland transition suggested that this marsh can potentially migrate upslope in the future.

Although erosion and accretion processes were balanced in the shoreline change analysis of VCR, the detailed feature analysis showed extensive expansion of two main interior mud flats into the vegetated marsh. This was likely caused by waterlogging of a low-lying interior section of the marsh due to SLR. These observations are not surprising as this marsh had the lowest elevation with respect to MSL of the three sites. Despite extensive losses in the marsh interior, this marsh expanded up the low relief slope and onto the extensive wooded islands as well as the adjacent upland at rates that exceeded the loss to interior mud flat expansion.

At PIE, the shoreline analysis demonstrated a marsh that experienced very slow loss to SLR via pervasive channel widening. However, the feature analysis showed that this marsh has experienced extensive loss to interior ponding since 1938. These data were normalized by marsh area and compared to a Wilson et al. (2014) study, which suggested that ponding peaked in the 1990s. These data confirm that the rates of ponding increased prior to the 1990s and have decreased since the 1990s. The ponds at PIE were located well above MSL and are likely the result of this marsh returning to its natural drainage state. Thus, this site experienced many changes, some that suggest degradation (channel widening) and others that suggest successful restoration (ponding).

I used the historical trends of each marsh to assess their resiliency in light of future SLR. Given their tidal range, elevation, suspended sediment concentrations, relative rates of SLR, and

the historical trends already exhibited by each marsh, I concluded that GCE was the most resilient of the three sites and VCR was the least. GCE was the only site that exhibited no evidence of marsh degradation due to SLR. This is likely due to its high suspended sediment concentrations and a large tidal range that help maintain its elevation relative to MSL. This site does have regions where the slope is gentle enough for marsh migration onto the upland. VCR and PIE both exhibited losses in the vegetated marsh extent which are likely due to SLR. The VCR experiences the highest rates of relative SLR of the three sites. Since this is also the lowest elevation site, the expansion of interior flats suggests that this marsh may be experiencing SLR-related waterlogging. For these reasons, the VCR was designated as more vulnerable than PIE which sits a very high elevation and has the lowest rates of relative SLR.

Finally, this study demonstrated that it is important to assess the marsh as a whole when measuring marsh change (at the bay or sound adjacent marsh, in channels of varying sizes, and on the marsh platform) as each of these provide different insights into processes modifying the marsh. When studies are limited to isolated channels or only open fetch changes, marshes can appear to be highly erosional when in actually this is balanced by accretion elsewhere.

**4.2 Future Directions**

This study used historical aerial imagery and charts to assess marsh change and conduct a cross-site analysis of three marshes along the US East Coast. This research poses further questions that could be investigated by adding additional time intervals, adding additional marshes, and further assessing the marsh upland boundary for slope and barriers to migration.

The addition of more recent observations would allow us to extend the analyses. It would be particularly interesting to add recent observations to the GCE analysis as it has experienced

two hurricanes since 2013. As hurricanes do not commonly affect Georgia, incorporating additional datasets would provide insight into how this marsh was impacted by these storms.

This study observed that these three marshes sit at very different elevations. The marshes of GCE and VCR tended to be more similar to each other than the PIE marsh. These marshes were lower in elevation that most of the PIE marsh. This poses further questions about what is driving the elevation differences between these marshes and the implication of this for the sustainability of these marshes. It would be informative to study the elevation differences in these marshes as well as add more marshes to the cross-site analysis. Not only could this inform an understanding of why these marshes sit at different elevations, but it would also allow for a more quantitative assessment, such as a correlation analysis, of the relative importance of the other environmental characteristics including suspended sediment and tidal range.

Finally, this study assessed the slope of the upland to determine if it was generally conducive to marsh migration. Further, more detailed, analysis of marsh slope at each of these sites is necessary to assess the marsh migration potential of these marshes. Additionally, slope is not the only factor in determining whether or not a marsh can migrate onto the upland. Previous work suggests that some forest vegetation is resistant to marsh migration even when the slope is gentle. Thus, an assessment of the upland vegetation at these three sites may provide further insight into whether GCE and PIE will be able to migrate onto the low slope uplands.

Historical analysis and cross site analysis are valuable tools for understanding how these ecosystems have changed over time. In this study, I used three long term study sites along the US East Coast, which allowed me to assess long term change in three marshes with differing characteristics. These future directions would help to further distinguish which elements of these marshes are most important for predicting marsh change.

# APPENDIX

## TABLE OF AMBUR TRANSECT DATA FROM CHAPTER 2

The Analyzing Moving Boundaries Using R (AMBUR) package generates transects which it then uses to measure the distance of shoreline movement. This appendix contains the shoreline change results of the AMBUR analysis from Chapter 2. The shoreline change rates for each individual transect are provided in the table. The first column of the table is the site abbreviation for each LTER site: Georgia Coastal Ecosystems (GCE), Virginia Coast Reserve (VCR), and Plum Island ecosystems (PIE). Each transect is given a unique, sequential identification number shown in the second column. These data were all projected into UTM prior to analysis. Therefore, the "Start X" and "Start Y" columns are the UTM northing and eastings for the start of the transect and the "End X" and "End Y" columns are the northing and eastings for the end of the transect. These are followed by the start and end date for the study. The endpoint rate (EPR) and linear regression rate (LRR) are two ways of calculating the movement of the shorelines. EPR uses the total distance traveled and divides it by the time elapsed. This is the most common value found in the literature. The LRR value uses the slope of a linear regression to calculate the shoreline change rate and therefore requires a minimum of three shorelines.

Multiple shorelines were generated for this analysis, yet the EPR only looks at the distance moved between two points. Therefore, multiple EPR values can be calculated. EPR values are provided from the start date to the middle date, from the middle date to the last date, and for the full length of the study. These values are provided along with the error of the EPR

value. For a more detailed analysis of changes at the channel level, each channel was designated with its channel order according to the Strahler method. This channel order number is provided in the last column.

| Site | ID | Start X (easting) | Start Y (northing) | End X (easting) | End Y (northing) | Start Date | End Date | EPR Start to Middle (m $yr^{-1}$) | EPR Middle to End (m $yr^{-1}$) | EPR Start to End (m $yr^{-1}$) | EPR Error (m $yr^{-1}$) | LRR slope | LRR R | Channel Order |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1 | 464216 | 3478551 | 464140 | 3478618 | 1933 | 2013 | 0.16 | 1.59 | 0.89 | 0.08 | 0.90 | 0.82 | 2 |
| GCE | 2 | 464218 | 3478501 | 464104 | 3478573 | 1933 | 2013 | -0.59 | 2.70 | 1.10 | 0.08 | 1.11 | 0.58 | 2 |
| GCE | 3 | 464209 | 3478453 | 464128 | 3478514 | 1933 | 2013 | 0.06 | 1.85 | 0.98 | 0.08 | 0.98 | 0.78 | 2 |
| GCE | 4 | 464168 | 3478427 | 464124 | 3478473 | 1933 | 2013 | 0.19 | 0.82 | 0.51 | 0.08 | 0.52 | 0.89 | 2 |
| GCE | 5 | 464119 | 3478422 | 464111 | 3478452 | 1933 | 2013 | 0.23 | 0.03 | 0.13 | 0.08 | 0.13 | 0.84 | 2 |
| GCE | 6 | 464070 | 3478428 | 464075 | 3478462 | 1933 | 2013 | 0.30 | -0.32 | -0.02 | 0.08 | -0.02 | 0.01 | 2 |
| GCE | 7 | 464026 | 3478451 | 464040 | 3478487 | 1933 | 2013 | 0.18 | -0.44 | -0.13 | 0.08 | -0.14 | 0.36 | 2 |
| GCE | 8 | 463984 | 3478479 | 463998 | 3478511 | 1933 | 2013 | 0.03 | -0.37 | -0.17 | 0.08 | -0.18 | 0.70 | 2 |
| GCE | 9 | 463937 | 3478493 | 463943 | 3478533 | 1933 | 2013 | -0.18 | -0.32 | -0.25 | 0.08 | -0.25 | 0.97 | 2 |
| GCE | 10 | 463888 | 3478502 | 463881 | 3478541 | 1933 | 2013 | -0.17 | -0.31 | -0.24 | 0.08 | -0.24 | 0.97 | 2 |
| GCE | 11 | 463839 | 3478493 | 463826 | 3478522 | 1933 | 2013 | 0.04 | -0.21 | -0.09 | 0.08 | -0.09 | 0.62 | 2 |
| GCE | 12 | 463808 | 3478455 | 463785 | 3478489 | 1933 | 2013 | 0.48 | -0.22 | 0.12 | 0.08 | 0.12 | 0.26 | 2 |
| GCE | 13 | 463792 | 3478408 | 463761 | 3478461 | 1933 | 2013 | 0.75 | 0.23 | 0.48 | 0.08 | 0.48 | 0.91 | 2 |
| GCE | 14 | 463752 | 3478382 | 463736 | 3478440 | 1933 | 2013 | 0.80 | 0.19 | 0.49 | 0.08 | 0.49 | 0.89 | 2 |
| GCE | 15 | 463702 | 3478386 | 463695 | 3478437 | 1933 | 2013 | 0.74 | -0.31 | 0.20 | 0.08 | 0.20 | 0.30 | 2 |
| GCE | 16 | 463661 | 3478414 | 463654 | 3478451 | 1933 | 2013 | 0.02 | -0.26 | -0.12 | 0.08 | -0.13 | 0.72 | 2 |
| GCE | 17 | 463892 | 3478508 | 463904 | 3478443 | 1933 | 2013 | 0.65 | 0.50 | 0.57 | 0.08 | 0.57 | 0.99 | 2 |
| GCE | 18 | 463940 | 3478501 | 463930 | 3478441 | 1933 | 2013 | 0.13 | 0.80 | 0.47 | 0.08 | 0.47 | 0.86 | 2 |
| GCE | 19 | 463978 | 3478469 | 463957 | 3478401 | 1933 | 2013 | -0.50 | 1.19 | 0.37 | 0.08 | 0.37 | 0.37 | 2 |
| GCE | 20 | 464012 | 3478433 | 463993 | 3478380 | 1933 | 2013 | -0.39 | 0.87 | 0.25 | 0.08 | 0.26 | 0.33 | 2 |
| GCE | 21 | 464034 | 3478399 | 464026 | 3478373 | 1933 | 2013 | -0.19 | 0.12 | -0.03 | 0.08 | -0.03 | 0.09 | 2 |
| GCE | 22 | 464082 | 3478388 | 464083 | 3478366 | 1933 | 2013 | 0.05 | 0.00 | 0.03 | 0.08 | 0.03 | 0.78 | 2 |
| GCE | 23 | 464131 | 3478397 | 464139 | 3478374 | 1933 | 2013 | -0.07 | -0.02 | -0.05 | 0.08 | -0.05 | 0.90 | 2 |
| GCE | 24 | 464173 | 3478421 | 464195 | 3478392 | 1933 | 2013 | -0.19 | -0.22 | -0.20 | 0.08 | -0.20 | 1.00 | 2 |
| GCE | 25 | 464197 | 3478465 | 464238 | 3478431 | 1933 | 2013 | -0.37 | -0.42 | -0.40 | 0.08 | -0.40 | 1.00 | 2 |
| GCE | 26 | 464212 | 3478513 | 464256 | 3478481 | 1933 | 2013 | -0.24 | -0.57 | -0.41 | 0.08 | -0.41 | 0.95 | 2 |
| GCE | 27 | 464234 | 3478557 | 464265 | 3478524 | 1933 | 2013 | -0.03 | -0.52 | -0.28 | 0.08 | -0.28 | 0.80 | 2 |
| GCE | 28 | 465154 | 3478938 | 465121 | 3478908 | 1933 | 2013 | 0.44 | 0.18 | 0.30 | 0.08 | 0.30 | 0.94 | 2 |
| GCE | 29 | 465170 | 3478892 | 465136 | 3478875 | 1933 | 2013 | 0.46 | -0.15 | 0.15 | 0.08 | 0.14 | 0.40 | 2 |
| GCE | 30 | 465180 | 3478844 | 465148 | 3478834 | 1933 | 2013 | 0.34 | -0.12 | 0.10 | 0.08 | 0.10 | 0.37 | 2 |
| GCE | 31 | 465190 | 3478795 | 465158 | 3478787 | 1933 | 2013 | 0.33 | -0.19 | 0.06 | 0.08 | 0.06 | 0.14 | 2 |
| GCE | 32 | 465193 | 3478745 | 465169 | 3478738 | 1933 | 2013 | 0.10 | -0.12 | -0.01 | 0.08 | -0.01 | 0.04 | 2 |
| GCE | 33 | 465204 | 3478696 | 465184 | 3478688 | 1933 | 2013 | -0.03 | -0.01 | -0.02 | 0.08 | -0.02 | 0.92 | 2 |
| GCE | 34 | 465235 | 3478658 | 465208 | 3478642 | 1933 | 2013 | 0.02 | 0.24 | 0.14 | 0.08 | 0.14 | 0.82 | 2 |
| GCE | 35 | 465276 | 3478631 | 465206 | 3478578 | 1933 | 2013 | 0.34 | 0.31 | 0.32 | 0.08 | 0.32 | 1.00 | 2 |
| GCE | 36 | 465315 | 3478602 | 465272 | 3478574 | 1933 | 2013 | 0.51 | 0.23 | 0.37 | 0.08 | 0.37 | 0.95 | 2 |
| GCE | 37 | 465340 | 3478562 | 465307 | 3478547 | 1933 | 2013 | 0.29 | 0.11 | 0.20 | 0.08 | 0.20 | 0.94 | 2 |
| GCE | 38 | 465356 | 3478516 | 465292 | 3478510 | 1933 | 2013 | 0.12 | 0.28 | 0.20 | 0.08 | 0.20 | 0.95 | 2 |
| GCE | 39 | 465372 | 3478470 | 465312 | 3478494 | 1933 | 2013 | 0.48 | 0.33 | 0.40 | 0.08 | 0.40 | 0.99 | 2 |
| GCE | 40 | 465373 | 3478423 | 465319 | 3478488 | 1933 | 2013 | 1.37 | -0.18 | 0.58 | 0.08 | 0.57 | 0.62 | 2 |
| GCE | 41 | 465378 | 3478399 | 465407 | 3478387 | 1933 | 2013 | 0.24 | -0.08 | 0.08 | 0.04 | 0.07 | 0.40 | 2 |
| GCE | 42 | 465373 | 3478446 | 465420 | 3478452 | 1933 | 2013 | -0.30 | -0.38 | -0.34 | 0.04 | -0.34 | 0.99 | 2 |
| GCE | 43 | 465366 | 3478494 | 465406 | 3478507 | 1933 | 2013 | 0.11 | -0.54 | -0.22 | 0.04 | -0.23 | 0.59 | 2 |
| GCE | 44 | 465356 | 3478543 | 465386 | 3478561 | 1933 | 2013 | 0.07 | -0.35 | -0.14 | 0.04 | -0.15 | 0.60 | 2 |
| GCE | 45 | 465331 | 3478585 | 465364 | 3478615 | 1933 | 2013 | -0.23 | -0.37 | -0.30 | 0.04 | -0.30 | 0.98 | 2 |
| GCE | 46 | 465287 | 3478608 | 465329 | 3478651 | 1933 | 2013 | -0.54 | -0.46 | -0.50 | 0.04 | -0.50 | 1.00 | 2 |
| GCE | 47 | 465224 | 3478683 | 465250 | 3478703 | 1933 | 2013 | 0.29 | -0.27 | 0.01 | 0.04 | 0.00 | 0.00 | 2 |
| GCE | 48 | 465209 | 3478731 | 465242 | 3478748 | 1933 | 2013 | 0.41 | -0.08 | 0.16 | 0.04 | 0.16 | 0.56 | 2 |
| GCE | 49 | 465202 | 3478780 | 465231 | 3478788 | 1933 | 2013 | 0.25 | -0.15 | 0.04 | 0.04 | 0.04 | 0.12 | 2 |
| GCE | 50 | 465197 | 3478830 | 465223 | 3478836 | 1933 | 2013 | 0.07 | -0.16 | -0.05 | 0.04 | -0.05 | 0.36 | 2 |
| GCE | 51 | 465184 | 3478878 | 465216 | 3478888 | 1933 | 2013 | -0.15 | -0.19 | -0.17 | 0.04 | -0.17 | 0.99 | 2 |
| GCE | 52 | 465160 | 3478921 | 465204 | 3478934 | 1933 | 2013 | -0.22 | -0.41 | -0.32 | 0.04 | -0.32 | 0.97 | 2 |
| GCE | 53 | 465136 | 3478965 | 465174 | 3478989 | 1933 | 2013 | -0.13 | -0.46 | -0.30 | 0.04 | -0.30 | 0.91 | 2 |
| GCE | 54 | 465128 | 3478988 | 465169 | 3478996 | 1933 | 2013 | NA | -0.49 | NA | 0.07 | -0.49 | 0.00 | 2 |
| GCE | 55 | 465156 | 3479038 | 465149 | 3479007 | 1933 | 2013 | 0.05 | 0.23 | 0.14 | 0.08 | 0.14 | 0.88 | 2 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 56 | 465206 | 3479038 | 465203 | 3479004 | 1933 | 2013 | 0.04 | 0.29 | 0.17 | 0.08 | 0.17 | 0.84 | 2 |
| GCE | 57 | 465256 | 3479039 | 465249 | 3478993 | 1933 | 2013 | 0.23 | 0.44 | 0.34 | 0.08 | 0.34 | 0.97 | 2 |
| GCE | 58 | 465306 | 3479039 | 465291 | 3478991 | 1933 | 2013 | 0.25 | 0.49 | 0.37 | 0.08 | 0.37 | 0.97 | 2 |
| GCE | 59 | 465355 | 3479031 | 465328 | 3478983 | 1933 | 2013 | 0.31 | 0.55 | 0.43 | 0.08 | 0.44 | 0.97 | 2 |
| GCE | 60 | 465397 | 3479005 | 465355 | 3478972 | 1933 | 2013 | 0.17 | 0.64 | 0.41 | 0.08 | 0.41 | 0.91 | 2 |
| GCE | 61 | 465405 | 3478957 | 465373 | 3478953 | 1933 | 2013 | -0.27 | 0.27 | 0.01 | 0.08 | 0.01 | 0.00 | 2 |
| GCE | 62 | 465386 | 3478918 | 465342 | 3478909 | 1933 | 2013 | 0.08 | -0.16 | -0.04 | 0.08 | -0.04 | 0.29 | 2 |
| GCE | 63 | 465372 | 3478880 | 465305 | 3478876 | 1933 | 2013 | -0.50 | -0.45 | -0.47 | 0.08 | -0.47 | 1.00 | 2 |
| GCE | 64 | 465418 | 3478863 | 465423 | 3478818 | 1933 | 2013 | 0.32 | 0.23 | 0.27 | 0.08 | 0.27 | 0.99 | 2 |
| GCE | 65 | 465458 | 3478834 | 465434 | 3478807 | 1933 | 2013 | -0.35 | 0.12 | -0.11 | 0.08 | -0.11 | 0.38 | 2 |
| GCE | 66 | 465493 | 3478808 | 465468 | 3478767 | 1933 | 2013 | 0.02 | 0.53 | 0.28 | 0.08 | 0.28 | 0.78 | 2 |
| GCE | 67 | 465543 | 3478806 | 465481 | 3478756 | 1933 | 2013 | 0.54 | 0.73 | 0.63 | 0.08 | 0.64 | 0.99 | 2 |
| GCE | 68 | 465583 | 3478778 | 465549 | 3478762 | 1933 | 2013 | -0.01 | 0.37 | 0.19 | 0.08 | 0.19 | 0.74 | 2 |
| GCE | 69 | 465588 | 3478729 | 465558 | 3478720 | 1933 | 2013 | 0.12 | -0.06 | 0.03 | 0.08 | 0.03 | 0.22 | 2 |
| GCE | 70 | 465573 | 3478682 | 465495 | 3478676 | 1933 | 2013 | -1.38 | 0.14 | -0.60 | 0.08 | -0.60 | 0.65 | 2 |
| GCE | 71 | 465535 | 3478649 | 465500 | 3478659 | 1933 | 2013 | -0.27 | 0.16 | -0.05 | 0.08 | -0.05 | 0.13 | 2 |
| GCE | 72 | 465558 | 3478606 | 465520 | 3478611 | 1933 | 2013 | 0.00 | 0.43 | 0.22 | 0.08 | 0.22 | 0.76 | 2 |
| GCE | 73 | 465539 | 3478561 | 465522 | 3478594 | 1933 | 2013 | -0.24 | -0.14 | -0.19 | 0.08 | -0.19 | 0.98 | 2 |
| GCE | 74 | 465494 | 3478508 | 465511 | 3478529 | 1933 | 2013 | -0.16 | 0.07 | -0.04 | 0.08 | -0.04 | 0.30 | 2 |
| GCE | 75 | 465471 | 3478552 | 465523 | 3478586 | 1933 | 2013 | 0.32 | 0.55 | 0.44 | 0.08 | 0.44 | 0.98 | 2 |
| GCE | 76 | 465488 | 3478594 | 465529 | 3478606 | 1933 | 2013 | -0.04 | -0.03 | -0.04 | 0.08 | -0.04 | 1.00 | 2 |
| GCE | 77 | 465484 | 3478627 | 465528 | 3478623 | 1933 | 2013 | -0.36 | -0.04 | -0.20 | 0.08 | -0.20 | 0.81 | 2 |
| GCE | 78 | 465469 | 3478673 | 465498 | 3478679 | 1933 | 2013 | -0.21 | 0.01 | -0.10 | 0.08 | -0.10 | 0.71 | 2 |
| GCE | 79 | 465481 | 3478719 | 465499 | 3478683 | 1933 | 2013 | 0.05 | 0.33 | 0.19 | 0.08 | 0.19 | 0.85 | 2 |
| GCE | 80 | 465445 | 3478751 | 465493 | 3478786 | 1933 | 2013 | -0.34 | -0.40 | -0.37 | 0.08 | -0.37 | 1.00 | 2 |
| GCE | 81 | 465415 | 3478785 | 465435 | 3478813 | 1933 | 2013 | -0.29 | 0.19 | -0.04 | 0.08 | -0.04 | 0.09 | 2 |
| GCE | 82 | 465366 | 3478796 | 465398 | 3478846 | 1933 | 2013 | -0.81 | -0.19 | -0.49 | 0.08 | -0.49 | 0.88 | 2 |
| GCE | 83 | 465322 | 3478815 | 465369 | 3478852 | 1933 | 2013 | 0.18 | -0.44 | -0.14 | 0.08 | -0.14 | 0.37 | 2 |
| GCE | 84 | 465277 | 3478833 | 465336 | 3478856 | 1933 | 2013 | 0.89 | 0.16 | 0.52 | 0.08 | 0.52 | 0.86 | 2 |
| GCE | 85 | 465273 | 3478880 | 465342 | 3478873 | 1933 | 2013 | 0.82 | 0.36 | 0.58 | 0.08 | 0.58 | 0.95 | 2 |
| GCE | 86 | 465302 | 3478921 | 465364 | 3478916 | 1933 | 2013 | 0.06 | 0.78 | 0.43 | 0.08 | 0.43 | 0.82 | 2 |
| GCE | 87 | 465333 | 3478943 | 465376 | 3478951 | 1933 | 2013 | -0.50 | 0.01 | -0.24 | 0.08 | -0.24 | 0.73 | 2 |
| GCE | 88 | 465288 | 3478963 | 465331 | 3479009 | 1933 | 2013 | -0.78 | -0.22 | -0.49 | 0.08 | -0.49 | 0.90 | 2 |
| GCE | 89 | 465240 | 3478979 | 465249 | 3479013 | 1933 | 2013 | -0.33 | -0.03 | -0.18 | 0.08 | -0.18 | 0.81 | 2 |
| GCE | 90 | 465191 | 3478980 | 465190 | 3479012 | 1933 | 2013 | -0.31 | 0.11 | -0.10 | 0.08 | -0.09 | 0.38 | 2 |
| GCE | 91 | 463551 | 3476963 | 463537 | 3476989 | 1933 | 2013 | 0.05 | -0.23 | -0.10 | 0.08 | -0.10 | 0.59 | 2 |
| GCE | 92 | 463510 | 3476935 | 463492 | 3476960 | 1933 | 2013 | -0.18 | -0.09 | -0.13 | 0.08 | -0.13 | 0.97 | 2 |
| GCE | 93 | 463470 | 3476905 | 463453 | 3476924 | 1933 | 2013 | -0.14 | 0.02 | -0.06 | 0.08 | -0.06 | 0.64 | 2 |
| GCE | 94 | 463434 | 3476871 | 463416 | 3476886 | 1933 | 2013 | -0.09 | 0.08 | 0.00 | 0.08 | 0.00 | 0.00 | 2 |
| GCE | 95 | 463402 | 3476832 | 463385 | 3476844 | 1933 | 2013 | -0.04 | 0.02 | -0.01 | 0.08 | -0.01 | 0.29 | 2 |
| GCE | 96 | 463377 | 3476789 | 463356 | 3476800 | 1933 | 2013 | 0.01 | 0.08 | 0.04 | 0.08 | 0.04 | 0.84 | 2 |
| GCE | 97 | 463358 | 3476743 | 463332 | 3476751 | 1933 | 2013 | -0.03 | 0.18 | 0.08 | 0.08 | 0.08 | 0.62 | 2 |
| GCE | 98 | 463347 | 3476695 | 463317 | 3476697 | 1933 | 2013 | -0.25 | 0.13 | -0.06 | 0.08 | -0.05 | 0.19 | 2 |
| GCE | 99 | 463349 | 3476645 | 463321 | 3476642 | 1933 | 2013 | -0.19 | -0.02 | -0.11 | 0.08 | -0.11 | 0.82 | 2 |
| GCE | 100 | 463375 | 3476604 | 463351 | 3476587 | 1933 | 2013 | -0.02 | NA | NA | 0.17 | -0.02 | 0.00 | 2 |
| GCE | 101 | 463386 | 3476598 | 463351 | 3476587 | 1933 | 2013 | -0.20 | NA | NA | 0.17 | -0.20 | 0.00 | 2 |
| GCE | 102 | 463421 | 3476595 | 463427 | 3476570 | 1933 | 2013 | -0.01 | -0.22 | -0.12 | 0.08 | -0.12 | 0.80 | 2 |
| GCE | 103 | 463470 | 3476603 | 463471 | 3476584 | 1933 | 2013 | 0.15 | -0.07 | 0.04 | 0.08 | 0.04 | 0.23 | 2 |
| GCE | 104 | 463518 | 3476617 | 463520 | 3476590 | 1933 | 2013 | 0.40 | 0.04 | 0.22 | 0.08 | 0.22 | 0.81 | 2 |
| GCE | 105 | 463566 | 3476630 | 463563 | 3476596 | 1933 | 2013 | 0.49 | 0.12 | 0.30 | 0.08 | 0.30 | 0.89 | 2 |
| GCE | 106 | 463616 | 3476635 | 463601 | 3476594 | 1933 | 2013 | 0.50 | 0.33 | 0.42 | 0.08 | 0.42 | 0.99 | 2 |
| GCE | 107 | 463663 | 3476621 | 463633 | 3476589 | 1933 | 2013 | 0.32 | 0.53 | 0.42 | 0.08 | 0.42 | 0.98 | 2 |
| GCE | 108 | 463693 | 3476582 | 463646 | 3476564 | 1933 | 2013 | 0.47 | 0.53 | 0.50 | 0.08 | 0.50 | 1.00 | 2 |
| GCE | 109 | 463686 | 3476534 | 463640 | 3476537 | 1933 | 2013 | 0.33 | 0.53 | 0.43 | 0.08 | 0.43 | 0.98 | 2 |
| GCE | 110 | 463664 | 3476489 | 463625 | 3476506 | 1933 | 2013 | 0.32 | 0.49 | 0.41 | 0.08 | 0.41 | 0.98 | 2 |
| GCE | 111 | 463636 | 3476447 | 463601 | 3476472 | 1933 | 2013 | 0.32 | 0.48 | 0.40 | 0.08 | 0.40 | 0.99 | 2 |
| GCE | 112 | 463601 | 3476411 | 463571 | 3476442 | 1933 | 2013 | 0.43 | 0.39 | 0.41 | 0.08 | 0.41 | 1.00 | 2 |
| GCE | 113 | 463562 | 3476380 | 463531 | 3476403 | 1933 | 2013 | 0.35 | 0.34 | 0.35 | 0.08 | 0.35 | 1.00 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 114 | 463522 | 3476351 | 463481 | 3476362 | 1933 | 2013 | NA | 0.40 | NA | 0.15 | 0.40 | 0.00 | 2 |
| GCE | 115 | 463553 | 3476300 | 463543 | 3476275 | 1933 | 2013 | 0.27 | 0.13 | 0.20 | 0.08 | 0.20 | 0.96 | 2 |
| GCE | 116 | 463597 | 3476283 | 463556 | 3476269 | 1933 | 2013 | 0.34 | 0.46 | 0.40 | 0.08 | 0.40 | 0.99 | 2 |
| GCE | 117 | 463589 | 3476235 | 463558 | 3476236 | 1933 | 2013 | 0.15 | 0.34 | 0.25 | 0.08 | 0.25 | 0.95 | 2 |
| GCE | 118 | 463560 | 3476195 | 463533 | 3476198 | 1933 | 2013 | 0.06 | 0.33 | 0.20 | 0.08 | 0.20 | 0.87 | 2 |
| GCE | 119 | 463522 | 3476162 | 463504 | 3476163 | 1933 | 2013 | 0.04 | 0.11 | 0.08 | 0.08 | 0.08 | 0.94 | 2 |
| GCE | 120 | 463517 | 3476119 | 463498 | 3476108 | 1933 | 2013 | -0.27 | 0.00 | -0.13 | 0.08 | -0.13 | 0.75 | 2 |
| GCE | 121 | 463560 | 3476100 | 463548 | 3476071 | 1933 | 2013 | -0.23 | -0.21 | -0.22 | 0.08 | -0.22 | 1.00 | 2 |
| GCE | 122 | 463608 | 3476110 | 463607 | 3476090 | 1933 | 2013 | 0.13 | -0.24 | -0.06 | 0.08 | -0.06 | 0.22 | 2 |
| GCE | 123 | 463654 | 3476129 | 463656 | 3476102 | 1933 | 2013 | 0.43 | -0.23 | 0.10 | 0.08 | 0.09 | 0.19 | 2 |
| GCE | 124 | 463704 | 3476133 | 463703 | 3476104 | 1933 | 2013 | 0.48 | -0.27 | 0.10 | 0.08 | 0.09 | 0.16 | 2 |
| GCE | 125 | 463741 | 3476126 | 463735 | 3476100 | 1933 | 2013 | 0.43 | -0.09 | 0.17 | 0.08 | 0.16 | 0.54 | 2 |
| GCE | 126 | 463701 | 3476122 | 463703 | 3476150 | 1933 | 2013 | 0.07 | 0.13 | 0.10 | 0.08 | 0.10 | 0.97 | 2 |
| GCE | 127 | 463651 | 3476120 | 463656 | 3476147 | 1933 | 2013 | 0.14 | 0.01 | 0.07 | 0.08 | 0.07 | 0.77 | 2 |
| GCE | 128 | 463606 | 3476099 | 463612 | 3476139 | 1933 | 2013 | 0.25 | 0.16 | 0.21 | 0.08 | 0.21 | 0.98 | 2 |
| GCE | 129 | 463559 | 3476082 | 463582 | 3476128 | 1933 | 2013 | 0.53 | 0.18 | 0.35 | 0.08 | 0.35 | 0.92 | 2 |
| GCE | 130 | 463517 | 3476103 | 463559 | 3476134 | 1933 | 2013 | 0.80 | 0.01 | 0.40 | 0.08 | 0.40 | 0.75 | 2 |
| GCE | 131 | 463513 | 3476152 | 463559 | 3476156 | 1933 | 2013 | 0.55 | -0.14 | 0.20 | 0.08 | 0.20 | 0.49 | 2 |
| GCE | 132 | 463546 | 3476188 | 463585 | 3476184 | 1933 | 2013 | 0.37 | -0.27 | 0.04 | 0.08 | 0.04 | 0.04 | 2 |
| GCE | 133 | 463574 | 3476230 | 463609 | 3476228 | 1933 | 2013 | 0.28 | -0.32 | -0.03 | 0.08 | -0.03 | 0.02 | 2 |
| GCE | 134 | 463581 | 3476276 | 463620 | 3476275 | 1933 | 2013 | 0.02 | -0.43 | -0.21 | 0.08 | -0.21 | 0.73 | 2 |
| GCE | 135 | 463541 | 3476301 | 463614 | 3476296 | 1933 | 2013 | 0.12 | -0.56 | -0.23 | 0.08 | -0.23 | 0.57 | 2 |
| GCE | 136 | 463522 | 3476341 | 463555 | 3476336 | 1933 | 2013 | 0.10 | -0.08 | 0.01 | 0.08 | 0.01 | 0.02 | 2 |
| GCE | 137 | 463556 | 3476377 | 463582 | 3476366 | 1933 | 2013 | -0.06 | -0.07 | -0.07 | 0.08 | -0.07 | 1.00 | 2 |
| GCE | 138 | 463593 | 3476411 | 463618 | 3476391 | 1933 | 2013 | -0.09 | -0.18 | -0.14 | 0.08 | -0.14 | 0.97 | 2 |
| GCE | 139 | 463627 | 3476447 | 463652 | 3476425 | 1933 | 2013 | -0.03 | -0.29 | -0.16 | 0.08 | -0.16 | 0.84 | 2 |
| GCE | 140 | 463655 | 3476488 | 463687 | 3476472 | 1933 | 2013 | -0.02 | -0.35 | -0.19 | 0.08 | -0.19 | 0.80 | 2 |
| GCE | 141 | 463679 | 3476531 | 463716 | 3476527 | 1933 | 2013 | -0.06 | -0.34 | -0.20 | 0.08 | -0.20 | 0.87 | 2 |
| GCE | 142 | 463686 | 3476580 | 463722 | 3476593 | 1933 | 2013 | -0.09 | -0.35 | -0.22 | 0.08 | -0.22 | 0.90 | 2 |
| GCE | 143 | 463660 | 3476621 | 463682 | 3476644 | 1933 | 2013 | 0.00 | -0.27 | -0.14 | 0.08 | -0.14 | 0.76 | 2 |
| GCE | 144 | 463614 | 3476640 | 463624 | 3476666 | 1933 | 2013 | 0.02 | -0.18 | -0.08 | 0.08 | -0.08 | 0.66 | 2 |
| GCE | 145 | 463564 | 3476642 | 463566 | 3476667 | 1933 | 2013 | 0.13 | -0.08 | 0.02 | 0.08 | 0.02 | 0.14 | 2 |
| GCE | 146 | 463516 | 3476629 | 463515 | 3476666 | 1933 | 2013 | 0.31 | 0.11 | 0.21 | 0.08 | 0.21 | 0.93 | 2 |
| GCE | 147 | 463470 | 3476610 | 463472 | 3476653 | 1933 | 2013 | 0.16 | 0.36 | 0.27 | 0.08 | 0.27 | 0.95 | 2 |
| GCE | 148 | 463423 | 3476593 | 463435 | 3476646 | 1933 | 2013 | 0.39 | 0.40 | 0.39 | 0.08 | 0.39 | 1.00 | 2 |
| GCE | 149 | 463375 | 3476595 | 463407 | 3476645 | 1933 | 2013 | 0.62 | 0.34 | 0.48 | 0.08 | 0.48 | 0.97 | 2 |
| GCE | 150 | 463348 | 3476637 | 463388 | 3476661 | 1933 | 2013 | 0.51 | 0.15 | 0.33 | 0.08 | 0.32 | 0.91 | 2 |
| GCE | 151 | 463342 | 3476686 | 463385 | 3476691 | 1933 | 2013 | 0.57 | 0.01 | 0.29 | 0.08 | 0.28 | 0.76 | 2 |
| GCE | 152 | 463355 | 3476735 | 463398 | 3476724 | 1933 | 2013 | 0.62 | -0.10 | 0.25 | 0.08 | 0.25 | 0.59 | 2 |
| GCE | 153 | 463377 | 3476779 | 463418 | 3476761 | 1933 | 2013 | 0.64 | -0.02 | 0.30 | 0.08 | 0.30 | 0.72 | 2 |
| GCE | 154 | 463402 | 3476822 | 463440 | 3476797 | 1933 | 2013 | 0.55 | 0.08 | 0.31 | 0.08 | 0.31 | 0.84 | 2 |
| GCE | 155 | 463433 | 3476862 | 463466 | 3476834 | 1933 | 2013 | 0.52 | 0.07 | 0.29 | 0.08 | 0.29 | 0.83 | 2 |
| GCE | 156 | 463464 | 3476901 | 463496 | 3476868 | 1933 | 2013 | 0.48 | 0.18 | 0.33 | 0.08 | 0.33 | 0.93 | 2 |
| GCE | 157 | 463500 | 3476935 | 463531 | 3476894 | 1933 | 2013 | 0.65 | 0.14 | 0.39 | 0.08 | 0.39 | 0.87 | 2 |
| GCE | 158 | 463541 | 3476963 | 463570 | 3476915 | 1933 | 2013 | 0.65 | 0.25 | 0.44 | 0.08 | 0.44 | 0.94 | 2 |
| GCE | 159 | 463588 | 3476981 | 463611 | 3476936 | 1933 | 2013 | 0.51 | 0.26 | 0.38 | 0.08 | 0.38 | 0.97 | 2 |
| GCE | 160 | 463637 | 3476992 | 463653 | 3476952 | 1933 | 2013 | 0.44 | 0.15 | 0.29 | 0.08 | 0.29 | 0.92 | 2 |
| GCE | 161 | 463684 | 3477006 | 463694 | 3476971 | 1933 | 2013 | 0.39 | 0.03 | 0.21 | 0.08 | 0.20 | 0.80 | 2 |
| GCE | 162 | 462858 | 3475950 | 462885 | 3475944 | 1933 | 2013 | 0.19 | -0.05 | 0.07 | 0.08 | 0.06 | 0.47 | 2 |
| GCE | 163 | 462888 | 3475990 | 462905 | 3475978 | 1933 | 2013 | 0.02 | -0.02 | 0.00 | 0.08 | 0.00 | 0.00 | 2 |
| GCE | 164 | 462919 | 3476029 | 462938 | 3476011 | 1933 | 2013 | -0.08 | -0.06 | -0.07 | 0.08 | -0.07 | 0.99 | 2 |
| GCE | 165 | 462958 | 3476060 | 462971 | 3476038 | 1933 | 2013 | -0.08 | -0.06 | -0.07 | 0.08 | -0.07 | 0.99 | 2 |
| GCE | 166 | 463004 | 3476078 | 463011 | 3476056 | 1933 | 2013 | 0.08 | -0.01 | 0.03 | 0.08 | 0.03 | 0.60 | 2 |
| GCE | 167 | 463052 | 3476088 | 463055 | 3476058 | 1933 | 2013 | 0.14 | 0.10 | 0.12 | 0.08 | 0.12 | 0.99 | 2 |
| GCE | 168 | 463101 | 3476089 | 463097 | 3476056 | 1933 | 2013 | 0.09 | 0.24 | 0.17 | 0.08 | 0.17 | 0.94 | 2 |
| GCE | 169 | 463147 | 3476077 | 463136 | 3476051 | 1933 | 2013 | 0.07 | 0.13 | 0.10 | 0.08 | 0.10 | 0.97 | 2 |
| GCE | 170 | 463194 | 3476061 | 463176 | 3476042 | 1933 | 2013 | 0.03 | -0.12 | -0.05 | 0.08 | -0.05 | 0.54 | 2 |
| GCE | 171 | 463230 | 3476030 | 463203 | 3476013 | 1933 | 2013 | 0.21 | 0.03 | 0.12 | 0.08 | 0.12 | 0.85 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 172 | 463229 | 3475981 | 463193 | 3475960 | 1933 | 2013 | 0.22 | 0.22 | 0.22 | 0.08 | 0.22 | 1.00 | 2 |
| GCE | 173 | 463230 | 3475934 | 463202 | 3475913 | 1933 | 2013 | 0.06 | 0.30 | 0.19 | 0.08 | 0.19 | 0.88 | 2 |
| GCE | 174 | 463261 | 3475903 | 463247 | 3475877 | 1933 | 2013 | -0.22 | 0.05 | -0.08 | 0.08 | -0.08 | 0.51 | 2 |
| GCE | 175 | 463311 | 3475900 | 463306 | 3475866 | 1933 | 2013 | -0.22 | -0.13 | -0.17 | 0.08 | -0.17 | 0.98 | 2 |
| GCE | 176 | 463361 | 3475903 | 463362 | 3475871 | 1933 | 2013 | -0.12 | -0.17 | -0.14 | 0.08 | -0.14 | 0.99 | 2 |
| GCE | 177 | 463411 | 3475904 | 463411 | 3475881 | 1933 | 2013 | 0.06 | -0.01 | 0.02 | 0.08 | 0.02 | 0.52 | 2 |
| GCE | 178 | 463458 | 3475906 | 463453 | 3475880 | 1933 | 2013 | 0.17 | 0.02 | 0.09 | 0.08 | 0.09 | 0.80 | 2 |
| GCE | 179 | 463507 | 3475905 | 463486 | 3475869 | 1933 | 2013 | 0.35 | 0.17 | 0.26 | 0.08 | 0.26 | 0.96 | 2 |
| GCE | 180 | 463550 | 3475883 | 463511 | 3475850 | 1933 | 2013 | 0.27 | 0.51 | 0.39 | 0.08 | 0.39 | 0.97 | 2 |
| GCE | 181 | 463559 | 3475835 | 463525 | 3475822 | 1933 | 2013 | 0.05 | 0.33 | 0.19 | 0.08 | 0.19 | 0.85 | 2 |
| GCE | 182 | 463558 | 3475787 | 463525 | 3475783 | 1933 | 2013 | 0.13 | 0.19 | 0.16 | 0.08 | 0.16 | 0.99 | 2 |
| GCE | 183 | 463557 | 3475738 | 463519 | 3475742 | 1933 | 2013 | 0.23 | 0.20 | 0.21 | 0.08 | 0.21 | 1.00 | 2 |
| GCE | 184 | 463543 | 3475691 | 463516 | 3475699 | 1933 | 2013 | 0.13 | 0.07 | 0.10 | 0.08 | 0.10 | 0.97 | 2 |
| GCE | 185 | 463522 | 3475646 | 463498 | 3475655 | 1933 | 2013 | 0.13 | -0.10 | 0.02 | 0.08 | 0.01 | 0.05 | 2 |
| GCE | 186 | 463498 | 3475602 | 463474 | 3475612 | 1933 | 2013 | 0.15 | -0.07 | 0.04 | 0.08 | 0.04 | 0.26 | 2 |
| GCE | 187 | 463477 | 3475557 | 463447 | 3475576 | 1933 | 2013 | 0.39 | -0.22 | 0.08 | 0.08 | 0.08 | 0.16 | 2 |
| GCE | 188 | 463450 | 3475515 | 463430 | 3475531 | 1933 | 2013 | 0.11 | -0.10 | 0.00 | 0.08 | 0.00 | 0.00 | 2 |
| GCE | 189 | 463435 | 3475468 | 463414 | 3475500 | 1933 | 2013 | -0.20 | -0.13 | -0.16 | 0.08 | -0.16 | 0.99 | 2 |
| GCE | 190 | 463430 | 3475451 | 463410 | 3475498 | 1933 | 2013 | -0.44 | -0.27 | -0.35 | 0.08 | -0.35 | 0.98 | 2 |
| GCE | 191 | 463462 | 3475493 | 463503 | 3475494 | 1933 | 2013 | -0.10 | -0.40 | -0.25 | 0.08 | -0.25 | 0.89 | 2 |
| GCE | 192 | 463476 | 3475540 | 463518 | 3475530 | 1933 | 2013 | -0.22 | -0.34 | -0.28 | 0.08 | -0.28 | 0.99 | 2 |
| GCE | 193 | 463504 | 3475581 | 463535 | 3475568 | 1933 | 2013 | -0.04 | -0.28 | -0.17 | 0.08 | -0.17 | 0.85 | 2 |
| GCE | 194 | 463524 | 3475627 | 463555 | 3475612 | 1933 | 2013 | 0.10 | -0.36 | -0.13 | 0.08 | -0.13 | 0.51 | 2 |
| GCE | 195 | 463546 | 3475671 | 463582 | 3475657 | 1933 | 2013 | 0.01 | -0.44 | -0.22 | 0.08 | -0.22 | 0.75 | 2 |
| GCE | 196 | 463557 | 3475719 | 463604 | 3475705 | 1933 | 2013 | -0.26 | -0.46 | -0.36 | 0.08 | -0.36 | 0.98 | 2 |
| GCE | 197 | 463561 | 3475768 | 463610 | 3475758 | 1933 | 2013 | -0.40 | -0.31 | -0.35 | 0.08 | -0.35 | 0.99 | 2 |
| GCE | 198 | 463561 | 3475818 | 463614 | 3475825 | 1933 | 2013 | -0.39 | -0.43 | -0.41 | 0.08 | -0.41 | 1.00 | 2 |
| GCE | 199 | 463546 | 3475866 | 463600 | 3475904 | 1933 | 2013 | -0.42 | -0.74 | -0.58 | 0.08 | -0.59 | 0.98 | 2 |
| GCE | 200 | 463515 | 3475904 | 463537 | 3475948 | 1933 | 2013 | -0.23 | -0.49 | -0.36 | 0.08 | -0.37 | 0.96 | 2 |
| GCE | 201 | 463470 | 3475925 | 463471 | 3475963 | 1933 | 2013 | -0.03 | -0.40 | -0.22 | 0.08 | -0.22 | 0.82 | 2 |
| GCE | 202 | 463420 | 3475927 | 463415 | 3475955 | 1933 | 2013 | 0.05 | -0.18 | -0.07 | 0.08 | -0.07 | 0.51 | 2 |
| GCE | 203 | 463370 | 3475921 | 463367 | 3475948 | 1933 | 2013 | 0.09 | -0.15 | -0.04 | 0.08 | -0.04 | 0.22 | 2 |
| GCE | 204 | 463321 | 3475915 | 463327 | 3475945 | 1933 | 2013 | 0.27 | -0.14 | 0.06 | 0.08 | 0.05 | 0.18 | 2 |
| GCE | 205 | 463271 | 3475918 | 463293 | 3475947 | 1933 | 2013 | 0.36 | -0.20 | 0.08 | 0.08 | 0.08 | 0.18 | 2 |
| GCE | 206 | 463244 | 3475957 | 463281 | 3475949 | 1933 | 2013 | -0.17 | -0.23 | -0.20 | 0.08 | -0.20 | 0.99 | 2 |
| GCE | 207 | 463256 | 3476005 | 463297 | 3476035 | 1933 | 2013 | -0.28 | -0.40 | -0.34 | 0.08 | -0.34 | 0.99 | 2 |
| GCE | 208 | 463237 | 3476049 | 463269 | 3476070 | 1933 | 2013 | -0.27 | -0.17 | -0.22 | 0.08 | -0.22 | 0.98 | 2 |
| GCE | 209 | 463196 | 3476077 | 463221 | 3476097 | 1933 | 2013 | 0.02 | -0.22 | -0.10 | 0.08 | -0.10 | 0.68 | 2 |
| GCE | 210 | 463148 | 3476090 | 463179 | 3476116 | 1933 | 2013 | 0.29 | -0.48 | -0.10 | 0.08 | -0.11 | 0.19 | 2 |
| GCE | 211 | 466543 | 3477692 | 466514 | 3477721 | 1933 | 2013 | -0.37 | -0.17 | -0.27 | 0.08 | -0.27 | 0.95 | 2 |
| GCE | 212 | 466512 | 3477653 | 466497 | 3477702 | 1933 | 2013 | -0.53 | -0.17 | -0.34 | 0.08 | -0.34 | 0.92 | 2 |
| GCE | 213 | 466466 | 3477644 | 466443 | 3477682 | 1933 | 2013 | 0.46 | -0.04 | 0.21 | 0.08 | 0.20 | 0.67 | 2 |
| GCE | 214 | 466424 | 3477638 | 466404 | 3477668 | 1933 | 2013 | -0.39 | 0.07 | -0.16 | 0.08 | -0.15 | 0.56 | 2 |
| GCE | 215 | 466402 | 3477593 | 466373 | 3477640 | 1933 | 2013 | -0.54 | -0.26 | -0.40 | 0.08 | -0.40 | 0.96 | 2 |
| GCE | 216 | 466375 | 3477551 | 466345 | 3477568 | 1933 | 2013 | -0.06 | -0.28 | -0.17 | 0.08 | -0.18 | 0.88 | 2 |
| GCE | 217 | 466343 | 3477513 | 466304 | 3477509 | 1933 | 2013 | -0.27 | -0.09 | -0.18 | 0.08 | -0.18 | 0.92 | 2 |
| GCE | 218 | 466347 | 3477467 | 466302 | 3477447 | 1933 | 2013 | -0.37 | -0.35 | -0.36 | 0.08 | -0.36 | 1.00 | 2 |
| GCE | 219 | 466379 | 3477429 | 466345 | 3477412 | 1933 | 2013 | -0.03 | -0.24 | -0.14 | 0.08 | -0.14 | 0.85 | 2 |
| GCE | 220 | 466426 | 3477413 | 466394 | 3477395 | 1933 | 2013 | 0.15 | -0.13 | 0.01 | 0.08 | 0.00 | 0.00 | 2 |
| GCE | 221 | 466504 | 3477377 | 466509 | 3477327 | 1933 | 2013 | 0.18 | -0.64 | -0.24 | 0.08 | -0.24 | 0.51 | 2 |
| GCE | 222 | 466547 | 3477353 | 466545 | 3477302 | 1933 | 2013 | -0.28 | -0.35 | -0.32 | 0.08 | -0.32 | 1.00 | 2 |
| GCE | 223 | 466586 | 3477324 | 466582 | 3477287 | 1933 | 2013 | 0.00 | -0.41 | -0.21 | 0.08 | -0.21 | 0.76 | 2 |
| GCE | 224 | 466636 | 3477322 | 466639 | 3477291 | 1933 | 2013 | 0.22 | -0.26 | -0.02 | 0.08 | -0.03 | 0.03 | 2 |
| GCE | 225 | 466680 | 3477344 | 466694 | 3477318 | 1933 | 2013 | 0.00 | -0.22 | -0.11 | 0.08 | -0.11 | 0.76 | 2 |
| GCE | 226 | 466721 | 3477372 | 466740 | 3477354 | 1933 | 2013 | -0.04 | -0.07 | -0.05 | 0.08 | -0.05 | 0.97 | 2 |
| GCE | 227 | 466746 | 3477411 | 466783 | 3477375 | 1933 | 2013 | 0.76 | 0.01 | 0.38 | 0.08 | 0.37 | 0.75 | 2 |
| GCE | 228 | 466760 | 3477459 | 466799 | 3477408 | 1933 | 2013 | 0.83 | 0.04 | 0.43 | 0.08 | 0.42 | 0.78 | 2 |
| GCE | 229 | 466844 | 3477500 | 466893 | 3477441 | 1933 | 2013 | -0.90 | -0.39 | -0.64 | 0.08 | -0.64 | 0.95 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 230 | 466888 | 3477480 | 466914 | 3477453 | 1933 | 2013 | -0.13 | -0.09 | -0.11 | 0.08 | -0.11 | 0.98 | 2 |
| GCE | 231 | 466916 | 3477505 | 466950 | 3477478 | 1933 | 2013 | 0.50 | -0.02 | 0.23 | 0.08 | 0.23 | 0.71 | 2 |
| GCE | 232 | 466908 | 3477553 | 466954 | 3477531 | 1933 | 2013 | 0.69 | -0.04 | 0.32 | 0.08 | 0.31 | 0.69 | 2 |
| GCE | 233 | 466924 | 3477600 | 466958 | 3477578 | 1933 | 2013 | 0.53 | -0.14 | 0.19 | 0.08 | 0.19 | 0.49 | 2 |
| GCE | 234 | 466955 | 3477639 | 466980 | 3477598 | 1933 | 2013 | 0.69 | -0.03 | 0.32 | 0.08 | 0.32 | 0.70 | 2 |
| GCE | 235 | 466999 | 3477656 | 466992 | 3477607 | 1933 | 2013 | 0.49 | -0.30 | 0.09 | 0.08 | 0.09 | 0.12 | 2 |
| GCE | 236 | 467035 | 3477624 | 466991 | 3477611 | 1933 | 2013 | -0.49 | -0.30 | -0.39 | 0.08 | -0.39 | 0.98 | 2 |
| GCE | 237 | 467052 | 3477577 | 467031 | 3477524 | 1933 | 2013 | -0.46 | -0.39 | -0.42 | 0.08 | -0.42 | 1.00 | 2 |
| GCE | 238 | 467088 | 3477548 | 467108 | 3477523 | 1933 | 2013 | 0.07 | -0.28 | -0.11 | 0.08 | -0.11 | 0.53 | 2 |
| GCE | 239 | 467090 | 3477587 | 467141 | 3477560 | 1933 | 2013 | 0.49 | -0.03 | 0.23 | 0.08 | 0.22 | 0.69 | 2 |
| GCE | 240 | 467064 | 3477628 | 467100 | 3477633 | 1933 | 2013 | 0.37 | 0.03 | 0.20 | 0.08 | 0.20 | 0.80 | 2 |
| GCE | 241 | 467076 | 3477675 | 467102 | 3477642 | 1933 | 2013 | 0.51 | -0.28 | 0.11 | 0.08 | 0.10 | 0.17 | 2 |
| GCE | 242 | 467222 | 3477668 | 467238 | 3477695 | 1933 | 2013 | 0.34 | -0.10 | 0.11 | 0.08 | 0.11 | 0.43 | 2 |
| GCE | 243 | 467204 | 3477672 | 467215 | 3477706 | 1933 | 2013 | -0.29 | 0.00 | -0.14 | 0.08 | -0.14 | 0.75 | 2 |
| GCE | 244 | 467170 | 3477650 | 467190 | 3477714 | 1933 | 2013 | -0.54 | -0.88 | -0.71 | 0.08 | -0.71 | 0.98 | 2 |
| GCE | 245 | 467131 | 3477661 | 467133 | 3477712 | 1933 | 2013 | 0.15 | NA | NA | 0.16 | 0.15 | 0.00 | 2 |
| GCE | 246 | 467110 | 3477687 | 467106 | 3477717 | 1933 | 2013 | -0.30 | NA | NA | 0.16 | -0.30 | 0.00 | 2 |
| GCE | 247 | 467080 | 3477647 | 467071 | 3477694 | 1933 | 2013 | -0.75 | -0.13 | -0.43 | 0.08 | -0.43 | 0.86 | 2 |
| GCE | 248 | 467092 | 3477602 | 467058 | 3477688 | 1933 | 2013 | -0.69 | -0.30 | -0.49 | 0.08 | -0.49 | 0.95 | 2 |
| GCE | 249 | 467102 | 3477561 | 467047 | 3477677 | 1933 | 2013 | -2.55 | -0.44 | -1.47 | 0.08 | -1.46 | 0.85 | 2 |
| GCE | 250 | 467058 | 3477550 | 467018 | 3477671 | 1933 | 2013 | 2.61 | -0.09 | 1.23 | 0.08 | 1.22 | 0.71 | 2 |
| GCE | 251 | 467029 | 3477587 | 467014 | 3477671 | 1933 | 2013 | 0.05 | -0.22 | -0.09 | 0.08 | -0.09 | 0.56 | 2 |
| GCE | 252 | 467024 | 3477637 | 467011 | 3477672 | 1933 | 2013 | 0.07 | -0.28 | -0.11 | 0.08 | -0.11 | 0.55 | 2 |
| GCE | 253 | 466984 | 3477642 | 466959 | 3477675 | 1933 | 2013 | -0.48 | -0.30 | -0.39 | 0.08 | -0.39 | 0.98 | 2 |
| GCE | 254 | 466951 | 3477605 | 466913 | 3477628 | 1933 | 2013 | -0.53 | -0.31 | -0.42 | 0.08 | -0.41 | 0.98 | 2 |
| GCE | 255 | 466920 | 3477566 | 466893 | 3477581 | 1933 | 2013 | -0.38 | -0.14 | -0.26 | 0.08 | -0.26 | 0.93 | 2 |
| GCE | 256 | 466922 | 3477517 | 466881 | 3477540 | 1933 | 2013 | -0.46 | -0.42 | -0.44 | 0.08 | -0.44 | 1.00 | 2 |
| GCE | 257 | 466896 | 3477477 | 466877 | 3477509 | 1933 | 2013 | 0.38 | -0.32 | 0.02 | 0.08 | 0.02 | 0.01 | 2 |
| GCE | 258 | 466854 | 3477494 | 466838 | 3477529 | 1933 | 2013 | 0.47 | -0.08 | 0.19 | 0.08 | 0.19 | 0.58 | 2 |
| GCE | 259 | 466812 | 3477513 | 466805 | 3477532 | 1933 | 2013 | -0.10 | -0.14 | -0.12 | 0.08 | -0.12 | 0.99 | 2 |
| GCE | 260 | 466773 | 3477483 | 466754 | 3477514 | 1933 | 2013 | -0.37 | -0.26 | -0.31 | 0.08 | -0.31 | 0.99 | 2 |
| GCE | 261 | 466749 | 3477439 | 466722 | 3477468 | 1933 | 2013 | -0.33 | -0.38 | -0.36 | 0.08 | -0.36 | 1.00 | 2 |
| GCE | 262 | 466728 | 3477395 | 466704 | 3477415 | 1933 | 2013 | -0.20 | -0.30 | -0.25 | 0.08 | -0.25 | 0.99 | 2 |
| GCE | 263 | 466686 | 3477369 | 466679 | 3477380 | 1933 | 2013 | 0.06 | -0.01 | 0.02 | 0.08 | 0.02 | 0.63 | 2 |
| GCE | 264 | 466647 | 3477339 | 466644 | 3477358 | 1933 | 2013 | -0.19 | 0.22 | 0.02 | 0.08 | 0.02 | 0.03 | 2 |
| GCE | 265 | 466598 | 3477333 | 466601 | 3477351 | 1933 | 2013 | 0.08 | 0.11 | 0.10 | 0.08 | 0.10 | 0.99 | 2 |
| GCE | 266 | 466553 | 3477355 | 466564 | 3477384 | 1933 | 2013 | 0.37 | 0.14 | 0.25 | 0.08 | 0.25 | 0.93 | 2 |
| GCE | 267 | 466516 | 3477387 | 466524 | 3477399 | 1933 | 2013 | -0.09 | 0.11 | 0.01 | 0.08 | 0.01 | 0.05 | 2 |
| GCE | 268 | 466470 | 3477401 | 466480 | 3477417 | 1933 | 2013 | 0.14 | -0.18 | -0.03 | 0.08 | -0.03 | 0.08 | 2 |
| GCE | 269 | 466429 | 3477423 | 466442 | 3477441 | 1933 | 2013 | -0.12 | -0.14 | -0.13 | 0.08 | -0.13 | 1.00 | 2 |
| GCE | 270 | 466382 | 3477440 | 466398 | 3477452 | 1933 | 2013 | 0.14 | -0.18 | -0.03 | 0.08 | -0.03 | 0.09 | 2 |
| GCE | 271 | 466339 | 3477464 | 466373 | 3477474 | 1933 | 2013 | 0.62 | 0.02 | 0.31 | 0.08 | 0.31 | 0.76 | 2 |
| GCE | 272 | 466343 | 3477509 | 466369 | 3477509 | 1933 | 2013 | 0.37 | -0.28 | 0.04 | 0.08 | 0.04 | 0.04 | 2 |
| GCE | 273 | 466374 | 3477548 | 466396 | 3477540 | 1933 | 2013 | 0.30 | -0.06 | 0.12 | 0.08 | 0.11 | 0.54 | 2 |
| GCE | 274 | 466389 | 3477594 | 466415 | 3477571 | 1933 | 2013 | 0.51 | 0.10 | 0.30 | 0.08 | 0.30 | 0.86 | 2 |
| GCE | 275 | 466405 | 3477640 | 466425 | 3477607 | 1933 | 2013 | 0.67 | -0.37 | 0.14 | 0.08 | 0.14 | 0.17 | 2 |
| GCE | 276 | 466451 | 3477653 | 466469 | 3477626 | 1933 | 2013 | -0.37 | -0.12 | -0.24 | 0.08 | -0.24 | 0.92 | 2 |
| GCE | 277 | 466494 | 3477652 | 466503 | 3477631 | 1933 | 2013 | 0.31 | -0.24 | 0.03 | 0.08 | 0.03 | 0.03 | 2 |
| GCE | 278 | 466524 | 3477692 | 466531 | 3477650 | 1933 | 2013 | 0.74 | -0.29 | 0.21 | 0.08 | 0.21 | 0.33 | 2 |
| GCE | 279 | 466564 | 3477720 | 466571 | 3477695 | 1933 | 2013 | 0.35 | -0.22 | 0.05 | 0.08 | 0.05 | 0.09 | 2 |
| GCE | 280 | 468334 | 3476165 | 468307 | 3476155 | 1933 | 2013 | 0.03 | -0.22 | -0.10 | 0.08 | -0.10 | 0.67 | 2 |
| GCE | 281 | 468336 | 3476115 | 468314 | 3476108 | 1933 | 2013 | 0.07 | 0.00 | 0.03 | 0.08 | 0.03 | 0.69 | 2 |
| GCE | 282 | 468342 | 3476065 | 468320 | 3476056 | 1933 | 2013 | NA | -0.09 | NA | 0.15 | -0.09 | 0.00 | 2 |
| GCE | 283 | 468363 | 3476020 | 468341 | 3476014 | 1933 | 2013 | 0.04 | -0.03 | 0.01 | 0.08 | 0.01 | 0.06 | 2 |
| GCE | 284 | 468390 | 3475978 | 468358 | 3475971 | 1933 | 2013 | 0.31 | -0.10 | 0.10 | 0.08 | 0.10 | 0.39 | 2 |
| GCE | 285 | 468406 | 3475931 | 468376 | 3475931 | 1933 | 2013 | 0.21 | -0.24 | -0.02 | 0.08 | -0.02 | 0.03 | 2 |
| GCE | 286 | 468395 | 3475981 | 468409 | 3476012 | 1933 | 2013 | 0.15 | -0.20 | -0.03 | 0.11 | -0.03 | 0.08 | 2 |
| GCE | 287 | 468370 | 3476024 | 468394 | 3476041 | 1933 | 2013 | 0.24 | -0.21 | 0.01 | 0.11 | 0.01 | 0.00 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 288 | 468351 | 3476070 | 468377 | 3476081 | 1933 | 2013 | 0.04 | -0.17 | -0.07 | 0.11 | -0.07 | 0.58 | 2 |
| GCE | 289 | 468344 | 3476120 | 468371 | 3476128 | 1933 | 2013 | 0.07 | -0.18 | -0.06 | 0.11 | -0.06 | 0.41 | 2 |
| GCE | 290 | 468337 | 3476169 | 468357 | 3476184 | 1933 | 2013 | 0.09 | -0.11 | -0.01 | 0.11 | -0.01 | 0.05 | 2 |
| GCE | 291 | 468599 | 3476215 | 468624 | 3476212 | 1933 | 2013 | -0.02 | -0.23 | -0.13 | 0.08 | -0.13 | 0.82 | 2 |
| GCE | 292 | 468599 | 3476265 | 468641 | 3476259 | 1933 | 2013 | 0.03 | -0.36 | -0.17 | 0.08 | -0.17 | 0.70 | 2 |
| GCE | 293 | 468601 | 3476255 | 468575 | 3476262 | 1933 | 2013 | -0.04 | -0.13 | -0.08 | 0.11 | -0.09 | 0.90 | 2 |
| GCE | 294 | 468602 | 3476206 | 468574 | 3476217 | 1933 | 2013 | -0.14 | -0.07 | -0.11 | 0.11 | -0.11 | 0.97 | 2 |
| GCE | 295 | 468588 | 3476158 | 468566 | 3476171 | 1933 | 2013 | 0.14 | -0.07 | 0.03 | 0.11 | 0.03 | 0.21 | 2 |
| GCE | 296 | 468905 | 3475747 | 468884 | 3475770 | 1933 | 2013 | 0.00 | -0.27 | -0.13 | 0.08 | -0.13 | 0.75 | 2 |
| GCE | 297 | 468867 | 3475715 | 468845 | 3475734 | 1933 | 2013 | 0.23 | -0.19 | 0.02 | 0.08 | 0.02 | 0.02 | 2 |
| GCE | 298 | 468836 | 3475677 | 468817 | 3475695 | 1933 | 2013 | 0.09 | -0.14 | -0.03 | 0.08 | -0.03 | 0.15 | 2 |
| GCE | 299 | 468823 | 3475628 | 468799 | 3475655 | 1933 | 2013 | 0.06 | -0.30 | -0.13 | 0.08 | -0.13 | 0.61 | 2 |
| GCE | 300 | 468829 | 3475593 | 468866 | 3475613 | 1933 | 2013 | 0.30 | -0.22 | 0.03 | 0.08 | 0.03 | 0.05 | 2 |
| GCE | 301 | 468832 | 3475642 | 468860 | 3475642 | 1933 | 2013 | 0.21 | -0.19 | 0.01 | 0.08 | 0.01 | 0.00 | 2 |
| GCE | 302 | 468846 | 3475689 | 468874 | 3475678 | 1933 | 2013 | 0.04 | -0.21 | -0.09 | 0.08 | -0.09 | 0.62 | 2 |
| GCE | 303 | 468881 | 3475723 | 468901 | 3475709 | 1933 | 2013 | 0.07 | -0.10 | -0.02 | 0.08 | -0.02 | 0.11 | 2 |
| GCE | 304 | 468915 | 3475760 | 468935 | 3475739 | 1933 | 2013 | 0.22 | -0.21 | 0.00 | 0.08 | 0.00 | 0.00 | 2 |
| GCE | 305 | 469040 | 3475503 | 469046 | 3475540 | 1933 | 2013 | 0.11 | -0.17 | -0.03 | 0.08 | -0.03 | 0.14 | 2 |
| GCE | 306 | 468993 | 3475504 | 469004 | 3475550 | 1933 | 2013 | 0.65 | -0.01 | 0.31 | 0.08 | 0.31 | 0.72 | 2 |
| GCE | 307 | 468963 | 3475543 | 468974 | 3475575 | 1933 | 2013 | 0.30 | -0.07 | 0.11 | 0.08 | 0.11 | 0.53 | 2 |
| GCE | 308 | 468923 | 3475571 | 468940 | 3475595 | 1933 | 2013 | 0.07 | -0.23 | -0.08 | 0.08 | -0.08 | 0.47 | 2 |
| GCE | 309 | 468874 | 3475577 | 468905 | 3475611 | 1933 | 2013 | 0.21 | -0.47 | -0.14 | 0.08 | -0.14 | 0.34 | 2 |
| GCE | 310 | 468886 | 3475583 | 468881 | 3475530 | 1933 | 2013 | 0.84 | 0.01 | 0.41 | 0.08 | 0.41 | 0.74 | 2 |
| GCE | 311 | 468935 | 3475575 | 468924 | 3475518 | 1933 | 2013 | 0.34 | -0.01 | 0.16 | 0.08 | 0.16 | 0.71 | 2 |
| GCE | 312 | 468974 | 3475544 | 468970 | 3475497 | 1933 | 2013 | 0.05 | -0.34 | -0.15 | 0.08 | -0.15 | 0.63 | 2 |
| GCE | 313 | 469009 | 3475510 | 469010 | 3475479 | 1933 | 2013 | -0.15 | -0.06 | -0.11 | 0.08 | -0.11 | 0.95 | 2 |
| GCE | 314 | 469053 | 3475515 | 469047 | 3475479 | 1933 | 2013 | 0.26 | -0.07 | 0.09 | 0.08 | 0.09 | 0.48 | 2 |
| GCE | 315 | 469095 | 3475538 | 469091 | 3475516 | 1933 | 2013 | 0.02 | -0.03 | 0.00 | 0.08 | 0.00 | 0.06 | 2 |
| GCE | 316 | 469137 | 3475517 | 469113 | 3475499 | 1933 | 2013 | -0.21 | -0.03 | -0.12 | 0.08 | -0.12 | 0.85 | 2 |
| GCE | 317 | 468915 | 3474606 | 468910 | 3474634 | 1933 | 2013 | -0.06 | -0.09 | -0.07 | 0.08 | -0.07 | 0.99 | 2 |
| GCE | 318 | 468866 | 3474612 | 468859 | 3474637 | 1933 | 2013 | 0.05 | -0.13 | -0.04 | 0.08 | -0.04 | 0.38 | 2 |
| GCE | 319 | 468828 | 3474581 | 468814 | 3474624 | 1933 | 2013 | 0.47 | 0.12 | 0.29 | 0.08 | 0.29 | 0.89 | 2 |
| GCE | 320 | 468800 | 3474542 | 468785 | 3474605 | 1933 | 2013 | 0.62 | 0.43 | 0.52 | 0.08 | 0.52 | 0.99 | 2 |
| GCE | 321 | 468752 | 3474535 | 468750 | 3474575 | 1933 | 2013 | 0.15 | 0.30 | 0.23 | 0.08 | 0.23 | 0.96 | 2 |
| GCE | 322 | 468710 | 3474562 | 468709 | 3474596 | 1933 | 2013 | 0.14 | -0.22 | -0.04 | 0.08 | -0.05 | 0.17 | 2 |
| GCE | 323 | 468669 | 3474589 | 468669 | 3474618 | 1933 | 2013 | -0.01 | -0.16 | -0.09 | 0.08 | -0.09 | 0.81 | 2 |
| GCE | 324 | 468620 | 3474588 | 468619 | 3474615 | 1933 | 2013 | 0.16 | -0.07 | 0.04 | 0.08 | 0.04 | 0.26 | 2 |
| GCE | 325 | 468589 | 3474550 | 468587 | 3474602 | 1933 | 2013 | 0.35 | 0.25 | 0.30 | 0.08 | 0.30 | 0.99 | 2 |
| GCE | 326 | 468547 | 3474533 | 468544 | 3474581 | 1933 | 2013 | 0.65 | 0.03 | 0.33 | 0.08 | 0.33 | 0.77 | 2 |
| GCE | 327 | 468501 | 3474548 | 468489 | 3474601 | 1933 | 2013 | -0.30 | -0.44 | -0.37 | 0.08 | -0.37 | 0.99 | 2 |
| GCE | 328 | 468454 | 3474566 | 468428 | 3474614 | 1933 | 2013 | -0.43 | -0.35 | -0.39 | 0.08 | -0.39 | 1.00 | 2 |
| GCE | 329 | 468406 | 3474560 | 468385 | 3474581 | 1933 | 2013 | -0.23 | 0.02 | -0.10 | 0.08 | -0.10 | 0.67 | 2 |
| GCE | 330 | 468430 | 3474524 | 468373 | 3474547 | 1933 | 2013 | 0.15 | 0.45 | 0.31 | 0.08 | 0.31 | 0.93 | 2 |
| GCE | 331 | 468432 | 3474479 | 468405 | 3474489 | 1933 | 2013 | 0.15 | -0.13 | 0.01 | 0.08 | 0.01 | 0.00 | 2 |
| GCE | 332 | 468424 | 3474433 | 468376 | 3474458 | 1933 | 2013 | 0.64 | 0.19 | 0.41 | 0.08 | 0.41 | 0.91 | 2 |
| GCE | 333 | 468384 | 3474415 | 468344 | 3474453 | 1933 | 2013 | 0.04 | -0.49 | -0.23 | 0.08 | -0.23 | 0.69 | 2 |
| GCE | 334 | 468337 | 3474415 | 468319 | 3474435 | 1933 | 2013 | 0.17 | -0.12 | 0.02 | 0.08 | 0.02 | 0.04 | 2 |
| GCE | 335 | 468305 | 3474378 | 468285 | 3474405 | 1933 | 2013 | 0.30 | -0.01 | 0.14 | 0.08 | 0.14 | 0.72 | 2 |
| GCE | 336 | 468287 | 3474332 | 468262 | 3474378 | 1933 | 2013 | 0.60 | 0.03 | 0.31 | 0.08 | 0.31 | 0.77 | 2 |
| GCE | 337 | 468259 | 3474297 | 468244 | 3474351 | 1933 | 2013 | 0.68 | 0.17 | 0.42 | 0.08 | 0.41 | 0.89 | 2 |
| GCE | 338 | 468215 | 3474317 | 468195 | 3474359 | 1933 | 2013 | -0.35 | 0.04 | -0.15 | 0.08 | -0.15 | 0.64 | 2 |
| GCE | 339 | 468171 | 3474338 | 468146 | 3474380 | 1933 | 2013 | -0.22 | -0.24 | -0.23 | 0.08 | -0.23 | 1.00 | 2 |
| GCE | 340 | 468156 | 3474311 | 468129 | 3474299 | 1933 | 2013 | -0.04 | -0.30 | -0.18 | 0.08 | -0.18 | 0.85 | 2 |
| GCE | 341 | 468173 | 3474270 | 468129 | 3474298 | 1933 | 2013 | 0.44 | 0.08 | 0.26 | 0.08 | 0.26 | 0.86 | 2 |
| GCE | 342 | 468132 | 3474249 | 468109 | 3474263 | 1933 | 2013 | -0.01 | 0.15 | 0.07 | 0.08 | 0.07 | 0.68 | 2 |
| GCE | 343 | 468129 | 3474202 | 468103 | 3474222 | 1933 | 2013 | 0.32 | -0.18 | 0.07 | 0.08 | 0.06 | 0.17 | 2 |
| GCE | 344 | 468090 | 3474191 | 468091 | 3474219 | 1933 | 2013 | 0.23 | -0.15 | 0.03 | 0.08 | 0.03 | 0.08 | 2 |
| GCE | 345 | 468083 | 3474205 | 468080 | 3474180 | 1933 | 2013 | 0.02 | -0.02 | 0.00 | 0.08 | 0.00 | 0.01 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 346 | 468129 | 3474214 | 468146 | 3474196 | 1933 | 2013 | 0.01 | 0.02 | 0.01 | 0.08 | 0.01 | 0.94 | 2 |
| GCE | 347 | 468128 | 3474260 | 468161 | 3474235 | 1933 | 2013 | 0.36 | -0.05 | 0.15 | 0.08 | 0.15 | 0.62 | 2 |
| GCE | 348 | 468161 | 3474279 | 468191 | 3474258 | 1933 | 2013 | -0.27 | 0.14 | -0.06 | 0.08 | -0.06 | 0.19 | 2 |
| GCE | 349 | 468136 | 3474322 | 468167 | 3474319 | 1933 | 2013 | 0.20 | -0.27 | -0.04 | 0.08 | -0.04 | 0.08 | 2 |
| GCE | 350 | 468163 | 3474350 | 468177 | 3474317 | 1933 | 2013 | 0.39 | -0.03 | 0.18 | 0.08 | 0.18 | 0.68 | 2 |
| GCE | 351 | 468208 | 3474330 | 468225 | 3474288 | 1933 | 2013 | 0.00 | 0.22 | 0.11 | 0.08 | 0.11 | 0.74 | 2 |
| GCE | 352 | 468249 | 3474323 | 468262 | 3474278 | 1933 | 2013 | -0.48 | -0.35 | -0.41 | 0.08 | -0.41 | 0.99 | 2 |
| GCE | 353 | 468284 | 3474358 | 468315 | 3474352 | 1933 | 2013 | -0.12 | -0.15 | -0.13 | 0.08 | -0.13 | 1.00 | 2 |
| GCE | 354 | 468311 | 3474400 | 468321 | 3474365 | 1933 | 2013 | -0.22 | -0.08 | -0.15 | 0.08 | -0.15 | 0.93 | 2 |
| GCE | 355 | 468352 | 3474426 | 468376 | 3474393 | 1933 | 2013 | 0.33 | 0.13 | 0.23 | 0.08 | 0.23 | 0.93 | 2 |
| GCE | 356 | 468392 | 3474435 | 468426 | 3474394 | 1933 | 2013 | -0.55 | -0.21 | -0.38 | 0.08 | -0.38 | 0.93 | 2 |
| GCE | 357 | 468422 | 3474474 | 468446 | 3474452 | 1933 | 2013 | -0.16 | -0.02 | -0.09 | 0.08 | -0.09 | 0.83 | 2 |
| GCE | 358 | 468424 | 3474514 | 468462 | 3474481 | 1933 | 2013 | 0.10 | 0.19 | 0.15 | 0.08 | 0.15 | 0.97 | 2 |
| GCE | 359 | 468409 | 3474559 | 468464 | 3474511 | 1933 | 2013 | 0.10 | -0.78 | -0.35 | 0.08 | -0.35 | 0.66 | 2 |
| GCE | 360 | 468436 | 3474594 | 468455 | 3474546 | 1933 | 2013 | 0.44 | 0.25 | 0.34 | 0.08 | 0.34 | 0.98 | 2 |
| GCE | 361 | 468482 | 3474578 | 468496 | 3474525 | 1933 | 2013 | 0.15 | 0.41 | 0.28 | 0.08 | 0.28 | 0.93 | 2 |
| GCE | 362 | 468518 | 3474543 | 468524 | 3474509 | 1933 | 2013 | -0.24 | 0.09 | -0.07 | 0.08 | -0.07 | 0.38 | 2 |
| GCE | 363 | 468563 | 3474554 | 468568 | 3474493 | 1933 | 2013 | -0.31 | -0.67 | -0.49 | 0.08 | -0.49 | 0.96 | 2 |
| GCE | 364 | 468604 | 3474582 | 468608 | 3474529 | 1933 | 2013 | -0.08 | -0.53 | -0.31 | 0.08 | -0.31 | 0.85 | 2 |
| GCE | 365 | 468653 | 3474593 | 468654 | 3474564 | 1933 | 2013 | 0.19 | 0.02 | 0.10 | 0.08 | 0.10 | 0.83 | 2 |
| GCE | 366 | 468697 | 3474574 | 468698 | 3474541 | 1933 | 2013 | -0.15 | 0.17 | 0.01 | 0.08 | 0.01 | 0.02 | 2 |
| GCE | 367 | 468742 | 3474553 | 468742 | 3474512 | 1933 | 2013 | -0.23 | -0.24 | -0.24 | 0.08 | -0.24 | 1.00 | 2 |
| GCE | 368 | 468789 | 3474557 | 468789 | 3474492 | 1933 | 2013 | -0.18 | -0.38 | -0.28 | 0.08 | -0.28 | 0.96 | 2 |
| GCE | 369 | 468825 | 3474592 | 468816 | 3474533 | 1933 | 2013 | -0.31 | -0.32 | -0.31 | 0.08 | -0.31 | 1.00 | 2 |
| GCE | 370 | 468872 | 3474609 | 468862 | 3474574 | 1933 | 2013 | 0.09 | -0.05 | 0.02 | 0.08 | 0.02 | 0.17 | 2 |
| GCE | 371 | 464794 | 3478854 | 464772 | 3478875 | 1933 | 2013 | 0.14 | -0.23 | -0.05 | 0.08 | -0.05 | 0.18 | 3 |
| GCE | 372 | 464750 | 3478832 | 464732 | 3478853 | 1933 | 2013 | 0.18 | -0.04 | 0.07 | 0.08 | 0.06 | 0.50 | 3 |
| GCE | 373 | 464711 | 3478800 | 464693 | 3478825 | 1933 | 2013 | 0.26 | -0.03 | 0.11 | 0.08 | 0.11 | 0.65 | 3 |
| GCE | 374 | 464674 | 3478767 | 464654 | 3478790 | 1933 | 2013 | 0.27 | -0.06 | 0.10 | 0.08 | 0.10 | 0.52 | 3 |
| GCE | 375 | 464641 | 3478730 | 464614 | 3478757 | 1933 | 2013 | 0.47 | -0.06 | 0.20 | 0.08 | 0.19 | 0.62 | 3 |
| GCE | 376 | 464619 | 3478687 | 464582 | 3478721 | 1933 | 2013 | 0.28 | 0.40 | 0.34 | 0.08 | 0.34 | 0.99 | 3 |
| GCE | 377 | 464600 | 3478641 | 464550 | 3478681 | 1933 | 2013 | 0.12 | 0.96 | 0.55 | 0.08 | 0.55 | 0.84 | 3 |
| GCE | 378 | 464573 | 3478599 | 464523 | 3478645 | 1933 | 2013 | -0.08 | 1.17 | 0.56 | 0.08 | 0.56 | 0.71 | 3 |
| GCE | 379 | 464536 | 3478565 | 464501 | 3478618 | 1933 | 2013 | -0.18 | 1.03 | 0.44 | 0.08 | 0.45 | 0.62 | 3 |
| GCE | 380 | 464490 | 3478553 | 464480 | 3478589 | 1933 | 2013 | 0.33 | NA | NA | 0.16 | 0.33 | 0.00 | 3 |
| GCE | 381 | 464443 | 3478540 | 464445 | 3478603 | 1933 | 2013 | -0.08 | NA | NA | 0.16 | -0.08 | 0.00 | 3 |
| GCE | 382 | 464402 | 3478568 | 464415 | 3478625 | 1933 | 2013 | -0.22 | -0.67 | -0.45 | 0.08 | -0.45 | 0.92 | 3 |
| GCE | 383 | 464368 | 3478604 | 464381 | 3478643 | 1933 | 2013 | -0.04 | -0.45 | -0.25 | 0.08 | -0.25 | 0.82 | 3 |
| GCE | 384 | 464324 | 3478628 | 464329 | 3478656 | 1933 | 2013 | 0.17 | -0.22 | -0.03 | 0.08 | -0.03 | 0.06 | 3 |
| GCE | 385 | 464275 | 3478631 | 464272 | 3478669 | 1933 | 2013 | 0.45 | -0.21 | 0.11 | 0.08 | 0.11 | 0.26 | 3 |
| GCE | 386 | 464226 | 3478639 | 464219 | 3478663 | 1933 | 2013 | 0.08 | 0.03 | 0.05 | 0.08 | 0.05 | 0.91 | 3 |
| GCE | 387 | 464209 | 3478598 | 464180 | 3478645 | 1933 | 2013 | NA | 0.55 | NA | 0.15 | 0.55 | 0.00 | 3 |
| GCE | 388 | 464271 | 3478590 | 464279 | 3478561 | 1933 | 2013 | 0.07 | -0.12 | -0.03 | 0.08 | -0.03 | 0.20 | 3 |
| GCE | 389 | 464318 | 3478603 | 464293 | 3478519 | 1933 | 2013 | -0.73 | 1.51 | 0.42 | 0.08 | 0.42 | 0.30 | 3 |
| GCE | 390 | 464367 | 3478594 | 464305 | 3478503 | 1933 | 2013 | -0.14 | 2.18 | 1.04 | 0.08 | 1.05 | 0.71 | 3 |
| GCE | 391 | 464402 | 3478559 | 464322 | 3478484 | 1933 | 2013 | -0.05 | 2.18 | 1.09 | 0.08 | 1.10 | 0.75 | 3 |
| GCE | 392 | 464398 | 3478513 | 464357 | 3478458 | 1933 | 2013 | -0.04 | 0.20 | 0.09 | 0.08 | 0.09 | 0.61 | 3 |
| GCE | 393 | 464378 | 3478475 | 464368 | 3478446 | 1933 | 2013 | 0.12 | 0.09 | 0.11 | 0.08 | 0.11 | 1.00 | 3 |
| GCE | 394 | 464424 | 3478462 | 464422 | 3478440 | 1933 | 2013 | 0.05 | -0.01 | 0.02 | 0.08 | 0.02 | 0.48 | 3 |
| GCE | 395 | 464467 | 3478487 | 464473 | 3478447 | 1933 | 2013 | -0.07 | 0.50 | 0.22 | 0.08 | 0.22 | 0.66 | 3 |
| GCE | 396 | 464515 | 3478498 | 464531 | 3478470 | 1933 | 2013 | -0.18 | 0.29 | 0.06 | 0.08 | 0.06 | 0.19 | 3 |
| GCE | 397 | 464551 | 3478530 | 464574 | 3478501 | 1933 | 2013 | -0.24 | -0.18 | -0.21 | 0.08 | -0.21 | 0.99 | 3 |
| GCE | 398 | 464583 | 3478569 | 464610 | 3478543 | 1933 | 2013 | -0.30 | -0.14 | -0.22 | 0.08 | -0.21 | 0.96 | 3 |
| GCE | 399 | 464617 | 3478605 | 464636 | 3478589 | 1933 | 2013 | -0.10 | 0.00 | -0.05 | 0.08 | -0.05 | 0.73 | 3 |
| GCE | 400 | 464642 | 3478648 | 464667 | 3478628 | 1933 | 2013 | 0.27 | -0.30 | -0.02 | 0.08 | -0.02 | 0.02 | 3 |
| GCE | 401 | 464678 | 3478682 | 464699 | 3478660 | 1933 | 2013 | 0.26 | -0.05 | 0.10 | 0.08 | 0.10 | 0.55 | 3 |
| GCE | 402 | 464718 | 3478712 | 464734 | 3478694 | 1933 | 2013 | 0.08 | 0.02 | 0.05 | 0.08 | 0.05 | 0.87 | 3 |
| GCE | 403 | 464757 | 3478742 | 464773 | 3478718 | 1933 | 2013 | -0.04 | 0.18 | 0.07 | 0.08 | 0.07 | 0.55 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 404 | 464796 | 3478767 | 464812 | 3478744 | 1933 | 2013 | -0.11 | 0.09 | -0.01 | 0.08 | -0.01 | 0.01 | 3 |
| GCE | 405 | 464834 | 3478798 | 464853 | 3478765 | 1933 | 2013 | -0.47 | 0.33 | -0.06 | 0.08 | -0.06 | 0.06 | 3 |
| GCE | 406 | 464876 | 3478825 | 464896 | 3478798 | 1933 | 2013 | -0.34 | 0.09 | -0.12 | 0.08 | -0.12 | 0.49 | 3 |
| GCE | 407 | 464921 | 3478845 | 464939 | 3478824 | 1933 | 2013 | 0.12 | 0.06 | 0.09 | 0.08 | 0.09 | 0.97 | 3 |
| GCE | 408 | 464954 | 3478880 | 464976 | 3478856 | 1933 | 2013 | 0.12 | 0.18 | 0.15 | 0.08 | 0.15 | 0.98 | 3 |
| GCE | 409 | 464984 | 3478919 | 465000 | 3478905 | 1933 | 2013 | -0.02 | 0.00 | -0.01 | 0.08 | -0.01 | 0.65 | 3 |
| GCE | 410 | 465006 | 3478964 | 465046 | 3478948 | 1933 | 2013 | NA | -0.16 | NA | 0.15 | -0.16 | 0.00 | 3 |
| GCE | 411 | 464356 | 3476870 | 464355 | 3476927 | 1933 | 2013 | 0.67 | 0.23 | 0.45 | 0.08 | 0.45 | 0.93 | 3 |
| GCE | 412 | 464307 | 3476869 | 464315 | 3476933 | 1933 | 2013 | 0.77 | 0.33 | 0.55 | 0.08 | 0.55 | 0.95 | 3 |
| GCE | 413 | 464263 | 3476894 | 464276 | 3476944 | 1933 | 2013 | 0.69 | 0.10 | 0.39 | 0.08 | 0.39 | 0.84 | 3 |
| GCE | 414 | 464222 | 3476920 | 464234 | 3476959 | 1933 | 2013 | 0.33 | 0.18 | 0.25 | 0.08 | 0.25 | 0.97 | 3 |
| GCE | 415 | 464178 | 3476943 | 464190 | 3476979 | 1933 | 2013 | 0.24 | 0.21 | 0.22 | 0.08 | 0.22 | 1.00 | 3 |
| GCE | 416 | 464131 | 3476960 | 464141 | 3476995 | 1933 | 2013 | 0.37 | 0.04 | 0.20 | 0.08 | 0.20 | 0.82 | 3 |
| GCE | 417 | 464084 | 3476974 | 464091 | 3477007 | 1933 | 2013 | 0.29 | 0.05 | 0.17 | 0.08 | 0.17 | 0.86 | 3 |
| GCE | 418 | 464035 | 3476982 | 464041 | 3477018 | 1933 | 2013 | 0.41 | -0.02 | 0.19 | 0.08 | 0.19 | 0.69 | 3 |
| GCE | 419 | 463985 | 3476989 | 463989 | 3477022 | 1933 | 2013 | 0.33 | -0.08 | 0.12 | 0.08 | 0.12 | 0.49 | 3 |
| GCE | 420 | 463936 | 3476998 | 463940 | 3477030 | 1933 | 2013 | 0.31 | -0.16 | 0.07 | 0.08 | 0.07 | 0.20 | 3 |
| GCE | 421 | 463886 | 3477003 | 463889 | 3477035 | 1933 | 2013 | 0.31 | -0.20 | 0.05 | 0.08 | 0.05 | 0.09 | 3 |
| GCE | 422 | 463838 | 3477015 | 463839 | 3477042 | 1933 | 2013 | 0.05 | -0.15 | -0.05 | 0.08 | -0.05 | 0.46 | 3 |
| GCE | 423 | 463789 | 3477026 | 463785 | 3477056 | 1933 | 2013 | -0.03 | -0.22 | -0.13 | 0.08 | -0.13 | 0.84 | 3 |
| GCE | 424 | 463739 | 3477029 | 463734 | 3477054 | 1933 | 2013 | 0.05 | -0.12 | -0.03 | 0.08 | -0.03 | 0.34 | 3 |
| GCE | 425 | 463734 | 3477015 | 463739 | 3476985 | 1933 | 2013 | 0.20 | 0.05 | 0.13 | 0.08 | 0.13 | 0.90 | 3 |
| GCE | 426 | 463783 | 3477019 | 463785 | 3476985 | 1933 | 2013 | 0.24 | 0.11 | 0.18 | 0.08 | 0.18 | 0.96 | 3 |
| GCE | 427 | 463833 | 3477013 | 463829 | 3476981 | 1933 | 2013 | 0.17 | 0.12 | 0.15 | 0.08 | 0.15 | 0.99 | 3 |
| GCE | 428 | 463881 | 3477000 | 463875 | 3476969 | 1933 | 2013 | 0.24 | 0.05 | 0.14 | 0.08 | 0.14 | 0.86 | 3 |
| GCE | 429 | 463930 | 3476994 | 463922 | 3476953 | 1933 | 2013 | 0.33 | 0.20 | 0.26 | 0.08 | 0.26 | 0.98 | 3 |
| GCE | 430 | 463979 | 3476981 | 463972 | 3476951 | 1933 | 2013 | 0.15 | 0.11 | 0.13 | 0.08 | 0.13 | 0.99 | 3 |
| GCE | 431 | 464027 | 3476970 | 464022 | 3476941 | 1933 | 2013 | 0.22 | -0.09 | 0.06 | 0.08 | 0.06 | 0.33 | 3 |
| GCE | 432 | 464076 | 3476960 | 464070 | 3476931 | 1933 | 2013 | 0.24 | -0.12 | 0.06 | 0.08 | 0.05 | 0.22 | 3 |
| GCE | 433 | 464124 | 3476947 | 464115 | 3476917 | 1933 | 2013 | 0.10 | 0.19 | 0.14 | 0.08 | 0.14 | 0.97 | 3 |
| GCE | 434 | 464170 | 3476927 | 464159 | 3476899 | 1933 | 2013 | 0.05 | 0.19 | 0.12 | 0.08 | 0.12 | 0.90 | 3 |
| GCE | 435 | 464210 | 3476897 | 464201 | 3476877 | 1933 | 2013 | -0.05 | 0.04 | -0.01 | 0.08 | -0.01 | 0.04 | 3 |
| GCE | 436 | 464254 | 3476874 | 464242 | 3476857 | 1933 | 2013 | -0.01 | 0.03 | 0.01 | 0.08 | 0.01 | 0.60 | 3 |
| GCE | 437 | 464300 | 3476854 | 464278 | 3476836 | 1933 | 2013 | -0.01 | -0.13 | -0.07 | 0.08 | -0.07 | 0.82 | 3 |
| GCE | 438 | 464348 | 3476842 | 464304 | 3476825 | 1933 | 2013 | 0.45 | -0.49 | -0.03 | 0.08 | -0.04 | 0.02 | 3 |
| GCE | 439 | 466458 | 3477379 | 466399 | 3477367 | 1933 | 2013 | -0.47 | -0.44 | -0.46 | 0.08 | -0.46 | 1.00 | 3 |
| GCE | 440 | 466425 | 3477342 | 466386 | 3477339 | 1933 | 2013 | -0.22 | -0.12 | -0.17 | 0.08 | -0.17 | 0.97 | 3 |
| GCE | 441 | 466405 | 3477297 | 466375 | 3477295 | 1933 | 2013 | -0.23 | -0.02 | -0.12 | 0.08 | -0.12 | 0.79 | 3 |
| GCE | 442 | 466419 | 3477251 | 466387 | 3477243 | 1933 | 2013 | -0.20 | -0.09 | -0.14 | 0.08 | -0.14 | 0.95 | 3 |
| GCE | 443 | 466459 | 3477221 | 466411 | 3477207 | 1933 | 2013 | -0.23 | -0.41 | -0.32 | 0.08 | -0.32 | 0.98 | 3 |
| GCE | 444 | 466488 | 3477182 | 466434 | 3477173 | 1933 | 2013 | -0.37 | -0.36 | -0.37 | 0.08 | -0.37 | 1.00 | 3 |
| GCE | 445 | 466476 | 3477135 | 466447 | 3477145 | 1933 | 2013 | 0.04 | -0.21 | -0.09 | 0.08 | -0.09 | 0.60 | 3 |
| GCE | 446 | 466435 | 3477108 | 466422 | 3477132 | 1933 | 2013 | -0.02 | -0.13 | -0.07 | 0.08 | -0.07 | 0.85 | 3 |
| GCE | 447 | 466386 | 3477102 | 466388 | 3477130 | 1933 | 2013 | 0.18 | -0.17 | 0.00 | 0.08 | 0.00 | 0.00 | 3 |
| GCE | 448 | 466340 | 3477121 | 466348 | 3477156 | 1933 | 2013 | 0.27 | 0.05 | 0.15 | 0.08 | 0.15 | 0.85 | 3 |
| GCE | 449 | 466299 | 3477146 | 466304 | 3477185 | 1933 | 2013 | 0.31 | 0.07 | 0.19 | 0.08 | 0.19 | 0.87 | 3 |
| GCE | 450 | 466254 | 3477155 | 466250 | 3477181 | 1933 | 2013 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 1.00 | 3 |
| GCE | 451 | 466212 | 3477130 | 466196 | 3477157 | 1933 | 2013 | -0.09 | -0.17 | -0.13 | 0.08 | -0.13 | 0.97 | 3 |
| GCE | 452 | 466189 | 3477086 | 466155 | 3477110 | 1933 | 2013 | -0.25 | -0.27 | -0.26 | 0.08 | -0.26 | 1.00 | 3 |
| GCE | 453 | 466176 | 3477038 | 466138 | 3477053 | 1933 | 2013 | -0.20 | -0.30 | -0.25 | 0.08 | -0.25 | 0.99 | 3 |
| GCE | 454 | 466181 | 3476989 | 466139 | 3477007 | 1933 | 2013 | -0.29 | -0.32 | -0.31 | 0.08 | -0.31 | 1.00 | 3 |
| GCE | 455 | 466177 | 3476940 | 466139 | 3476969 | 1933 | 2013 | -0.18 | -0.41 | -0.30 | 0.08 | -0.30 | 0.95 | 3 |
| GCE | 456 | 466145 | 3476903 | 466113 | 3476936 | 1933 | 2013 | 0.38 | -0.12 | 0.12 | 0.08 | 0.12 | 0.41 | 3 |
| GCE | 457 | 466100 | 3476884 | 466059 | 3476929 | 1933 | 2013 | 0.19 | 0.69 | 0.45 | 0.08 | 0.45 | 0.91 | 3 |
| GCE | 458 | 466052 | 3476883 | 466028 | 3476906 | 1933 | 2013 | 0.03 | 0.29 | 0.16 | 0.08 | 0.16 | 0.84 | 3 |
| GCE | 459 | 466035 | 3476842 | 466007 | 3476854 | 1933 | 2013 | -0.18 | -0.03 | -0.10 | 0.08 | -0.10 | 0.86 | 3 |
| GCE | 460 | 466104 | 3476711 | 466076 | 3476686 | 1933 | 2013 | -0.06 | -0.35 | -0.21 | 0.08 | -0.21 | 0.86 | 3 |
| GCE | 461 | 466139 | 3476677 | 466127 | 3476654 | 1933 | 2013 | -0.13 | -0.04 | -0.08 | 0.08 | -0.08 | 0.90 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 462 | 466184 | 3476656 | 466183 | 3476631 | 1933 | 2013 | -0.05 | -0.05 | -0.05 | 0.08 | -0.05 | 1.00 | 3 |
| GCE | 463 | 466233 | 3476659 | 466246 | 3476632 | 1933 | 2013 | 0.01 | -0.24 | -0.12 | 0.08 | -0.12 | 0.73 | 3 |
| GCE | 464 | 466262 | 3476699 | 466292 | 3476674 | 1933 | 2013 | -0.08 | -0.37 | -0.23 | 0.08 | -0.23 | 0.88 | 3 |
| GCE | 465 | 466275 | 3476747 | 466311 | 3476730 | 1933 | 2013 | 0.10 | -0.46 | -0.18 | 0.08 | -0.19 | 0.57 | 3 |
| GCE | 466 | 466290 | 3476794 | 466319 | 3476782 | 1933 | 2013 | -0.13 | -0.14 | -0.14 | 0.08 | -0.14 | 1.00 | 3 |
| GCE | 467 | 466308 | 3476840 | 466332 | 3476824 | 1933 | 2013 | 0.18 | -0.21 | -0.02 | 0.08 | -0.02 | 0.03 | 3 |
| GCE | 468 | 466334 | 3476883 | 466355 | 3476854 | 1933 | 2013 | 0.37 | -0.08 | 0.14 | 0.08 | 0.14 | 0.52 | 3 |
| GCE | 469 | 466369 | 3476918 | 466379 | 3476869 | 1933 | 2013 | 0.55 | 0.19 | 0.37 | 0.08 | 0.36 | 0.93 | 3 |
| GCE | 470 | 466416 | 3476931 | 466407 | 3476872 | 1933 | 2013 | 0.48 | 0.50 | 0.49 | 0.08 | 0.49 | 1.00 | 3 |
| GCE | 471 | 466455 | 3476901 | 466431 | 3476857 | 1933 | 2013 | 0.50 | 0.23 | 0.36 | 0.08 | 0.36 | 0.95 | 3 |
| GCE | 472 | 466485 | 3476862 | 466462 | 3476834 | 1933 | 2013 | 0.27 | 0.13 | 0.19 | 0.08 | 0.19 | 0.96 | 3 |
| GCE | 473 | 466515 | 3476822 | 466496 | 3476804 | 1933 | 2013 | 0.08 | 0.04 | 0.06 | 0.08 | 0.06 | 0.97 | 3 |
| GCE | 474 | 466549 | 3476786 | 466531 | 3476769 | 1933 | 2013 | -0.01 | 0.11 | 0.05 | 0.08 | 0.05 | 0.70 | 3 |
| GCE | 475 | 466583 | 3476749 | 466564 | 3476734 | 1933 | 2013 | -0.10 | 0.06 | -0.02 | 0.08 | -0.02 | 0.12 | 3 |
| GCE | 476 | 466617 | 3476713 | 466600 | 3476698 | 1933 | 2013 | 0.02 | 0.04 | 0.03 | 0.08 | 0.03 | 0.96 | 3 |
| GCE | 477 | 466653 | 3476678 | 466626 | 3476657 | 1933 | 2013 | 0.27 | 0.06 | 0.17 | 0.08 | 0.17 | 0.88 | 3 |
| GCE | 478 | 466686 | 3476641 | 466650 | 3476619 | 1933 | 2013 | 0.44 | 0.11 | 0.27 | 0.08 | 0.27 | 0.89 | 3 |
| GCE | 479 | 466718 | 3476602 | 466676 | 3476588 | 1933 | 2013 | 0.41 | 0.17 | 0.29 | 0.08 | 0.29 | 0.94 | 3 |
| GCE | 480 | 466741 | 3476558 | 466696 | 3476561 | 1933 | 2013 | 0.23 | 0.35 | 0.29 | 0.08 | 0.29 | 0.99 | 3 |
| GCE | 481 | 466732 | 3476511 | 466696 | 3476532 | 1933 | 2013 | 0.19 | 0.35 | 0.27 | 0.08 | 0.27 | 0.97 | 3 |
| GCE | 482 | 466689 | 3476487 | 466663 | 3476522 | 1933 | 2013 | 0.16 | 0.36 | 0.26 | 0.08 | 0.26 | 0.95 | 3 |
| GCE | 483 | 466640 | 3476483 | 466625 | 3476517 | 1933 | 2013 | 0.16 | 0.22 | 0.19 | 0.08 | 0.19 | 0.99 | 3 |
| GCE | 484 | 466590 | 3476482 | 466580 | 3476511 | 1933 | 2013 | 0.16 | 0.09 | 0.12 | 0.08 | 0.12 | 0.97 | 3 |
| GCE | 485 | 466541 | 3476473 | 466530 | 3476494 | 1933 | 2013 | 0.09 | -0.02 | 0.03 | 0.08 | 0.03 | 0.52 | 3 |
| GCE | 486 | 466496 | 3476452 | 466481 | 3476468 | 1933 | 2013 | -0.02 | -0.04 | -0.03 | 0.08 | -0.03 | 0.97 | 3 |
| GCE | 487 | 466470 | 3476410 | 466432 | 3476427 | 1933 | 2013 | -0.27 | -0.27 | -0.27 | 0.08 | -0.27 | 1.00 | 3 |
| GCE | 488 | 466466 | 3476361 | 466388 | 3476359 | 1933 | 2013 | -0.37 | -0.34 | -0.35 | 0.08 | -0.35 | 1.00 | 3 |
| GCE | 489 | 466485 | 3476315 | 466447 | 3476298 | 1933 | 2013 | -0.25 | -0.27 | -0.26 | 0.08 | -0.26 | 1.00 | 3 |
| GCE | 490 | 466521 | 3476280 | 466488 | 3476251 | 1933 | 2013 | -0.18 | -0.41 | -0.30 | 0.08 | -0.30 | 0.95 | 3 |
| GCE | 491 | 466554 | 3476243 | 466526 | 3476215 | 1933 | 2013 | -0.09 | -0.38 | -0.24 | 0.08 | -0.24 | 0.89 | 3 |
| GCE | 492 | 466591 | 3476210 | 466568 | 3476184 | 1933 | 2013 | -0.10 | -0.25 | -0.18 | 0.08 | -0.18 | 0.95 | 3 |
| GCE | 493 | 466630 | 3476179 | 466608 | 3476150 | 1933 | 2013 | -0.17 | -0.24 | -0.21 | 0.08 | -0.21 | 0.99 | 3 |
| GCE | 494 | 466670 | 3476149 | 466646 | 3476112 | 1933 | 2013 | 0.02 | -0.60 | -0.29 | 0.08 | -0.30 | 0.74 | 3 |
| GCE | 495 | 466712 | 3476124 | 466687 | 3476085 | 1933 | 2013 | -0.18 | -0.42 | -0.30 | 0.08 | -0.31 | 0.95 | 3 |
| GCE | 496 | 466760 | 3476113 | 466743 | 3476065 | 1933 | 2013 | -0.27 | -0.49 | -0.38 | 0.08 | -0.38 | 0.97 | 3 |
| GCE | 497 | 466857 | 3476104 | 466857 | 3476051 | 1933 | 2013 | -0.46 | -0.35 | -0.40 | 0.08 | -0.40 | 0.99 | 3 |
| GCE | 498 | 466907 | 3476106 | 466913 | 3476058 | 1933 | 2013 | -0.42 | -0.30 | -0.36 | 0.08 | -0.36 | 0.99 | 3 |
| GCE | 499 | 466956 | 3476114 | 466972 | 3476065 | 1933 | 2013 | -0.47 | -0.30 | -0.39 | 0.08 | -0.39 | 0.98 | 3 |
| GCE | 500 | 467003 | 3476131 | 467027 | 3476081 | 1933 | 2013 | -0.62 | -0.26 | -0.44 | 0.08 | -0.44 | 0.95 | 3 |
| GCE | 501 | 467046 | 3476155 | 467082 | 3476108 | 1933 | 2013 | -0.68 | -0.30 | -0.49 | 0.08 | -0.49 | 0.95 | 3 |
| GCE | 502 | 467083 | 3476188 | 467128 | 3476152 | 1933 | 2013 | -0.69 | -0.27 | -0.47 | 0.08 | -0.47 | 0.94 | 3 |
| GCE | 503 | 467108 | 3476231 | 467161 | 3476206 | 1933 | 2013 | -0.53 | -0.43 | -0.48 | 0.08 | -0.48 | 1.00 | 3 |
| GCE | 504 | 467122 | 3476279 | 467177 | 3476264 | 1933 | 2013 | -0.39 | -0.54 | -0.47 | 0.08 | -0.47 | 0.99 | 3 |
| GCE | 505 | 467135 | 3476327 | 467184 | 3476318 | 1933 | 2013 | -0.50 | -0.27 | -0.38 | 0.08 | -0.38 | 0.97 | 3 |
| GCE | 506 | 467152 | 3476374 | 467187 | 3476361 | 1933 | 2013 | -0.15 | -0.26 | -0.20 | 0.08 | -0.20 | 0.98 | 3 |
| GCE | 507 | 467176 | 3476417 | 467198 | 3476400 | 1933 | 2013 | -0.02 | -0.13 | -0.08 | 0.08 | -0.08 | 0.83 | 3 |
| GCE | 508 | 467199 | 3476458 | 467215 | 3476417 | 1933 | 2013 | 0.57 | 0.02 | 0.29 | 0.08 | 0.28 | 0.76 | 3 |
| GCE | 509 | 467241 | 3476476 | 467225 | 3476416 | 1933 | 2013 | 0.66 | 0.37 | 0.51 | 0.08 | 0.51 | 0.97 | 3 |
| GCE | 510 | 467273 | 3476438 | 467238 | 3476401 | 1933 | 2013 | 0.68 | 0.07 | 0.37 | 0.08 | 0.37 | 0.81 | 3 |
| GCE | 511 | 467298 | 3476395 | 467249 | 3476371 | 1933 | 2013 | 0.61 | 0.27 | 0.43 | 0.08 | 0.43 | 0.95 | 3 |
| GCE | 512 | 467307 | 3476346 | 467253 | 3476338 | 1933 | 2013 | 0.44 | 0.43 | 0.43 | 0.08 | 0.43 | 1.00 | 3 |
| GCE | 513 | 467301 | 3476297 | 467254 | 3476295 | 1933 | 2013 | 0.21 | 0.45 | 0.33 | 0.08 | 0.34 | 0.96 | 3 |
| GCE | 514 | 467287 | 3476249 | 467248 | 3476251 | 1933 | 2013 | 0.27 | 0.19 | 0.23 | 0.08 | 0.23 | 0.99 | 3 |
| GCE | 515 | 467275 | 3476201 | 467243 | 3476202 | 1933 | 2013 | 0.29 | -0.05 | 0.12 | 0.08 | 0.12 | 0.58 | 3 |
| GCE | 516 | 467269 | 3476151 | 467243 | 3476149 | 1933 | 2013 | 0.11 | -0.16 | -0.03 | 0.08 | -0.03 | 0.12 | 3 |
| GCE | 517 | 467283 | 3476105 | 467246 | 3476094 | 1933 | 2013 | -0.20 | -0.26 | -0.23 | 0.08 | -0.23 | 0.99 | 3 |
| GCE | 518 | 467305 | 3476060 | 467267 | 3476039 | 1933 | 2013 | -0.15 | -0.42 | -0.29 | 0.08 | -0.29 | 0.93 | 3 |
| GCE | 519 | 467346 | 3476032 | 467304 | 3475999 | 1933 | 2013 | -0.28 | -0.54 | -0.41 | 0.08 | -0.41 | 0.97 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 520 | 467391 | 3476009 | 467335 | 3475970 | 1933 | 2013 | -0.47 | -0.69 | -0.58 | 0.08 | -0.58 | 0.99 | 3 |
| GCE | 521 | 467438 | 3475993 | 467328 | 3475974 | 1933 | 2013 | -0.68 | -0.88 | -0.78 | 0.08 | -0.78 | 0.99 | 3 |
| GCE | 522 | 467487 | 3475985 | 467501 | 3476073 | 1933 | 2013 | -1.00 | -1.22 | -1.11 | 0.08 | -1.11 | 1.00 | 3 |
| GCE | 523 | 467421 | 3476019 | 467429 | 3476071 | 1933 | 2013 | 0.51 | 0.29 | 0.40 | 0.08 | 0.40 | 0.98 | 3 |
| GCE | 524 | 467373 | 3476033 | 467403 | 3476085 | 1933 | 2013 | 0.68 | 0.30 | 0.49 | 0.08 | 0.48 | 0.95 | 3 |
| GCE | 525 | 467336 | 3476063 | 467374 | 3476101 | 1933 | 2013 | 0.59 | 0.21 | 0.40 | 0.08 | 0.40 | 0.93 | 3 |
| GCE | 526 | 467315 | 3476107 | 467349 | 3476125 | 1933 | 2013 | 0.35 | 0.11 | 0.22 | 0.08 | 0.22 | 0.91 | 3 |
| GCE | 527 | 467311 | 3476157 | 467341 | 3476164 | 1933 | 2013 | 0.22 | -0.22 | -0.01 | 0.08 | -0.01 | 0.00 | 3 |
| GCE | 528 | 467315 | 3476206 | 467348 | 3476207 | 1933 | 2013 | 0.04 | -0.26 | -0.11 | 0.08 | -0.11 | 0.63 | 3 |
| GCE | 529 | 467318 | 3476256 | 467360 | 3476252 | 1933 | 2013 | -0.33 | -0.23 | -0.28 | 0.08 | -0.28 | 0.99 | 3 |
| GCE | 530 | 467323 | 3476305 | 467371 | 3476303 | 1933 | 2013 | -0.38 | -0.30 | -0.34 | 0.08 | -0.34 | 1.00 | 3 |
| GCE | 531 | 467323 | 3476355 | 467373 | 3476361 | 1933 | 2013 | -0.48 | -0.28 | -0.38 | 0.08 | -0.38 | 0.98 | 3 |
| GCE | 532 | 467315 | 3476404 | 467359 | 3476421 | 1933 | 2013 | -0.24 | -0.42 | -0.33 | 0.08 | -0.34 | 0.98 | 3 |
| GCE | 533 | 467292 | 3476448 | 467329 | 3476483 | 1933 | 2013 | -0.36 | -0.41 | -0.38 | 0.08 | -0.38 | 1.00 | 3 |
| GCE | 534 | 467252 | 3476477 | 467270 | 3476527 | 1933 | 2013 | -0.28 | -0.54 | -0.41 | 0.08 | -0.41 | 0.97 | 3 |
| GCE | 535 | 467204 | 3476482 | 467197 | 3476539 | 1933 | 2013 | -0.31 | -0.50 | -0.41 | 0.08 | -0.41 | 0.98 | 3 |
| GCE | 536 | 467157 | 3476466 | 467137 | 3476497 | 1933 | 2013 | -0.20 | -0.18 | -0.19 | 0.08 | -0.19 | 1.00 | 3 |
| GCE | 537 | 467126 | 3476428 | 467108 | 3476443 | 1933 | 2013 | 0.07 | -0.03 | 0.02 | 0.08 | 0.02 | 0.23 | 3 |
| GCE | 538 | 467121 | 3476380 | 467087 | 3476398 | 1933 | 2013 | 0.32 | 0.14 | 0.23 | 0.08 | 0.23 | 0.95 | 3 |
| GCE | 539 | 467117 | 3476331 | 467076 | 3476347 | 1933 | 2013 | 0.27 | 0.31 | 0.29 | 0.08 | 0.29 | 1.00 | 3 |
| GCE | 540 | 467113 | 3476283 | 467067 | 3476302 | 1933 | 2013 | 0.35 | 0.38 | 0.36 | 0.08 | 0.36 | 1.00 | 3 |
| GCE | 541 | 467105 | 3476234 | 467055 | 3476262 | 1933 | 2013 | 0.44 | 0.48 | 0.46 | 0.08 | 0.46 | 1.00 | 3 |
| GCE | 542 | 467084 | 3476190 | 467037 | 3476229 | 1933 | 2013 | 0.58 | 0.44 | 0.51 | 0.08 | 0.51 | 0.99 | 3 |
| GCE | 543 | 467045 | 3476159 | 467009 | 3476204 | 1933 | 2013 | 0.70 | 0.25 | 0.47 | 0.08 | 0.47 | 0.93 | 3 |
| GCE | 544 | 467000 | 3476137 | 466977 | 3476187 | 1933 | 2013 | 0.76 | 0.13 | 0.43 | 0.08 | 0.43 | 0.85 | 3 |
| GCE | 545 | 466953 | 3476125 | 466938 | 3476176 | 1933 | 2013 | 0.78 | 0.04 | 0.40 | 0.08 | 0.40 | 0.78 | 3 |
| GCE | 546 | 466903 | 3476120 | 466895 | 3476172 | 1933 | 2013 | 0.80 | 0.04 | 0.41 | 0.08 | 0.40 | 0.77 | 3 |
| GCE | 547 | 466854 | 3476119 | 466854 | 3476172 | 1933 | 2013 | 0.77 | 0.06 | 0.41 | 0.08 | 0.41 | 0.80 | 3 |
| GCE | 548 | 466805 | 3476118 | 466811 | 3476171 | 1933 | 2013 | 0.62 | 0.16 | 0.39 | 0.08 | 0.38 | 0.90 | 3 |
| GCE | 549 | 466757 | 3476127 | 466767 | 3476175 | 1933 | 2013 | 0.42 | 0.30 | 0.36 | 0.08 | 0.36 | 0.99 | 3 |
| GCE | 550 | 466714 | 3476151 | 466728 | 3476187 | 1933 | 2013 | 0.29 | 0.16 | 0.23 | 0.08 | 0.23 | 0.97 | 3 |
| GCE | 551 | 466675 | 3476179 | 466690 | 3476208 | 1933 | 2013 | 0.25 | 0.04 | 0.15 | 0.08 | 0.14 | 0.86 | 3 |
| GCE | 552 | 466637 | 3476211 | 466655 | 3476235 | 1933 | 2013 | 0.20 | 0.07 | 0.13 | 0.08 | 0.13 | 0.92 | 3 |
| GCE | 553 | 466598 | 3476242 | 466618 | 3476264 | 1933 | 2013 | 0.06 | 0.18 | 0.12 | 0.08 | 0.12 | 0.92 | 3 |
| GCE | 554 | 466561 | 3476275 | 466585 | 3476297 | 1933 | 2013 | 0.23 | 0.09 | 0.16 | 0.08 | 0.16 | 0.94 | 3 |
| GCE | 555 | 466525 | 3476307 | 466559 | 3476327 | 1933 | 2013 | 0.50 | -0.14 | 0.18 | 0.08 | 0.17 | 0.47 | 3 |
| GCE | 556 | 466494 | 3476344 | 466539 | 3476351 | 1933 | 2013 | 0.38 | 0.10 | 0.24 | 0.08 | 0.24 | 0.89 | 3 |
| GCE | 557 | 466496 | 3476390 | 466527 | 3476382 | 1933 | 2013 | 0.11 | 0.16 | 0.14 | 0.08 | 0.14 | 0.99 | 3 |
| GCE | 558 | 466536 | 3476419 | 466558 | 3476399 | 1933 | 2013 | 0.11 | -0.19 | -0.04 | 0.08 | -0.04 | 0.20 | 3 |
| GCE | 559 | 466583 | 3476434 | 466597 | 3476409 | 1933 | 2013 | 0.00 | -0.17 | -0.09 | 0.08 | -0.09 | 0.76 | 3 |
| GCE | 560 | 466631 | 3476447 | 466643 | 3476420 | 1933 | 2013 | -0.24 | 0.05 | -0.09 | 0.08 | -0.09 | 0.54 | 3 |
| GCE | 561 | 466680 | 3476458 | 466698 | 3476431 | 1933 | 2013 | -0.09 | -0.18 | -0.14 | 0.08 | -0.14 | 0.97 | 3 |
| GCE | 562 | 466727 | 3476475 | 466747 | 3476451 | 1933 | 2013 | 0.03 | -0.26 | -0.12 | 0.08 | -0.12 | 0.68 | 3 |
| GCE | 563 | 466761 | 3476508 | 466783 | 3476493 | 1933 | 2013 | 0.08 | -0.15 | -0.04 | 0.08 | -0.04 | 0.25 | 3 |
| GCE | 564 | 466771 | 3476557 | 466799 | 3476552 | 1933 | 2013 | 0.20 | -0.20 | -0.01 | 0.08 | -0.01 | 0.01 | 3 |
| GCE | 565 | 466758 | 3476604 | 466812 | 3476616 | 1933 | 2013 | 0.87 | -0.16 | 0.35 | 0.08 | 0.34 | 0.57 | 3 |
| GCE | 566 | 466726 | 3476642 | 466781 | 3476673 | 1933 | 2013 | 1.08 | -0.34 | 0.36 | 0.08 | 0.35 | 0.43 | 3 |
| GCE | 567 | 466690 | 3476676 | 466717 | 3476700 | 1933 | 2013 | -0.11 | -0.28 | -0.20 | 0.08 | -0.20 | 0.94 | 3 |
| GCE | 568 | 466658 | 3476715 | 466679 | 3476743 | 1933 | 2013 | 0.05 | -0.36 | -0.16 | 0.08 | -0.16 | 0.64 | 3 |
| GCE | 569 | 466631 | 3476756 | 466650 | 3476780 | 1933 | 2013 | 0.16 | -0.24 | -0.04 | 0.08 | -0.04 | 0.13 | 3 |
| GCE | 570 | 466594 | 3476788 | 466619 | 3476816 | 1933 | 2013 | 0.21 | -0.42 | -0.11 | 0.08 | -0.11 | 0.27 | 3 |
| GCE | 571 | 466559 | 3476824 | 466583 | 3476849 | 1933 | 2013 | 0.11 | -0.33 | -0.12 | 0.08 | -0.12 | 0.47 | 3 |
| GCE | 572 | 466521 | 3476855 | 466548 | 3476885 | 1933 | 2013 | -0.11 | -0.36 | -0.24 | 0.08 | -0.24 | 0.92 | 3 |
| GCE | 573 | 466489 | 3476894 | 466517 | 3476930 | 1933 | 2013 | -0.20 | -0.43 | -0.32 | 0.08 | -0.32 | 0.96 | 3 |
| GCE | 574 | 466449 | 3476921 | 466470 | 3476963 | 1933 | 2013 | -0.49 | -0.18 | -0.33 | 0.08 | -0.33 | 0.94 | 3 |
| GCE | 575 | 466400 | 3476931 | 466404 | 3476990 | 1933 | 2013 | -0.67 | -0.30 | -0.48 | 0.08 | -0.48 | 0.95 | 3 |
| GCE | 576 | 466350 | 3476929 | 466332 | 3476972 | 1933 | 2013 | -0.54 | -0.11 | -0.32 | 0.08 | -0.32 | 0.87 | 3 |
| GCE | 577 | 466311 | 3476901 | 466285 | 3476927 | 1933 | 2013 | -0.38 | -0.03 | -0.20 | 0.08 | -0.20 | 0.80 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 578 | 466278 | 3476864 | 466255 | 3476876 | 1933 | 2013 | -0.15 | 0.08 | -0.03 | 0.08 | -0.03 | 0.19 | 3 |
| GCE | 579 | 466256 | 3476819 | 466237 | 3476825 | 1933 | 2013 | 0.01 | 0.00 | 0.00 | 0.08 | 0.00 | 0.51 | 3 |
| GCE | 580 | 466253 | 3476769 | 466223 | 3476783 | 1933 | 2013 | 0.14 | 0.17 | 0.15 | 0.08 | 0.15 | 1.00 | 3 |
| GCE | 581 | 466247 | 3476719 | 466218 | 3476746 | 1933 | 2013 | 0.16 | 0.29 | 0.23 | 0.08 | 0.23 | 0.97 | 3 |
| GCE | 582 | 466213 | 3476689 | 466205 | 3476713 | 1933 | 2013 | -0.03 | 0.10 | 0.04 | 0.08 | 0.04 | 0.52 | 3 |
| GCE | 583 | 466167 | 3476705 | 466176 | 3476732 | 1933 | 2013 | 0.15 | -0.01 | 0.07 | 0.08 | 0.07 | 0.71 | 3 |
| GCE | 584 | 466123 | 3476730 | 466155 | 3476762 | 1933 | 2013 | 0.29 | 0.31 | 0.30 | 0.08 | 0.30 | 1.00 | 3 |
| GCE | 585 | 466081 | 3476757 | 466140 | 3476777 | 1933 | 2013 | 0.55 | 0.43 | 0.49 | 0.08 | 0.49 | 1.00 | 3 |
| GCE | 586 | 466067 | 3476802 | 466122 | 3476799 | 1933 | 2013 | 0.80 | -0.19 | 0.30 | 0.08 | 0.29 | 0.51 | 3 |
| GCE | 587 | 466065 | 3476849 | 466133 | 3476818 | 1933 | 2013 | -0.03 | -1.14 | -0.60 | 0.08 | -0.60 | 0.78 | 3 |
| GCE | 588 | 466099 | 3476875 | 466168 | 3476830 | 1933 | 2013 | -0.47 | -0.80 | -0.64 | 0.08 | -0.64 | 0.98 | 3 |
| GCE | 589 | 466149 | 3476874 | 466189 | 3476845 | 1933 | 2013 | -0.15 | -0.45 | -0.31 | 0.08 | -0.31 | 0.93 | 3 |
| GCE | 590 | 466189 | 3476899 | 466214 | 3476887 | 1933 | 2013 | 0.12 | -0.16 | -0.02 | 0.08 | -0.02 | 0.08 | 3 |
| GCE | 591 | 466197 | 3476948 | 466231 | 3476941 | 1933 | 2013 | 0.37 | -0.03 | 0.17 | 0.08 | 0.16 | 0.67 | 3 |
| GCE | 592 | 466186 | 3476996 | 466232 | 3476990 | 1933 | 2013 | 0.64 | -0.26 | 0.18 | 0.08 | 0.18 | 0.31 | 3 |
| GCE | 593 | 466185 | 3477046 | 466223 | 3477033 | 1933 | 2013 | 0.48 | -0.16 | 0.15 | 0.08 | 0.15 | 0.40 | 3 |
| GCE | 594 | 466202 | 3477092 | 466228 | 3477070 | 1933 | 2013 | 0.26 | 0.09 | 0.17 | 0.08 | 0.17 | 0.93 | 3 |
| GCE | 595 | 466243 | 3477120 | 466251 | 3477095 | 1933 | 2013 | 0.06 | -0.15 | -0.05 | 0.08 | -0.05 | 0.37 | 3 |
| GCE | 596 | 466291 | 3477126 | 466291 | 3477083 | 1933 | 2013 | -0.18 | -0.34 | -0.26 | 0.08 | -0.26 | 0.97 | 3 |
| GCE | 597 | 466336 | 3477105 | 466327 | 3477060 | 1933 | 2013 | -0.05 | -0.55 | -0.31 | 0.08 | -0.31 | 0.82 | 3 |
| GCE | 598 | 466379 | 3477081 | 466374 | 3477046 | 1933 | 2013 | 0.07 | -0.40 | -0.17 | 0.08 | -0.17 | 0.62 | 3 |
| GCE | 599 | 466429 | 3477081 | 466435 | 3477041 | 1933 | 2013 | 0.06 | -0.48 | -0.21 | 0.08 | -0.22 | 0.66 | 3 |
| GCE | 600 | 466473 | 3477103 | 466494 | 3477074 | 1933 | 2013 | 0.13 | NA | NA | 0.16 | 0.13 | 0.00 | 3 |
| GCE | 601 | 466504 | 3477189 | 466532 | 3477193 | 1933 | 2013 | 0.12 | 0.06 | 0.09 | 0.08 | 0.09 | 0.97 | 3 |
| GCE | 602 | 466467 | 3477222 | 466514 | 3477236 | 1933 | 2013 | 0.49 | 0.18 | 0.33 | 0.08 | 0.33 | 0.93 | 3 |
| GCE | 603 | 466439 | 3477263 | 466472 | 3477271 | 1933 | 2013 | 0.24 | -0.10 | 0.07 | 0.08 | 0.07 | 0.32 | 3 |
| GCE | 604 | 466438 | 3477312 | 466465 | 3477310 | 1933 | 2013 | 0.10 | -0.13 | -0.02 | 0.08 | -0.02 | 0.10 | 3 |
| GCE | 605 | 466462 | 3477355 | 466484 | 3477331 | 1933 | 2013 | 0.20 | 0.12 | 0.16 | 0.08 | 0.16 | 0.98 | 3 |
| GCE | 606 | 464923 | 3475954 | 464973 | 3475999 | 1933 | 2013 | 1.17 | -0.02 | 0.56 | 0.08 | 0.56 | 0.73 | 3 |
| GCE | 607 | 464950 | 3475915 | 464998 | 3475982 | 1933 | 2013 | 1.27 | 0.20 | 0.73 | 0.08 | 0.72 | 0.85 | 3 |
| GCE | 608 | 464993 | 3475893 | 465026 | 3475968 | 1933 | 2013 | 1.28 | 0.25 | 0.75 | 0.08 | 0.75 | 0.86 | 3 |
| GCE | 609 | 465040 | 3475878 | 465062 | 3475957 | 1933 | 2013 | 1.19 | 0.26 | 0.71 | 0.08 | 0.71 | 0.87 | 3 |
| GCE | 610 | 465089 | 3475871 | 465100 | 3475950 | 1933 | 2013 | 1.11 | 0.27 | 0.68 | 0.08 | 0.68 | 0.89 | 3 |
| GCE | 611 | 465139 | 3475875 | 465138 | 3475944 | 1933 | 2013 | 0.90 | 0.27 | 0.58 | 0.08 | 0.58 | 0.91 | 3 |
| GCE | 612 | 465189 | 3475879 | 465177 | 3475947 | 1933 | 2013 | 0.92 | 0.27 | 0.59 | 0.08 | 0.59 | 0.91 | 3 |
| GCE | 613 | 465237 | 3475886 | 465210 | 3475954 | 1933 | 2013 | 0.86 | 0.25 | 0.55 | 0.08 | 0.55 | 0.91 | 3 |
| GCE | 614 | 465284 | 3475900 | 465237 | 3475967 | 1933 | 2013 | 0.99 | 0.32 | 0.65 | 0.08 | 0.65 | 0.92 | 3 |
| GCE | 615 | 465325 | 3475927 | 465261 | 3475991 | 1933 | 2013 | 1.08 | 0.46 | 0.76 | 0.08 | 0.76 | 0.95 | 3 |
| GCE | 616 | 465359 | 3475963 | 465276 | 3476020 | 1933 | 2013 | 0.99 | 0.75 | 0.87 | 0.08 | 0.87 | 0.99 | 3 |
| GCE | 617 | 465385 | 3476004 | 465292 | 3476050 | 1933 | 2013 | 0.90 | 0.80 | 0.85 | 0.08 | 0.85 | 1.00 | 3 |
| GCE | 618 | 465408 | 3476047 | 465310 | 3476083 | 1933 | 2013 | 0.97 | 0.94 | 0.95 | 0.08 | 0.95 | 1.00 | 3 |
| GCE | 619 | 465412 | 3476094 | 465320 | 3476127 | 1933 | 2013 | 0.81 | 0.79 | 0.80 | 0.08 | 0.80 | 1.00 | 3 |
| GCE | 620 | 465407 | 3476140 | 465327 | 3476166 | 1933 | 2013 | 0.75 | 0.47 | 0.61 | 0.08 | 0.61 | 0.98 | 3 |
| GCE | 621 | 465397 | 3476182 | 465339 | 3476202 | 1933 | 2013 | 0.62 | 0.13 | 0.37 | 0.08 | 0.37 | 0.87 | 3 |
| GCE | 622 | 465404 | 3476231 | 465363 | 3476252 | 1933 | 2013 | 0.39 | 0.06 | 0.22 | 0.08 | 0.22 | 0.85 | 3 |
| GCE | 623 | 465416 | 3476277 | 465383 | 3476297 | 1933 | 2013 | 0.34 | 0.07 | 0.20 | 0.08 | 0.20 | 0.88 | 3 |
| GCE | 624 | 465435 | 3476323 | 465407 | 3476344 | 1933 | 2013 | 0.22 | -0.01 | 0.10 | 0.08 | 0.10 | 0.70 | 3 |
| GCE | 625 | 465464 | 3476364 | 465447 | 3476379 | 1933 | 2013 | 0.00 | -0.07 | -0.04 | 0.08 | -0.04 | 0.72 | 3 |
| GCE | 626 | 465500 | 3476398 | 465487 | 3476414 | 1933 | 2013 | 0.05 | -0.02 | 0.01 | 0.08 | 0.01 | 0.30 | 3 |
| GCE | 627 | 465538 | 3476430 | 465527 | 3476448 | 1933 | 2013 | 0.07 | 0.02 | 0.05 | 0.08 | 0.05 | 0.90 | 3 |
| GCE | 628 | 465627 | 3476474 | 465620 | 3476499 | 1933 | 2013 | -0.06 | -0.07 | -0.07 | 0.08 | -0.07 | 1.00 | 3 |
| GCE | 629 | 465675 | 3476484 | 465671 | 3476509 | 1933 | 2013 | -0.06 | 0.08 | 0.01 | 0.08 | 0.01 | 0.07 | 3 |
| GCE | 630 | 465724 | 3476490 | 465720 | 3476515 | 1933 | 2013 | -0.13 | 0.04 | -0.04 | 0.08 | -0.04 | 0.43 | 3 |
| GCE | 631 | 465773 | 3476498 | 465767 | 3476522 | 1933 | 2013 | 0.05 | 0.06 | 0.06 | 0.08 | 0.06 | 1.00 | 3 |
| GCE | 632 | 465821 | 3476507 | 465816 | 3476530 | 1933 | 2013 | 0.02 | 0.09 | 0.05 | 0.08 | 0.05 | 0.87 | 3 |
| GCE | 633 | 465869 | 3476514 | 465861 | 3476543 | 1933 | 2013 | -0.09 | 0.24 | 0.08 | 0.08 | 0.08 | 0.43 | 3 |
| GCE | 634 | 465917 | 3476526 | 465908 | 3476557 | 1933 | 2013 | -0.32 | 0.28 | -0.01 | 0.08 | -0.01 | 0.00 | 3 |
| GCE | 635 | 465966 | 3476536 | 465958 | 3476570 | 1933 | 2013 | -0.26 | 0.35 | 0.05 | 0.08 | 0.05 | 0.09 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 636 | 466014 | 3476548 | 466009 | 3476581 | 1933 | 2013 | -0.28 | 0.32 | 0.03 | 0.08 | 0.03 | 0.03 | 3 |
| GCE | 637 | 466063 | 3476556 | 466061 | 3476590 | 1933 | 2013 | -0.34 | 0.25 | -0.04 | 0.08 | -0.04 | 0.05 | 3 |
| GCE | 638 | 466113 | 3476559 | 466114 | 3476592 | 1933 | 2013 | -0.34 | 0.26 | -0.04 | 0.08 | -0.04 | 0.04 | 3 |
| GCE | 639 | 466162 | 3476550 | 466169 | 3476586 | 1933 | 2013 | -0.42 | 0.03 | -0.19 | 0.08 | -0.19 | 0.67 | 3 |
| GCE | 640 | 466211 | 3476543 | 466224 | 3476572 | 1933 | 2013 | -0.31 | 0.10 | -0.10 | 0.08 | -0.10 | 0.41 | 3 |
| GCE | 641 | 466258 | 3476524 | 466276 | 3476550 | 1933 | 2013 | -0.31 | 0.08 | -0.11 | 0.08 | -0.11 | 0.48 | 3 |
| GCE | 642 | 466296 | 3476492 | 466318 | 3476513 | 1933 | 2013 | -0.21 | -0.03 | -0.12 | 0.08 | -0.12 | 0.85 | 3 |
| GCE | 643 | 466323 | 3476451 | 466347 | 3476466 | 1933 | 2013 | 0.07 | -0.20 | -0.07 | 0.08 | -0.07 | 0.43 | 3 |
| GCE | 644 | 466349 | 3476408 | 466371 | 3476418 | 1933 | 2013 | 0.11 | -0.03 | 0.04 | 0.08 | 0.03 | 0.43 | 3 |
| GCE | 645 | 466360 | 3476360 | 466386 | 3476368 | 1933 | 2013 | 0.18 | -0.09 | 0.04 | 0.08 | 0.04 | 0.24 | 3 |
| GCE | 646 | 466371 | 3476312 | 466396 | 3476317 | 1933 | 2013 | 0.13 | -0.08 | 0.02 | 0.08 | 0.02 | 0.12 | 3 |
| GCE | 647 | 466371 | 3476262 | 466401 | 3476265 | 1933 | 2013 | 0.25 | -0.25 | -0.01 | 0.08 | -0.01 | 0.00 | 3 |
| GCE | 648 | 466381 | 3476213 | 466405 | 3476212 | 1933 | 2013 | 0.01 | -0.10 | -0.05 | 0.08 | -0.05 | 0.68 | 3 |
| GCE | 649 | 466373 | 3476164 | 466399 | 3476160 | 1933 | 2013 | 0.10 | -0.14 | -0.02 | 0.08 | -0.03 | 0.12 | 3 |
| GCE | 650 | 466363 | 3476115 | 466385 | 3476108 | 1933 | 2013 | 0.02 | 0.05 | 0.03 | 0.08 | 0.03 | 0.94 | 3 |
| GCE | 651 | 466338 | 3476073 | 466363 | 3476061 | 1933 | 2013 | 0.20 | -0.14 | 0.03 | 0.08 | 0.03 | 0.07 | 3 |
| GCE | 652 | 466312 | 3476033 | 466334 | 3476017 | 1933 | 2013 | 0.16 | -0.02 | 0.07 | 0.08 | 0.07 | 0.64 | 3 |
| GCE | 653 | 466281 | 3475994 | 466300 | 3475980 | 1933 | 2013 | 0.07 | -0.04 | 0.01 | 0.08 | 0.01 | 0.14 | 3 |
| GCE | 654 | 466242 | 3475964 | 466268 | 3475946 | 1933 | 2013 | 0.28 | -0.08 | 0.09 | 0.08 | 0.09 | 0.44 | 3 |
| GCE | 655 | 466202 | 3475933 | 466243 | 3475920 | 1933 | 2013 | 0.54 | -0.17 | 0.18 | 0.08 | 0.18 | 0.43 | 3 |
| GCE | 656 | 466185 | 3475888 | 466224 | 3475892 | 1933 | 2013 | 0.44 | -0.22 | 0.10 | 0.08 | 0.10 | 0.21 | 3 |
| GCE | 657 | 466212 | 3475848 | 466233 | 3475866 | 1933 | 2013 | 0.16 | -0.12 | 0.02 | 0.08 | 0.02 | 0.06 | 3 |
| GCE | 658 | 466258 | 3475830 | 466271 | 3475853 | 1933 | 2013 | 0.00 | -0.08 | -0.04 | 0.08 | -0.04 | 0.78 | 3 |
| GCE | 659 | 466307 | 3475819 | 466315 | 3475851 | 1933 | 2013 | 0.26 | -0.31 | -0.03 | 0.08 | -0.03 | 0.04 | 3 |
| GCE | 660 | 466356 | 3475813 | 466365 | 3475846 | 1933 | 2013 | 0.32 | -0.35 | -0.02 | 0.08 | -0.02 | 0.01 | 3 |
| GCE | 661 | 466405 | 3475804 | 466416 | 3475831 | 1933 | 2013 | 0.42 | -0.24 | 0.08 | 0.08 | 0.08 | 0.15 | 3 |
| GCE | 662 | 466437 | 3475766 | 466462 | 3475794 | 1933 | 2013 | 0.44 | -0.25 | 0.09 | 0.08 | 0.09 | 0.16 | 3 |
| GCE | 663 | 466455 | 3475720 | 466497 | 3475752 | 1933 | 2013 | 0.84 | -0.18 | 0.32 | 0.08 | 0.32 | 0.53 | 3 |
| GCE | 664 | 466460 | 3475675 | 466509 | 3475694 | 1933 | 2013 | 0.69 | -0.37 | 0.15 | 0.08 | 0.14 | 0.18 | 3 |
| GCE | 665 | 466469 | 3475627 | 466505 | 3475631 | 1933 | 2013 | 0.39 | -0.38 | 0.00 | 0.08 | 0.00 | 0.00 | 3 |
| GCE | 666 | 466476 | 3475580 | 466521 | 3475569 | 1933 | 2013 | 0.64 | -0.39 | 0.11 | 0.08 | 0.11 | 0.12 | 3 |
| GCE | 667 | 466476 | 3475530 | 466510 | 3475519 | 1933 | 2013 | 0.39 | -0.27 | 0.05 | 0.08 | 0.05 | 0.06 | 3 |
| GCE | 668 | 466453 | 3475487 | 466480 | 3475481 | 1933 | 2013 | 0.12 | -0.08 | 0.02 | 0.08 | 0.02 | 0.07 | 3 |
| GCE | 669 | 466422 | 3475449 | 466452 | 3475448 | 1933 | 2013 | 0.19 | 0.00 | 0.09 | 0.08 | 0.09 | 0.72 | 3 |
| GCE | 670 | 466414 | 3475402 | 466457 | 3475431 | 1933 | 2013 | 0.65 | -0.06 | 0.29 | 0.08 | 0.28 | 0.66 | 3 |
| GCE | 671 | 466450 | 3475370 | 466474 | 3475432 | 1933 | 2013 | 0.52 | 0.60 | 0.56 | 0.08 | 0.56 | 1.00 | 3 |
| GCE | 672 | 466493 | 3475387 | 466491 | 3475434 | 1933 | 2013 | 0.58 | 0.09 | 0.33 | 0.08 | 0.33 | 0.84 | 3 |
| GCE | 673 | 466537 | 3475410 | 466527 | 3475443 | 1933 | 2013 | 0.32 | 0.02 | 0.17 | 0.08 | 0.17 | 0.79 | 3 |
| GCE | 674 | 466579 | 3475436 | 466571 | 3475456 | 1933 | 2013 | 0.05 | -0.02 | 0.01 | 0.08 | 0.01 | 0.34 | 3 |
| GCE | 675 | 466626 | 3475453 | 466613 | 3475482 | 1933 | 2013 | -0.02 | -0.27 | -0.14 | 0.08 | -0.15 | 0.80 | 3 |
| GCE | 676 | 466673 | 3475468 | 466660 | 3475497 | 1933 | 2013 | 0.12 | -0.30 | -0.09 | 0.08 | -0.09 | 0.37 | 3 |
| GCE | 677 | 466722 | 3475479 | 466712 | 3475510 | 1933 | 2013 | 0.09 | -0.30 | -0.11 | 0.08 | -0.11 | 0.50 | 3 |
| GCE | 678 | 466772 | 3475487 | 466766 | 3475524 | 1933 | 2013 | 0.11 | -0.43 | -0.17 | 0.08 | -0.17 | 0.55 | 3 |
| GCE | 679 | 466821 | 3475491 | 466825 | 3475525 | 1933 | 2013 | 0.08 | -0.36 | -0.15 | 0.08 | -0.15 | 0.58 | 3 |
| GCE | 680 | 466871 | 3475490 | 466880 | 3475517 | 1933 | 2013 | 0.06 | -0.20 | -0.07 | 0.08 | -0.07 | 0.49 | 3 |
| GCE | 681 | 466919 | 3475475 | 466932 | 3475494 | 1933 | 2013 | -0.01 | -0.08 | -0.04 | 0.08 | -0.05 | 0.81 | 3 |
| GCE | 682 | 466956 | 3475442 | 466978 | 3475459 | 1933 | 2013 | 0.01 | -0.20 | -0.10 | 0.08 | -0.10 | 0.73 | 3 |
| GCE | 683 | 466984 | 3475401 | 467009 | 3475413 | 1933 | 2013 | 0.02 | -0.19 | -0.09 | 0.08 | -0.09 | 0.69 | 3 |
| GCE | 684 | 466998 | 3475353 | 467025 | 3475362 | 1933 | 2013 | 0.06 | -0.18 | -0.06 | 0.08 | -0.06 | 0.45 | 3 |
| GCE | 685 | 467001 | 3475303 | 467030 | 3475307 | 1933 | 2013 | 0.23 | -0.19 | 0.02 | 0.08 | 0.01 | 0.01 | 3 |
| GCE | 686 | 466999 | 3475253 | 467036 | 3475258 | 1933 | 2013 | 0.43 | -0.10 | 0.16 | 0.08 | 0.16 | 0.52 | 3 |
| GCE | 687 | 466997 | 3475204 | 467037 | 3475207 | 1933 | 2013 | 0.50 | -0.02 | 0.24 | 0.08 | 0.23 | 0.71 | 3 |
| GCE | 688 | 466988 | 3475155 | 467042 | 3475164 | 1933 | 2013 | 0.67 | 0.20 | 0.43 | 0.08 | 0.43 | 0.91 | 3 |
| GCE | 689 | 466987 | 3475106 | 467047 | 3475129 | 1933 | 2013 | 0.80 | 0.28 | 0.53 | 0.08 | 0.53 | 0.93 | 3 |
| GCE | 690 | 466995 | 3475057 | 467045 | 3475104 | 1933 | 2013 | 0.77 | 0.34 | 0.55 | 0.08 | 0.55 | 0.95 | 3 |
| GCE | 691 | 466961 | 3474896 | 466950 | 3474823 | 1933 | 2013 | 0.22 | -0.38 | -0.09 | 0.08 | -0.09 | 0.21 | 3 |
| GCE | 692 | 466924 | 3474864 | 466926 | 3474832 | 1933 | 2013 | 0.13 | -0.21 | -0.04 | 0.08 | -0.05 | 0.17 | 3 |
| GCE | 693 | 466880 | 3474839 | 466888 | 3474810 | 1933 | 2013 | 0.21 | -0.20 | 0.00 | 0.08 | 0.00 | 0.00 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 694 | 466836 | 3474817 | 466848 | 3474787 | 1933 | 2013 | 0.31 | -0.17 | 0.07 | 0.08 | 0.06 | 0.18 | 3 |
| GCE | 695 | 466791 | 3474794 | 466803 | 3474766 | 1933 | 2013 | 0.27 | -0.01 | 0.13 | 0.08 | 0.13 | 0.72 | 3 |
| GCE | 696 | 466744 | 3474778 | 466753 | 3474750 | 1933 | 2013 | 0.23 | -0.02 | 0.11 | 0.08 | 0.11 | 0.68 | 3 |
| GCE | 697 | 466696 | 3474764 | 466709 | 3474728 | 1933 | 2013 | 0.46 | 0.00 | 0.22 | 0.08 | 0.22 | 0.73 | 3 |
| GCE | 698 | 466648 | 3474752 | 466661 | 3474715 | 1933 | 2013 | 0.50 | -0.06 | 0.21 | 0.08 | 0.21 | 0.62 | 3 |
| GCE | 699 | 466600 | 3474736 | 466612 | 3474704 | 1933 | 2013 | 0.36 | 0.00 | 0.18 | 0.08 | 0.18 | 0.75 | 3 |
| GCE | 700 | 466554 | 3474719 | 466565 | 3474688 | 1933 | 2013 | 0.33 | -0.14 | 0.09 | 0.08 | 0.09 | 0.31 | 3 |
| GCE | 701 | 466508 | 3474698 | 466521 | 3474669 | 1933 | 2013 | 0.29 | -0.04 | 0.12 | 0.08 | 0.12 | 0.60 | 3 |
| GCE | 702 | 466463 | 3474678 | 466475 | 3474650 | 1933 | 2013 | 0.27 | -0.05 | 0.10 | 0.08 | 0.10 | 0.56 | 3 |
| GCE | 703 | 466419 | 3474654 | 466430 | 3474625 | 1933 | 2013 | 0.30 | -0.12 | 0.09 | 0.08 | 0.08 | 0.32 | 3 |
| GCE | 704 | 466375 | 3474631 | 466383 | 3474606 | 1933 | 2013 | 0.07 | -0.14 | -0.04 | 0.08 | -0.04 | 0.31 | 3 |
| GCE | 705 | 466328 | 3474614 | 466334 | 3474587 | 1933 | 2013 | 0.15 | -0.18 | -0.02 | 0.08 | -0.02 | 0.05 | 3 |
| GCE | 706 | 466279 | 3474604 | 466279 | 3474575 | 1933 | 2013 | 0.23 | -0.22 | 0.00 | 0.08 | 0.00 | 0.00 | 3 |
| GCE | 707 | 466229 | 3474606 | 466223 | 3474576 | 1933 | 2013 | 0.26 | -0.11 | 0.07 | 0.08 | 0.07 | 0.29 | 3 |
| GCE | 708 | 466182 | 3474623 | 466171 | 3474599 | 1933 | 2013 | 0.16 | 0.00 | 0.08 | 0.08 | 0.08 | 0.76 | 3 |
| GCE | 709 | 466148 | 3474658 | 466124 | 3474631 | 1933 | 2013 | 0.28 | 0.12 | 0.20 | 0.08 | 0.20 | 0.95 | 3 |
| GCE | 710 | 466124 | 3474701 | 466085 | 3474668 | 1933 | 2013 | 0.56 | 0.21 | 0.38 | 0.08 | 0.38 | 0.93 | 3 |
| GCE | 711 | 466104 | 3474746 | 466064 | 3474712 | 1933 | 2013 | 0.56 | 0.23 | 0.39 | 0.08 | 0.39 | 0.95 | 3 |
| GCE | 712 | 466081 | 3474790 | 466037 | 3474753 | 1933 | 2013 | NA | 0.20 | NA | 0.15 | 0.20 | 0.00 | 3 |
| GCE | 713 | 466005 | 3474852 | 465967 | 3474812 | 1933 | 2013 | 0.89 | -0.16 | 0.36 | 0.08 | 0.35 | 0.57 | 3 |
| GCE | 714 | 465968 | 3474885 | 465894 | 3474840 | 1933 | 2013 | 1.63 | -0.02 | 0.78 | 0.08 | 0.78 | 0.73 | 3 |
| GCE | 715 | 465946 | 3474930 | 465851 | 3474907 | 1933 | 2013 | 1.99 | -0.06 | 0.94 | 0.08 | 0.93 | 0.71 | 3 |
| GCE | 716 | 465930 | 3474977 | 465840 | 3474985 | 1933 | 2013 | 1.51 | 0.27 | 0.88 | 0.08 | 0.87 | 0.86 | 3 |
| GCE | 717 | 465922 | 3475025 | 465868 | 3475032 | 1933 | 2013 | 0.41 | 0.43 | 0.42 | 0.08 | 0.42 | 1.00 | 3 |
| GCE | 718 | 465922 | 3475074 | 465884 | 3475071 | 1933 | 2013 | 0.13 | 0.20 | 0.16 | 0.08 | 0.16 | 0.99 | 3 |
| GCE | 719 | 465905 | 3475120 | 465888 | 3475103 | 1933 | 2013 | 0.10 | -0.05 | 0.02 | 0.08 | 0.02 | 0.18 | 3 |
| GCE | 720 | 465862 | 3475145 | 465861 | 3475100 | 1933 | 2013 | 0.36 | 0.19 | 0.28 | 0.08 | 0.28 | 0.97 | 3 |
| GCE | 721 | 465825 | 3475120 | 465832 | 3475080 | 1933 | 2013 | 0.37 | 0.06 | 0.21 | 0.08 | 0.21 | 0.84 | 3 |
| GCE | 722 | 465789 | 3475086 | 465801 | 3475048 | 1933 | 2013 | 0.42 | -0.18 | 0.11 | 0.08 | 0.11 | 0.28 | 3 |
| GCE | 723 | 465749 | 3475056 | 465752 | 3475020 | 1933 | 2013 | 0.36 | -0.30 | 0.02 | 0.08 | 0.02 | 0.01 | 3 |
| GCE | 724 | 465700 | 3475054 | 465688 | 3475024 | 1933 | 2013 | 0.32 | -0.16 | 0.08 | 0.08 | 0.07 | 0.21 | 3 |
| GCE | 725 | 465663 | 3475086 | 465639 | 3475063 | 1933 | 2013 | 0.26 | 0.04 | 0.15 | 0.08 | 0.15 | 0.85 | 3 |
| GCE | 726 | 465650 | 3475132 | 465615 | 3475103 | 1933 | 2013 | 0.20 | 0.28 | 0.24 | 0.08 | 0.24 | 0.99 | 3 |
| GCE | 727 | 465654 | 3475181 | 465624 | 3475156 | 1933 | 2013 | 0.01 | 0.17 | 0.09 | 0.08 | 0.09 | 0.79 | 3 |
| GCE | 728 | 465644 | 3475229 | 465610 | 3475175 | 1933 | 2013 | 0.74 | 0.31 | 0.52 | 0.08 | 0.52 | 0.95 | 3 |
| GCE | 729 | 465604 | 3475254 | 465594 | 3475175 | 1933 | 2013 | 1.16 | 0.32 | 0.73 | 0.08 | 0.73 | 0.90 | 3 |
| GCE | 730 | 465561 | 3475232 | 465575 | 3475171 | 1933 | 2013 | 0.91 | 0.01 | 0.45 | 0.08 | 0.45 | 0.75 | 3 |
| GCE | 731 | 465526 | 3475196 | 465540 | 3475163 | 1933 | 2013 | 0.39 | -0.18 | 0.10 | 0.08 | 0.10 | 0.26 | 3 |
| GCE | 732 | 465489 | 3475162 | 465507 | 3475136 | 1933 | 2013 | 0.31 | -0.12 | 0.09 | 0.08 | 0.09 | 0.33 | 3 |
| GCE | 733 | 465444 | 3475142 | 465472 | 3475114 | 1933 | 2013 | 0.48 | -0.23 | 0.12 | 0.08 | 0.12 | 0.24 | 3 |
| GCE | 734 | 465407 | 3475111 | 465437 | 3475082 | 1933 | 2013 | 0.51 | -0.13 | 0.18 | 0.08 | 0.18 | 0.48 | 3 |
| GCE | 735 | 465389 | 3475064 | 465415 | 3475040 | 1933 | 2013 | 0.35 | -0.20 | 0.07 | 0.08 | 0.07 | 0.15 | 3 |
| GCE | 736 | 465362 | 3475023 | 465383 | 3475004 | 1933 | 2013 | 0.20 | -0.15 | 0.02 | 0.08 | 0.02 | 0.03 | 3 |
| GCE | 737 | 465323 | 3474992 | 465347 | 3474975 | 1933 | 2013 | 0.23 | -0.19 | 0.01 | 0.08 | 0.01 | 0.01 | 3 |
| GCE | 738 | 465283 | 3474962 | 465305 | 3474944 | 1933 | 2013 | 0.20 | 0.00 | 0.10 | 0.08 | 0.10 | 0.73 | 3 |
| GCE | 739 | 465214 | 3474891 | 465227 | 3474857 | 1933 | 2013 | 0.29 | 0.06 | 0.17 | 0.08 | 0.17 | 0.86 | 3 |
| GCE | 740 | 465172 | 3474886 | 465159 | 3474862 | 1933 | 2013 | 0.08 | -0.14 | -0.03 | 0.08 | -0.03 | 0.23 | 3 |
| GCE | 741 | 465163 | 3474935 | 465131 | 3474915 | 1933 | 2013 | 0.00 | -0.39 | -0.20 | 0.08 | -0.20 | 0.77 | 3 |
| GCE | 742 | 465147 | 3474982 | 465116 | 3474965 | 1933 | 2013 | 0.34 | 0.06 | 0.19 | 0.08 | 0.19 | 0.85 | 3 |
| GCE | 743 | 465139 | 3475030 | 465111 | 3475015 | 1933 | 2013 | -0.28 | 0.02 | -0.13 | 0.08 | -0.13 | 0.68 | 3 |
| GCE | 744 | 465105 | 3475066 | 465077 | 3475036 | 1933 | 2013 | 0.37 | 0.04 | 0.20 | 0.08 | 0.20 | 0.81 | 3 |
| GCE | 745 | 465057 | 3475073 | 465042 | 3475046 | 1933 | 2013 | 0.05 | 0.12 | 0.08 | 0.08 | 0.08 | 0.94 | 3 |
| GCE | 746 | 465010 | 3475083 | 464997 | 3475050 | 1933 | 2013 | -0.18 | -0.17 | -0.18 | 0.08 | -0.18 | 1.00 | 3 |
| GCE | 747 | 464962 | 3475094 | 464954 | 3475064 | 1933 | 2013 | 0.12 | -0.25 | -0.07 | 0.08 | -0.07 | 0.30 | 3 |
| GCE | 748 | 464916 | 3475114 | 464912 | 3475083 | 1933 | 2013 | -0.01 | -0.24 | -0.13 | 0.08 | -0.13 | 0.78 | 3 |
| GCE | 749 | 464867 | 3475122 | 464870 | 3475094 | 1933 | 2013 | 0.18 | -0.11 | 0.04 | 0.08 | 0.03 | 0.15 | 3 |
| GCE | 750 | 464822 | 3475914 | 464820 | 3475883 | 1933 | 2013 | -0.04 | -0.21 | -0.12 | 0.08 | -0.12 | 0.87 | 3 |
| GCE | 751 | 464871 | 3475909 | 464864 | 3475866 | 1933 | 2013 | -0.16 | -0.41 | -0.29 | 0.08 | -0.29 | 0.94 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 752 | 464918 | 3475892 | 464904 | 3475849 | 1933 | 2013 | -0.37 | -0.26 | -0.31 | 0.08 | -0.31 | 0.99 | 3 |
| GCE | 753 | 464964 | 3475874 | 464950 | 3475832 | 1933 | 2013 | -0.41 | -0.21 | -0.31 | 0.08 | -0.31 | 0.97 | 3 |
| GCE | 754 | 465010 | 3475854 | 465003 | 3475815 | 1933 | 2013 | -0.22 | -0.24 | -0.23 | 0.08 | -0.23 | 1.00 | 3 |
| GCE | 755 | 465058 | 3475843 | 465055 | 3475805 | 1933 | 2013 | -0.22 | -0.23 | -0.23 | 0.08 | -0.23 | 1.00 | 3 |
| GCE | 756 | 465108 | 3475837 | 465105 | 3475806 | 1933 | 2013 | -0.15 | -0.13 | -0.14 | 0.08 | -0.14 | 1.00 | 3 |
| GCE | 757 | 465158 | 3475833 | 465157 | 3475810 | 1933 | 2013 | -0.02 | -0.07 | -0.05 | 0.08 | -0.05 | 0.89 | 3 |
| GCE | 758 | 465207 | 3475841 | 465209 | 3475811 | 1933 | 2013 | 0.27 | -0.02 | 0.12 | 0.08 | 0.12 | 0.67 | 3 |
| GCE | 759 | 465255 | 3475855 | 465263 | 3475821 | 1933 | 2013 | 0.27 | -0.36 | -0.05 | 0.08 | -0.05 | 0.08 | 3 |
| GCE | 760 | 465302 | 3475872 | 465313 | 3475844 | 1933 | 2013 | 0.03 | -0.24 | -0.11 | 0.08 | -0.11 | 0.66 | 3 |
| GCE | 761 | 465342 | 3475902 | 465358 | 3475875 | 1933 | 2013 | -0.16 | -0.11 | -0.13 | 0.08 | -0.13 | 0.99 | 3 |
| GCE | 762 | 465381 | 3475933 | 465399 | 3475915 | 1933 | 2013 | -0.02 | -0.12 | -0.07 | 0.08 | -0.07 | 0.86 | 3 |
| GCE | 763 | 465408 | 3475974 | 465438 | 3475949 | 1933 | 2013 | 0.46 | -0.23 | 0.10 | 0.08 | 0.10 | 0.21 | 3 |
| GCE | 764 | 465462 | 3476054 | 465501 | 3476035 | 1933 | 2013 | 0.57 | -0.05 | 0.25 | 0.08 | 0.25 | 0.66 | 3 |
| GCE | 765 | 465468 | 3476103 | 465523 | 3476087 | 1933 | 2013 | 0.84 | 0.10 | 0.46 | 0.08 | 0.46 | 0.82 | 3 |
| GCE | 766 | 465484 | 3476199 | 465534 | 3476192 | 1933 | 2013 | 0.55 | 0.23 | 0.38 | 0.08 | 0.38 | 0.95 | 3 |
| GCE | 767 | 465484 | 3476248 | 465536 | 3476239 | 1933 | 2013 | 0.55 | 0.26 | 0.40 | 0.08 | 0.40 | 0.96 | 3 |
| GCE | 768 | 465491 | 3476297 | 465536 | 3476281 | 1933 | 2013 | 0.49 | 0.21 | 0.35 | 0.08 | 0.35 | 0.95 | 3 |
| GCE | 769 | 465509 | 3476343 | 465552 | 3476314 | 1933 | 2013 | 0.50 | 0.27 | 0.38 | 0.08 | 0.38 | 0.97 | 3 |
| GCE | 770 | 465535 | 3476383 | 465576 | 3476339 | 1933 | 2013 | 0.58 | 0.41 | 0.49 | 0.08 | 0.49 | 0.99 | 3 |
| GCE | 771 | 465576 | 3476412 | 465610 | 3476355 | 1933 | 2013 | 0.71 | 0.44 | 0.57 | 0.08 | 0.57 | 0.98 | 3 |
| GCE | 772 | 465621 | 3476432 | 465648 | 3476371 | 1933 | 2013 | 0.72 | 0.45 | 0.58 | 0.08 | 0.58 | 0.98 | 3 |
| GCE | 773 | 465670 | 3476439 | 465690 | 3476382 | 1933 | 2013 | 0.78 | 0.23 | 0.50 | 0.08 | 0.50 | 0.91 | 3 |
| GCE | 774 | 465720 | 3476445 | 465738 | 3476386 | 1933 | 2013 | 1.01 | 0.07 | 0.53 | 0.08 | 0.52 | 0.79 | 3 |
| GCE | 775 | 465769 | 3476452 | 465783 | 3476397 | 1933 | 2013 | 0.93 | -0.08 | 0.41 | 0.08 | 0.41 | 0.67 | 3 |
| GCE | 776 | 465819 | 3476458 | 465833 | 3476404 | 1933 | 2013 | 0.90 | -0.10 | 0.39 | 0.08 | 0.38 | 0.64 | 3 |
| GCE | 777 | 465867 | 3476470 | 465879 | 3476417 | 1933 | 2013 | 0.86 | -0.15 | 0.34 | 0.08 | 0.34 | 0.58 | 3 |
| GCE | 778 | 465915 | 3476485 | 465929 | 3476423 | 1933 | 2013 | 1.09 | -0.28 | 0.39 | 0.08 | 0.38 | 0.48 | 3 |
| GCE | 779 | 465964 | 3476493 | 465978 | 3476434 | 1933 | 2013 | 1.03 | -0.11 | 0.45 | 0.08 | 0.45 | 0.65 | 3 |
| GCE | 780 | 466013 | 3476506 | 466025 | 3476445 | 1933 | 2013 | 1.07 | -0.10 | 0.47 | 0.08 | 0.46 | 0.65 | 3 |
| GCE | 781 | 466061 | 3476517 | 466070 | 3476457 | 1933 | 2013 | 0.93 | 0.10 | 0.51 | 0.08 | 0.50 | 0.82 | 3 |
| GCE | 782 | 466110 | 3476525 | 466114 | 3476462 | 1933 | 2013 | 0.82 | 0.27 | 0.54 | 0.08 | 0.54 | 0.92 | 3 |
| GCE | 783 | 466160 | 3476529 | 466151 | 3476459 | 1933 | 2013 | 1.10 | 0.16 | 0.62 | 0.08 | 0.62 | 0.84 | 3 |
| GCE | 784 | 466210 | 3476525 | 466187 | 3476457 | 1933 | 2013 | 1.13 | 0.19 | 0.65 | 0.08 | 0.64 | 0.85 | 3 |
| GCE | 785 | 466257 | 3476511 | 466215 | 3476442 | 1933 | 2013 | 1.36 | 0.19 | 0.76 | 0.08 | 0.76 | 0.83 | 3 |
| GCE | 786 | 466288 | 3476472 | 466238 | 3476421 | 1933 | 2013 | 1.20 | 0.12 | 0.65 | 0.08 | 0.64 | 0.81 | 3 |
| GCE | 787 | 466315 | 3476430 | 466260 | 3476390 | 1933 | 2013 | 1.22 | -0.12 | 0.53 | 0.08 | 0.53 | 0.65 | 3 |
| GCE | 788 | 466335 | 3476385 | 466273 | 3476353 | 1933 | 2013 | 1.26 | -0.29 | 0.47 | 0.08 | 0.46 | 0.52 | 3 |
| GCE | 789 | 466345 | 3476336 | 466291 | 3476318 | 1933 | 2013 | 0.93 | -0.41 | 0.24 | 0.08 | 0.24 | 0.28 | 3 |
| GCE | 790 | 466346 | 3476286 | 466301 | 3476278 | 1933 | 2013 | 0.64 | -0.18 | 0.22 | 0.08 | 0.22 | 0.46 | 3 |
| GCE | 791 | 466344 | 3476236 | 466304 | 3476238 | 1933 | 2013 | 0.46 | 0.05 | 0.25 | 0.08 | 0.25 | 0.81 | 3 |
| GCE | 792 | 466341 | 3476186 | 466301 | 3476197 | 1933 | 2013 | 0.16 | 0.37 | 0.27 | 0.08 | 0.27 | 0.95 | 3 |
| GCE | 793 | 466327 | 3476138 | 466286 | 3476159 | 1933 | 2013 | 0.24 | 0.41 | 0.33 | 0.08 | 0.33 | 0.98 | 3 |
| GCE | 794 | 466293 | 3476102 | 466260 | 3476126 | 1933 | 2013 | 0.26 | 0.23 | 0.25 | 0.08 | 0.25 | 1.00 | 3 |
| GCE | 795 | 466250 | 3476077 | 466230 | 3476096 | 1933 | 2013 | 0.17 | 0.01 | 0.09 | 0.08 | 0.09 | 0.79 | 3 |
| GCE | 796 | 466211 | 3476046 | 466193 | 3476063 | 1933 | 2013 | 0.08 | 0.03 | 0.05 | 0.08 | 0.05 | 0.92 | 3 |
| GCE | 797 | 466174 | 3476012 | 466159 | 3476028 | 1933 | 2013 | -0.02 | -0.03 | -0.02 | 0.08 | -0.02 | 0.98 | 3 |
| GCE | 798 | 466148 | 3475970 | 466130 | 3475985 | 1933 | 2013 | -0.08 | 0.02 | -0.03 | 0.08 | -0.03 | 0.54 | 3 |
| GCE | 799 | 466129 | 3475925 | 466099 | 3475943 | 1933 | 2013 | -0.21 | -0.16 | -0.18 | 0.08 | -0.18 | 0.99 | 3 |
| GCE | 800 | 466121 | 3475876 | 466094 | 3475883 | 1933 | 2013 | -0.19 | 0.00 | -0.09 | 0.08 | -0.09 | 0.74 | 3 |
| GCE | 801 | 466129 | 3475827 | 466098 | 3475824 | 1933 | 2013 | -0.21 | -0.05 | -0.13 | 0.08 | -0.13 | 0.88 | 3 |
| GCE | 802 | 466148 | 3475781 | 466123 | 3475771 | 1933 | 2013 | -0.16 | 0.02 | -0.07 | 0.08 | -0.07 | 0.64 | 3 |
| GCE | 803 | 466172 | 3475737 | 466150 | 3475722 | 1933 | 2013 | -0.02 | -0.14 | -0.08 | 0.08 | -0.08 | 0.84 | 3 |
| GCE | 804 | 466201 | 3475697 | 466180 | 3475669 | 1933 | 2013 | 0.08 | -0.34 | -0.13 | 0.08 | -0.13 | 0.55 | 3 |
| GCE | 805 | 466241 | 3475667 | 466223 | 3475640 | 1933 | 2013 | 0.33 | -0.25 | 0.03 | 0.08 | 0.03 | 0.03 | 3 |
| GCE | 806 | 466286 | 3475647 | 466255 | 3475618 | 1933 | 2013 | 0.35 | -0.50 | -0.09 | 0.08 | -0.09 | 0.12 | 3 |
| GCE | 807 | 466334 | 3475634 | 466299 | 3475614 | 1933 | 2013 | 0.28 | -0.06 | 0.11 | 0.08 | 0.10 | 0.54 | 3 |
| GCE | 808 | 466353 | 3475598 | 466298 | 3475593 | 1933 | 2013 | -0.32 | -0.23 | -0.27 | 0.08 | -0.27 | 0.99 | 3 |
| GCE | 809 | 466320 | 3475561 | 466276 | 3475566 | 1933 | 2013 | -0.16 | -0.40 | -0.28 | 0.08 | -0.28 | 0.94 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 810 | 466304 | 3475514 | 466251 | 3475522 | 1933 | 2013 | -0.27 | -0.57 | -0.42 | 0.08 | -0.42 | 0.96 | 3 |
| GCE | 811 | 466295 | 3475466 | 466249 | 3475471 | 1933 | 2013 | 0.06 | -0.61 | -0.28 | 0.08 | -0.29 | 0.68 | 3 |
| GCE | 812 | 466317 | 3475422 | 466274 | 3475410 | 1933 | 2013 | 0.52 | -0.56 | -0.03 | 0.08 | -0.04 | 0.01 | 3 |
| GCE | 813 | 466350 | 3475385 | 466283 | 3475326 | 1933 | 2013 | 1.75 | -0.52 | 0.59 | 0.08 | 0.58 | 0.44 | 3 |
| GCE | 814 | 466424 | 3475331 | 466423 | 3475251 | 1933 | 2013 | 0.68 | 0.83 | 0.76 | 0.08 | 0.76 | 1.00 | 3 |
| GCE | 815 | 466473 | 3475340 | 466494 | 3475263 | 1933 | 2013 | 0.55 | 0.91 | 0.74 | 0.08 | 0.74 | 0.98 | 3 |
| GCE | 816 | 466517 | 3475363 | 466551 | 3475291 | 1933 | 2013 | 0.43 | 1.01 | 0.73 | 0.08 | 0.73 | 0.95 | 3 |
| GCE | 817 | 466559 | 3475390 | 466598 | 3475313 | 1933 | 2013 | 0.65 | 0.99 | 0.82 | 0.08 | 0.82 | 0.99 | 3 |
| GCE | 818 | 466601 | 3475417 | 466644 | 3475339 | 1933 | 2013 | NA | NA | 0.87 | 0.08 | 0.87 | 0.00 | 3 |
| GCE | 819 | 466645 | 3475441 | 466688 | 3475361 | 1933 | 2013 | 1.65 | 0.14 | 0.88 | 0.08 | 0.87 | 0.80 | 3 |
| GCE | 820 | 466691 | 3475460 | 466733 | 3475379 | 1933 | 2013 | 1.76 | 0.08 | 0.90 | 0.08 | 0.89 | 0.77 | 3 |
| GCE | 821 | 466738 | 3475474 | 466767 | 3475404 | 1933 | 2013 | 1.24 | 0.16 | 0.69 | 0.08 | 0.68 | 0.83 | 3 |
| GCE | 822 | 466788 | 3475483 | 466802 | 3475421 | 1933 | 2013 | 1.05 | 0.07 | 0.54 | 0.08 | 0.54 | 0.79 | 3 |
| GCE | 823 | 466837 | 3475486 | 466837 | 3475426 | 1933 | 2013 | 0.91 | 0.12 | 0.51 | 0.08 | 0.50 | 0.83 | 3 |
| GCE | 824 | 466886 | 3475476 | 466867 | 3475420 | 1933 | 2013 | 0.79 | 0.20 | 0.49 | 0.08 | 0.48 | 0.89 | 3 |
| GCE | 825 | 466930 | 3475453 | 466896 | 3475405 | 1933 | 2013 | 0.66 | 0.27 | 0.46 | 0.08 | 0.46 | 0.94 | 3 |
| GCE | 826 | 466961 | 3475415 | 466921 | 3475385 | 1933 | 2013 | 0.38 | 0.36 | 0.37 | 0.08 | 0.37 | 1.00 | 3 |
| GCE | 827 | 466978 | 3475368 | 466941 | 3475353 | 1933 | 2013 | 0.24 | 0.26 | 0.25 | 0.08 | 0.25 | 1.00 | 3 |
| GCE | 828 | 466981 | 3475318 | 466948 | 3475313 | 1933 | 2013 | 0.30 | 0.04 | 0.17 | 0.08 | 0.17 | 0.84 | 3 |
| GCE | 829 | 466975 | 3475269 | 466949 | 3475266 | 1933 | 2013 | 0.13 | -0.11 | 0.01 | 0.08 | 0.01 | 0.01 | 3 |
| GCE | 830 | 466970 | 3475219 | 466942 | 3475219 | 1933 | 2013 | -0.07 | -0.12 | -0.09 | 0.08 | -0.09 | 0.98 | 3 |
| GCE | 831 | 466966 | 3475169 | 466937 | 3475170 | 1933 | 2013 | -0.01 | -0.20 | -0.10 | 0.08 | -0.11 | 0.78 | 3 |
| GCE | 832 | 466965 | 3475120 | 466935 | 3475119 | 1933 | 2013 | 0.04 | -0.24 | -0.10 | 0.08 | -0.10 | 0.62 | 3 |
| GCE | 833 | 466969 | 3475070 | 466936 | 3475070 | 1933 | 2013 | 0.15 | -0.31 | -0.08 | 0.08 | -0.08 | 0.29 | 3 |
| GCE | 834 | 466986 | 3475023 | 466941 | 3475034 | 1933 | 2013 | 0.51 | -0.53 | -0.02 | 0.08 | -0.03 | 0.01 | 3 |
| GCE | 835 | 466915 | 3474905 | 466886 | 3474938 | 1933 | 2013 | 0.48 | 0.12 | 0.30 | 0.08 | 0.29 | 0.88 | 3 |
| GCE | 836 | 466873 | 3474879 | 466853 | 3474913 | 1933 | 2013 | 0.32 | 0.17 | 0.24 | 0.08 | 0.24 | 0.97 | 3 |
| GCE | 837 | 466828 | 3474856 | 466812 | 3474890 | 1933 | 2013 | 0.22 | 0.23 | 0.23 | 0.08 | 0.23 | 1.00 | 3 |
| GCE | 838 | 466783 | 3474835 | 466770 | 3474873 | 1933 | 2013 | 0.24 | 0.26 | 0.25 | 0.08 | 0.25 | 1.00 | 3 |
| GCE | 839 | 466735 | 3474823 | 466724 | 3474860 | 1933 | 2013 | 0.31 | 0.16 | 0.23 | 0.08 | 0.23 | 0.97 | 3 |
| GCE | 840 | 466688 | 3474808 | 466679 | 3474846 | 1933 | 2013 | 0.29 | 0.17 | 0.23 | 0.08 | 0.23 | 0.98 | 3 |
| GCE | 841 | 466641 | 3474794 | 466629 | 3474836 | 1933 | 2013 | 0.40 | 0.18 | 0.29 | 0.08 | 0.29 | 0.95 | 3 |
| GCE | 842 | 466593 | 3474782 | 466584 | 3474815 | 1933 | 2013 | 0.22 | 0.12 | 0.17 | 0.08 | 0.17 | 0.97 | 3 |
| GCE | 843 | 466546 | 3474763 | 466534 | 3474806 | 1933 | 2013 | 0.54 | 0.08 | 0.30 | 0.08 | 0.30 | 0.84 | 3 |
| GCE | 844 | 466502 | 3474740 | 466487 | 3474790 | 1933 | 2013 | 0.62 | 0.17 | 0.39 | 0.08 | 0.39 | 0.90 | 3 |
| GCE | 845 | 466457 | 3474718 | 466440 | 3474771 | 1933 | 2013 | 0.71 | 0.19 | 0.45 | 0.08 | 0.44 | 0.90 | 3 |
| GCE | 846 | 466414 | 3474692 | 466392 | 3474753 | 1933 | 2013 | 0.89 | 0.24 | 0.55 | 0.08 | 0.55 | 0.90 | 3 |
| GCE | 847 | 466374 | 3474663 | 466343 | 3474732 | 1933 | 2013 | 1.18 | 0.20 | 0.68 | 0.08 | 0.68 | 0.85 | 3 |
| GCE | 848 | 466331 | 3474637 | 466302 | 3474713 | 1933 | 2013 | 1.18 | 0.35 | 0.76 | 0.08 | 0.75 | 0.91 | 3 |
| GCE | 849 | 466285 | 3474618 | 466271 | 3474701 | 1933 | 2013 | 1.11 | 0.51 | 0.80 | 0.08 | 0.80 | 0.95 | 3 |
| GCE | 850 | 466236 | 3474616 | 466249 | 3474692 | 1933 | 2013 | 0.77 | 0.56 | 0.66 | 0.08 | 0.66 | 0.99 | 3 |
| GCE | 851 | 466194 | 3474642 | 466229 | 3474686 | 1933 | 2013 | 0.22 | 0.65 | 0.44 | 0.08 | 0.44 | 0.93 | 3 |
| GCE | 852 | 466169 | 3474685 | 466233 | 3474716 | 1933 | 2013 | 0.52 | 0.71 | 0.61 | 0.08 | 0.62 | 0.99 | 3 |
| GCE | 853 | 466151 | 3474732 | 466236 | 3474741 | 1933 | 2013 | NA | NA | 0.79 | 0.08 | 0.79 | 0.00 | 3 |
| GCE | 854 | 466129 | 3474777 | 466246 | 3474799 | 1933 | 2013 | NA | 0.31 | NA | 0.15 | 0.31 | 0.00 | 3 |
| GCE | 855 | 466097 | 3474815 | 466272 | 3474928 | 1933 | 2013 | 4.34 | 0.39 | 2.32 | 0.08 | 2.30 | 0.80 | 3 |
| GCE | 856 | 466057 | 3474844 | 466204 | 3475058 | 1933 | 2013 | 5.80 | 0.32 | 3.00 | 0.08 | 2.98 | 0.78 | 3 |
| GCE | 857 | 466012 | 3474865 | 466106 | 3475056 | 1933 | 2013 | 4.14 | 0.56 | 2.31 | 0.08 | 2.29 | 0.83 | 3 |
| GCE | 858 | 465978 | 3474902 | 466018 | 3474990 | 1933 | 2013 | 1.10 | 0.42 | 0.75 | 0.08 | 0.75 | 0.94 | 3 |
| GCE | 859 | 465956 | 3474946 | 465996 | 3474983 | 1933 | 2013 | 0.47 | 0.30 | 0.39 | 0.08 | 0.38 | 0.98 | 3 |
| GCE | 860 | 465948 | 3474996 | 465993 | 3475017 | 1933 | 2013 | 0.58 | 0.13 | 0.35 | 0.08 | 0.35 | 0.88 | 3 |
| GCE | 861 | 465943 | 3475045 | 465987 | 3475060 | 1933 | 2013 | 0.60 | 0.06 | 0.33 | 0.08 | 0.33 | 0.81 | 3 |
| GCE | 862 | 465935 | 3475094 | 465970 | 3475112 | 1933 | 2013 | 0.49 | -0.03 | 0.22 | 0.08 | 0.22 | 0.68 | 3 |
| GCE | 863 | 465910 | 3475137 | 465940 | 3475171 | 1933 | 2013 | 0.66 | -0.03 | 0.31 | 0.08 | 0.31 | 0.71 | 3 |
| GCE | 864 | 465819 | 3475142 | 465804 | 3475189 | 1933 | 2013 | 0.71 | -0.01 | 0.34 | 0.08 | 0.34 | 0.72 | 3 |
| GCE | 865 | 465792 | 3475102 | 465766 | 3475159 | 1933 | 2013 | 0.65 | 0.35 | 0.50 | 0.08 | 0.49 | 0.97 | 3 |
| GCE | 866 | 465759 | 3475066 | 465745 | 3475120 | 1933 | 2013 | 0.73 | 0.07 | 0.39 | 0.08 | 0.39 | 0.81 | 3 |
| GCE | 867 | 465715 | 3475053 | 465725 | 3475099 | 1933 | 2013 | 0.46 | 0.23 | 0.34 | 0.08 | 0.34 | 0.96 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 868 | 465680 | 3475086 | 465711 | 3475120 | 1933 | 2013 | 0.42 | 0.14 | 0.27 | 0.08 | 0.27 | 0.92 | 3 |
| GCE | 869 | 465670 | 3475135 | 465703 | 3475157 | 1933 | 2013 | 0.47 | -0.10 | 0.17 | 0.08 | 0.17 | 0.52 | 3 |
| GCE | 870 | 465661 | 3475184 | 465686 | 3475204 | 1933 | 2013 | 0.18 | -0.25 | -0.04 | 0.08 | -0.04 | 0.11 | 3 |
| GCE | 871 | 465637 | 3475226 | 465655 | 3475255 | 1933 | 2013 | 0.00 | -0.34 | -0.17 | 0.08 | -0.18 | 0.76 | 3 |
| GCE | 872 | 465590 | 3475241 | 465591 | 3475278 | 1933 | 2013 | -0.04 | -0.38 | -0.21 | 0.08 | -0.21 | 0.82 | 3 |
| GCE | 873 | 465548 | 3475216 | 465537 | 3475249 | 1933 | 2013 | 0.34 | -0.18 | 0.07 | 0.08 | 0.07 | 0.18 | 3 |
| GCE | 874 | 465514 | 3475180 | 465490 | 3475218 | 1933 | 2013 | 0.63 | -0.05 | 0.28 | 0.08 | 0.28 | 0.67 | 3 |
| GCE | 875 | 465475 | 3475150 | 465457 | 3475183 | 1933 | 2013 | 0.29 | 0.16 | 0.23 | 0.08 | 0.22 | 0.98 | 3 |
| GCE | 876 | 465411 | 3475102 | 465388 | 3475112 | 1933 | 2013 | 0.13 | -0.13 | 0.00 | 0.08 | -0.01 | 0.01 | 3 |
| GCE | 877 | 465392 | 3475056 | 465362 | 3475079 | 1933 | 2013 | 0.39 | -0.03 | 0.17 | 0.08 | 0.17 | 0.67 | 3 |
| GCE | 878 | 465362 | 3475016 | 465342 | 3475031 | 1933 | 2013 | -0.06 | 0.12 | 0.03 | 0.08 | 0.03 | 0.30 | 3 |
| GCE | 879 | 465324 | 3474984 | 465305 | 3475001 | 1933 | 2013 | -0.11 | 0.11 | 0.00 | 0.08 | 0.00 | 0.00 | 3 |
| GCE | 880 | 465284 | 3474954 | 465266 | 3474976 | 1933 | 2013 | -0.21 | 0.11 | -0.05 | 0.08 | -0.04 | 0.19 | 3 |
| GCE | 881 | 465252 | 3474916 | 465236 | 3474947 | 1933 | 2013 | -0.13 | -0.21 | -0.17 | 0.08 | -0.17 | 0.98 | 3 |
| GCE | 882 | 465218 | 3474880 | 465212 | 3474924 | 1933 | 2013 | -0.18 | -0.30 | -0.24 | 0.08 | -0.24 | 0.98 | 3 |
| GCE | 883 | 465175 | 3474880 | 465190 | 3474917 | 1933 | 2013 | 0.31 | -0.10 | 0.10 | 0.08 | 0.10 | 0.42 | 3 |
| GCE | 884 | 465156 | 3474924 | 465183 | 3474943 | 1933 | 2013 | 0.15 | 0.12 | 0.13 | 0.08 | 0.13 | 1.00 | 3 |
| GCE | 885 | 465145 | 3474970 | 465171 | 3474983 | 1933 | 2013 | -0.11 | -0.10 | -0.10 | 0.08 | -0.10 | 1.00 | 3 |
| GCE | 886 | 465134 | 3475018 | 465161 | 3475034 | 1933 | 2013 | 0.25 | -0.21 | 0.02 | 0.08 | 0.01 | 0.01 | 3 |
| GCE | 887 | 465109 | 3475054 | 465132 | 3475078 | 1933 | 2013 | -0.25 | -0.05 | -0.15 | 0.08 | -0.15 | 0.87 | 3 |
| GCE | 888 | 465059 | 3475059 | 465083 | 3475099 | 1933 | 2013 | -0.41 | -0.23 | -0.32 | 0.08 | -0.32 | 0.97 | 3 |
| GCE | 889 | 465021 | 3475079 | 465032 | 3475107 | 1933 | 2013 | 0.24 | -0.04 | 0.10 | 0.08 | 0.10 | 0.59 | 3 |
| GCE | 890 | 464972 | 3475086 | 464981 | 3475112 | 1933 | 2013 | 0.00 | 0.16 | 0.08 | 0.08 | 0.08 | 0.77 | 3 |
| GCE | 891 | 464927 | 3475107 | 464941 | 3475128 | 1933 | 2013 | 0.12 | -0.02 | 0.05 | 0.08 | 0.05 | 0.61 | 3 |
| GCE | 892 | 464881 | 3475125 | 464909 | 3475147 | 1933 | 2013 | 0.35 | -0.24 | 0.05 | 0.08 | 0.05 | 0.07 | 3 |
| GCE | 893 | 468394 | 3475883 | 468365 | 3475891 | 1933 | 2013 | -0.01 | -0.25 | -0.13 | 0.08 | -0.13 | 0.80 | 3 |
| GCE | 894 | 468374 | 3475838 | 468345 | 3475857 | 1933 | 2013 | -0.18 | -0.18 | -0.18 | 0.08 | -0.18 | 1.00 | 3 |
| GCE | 895 | 468298 | 3475775 | 468280 | 3475793 | 1933 | 2013 | 0.07 | -0.05 | 0.01 | 0.08 | 0.01 | 0.03 | 3 |
| GCE | 896 | 468253 | 3475753 | 468234 | 3475772 | 1933 | 2013 | 0.12 | -0.12 | 0.00 | 0.08 | 0.00 | 0.00 | 3 |
| GCE | 897 | 468198 | 3475679 | 468171 | 3475691 | 1933 | 2013 | 0.08 | -0.20 | -0.06 | 0.08 | -0.06 | 0.36 | 3 |
| GCE | 898 | 468184 | 3475632 | 468155 | 3475637 | 1933 | 2013 | 0.02 | -0.22 | -0.10 | 0.08 | -0.11 | 0.69 | 3 |
| GCE | 899 | 468189 | 3475582 | 468144 | 3475586 | 1933 | 2013 | -0.06 | -0.50 | -0.29 | 0.08 | -0.29 | 0.84 | 3 |
| GCE | 900 | 468204 | 3475535 | 468153 | 3475541 | 1933 | 2013 | -0.21 | -0.55 | -0.39 | 0.08 | -0.39 | 0.94 | 3 |
| GCE | 901 | 468203 | 3475485 | 468151 | 3475495 | 1933 | 2013 | -0.24 | -0.55 | -0.40 | 0.08 | -0.40 | 0.95 | 3 |
| GCE | 902 | 468552 | 3476125 | 468527 | 3476144 | 1933 | 2013 | -0.03 | -0.19 | -0.11 | 0.11 | -0.11 | 0.86 | 3 |
| GCE | 903 | 468518 | 3476089 | 468488 | 3476115 | 1933 | 2013 | -0.14 | -0.33 | -0.23 | 0.11 | -0.24 | 0.95 | 3 |
| GCE | 904 | 468489 | 3476048 | 468468 | 3476071 | 1933 | 2013 | -0.24 | -0.03 | -0.13 | 0.11 | -0.13 | 0.82 | 3 |
| GCE | 905 | 468458 | 3476009 | 468443 | 3476036 | 1933 | 2013 | -0.04 | -0.14 | -0.09 | 0.11 | -0.09 | 0.91 | 3 |
| GCE | 906 | 468434 | 3475965 | 468427 | 3476004 | 1933 | 2013 | 0.03 | -0.29 | -0.13 | 0.11 | -0.13 | 0.68 | 3 |
| GCE | 907 | 468576 | 3476124 | 468609 | 3476114 | 1933 | 2013 | -0.11 | NA | NA | 0.16 | -0.11 | 0.00 | 3 |
| GCE | 908 | 468538 | 3476093 | 468577 | 3476082 | 1933 | 2013 | -0.05 | -0.35 | -0.20 | 0.08 | -0.20 | 0.85 | 3 |
| GCE | 909 | 468514 | 3476049 | 468542 | 3476042 | 1933 | 2013 | 0.07 | -0.23 | -0.08 | 0.08 | -0.08 | 0.50 | 3 |
| GCE | 910 | 468486 | 3476008 | 468532 | 3475986 | 1933 | 2013 | 0.74 | -0.20 | 0.26 | 0.08 | 0.25 | 0.47 | 3 |
| GCE | 911 | 468461 | 3475964 | 468525 | 3475930 | 1933 | 2013 | 1.33 | -0.37 | 0.46 | 0.08 | 0.45 | 0.46 | 3 |
| GCE | 912 | 468417 | 3475829 | 468437 | 3475811 | 1933 | 2013 | 0.05 | -0.15 | -0.06 | 0.08 | -0.06 | 0.50 | 3 |
| GCE | 913 | 468387 | 3475789 | 468409 | 3475770 | 1933 | 2013 | 0.07 | -0.20 | -0.07 | 0.08 | -0.07 | 0.44 | 3 |
| GCE | 914 | 468354 | 3475752 | 468378 | 3475731 | 1933 | 2013 | 0.06 | -0.28 | -0.12 | 0.08 | -0.12 | 0.59 | 3 |
| GCE | 915 | 468316 | 3475719 | 468341 | 3475697 | 1933 | 2013 | 0.19 | -0.30 | -0.06 | 0.08 | -0.07 | 0.18 | 3 |
| GCE | 916 | 468243 | 3475653 | 468281 | 3475639 | 1933 | 2013 | 0.12 | -0.38 | -0.14 | 0.08 | -0.14 | 0.48 | 3 |
| GCE | 917 | 468239 | 3475608 | 468289 | 3475600 | 1933 | 2013 | 0.56 | -0.22 | 0.16 | 0.08 | 0.16 | 0.33 | 3 |
| GCE | 918 | 468264 | 3475565 | 468300 | 3475576 | 1933 | 2013 | 0.45 | -0.11 | 0.17 | 0.08 | 0.17 | 0.51 | 3 |
| GCE | 919 | 468269 | 3475516 | 468309 | 3475546 | 1933 | 2013 | 0.74 | -0.24 | 0.24 | 0.08 | 0.23 | 0.41 | 3 |
| GCE | 920 | 468300 | 3475481 | 468344 | 3475513 | 1933 | 2013 | 0.71 | -0.05 | 0.32 | 0.08 | 0.32 | 0.68 | 3 |
| GCE | 921 | 468347 | 3475464 | 468381 | 3475486 | 1933 | 2013 | 0.48 | -0.22 | 0.12 | 0.08 | 0.12 | 0.27 | 3 |
| GCE | 922 | 468381 | 3475429 | 468406 | 3475449 | 1933 | 2013 | 0.30 | -0.14 | 0.07 | 0.08 | 0.07 | 0.25 | 3 |
| GCE | 923 | 468398 | 3475382 | 468423 | 3475402 | 1933 | 2013 | 0.05 | -0.24 | -0.10 | 0.08 | -0.10 | 0.57 | 3 |
| GCE | 924 | 468416 | 3475336 | 468435 | 3475355 | 1933 | 2013 | 0.05 | -0.15 | -0.05 | 0.08 | -0.05 | 0.46 | 3 |
| GCE | 925 | 468456 | 3475308 | 468469 | 3475332 | 1933 | 2013 | 0.16 | -0.02 | 0.07 | 0.08 | 0.07 | 0.63 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 926 | 468503 | 3475299 | 468506 | 3475333 | 1933 | 2013 | 0.37 | -0.01 | 0.18 | 0.08 | 0.18 | 0.72 | 3 |
| GCE | 927 | 468552 | 3475308 | 468541 | 3475339 | 1933 | 2013 | 0.25 | 0.03 | 0.14 | 0.08 | 0.14 | 0.83 | 3 |
| GCE | 928 | 468596 | 3475329 | 468580 | 3475352 | 1933 | 2013 | 0.21 | 0.00 | 0.11 | 0.08 | 0.11 | 0.75 | 3 |
| GCE | 929 | 468634 | 3475362 | 468608 | 3475385 | 1933 | 2013 | 0.36 | -0.13 | 0.11 | 0.08 | 0.11 | 0.38 | 3 |
| GCE | 930 | 468659 | 3475404 | 468630 | 3475422 | 1933 | 2013 | 0.35 | -0.28 | 0.03 | 0.08 | 0.03 | 0.02 | 3 |
| GCE | 931 | 468667 | 3475454 | 468640 | 3475468 | 1933 | 2013 | 0.24 | -0.16 | 0.03 | 0.08 | 0.03 | 0.06 | 3 |
| GCE | 932 | 468679 | 3475502 | 468657 | 3475517 | 1933 | 2013 | 0.12 | -0.16 | -0.02 | 0.08 | -0.02 | 0.08 | 3 |
| GCE | 933 | 468705 | 3475544 | 468682 | 3475566 | 1933 | 2013 | 0.30 | -0.05 | 0.12 | 0.08 | 0.12 | 0.58 | 3 |
| GCE | 934 | 468746 | 3475572 | 468720 | 3475600 | 1933 | 2013 | 0.44 | -0.02 | 0.21 | 0.08 | 0.20 | 0.70 | 3 |
| GCE | 935 | 468792 | 3475591 | 468771 | 3475614 | 1933 | 2013 | 0.27 | -0.18 | 0.04 | 0.08 | 0.04 | 0.08 | 3 |
| GCE | 936 | 468837 | 3475584 | 468841 | 3475561 | 1933 | 2013 | -0.08 | 0.03 | -0.02 | 0.08 | -0.02 | 0.35 | 3 |
| GCE | 937 | 468789 | 3475573 | 468799 | 3475543 | 1933 | 2013 | -0.16 | -0.11 | -0.13 | 0.08 | -0.13 | 0.99 | 3 |
| GCE | 938 | 468743 | 3475555 | 468766 | 3475526 | 1933 | 2013 | -0.28 | -0.12 | -0.20 | 0.08 | -0.20 | 0.95 | 3 |
| GCE | 939 | 468713 | 3475516 | 468734 | 3475499 | 1933 | 2013 | 0.00 | -0.15 | -0.08 | 0.08 | -0.08 | 0.78 | 3 |
| GCE | 940 | 468694 | 3475471 | 468717 | 3475460 | 1933 | 2013 | 0.09 | -0.02 | 0.03 | 0.08 | 0.03 | 0.49 | 3 |
| GCE | 941 | 468686 | 3475423 | 468709 | 3475412 | 1933 | 2013 | 0.10 | 0.01 | 0.06 | 0.08 | 0.05 | 0.83 | 3 |
| GCE | 942 | 468653 | 3475340 | 468681 | 3475322 | 1933 | 2013 | -0.02 | -0.23 | -0.12 | 0.08 | -0.12 | 0.81 | 3 |
| GCE | 943 | 468613 | 3475311 | 468635 | 3475287 | 1933 | 2013 | -0.02 | -0.27 | -0.15 | 0.08 | -0.15 | 0.81 | 3 |
| GCE | 944 | 468526 | 3475273 | 468536 | 3475239 | 1933 | 2013 | -0.13 | -0.23 | -0.19 | 0.08 | -0.19 | 0.98 | 3 |
| GCE | 945 | 468476 | 3475268 | 468476 | 3475235 | 1933 | 2013 | -0.02 | -0.27 | -0.15 | 0.08 | -0.15 | 0.82 | 3 |
| GCE | 946 | 468390 | 3475286 | 468379 | 3475265 | 1933 | 2013 | 0.07 | -0.09 | -0.01 | 0.08 | -0.01 | 0.04 | 3 |
| GCE | 947 | 468356 | 3475321 | 468341 | 3475302 | 1933 | 2013 | 0.00 | -0.10 | -0.05 | 0.08 | -0.05 | 0.77 | 3 |
| GCE | 948 | 468330 | 3475364 | 468313 | 3475333 | 1933 | 2013 | -0.13 | -0.19 | -0.16 | 0.08 | -0.16 | 0.99 | 3 |
| GCE | 949 | 468300 | 3475403 | 468289 | 3475359 | 1933 | 2013 | -0.20 | -0.37 | -0.29 | 0.08 | -0.29 | 0.97 | 3 |
| GCE | 950 | 466675 | 3481450 | 466648 | 3481466 | 1933 | 2013 | 0.02 | -0.26 | -0.12 | 0.08 | -0.12 | 0.70 | 4 |
| GCE | 951 | 466659 | 3481404 | 466629 | 3481424 | 1933 | 2013 | 0.30 | -0.39 | -0.06 | 0.08 | -0.06 | 0.08 | 4 |
| GCE | 952 | 466638 | 3481359 | 466609 | 3481371 | 1933 | 2013 | 0.04 | -0.28 | -0.12 | 0.08 | -0.12 | 0.64 | 4 |
| GCE | 953 | 466629 | 3481310 | 466603 | 3481317 | 1933 | 2013 | -0.02 | -0.14 | -0.08 | 0.08 | -0.08 | 0.85 | 4 |
| GCE | 954 | 466629 | 3481260 | 466596 | 3481264 | 1933 | 2013 | 0.06 | -0.33 | -0.14 | 0.08 | -0.14 | 0.62 | 4 |
| GCE | 955 | 466633 | 3481210 | 466600 | 3481211 | 1933 | 2013 | 0.20 | -0.33 | -0.07 | 0.08 | -0.07 | 0.18 | 4 |
| GCE | 956 | 466636 | 3481161 | 466604 | 3481158 | 1933 | 2013 | -0.10 | -0.21 | -0.16 | 0.08 | -0.16 | 0.97 | 4 |
| GCE | 957 | 466649 | 3481112 | 466606 | 3481112 | 1933 | 2013 | -0.18 | -0.37 | -0.28 | 0.08 | -0.28 | 0.96 | 4 |
| GCE | 958 | 466645 | 3481063 | 466604 | 3481065 | 1933 | 2013 | -0.32 | -0.21 | -0.26 | 0.08 | -0.26 | 0.98 | 4 |
| GCE | 959 | 466633 | 3481015 | 466602 | 3481020 | 1933 | 2013 | -0.10 | -0.17 | -0.13 | 0.08 | -0.14 | 0.98 | 4 |
| GCE | 960 | 466616 | 3480968 | 466578 | 3480973 | 1933 | 2013 | -0.45 | 0.14 | -0.15 | 0.08 | -0.15 | 0.43 | 4 |
| GCE | 961 | 466593 | 3480923 | 466565 | 3480926 | 1933 | 2013 | -0.06 | -0.08 | -0.07 | 0.08 | -0.07 | 1.00 | 4 |
| GCE | 962 | 466584 | 3480875 | 466555 | 3480875 | 1933 | 2013 | 0.06 | -0.20 | -0.07 | 0.08 | -0.07 | 0.48 | 4 |
| GCE | 963 | 466583 | 3480825 | 466554 | 3480821 | 1933 | 2013 | 0.15 | -0.22 | -0.04 | 0.08 | -0.04 | 0.12 | 4 |
| GCE | 964 | 466588 | 3480776 | 466563 | 3480768 | 1933 | 2013 | 0.04 | -0.16 | -0.06 | 0.08 | -0.06 | 0.56 | 4 |
| GCE | 965 | 466612 | 3480732 | 466583 | 3480720 | 1933 | 2013 | 0.31 | -0.28 | 0.01 | 0.08 | 0.01 | 0.00 | 4 |
| GCE | 966 | 466628 | 3480685 | 466606 | 3480676 | 1933 | 2013 | 0.09 | -0.08 | 0.00 | 0.08 | 0.00 | 0.00 | 4 |
| GCE | 967 | 466652 | 3480643 | 466620 | 3480627 | 1933 | 2013 | 0.12 | -0.37 | -0.13 | 0.08 | -0.13 | 0.47 | 4 |
| GCE | 968 | 466678 | 3480601 | 466644 | 3480584 | 1933 | 2013 | -0.21 | -0.22 | -0.22 | 0.08 | -0.22 | 1.00 | 4 |
| GCE | 969 | 466704 | 3480559 | 466672 | 3480536 | 1933 | 2013 | -0.11 | -0.38 | -0.25 | 0.08 | -0.25 | 0.91 | 4 |
| GCE | 970 | 466742 | 3480526 | 466698 | 3480494 | 1933 | 2013 | -0.38 | -0.46 | -0.42 | 0.08 | -0.42 | 1.00 | 4 |
| GCE | 971 | 466776 | 3480490 | 466736 | 3480456 | 1933 | 2013 | -0.14 | -0.65 | -0.40 | 0.08 | -0.40 | 0.88 | 4 |
| GCE | 972 | 466815 | 3480459 | 466774 | 3480415 | 1933 | 2013 | -0.13 | -0.77 | -0.46 | 0.08 | -0.46 | 0.86 | 4 |
| GCE | 973 | 466934 | 3480324 | 466921 | 3480295 | 1933 | 2013 | -0.14 | -0.12 | -0.13 | 0.08 | -0.13 | 1.00 | 4 |
| GCE | 974 | 466977 | 3480299 | 466966 | 3480277 | 1933 | 2013 | 0.10 | -0.11 | -0.01 | 0.08 | -0.01 | 0.02 | 4 |
| GCE | 975 | 467024 | 3480283 | 467014 | 3480255 | 1933 | 2013 | 0.25 | -0.15 | 0.04 | 0.08 | 0.04 | 0.11 | 4 |
| GCE | 976 | 467072 | 3480270 | 467066 | 3480244 | 1933 | 2013 | -0.01 | -0.12 | -0.06 | 0.08 | -0.07 | 0.80 | 4 |
| GCE | 977 | 467121 | 3480260 | 467119 | 3480226 | 1933 | 2013 | 0.20 | -0.34 | -0.08 | 0.08 | -0.08 | 0.20 | 4 |
| GCE | 978 | 467171 | 3480255 | 467168 | 3480218 | 1933 | 2013 | 0.37 | -0.43 | -0.04 | 0.08 | -0.05 | 0.04 | 4 |
| GCE | 979 | 467221 | 3480255 | 467216 | 3480206 | 1933 | 2013 | 0.42 | -0.69 | -0.15 | 0.08 | -0.15 | 0.19 | 4 |
| GCE | 980 | 467271 | 3480249 | 467269 | 3480205 | 1933 | 2013 | 0.23 | -0.58 | -0.18 | 0.08 | -0.19 | 0.39 | 4 |
| GCE | 981 | 467320 | 3480243 | 467316 | 3480207 | 1933 | 2013 | -0.05 | -0.34 | -0.20 | 0.08 | -0.20 | 0.84 | 4 |
| GCE | 982 | 467370 | 3480242 | 467366 | 3480211 | 1933 | 2013 | 0.03 | -0.25 | -0.11 | 0.08 | -0.11 | 0.67 | 4 |
| GCE | 983 | 467419 | 3480246 | 467421 | 3480214 | 1933 | 2013 | 0.07 | -0.28 | -0.11 | 0.08 | -0.11 | 0.55 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 984 | 467465 | 3480263 | 467472 | 3480226 | 1933 | 2013 | 0.28 | -0.40 | -0.07 | 0.08 | -0.07 | 0.11 | 4 |
| GCE | 985 | 467514 | 3480273 | 467522 | 3480240 | 1933 | 2013 | 0.15 | -0.34 | -0.11 | 0.08 | -0.11 | 0.37 | 4 |
| GCE | 986 | 467560 | 3480291 | 467574 | 3480257 | 1933 | 2013 | 0.09 | -0.39 | -0.16 | 0.08 | -0.16 | 0.56 | 4 |
| GCE | 987 | 467603 | 3480317 | 467623 | 3480279 | 1933 | 2013 | 0.22 | -0.54 | -0.17 | 0.08 | -0.17 | 0.38 | 4 |
| GCE | 988 | 467646 | 3480343 | 467668 | 3480304 | 1933 | 2013 | 0.45 | -0.60 | -0.09 | 0.08 | -0.09 | 0.08 | 4 |
| GCE | 989 | 467691 | 3480364 | 467713 | 3480328 | 1933 | 2013 | 0.25 | -0.53 | -0.15 | 0.08 | -0.15 | 0.32 | 4 |
| GCE | 990 | 467737 | 3480383 | 467756 | 3480354 | 1933 | 2013 | 0.17 | -0.38 | -0.11 | 0.08 | -0.11 | 0.33 | 4 |
| GCE | 991 | 467780 | 3480408 | 467799 | 3480378 | 1933 | 2013 | 0.08 | -0.39 | -0.16 | 0.08 | -0.16 | 0.58 | 4 |
| GCE | 992 | 467822 | 3480435 | 467842 | 3480402 | 1933 | 2013 | 0.08 | -0.44 | -0.19 | 0.08 | -0.19 | 0.62 | 4 |
| GCE | 993 | 467867 | 3480458 | 467885 | 3480426 | 1933 | 2013 | -0.11 | -0.28 | -0.20 | 0.08 | -0.20 | 0.95 | 4 |
| GCE | 994 | 467912 | 3480478 | 467925 | 3480450 | 1933 | 2013 | -0.08 | -0.20 | -0.14 | 0.08 | -0.14 | 0.95 | 4 |
| GCE | 995 | 467956 | 3480502 | 467968 | 3480467 | 1933 | 2013 | 0.23 | -0.41 | -0.09 | 0.08 | -0.10 | 0.22 | 4 |
| GCE | 996 | 468003 | 3480517 | 468009 | 3480481 | 1933 | 2013 | 0.25 | -0.38 | -0.07 | 0.08 | -0.07 | 0.14 | 4 |
| GCE | 997 | 468052 | 3480524 | 468050 | 3480494 | 1933 | 2013 | 0.19 | -0.25 | -0.04 | 0.08 | -0.04 | 0.08 | 4 |
| GCE | 998 | 468102 | 3480524 | 468091 | 3480496 | 1933 | 2013 | 0.27 | -0.15 | 0.05 | 0.08 | 0.05 | 0.16 | 4 |
| GCE | 999 | 468150 | 3480510 | 468130 | 3480488 | 1933 | 2013 | 0.15 | 0.07 | 0.11 | 0.08 | 0.11 | 0.96 | 4 |
| GCE | 1000 | 468188 | 3480481 | 468154 | 3480464 | 1933 | 2013 | 0.10 | 0.30 | 0.20 | 0.08 | 0.20 | 0.92 | 4 |
| GCE | 1001 | 468198 | 3480435 | 468159 | 3480432 | 1933 | 2013 | 0.15 | 0.27 | 0.21 | 0.08 | 0.21 | 0.98 | 4 |
| GCE | 1002 | 468188 | 3480387 | 468155 | 3480397 | 1933 | 2013 | 0.27 | 0.08 | 0.18 | 0.08 | 0.17 | 0.91 | 4 |
| GCE | 1003 | 468170 | 3480341 | 468141 | 3480359 | 1933 | 2013 | 0.25 | 0.12 | 0.18 | 0.08 | 0.18 | 0.96 | 4 |
| GCE | 1004 | 468138 | 3480304 | 468117 | 3480323 | 1933 | 2013 | 0.19 | 0.01 | 0.10 | 0.08 | 0.09 | 0.78 | 4 |
| GCE | 1005 | 468108 | 3480265 | 468083 | 3480294 | 1933 | 2013 | 0.43 | 0.04 | 0.23 | 0.08 | 0.23 | 0.81 | 4 |
| GCE | 1006 | 468074 | 3480228 | 468048 | 3480259 | 1933 | 2013 | 0.51 | -0.06 | 0.22 | 0.08 | 0.22 | 0.64 | 4 |
| GCE | 1007 | 468041 | 3480191 | 468006 | 3480231 | 1933 | 2013 | 0.83 | -0.05 | 0.38 | 0.08 | 0.38 | 0.69 | 4 |
| GCE | 1008 | 468011 | 3480152 | 467963 | 3480200 | 1933 | 2013 | 1.22 | -0.08 | 0.56 | 0.08 | 0.55 | 0.69 | 4 |
| GCE | 1009 | 467973 | 3480120 | 467925 | 3480168 | 1933 | 2013 | 1.10 | 0.01 | 0.54 | 0.08 | 0.54 | 0.75 | 4 |
| GCE | 1010 | 467933 | 3480095 | 467891 | 3480132 | 1933 | 2013 | 0.90 | 0.00 | 0.44 | 0.08 | 0.44 | 0.74 | 4 |
| GCE | 1011 | 467893 | 3480075 | 467862 | 3480100 | 1933 | 2013 | 0.49 | -0.02 | 0.23 | 0.08 | 0.23 | 0.71 | 4 |
| GCE | 1012 | 467858 | 3480039 | 467832 | 3480059 | 1933 | 2013 | 0.32 | -0.06 | 0.13 | 0.08 | 0.13 | 0.57 | 4 |
| GCE | 1013 | 467831 | 3479997 | 467803 | 3480014 | 1933 | 2013 | 0.33 | -0.15 | 0.08 | 0.08 | 0.08 | 0.26 | 4 |
| GCE | 1014 | 467804 | 3479956 | 467774 | 3479970 | 1933 | 2013 | 0.32 | -0.12 | 0.09 | 0.08 | 0.09 | 0.34 | 4 |
| GCE | 1015 | 467784 | 3479910 | 467755 | 3479924 | 1933 | 2013 | 0.27 | 0.05 | 0.16 | 0.08 | 0.15 | 0.86 | 4 |
| GCE | 1016 | 467764 | 3479866 | 467737 | 3479877 | 1933 | 2013 | 0.18 | 0.06 | 0.12 | 0.08 | 0.12 | 0.93 | 4 |
| GCE | 1017 | 467745 | 3479821 | 467722 | 3479831 | 1933 | 2013 | 0.09 | 0.03 | 0.06 | 0.08 | 0.06 | 0.92 | 4 |
| GCE | 1018 | 467723 | 3479777 | 467703 | 3479786 | 1933 | 2013 | NA | 0.04 | NA | 0.15 | 0.04 | 0.00 | 4 |
| GCE | 1019 | 467708 | 3479730 | 467685 | 3479741 | 1933 | 2013 | 0.09 | 0.03 | 0.06 | 0.08 | 0.06 | 0.94 | 4 |
| GCE | 1020 | 467687 | 3479685 | 467663 | 3479698 | 1933 | 2013 | 0.12 | -0.16 | -0.02 | 0.08 | -0.03 | 0.09 | 4 |
| GCE | 1021 | 467647 | 3479595 | 467617 | 3479615 | 1933 | 2013 | -0.40 | 0.37 | -0.01 | 0.08 | -0.01 | 0.00 | 4 |
| GCE | 1022 | 467620 | 3479553 | 467578 | 3479588 | 1933 | 2013 | -0.51 | -0.36 | -0.43 | 0.08 | -0.43 | 0.99 | 4 |
| GCE | 1023 | 467595 | 3479510 | 467550 | 3479561 | 1933 | 2013 | -0.94 | -0.22 | -0.57 | 0.08 | -0.57 | 0.88 | 4 |
| GCE | 1024 | 467568 | 3479468 | 467518 | 3479525 | 1933 | 2013 | -0.97 | -0.41 | -0.68 | 0.08 | -0.68 | 0.95 | 4 |
| GCE | 1025 | 467535 | 3479431 | 467482 | 3479506 | 1933 | 2013 | -0.74 | -1.04 | -0.89 | 0.08 | -0.89 | 0.99 | 4 |
| GCE | 1026 | 467491 | 3479407 | 467452 | 3479486 | 1933 | 2013 | -0.52 | -1.16 | -0.85 | 0.08 | -0.85 | 0.96 | 4 |
| GCE | 1027 | 467447 | 3479385 | 467423 | 3479438 | 1933 | 2013 | -0.30 | -0.62 | -0.47 | 0.08 | -0.47 | 0.96 | 4 |
| GCE | 1028 | 467400 | 3479369 | 467371 | 3479424 | 1933 | 2013 | -0.26 | -0.77 | -0.52 | 0.08 | -0.52 | 0.93 | 4 |
| GCE | 1029 | 467353 | 3479353 | 467328 | 3479417 | 1933 | 2013 | -0.34 | -0.83 | -0.59 | 0.08 | -0.59 | 0.95 | 4 |
| GCE | 1030 | 467306 | 3479359 | 467284 | 3479412 | 1933 | 2013 | 0.13 | -0.90 | -0.40 | 0.08 | -0.40 | 0.65 | 4 |
| GCE | 1031 | 467256 | 3479353 | 467243 | 3479385 | 1933 | 2013 | -0.03 | -0.32 | -0.17 | 0.08 | -0.18 | 0.82 | 4 |
| GCE | 1032 | 467164 | 3479332 | 467153 | 3479362 | 1933 | 2013 | -0.01 | -0.28 | -0.15 | 0.08 | -0.15 | 0.78 | 4 |
| GCE | 1033 | 467117 | 3479316 | 467107 | 3479344 | 1933 | 2013 | 0.14 | -0.26 | -0.06 | 0.08 | -0.06 | 0.23 | 4 |
| GCE | 1034 | 467074 | 3479293 | 467062 | 3479323 | 1933 | 2013 | 0.18 | -0.27 | -0.05 | 0.08 | -0.05 | 0.12 | 4 |
| GCE | 1035 | 467034 | 3479263 | 467019 | 3479290 | 1933 | 2013 | 0.04 | -0.27 | -0.12 | 0.08 | -0.12 | 0.64 | 4 |
| GCE | 1036 | 466992 | 3479238 | 466977 | 3479262 | 1933 | 2013 | -0.06 | -0.14 | -0.10 | 0.08 | -0.10 | 0.95 | 4 |
| GCE | 1037 | 466948 | 3479215 | 466935 | 3479236 | 1933 | 2013 | 0.06 | -0.11 | -0.03 | 0.08 | -0.03 | 0.27 | 4 |
| GCE | 1038 | 466912 | 3479182 | 466896 | 3479204 | 1933 | 2013 | 0.08 | 0.02 | 0.05 | 0.08 | 0.05 | 0.90 | 4 |
| GCE | 1039 | 466875 | 3479152 | 466858 | 3479175 | 1933 | 2013 | 0.16 | -0.21 | -0.03 | 0.08 | -0.03 | 0.06 | 4 |
| GCE | 1040 | 466837 | 3479123 | 466820 | 3479148 | 1933 | 2013 | 0.20 | 0.02 | 0.11 | 0.08 | 0.11 | 0.79 | 4 |
| GCE | 1041 | 466797 | 3479094 | 466783 | 3479119 | 1933 | 2013 | 0.23 | -0.12 | 0.05 | 0.08 | 0.05 | 0.21 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1042 | 466756 | 3479067 | 466747 | 3479095 | 1933 | 2013 | 0.19 | -0.17 | 0.00 | 0.08 | 0.00 | 0.00 | 4 |
| GCE | 1043 | 466718 | 3479035 | 466718 | 3479089 | 1933 | 2013 | -0.10 | -0.61 | -0.36 | 0.08 | -0.36 | 0.86 | 4 |
| GCE | 1044 | 466674 | 3479013 | 466701 | 3479087 | 1933 | 2013 | -0.22 | -1.20 | -0.72 | 0.08 | -0.73 | 0.87 | 4 |
| GCE | 1045 | 466630 | 3479035 | 466681 | 3479103 | 1933 | 2013 | -0.35 | -1.22 | -0.80 | 0.08 | -0.80 | 0.91 | 4 |
| GCE | 1046 | 466600 | 3479075 | 466664 | 3479135 | 1933 | 2013 | -0.22 | -1.43 | -0.84 | 0.08 | -0.84 | 0.85 | 4 |
| GCE | 1047 | 466578 | 3479119 | 466643 | 3479167 | 1933 | 2013 | -0.16 | -1.30 | -0.75 | 0.08 | -0.75 | 0.84 | 4 |
| GCE | 1048 | 466551 | 3479162 | 466625 | 3479209 | 1933 | 2013 | -0.35 | -1.34 | -0.86 | 0.08 | -0.86 | 0.90 | 4 |
| GCE | 1049 | 466529 | 3479207 | 466591 | 3479248 | 1933 | 2013 | -0.40 | -0.95 | -0.68 | 0.08 | -0.68 | 0.95 | 4 |
| GCE | 1050 | 466506 | 3479251 | 466560 | 3479288 | 1933 | 2013 | -0.33 | -0.80 | -0.57 | 0.08 | -0.57 | 0.95 | 4 |
| GCE | 1051 | 466479 | 3479293 | 466537 | 3479327 | 1933 | 2013 | -0.28 | -0.89 | -0.59 | 0.08 | -0.59 | 0.92 | 4 |
| GCE | 1052 | 466454 | 3479336 | 466508 | 3479368 | 1933 | 2013 | -0.19 | -0.86 | -0.53 | 0.08 | -0.53 | 0.89 | 4 |
| GCE | 1053 | 466427 | 3479378 | 466477 | 3479411 | 1933 | 2013 | -0.18 | -0.80 | -0.50 | 0.08 | -0.50 | 0.89 | 4 |
| GCE | 1054 | 466398 | 3479419 | 466450 | 3479455 | 1933 | 2013 | -0.13 | -0.90 | -0.52 | 0.08 | -0.53 | 0.85 | 4 |
| GCE | 1055 | 466367 | 3479458 | 466421 | 3479494 | 1933 | 2013 | -0.29 | -0.78 | -0.54 | 0.08 | -0.54 | 0.94 | 4 |
| GCE | 1056 | 466335 | 3479496 | 466385 | 3479532 | 1933 | 2013 | -0.27 | -0.74 | -0.51 | 0.08 | -0.51 | 0.93 | 4 |
| GCE | 1057 | 466299 | 3479531 | 466353 | 3479574 | 1933 | 2013 | -0.26 | -0.93 | -0.60 | 0.08 | -0.60 | 0.91 | 4 |
| GCE | 1058 | 466267 | 3479570 | 466317 | 3479612 | 1933 | 2013 | -0.27 | -0.83 | -0.55 | 0.08 | -0.56 | 0.92 | 4 |
| GCE | 1059 | 466231 | 3479605 | 466279 | 3479648 | 1933 | 2013 | -0.21 | -0.86 | -0.54 | 0.08 | -0.54 | 0.89 | 4 |
| GCE | 1060 | 466191 | 3479632 | 466251 | 3479686 | 1933 | 2013 | -0.32 | -1.08 | -0.71 | 0.08 | -0.71 | 0.91 | 4 |
| GCE | 1061 | 466155 | 3479665 | 466214 | 3479718 | 1933 | 2013 | -0.58 | -0.87 | -0.73 | 0.08 | -0.73 | 0.99 | 4 |
| GCE | 1062 | 466126 | 3479704 | 466182 | 3479757 | 1933 | 2013 | -0.42 | -0.99 | -0.71 | 0.08 | -0.71 | 0.95 | 4 |
| GCE | 1063 | 466087 | 3479736 | 466147 | 3479789 | 1933 | 2013 | -0.71 | -0.77 | -0.74 | 0.08 | -0.74 | 1.00 | 4 |
| GCE | 1064 | 466055 | 3479774 | 466125 | 3479826 | 1933 | 2013 | -0.59 | -1.08 | -0.84 | 0.08 | -0.85 | 0.97 | 4 |
| GCE | 1065 | 466023 | 3479812 | 466078 | 3479869 | 1933 | 2013 | -0.60 | -0.85 | -0.73 | 0.08 | -0.73 | 0.99 | 4 |
| GCE | 1066 | 465997 | 3479855 | 466054 | 3479913 | 1933 | 2013 | NA | -1.05 | NA | 0.15 | -1.05 | 0.00 | 4 |
| GCE | 1067 | 465968 | 3479895 | 466023 | 3479950 | 1933 | 2013 | NA | -0.85 | NA | 0.15 | -0.85 | 0.00 | 4 |
| GCE | 1068 | 465930 | 3479922 | 465977 | 3479979 | 1933 | 2013 | -0.51 | -0.77 | -0.64 | 0.08 | -0.65 | 0.99 | 4 |
| GCE | 1069 | 465885 | 3479943 | 465927 | 3480024 | 1933 | 2013 | -0.80 | -0.96 | -0.88 | 0.08 | -0.88 | 1.00 | 4 |
| GCE | 1070 | 465840 | 3479965 | 465880 | 3480053 | 1933 | 2013 | -0.94 | -0.98 | -0.96 | 0.08 | -0.96 | 1.00 | 4 |
| GCE | 1071 | 465795 | 3479987 | 465808 | 3480077 | 1933 | 2013 | -0.86 | -0.90 | -0.88 | 0.08 | -0.88 | 1.00 | 4 |
| GCE | 1072 | 465745 | 3479991 | 465738 | 3480074 | 1933 | 2013 | -0.96 | -0.63 | -0.79 | 0.08 | -0.79 | 0.99 | 4 |
| GCE | 1073 | 465696 | 3479990 | 465672 | 3480059 | 1933 | 2013 | -0.86 | -0.46 | -0.66 | 0.08 | -0.65 | 0.97 | 4 |
| GCE | 1074 | 465646 | 3479986 | 465622 | 3480028 | 1933 | 2013 | -0.49 | -0.17 | -0.33 | 0.08 | -0.33 | 0.93 | 4 |
| GCE | 1075 | 465525 | 3479920 | 465508 | 3479935 | 1933 | 2013 | 0.02 | -0.07 | -0.02 | 0.08 | -0.03 | 0.48 | 4 |
| GCE | 1076 | 465498 | 3479878 | 465475 | 3479896 | 1933 | 2013 | 0.20 | -0.22 | -0.01 | 0.08 | -0.01 | 0.01 | 4 |
| GCE | 1077 | 465468 | 3479837 | 465445 | 3479855 | 1933 | 2013 | 0.18 | -0.22 | -0.02 | 0.08 | -0.02 | 0.04 | 4 |
| GCE | 1078 | 465438 | 3479797 | 465418 | 3479810 | 1933 | 2013 | 0.05 | -0.10 | -0.02 | 0.08 | -0.02 | 0.22 | 4 |
| GCE | 1079 | 465410 | 3479756 | 465390 | 3479768 | 1933 | 2013 | 0.03 | -0.08 | -0.03 | 0.08 | -0.03 | 0.47 | 4 |
| GCE | 1080 | 465384 | 3479713 | 465360 | 3479729 | 1933 | 2013 | 0.23 | -0.06 | 0.08 | 0.08 | 0.08 | 0.48 | 4 |
| GCE | 1081 | 465359 | 3479671 | 465336 | 3479683 | 1933 | 2013 | 0.14 | 0.01 | 0.07 | 0.08 | 0.07 | 0.79 | 4 |
| GCE | 1082 | 465334 | 3479627 | 465310 | 3479638 | 1933 | 2013 | 0.15 | -0.14 | 0.00 | 0.08 | 0.00 | 0.00 | 4 |
| GCE | 1083 | 465310 | 3479584 | 465288 | 3479595 | 1933 | 2013 | 0.10 | -0.12 | -0.01 | 0.08 | -0.01 | 0.05 | 4 |
| GCE | 1084 | 465315 | 3479535 | 465281 | 3479555 | 1933 | 2013 | -0.27 | -0.15 | -0.20 | 0.08 | -0.20 | 0.97 | 4 |
| GCE | 1085 | 465306 | 3479487 | 465269 | 3479514 | 1933 | 2013 | -0.43 | -0.21 | -0.32 | 0.08 | -0.32 | 0.96 | 4 |
| GCE | 1086 | 465266 | 3479458 | 465240 | 3479485 | 1933 | 2013 | -0.08 | -0.34 | -0.21 | 0.08 | -0.22 | 0.90 | 4 |
| GCE | 1087 | 465221 | 3479435 | 465201 | 3479468 | 1933 | 2013 | -0.15 | -0.30 | -0.23 | 0.08 | -0.23 | 0.97 | 4 |
| GCE | 1088 | 465175 | 3479417 | 465156 | 3479457 | 1933 | 2013 | -0.22 | -0.31 | -0.27 | 0.08 | -0.27 | 0.99 | 4 |
| GCE | 1089 | 465126 | 3479406 | 465112 | 3479439 | 1933 | 2013 | -0.09 | -0.31 | -0.20 | 0.08 | -0.20 | 0.91 | 4 |
| GCE | 1090 | 465080 | 3479387 | 465063 | 3479423 | 1933 | 2013 | -0.05 | -0.42 | -0.24 | 0.08 | -0.24 | 0.83 | 4 |
| GCE | 1091 | 465034 | 3479367 | 465014 | 3479398 | 1933 | 2013 | NA | -0.35 | NA | 0.15 | -0.35 | 0.00 | 4 |
| GCE | 1092 | 465003 | 3479339 | 464975 | 3479370 | 1933 | 2013 | -0.26 | -0.29 | -0.27 | 0.08 | -0.27 | 1.00 | 4 |
| GCE | 1093 | 464943 | 3479273 | 464909 | 3479289 | 1933 | 2013 | -0.18 | -0.25 | -0.22 | 0.08 | -0.22 | 0.99 | 4 |
| GCE | 1094 | 464921 | 3479228 | 464891 | 3479236 | 1933 | 2013 | -0.13 | -0.13 | -0.13 | 0.08 | -0.13 | 1.00 | 4 |
| GCE | 1095 | 464907 | 3479181 | 464882 | 3479187 | 1933 | 2013 | 0.13 | -0.12 | 0.01 | 0.08 | 0.01 | 0.01 | 4 |
| GCE | 1096 | 465018 | 3479049 | 465081 | 3479049 | 1933 | 2013 | -0.20 | NA | NA | 0.16 | -0.20 | 0.00 | 4 |
| GCE | 1097 | 465001 | 3479096 | 465037 | 3479104 | 1933 | 2013 | -0.04 | -0.37 | -0.21 | 0.08 | -0.21 | 0.82 | 4 |
| GCE | 1098 | 464989 | 3479144 | 465023 | 3479151 | 1933 | 2013 | 0.10 | -0.36 | -0.13 | 0.08 | -0.14 | 0.52 | 4 |
| GCE | 1099 | 464985 | 3479194 | 465016 | 3479190 | 1933 | 2013 | 0.23 | -0.27 | -0.03 | 0.08 | -0.03 | 0.04 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1100 | 464989 | 3479244 | 465029 | 3479227 | 1933 | 2013 | 0.58 | -0.21 | 0.18 | 0.08 | 0.17 | 0.37 | 4 |
| GCE | 1101 | 465013 | 3479287 | 465052 | 3479254 | 1933 | 2013 | 0.82 | 0.00 | 0.40 | 0.08 | 0.39 | 0.74 | 4 |
| GCE | 1102 | 465051 | 3479319 | 465078 | 3479275 | 1933 | 2013 | 0.79 | -0.02 | 0.37 | 0.08 | 0.37 | 0.71 | 4 |
| GCE | 1103 | 465097 | 3479336 | 465113 | 3479293 | 1933 | 2013 | 0.64 | -0.04 | 0.29 | 0.08 | 0.29 | 0.69 | 4 |
| GCE | 1104 | 465146 | 3479346 | 465155 | 3479301 | 1933 | 2013 | 0.67 | -0.09 | 0.28 | 0.08 | 0.28 | 0.62 | 4 |
| GCE | 1105 | 465195 | 3479348 | 465203 | 3479299 | 1933 | 2013 | 0.69 | 0.03 | 0.35 | 0.08 | 0.35 | 0.77 | 4 |
| GCE | 1106 | 465245 | 3479350 | 465256 | 3479299 | 1933 | 2013 | 0.84 | -0.03 | 0.39 | 0.08 | 0.39 | 0.71 | 4 |
| GCE | 1107 | 465294 | 3479357 | 465310 | 3479315 | 1933 | 2013 | 0.60 | 0.03 | 0.31 | 0.08 | 0.31 | 0.78 | 4 |
| GCE | 1108 | 465340 | 3479371 | 465358 | 3479341 | 1933 | 2013 | 0.30 | 0.06 | 0.18 | 0.08 | 0.17 | 0.86 | 4 |
| GCE | 1109 | 465378 | 3479402 | 465401 | 3479375 | 1933 | 2013 | 0.39 | -0.10 | 0.14 | 0.08 | 0.14 | 0.49 | 4 |
| GCE | 1110 | 465417 | 3479433 | 465438 | 3479414 | 1933 | 2013 | 0.23 | -0.12 | 0.05 | 0.08 | 0.05 | 0.22 | 4 |
| GCE | 1111 | 465453 | 3479468 | 465470 | 3479455 | 1933 | 2013 | 0.04 | -0.03 | 0.01 | 0.08 | 0.01 | 0.05 | 4 |
| GCE | 1112 | 465481 | 3479509 | 465503 | 3479495 | 1933 | 2013 | -0.06 | -0.10 | -0.08 | 0.08 | -0.08 | 0.98 | 4 |
| GCE | 1113 | 465506 | 3479552 | 465533 | 3479537 | 1933 | 2013 | -0.07 | -0.19 | -0.13 | 0.08 | -0.13 | 0.93 | 4 |
| GCE | 1114 | 465527 | 3479597 | 465558 | 3479582 | 1933 | 2013 | -0.16 | -0.20 | -0.18 | 0.08 | -0.18 | 0.99 | 4 |
| GCE | 1115 | 465546 | 3479644 | 465583 | 3479628 | 1933 | 2013 | -0.27 | -0.25 | -0.26 | 0.08 | -0.26 | 1.00 | 4 |
| GCE | 1116 | 465566 | 3479689 | 465601 | 3479676 | 1933 | 2013 | -0.10 | -0.34 | -0.22 | 0.08 | -0.22 | 0.91 | 4 |
| GCE | 1117 | 465579 | 3479737 | 465616 | 3479725 | 1933 | 2013 | -0.13 | -0.33 | -0.23 | 0.08 | -0.23 | 0.94 | 4 |
| GCE | 1118 | 465591 | 3479786 | 465628 | 3479774 | 1933 | 2013 | -0.10 | -0.38 | -0.24 | 0.08 | -0.24 | 0.90 | 4 |
| GCE | 1119 | 465602 | 3479835 | 465641 | 3479817 | 1933 | 2013 | -0.16 | -0.41 | -0.29 | 0.08 | -0.29 | 0.94 | 4 |
| GCE | 1120 | 465620 | 3479881 | 465653 | 3479852 | 1933 | 2013 | -0.07 | -0.50 | -0.29 | 0.08 | -0.29 | 0.85 | 4 |
| GCE | 1121 | 465654 | 3479915 | 465669 | 3479885 | 1933 | 2013 | -0.11 | -0.23 | -0.17 | 0.08 | -0.17 | 0.96 | 4 |
| GCE | 1122 | 465704 | 3479916 | 465705 | 3479888 | 1933 | 2013 | 0.13 | 0.03 | 0.08 | 0.08 | 0.08 | 0.87 | 4 |
| GCE | 1123 | 465751 | 3479902 | 465740 | 3479865 | 1933 | 2013 | 0.24 | 0.20 | 0.22 | 0.08 | 0.22 | 1.00 | 4 |
| GCE | 1124 | 465792 | 3479873 | 465773 | 3479841 | 1933 | 2013 | 0.19 | 0.24 | 0.21 | 0.08 | 0.21 | 1.00 | 4 |
| GCE | 1125 | 465829 | 3479840 | 465810 | 3479813 | 1933 | 2013 | 0.32 | -0.14 | 0.08 | 0.08 | 0.08 | 0.28 | 4 |
| GCE | 1126 | 465869 | 3479811 | 465851 | 3479788 | 1933 | 2013 | 0.17 | -0.23 | -0.03 | 0.08 | -0.04 | 0.09 | 4 |
| GCE | 1127 | 465907 | 3479778 | 465886 | 3479758 | 1933 | 2013 | 0.12 | -0.20 | -0.04 | 0.08 | -0.04 | 0.18 | 4 |
| GCE | 1128 | 465939 | 3479740 | 465917 | 3479724 | 1933 | 2013 | 0.12 | -0.19 | -0.03 | 0.08 | -0.04 | 0.13 | 4 |
| GCE | 1129 | 465975 | 3479705 | 465939 | 3479682 | 1933 | 2013 | 0.55 | -0.50 | 0.01 | 0.08 | 0.01 | 0.00 | 4 |
| GCE | 1130 | 466003 | 3479664 | 465952 | 3479642 | 1933 | 2013 | 0.90 | -0.10 | 0.39 | 0.08 | 0.38 | 0.64 | 4 |
| GCE | 1131 | 466026 | 3479619 | 465973 | 3479605 | 1933 | 2013 | 0.85 | -0.45 | 0.19 | 0.08 | 0.18 | 0.19 | 4 |
| GCE | 1132 | 466223 | 3479333 | 466195 | 3479322 | 1933 | 2013 | 0.03 | -0.25 | -0.11 | 0.08 | -0.12 | 0.66 | 4 |
| GCE | 1133 | 466248 | 3479290 | 466212 | 3479266 | 1933 | 2013 | 0.19 | -0.57 | -0.20 | 0.08 | -0.20 | 0.47 | 4 |
| GCE | 1134 | 466268 | 3479244 | 466235 | 3479229 | 1933 | 2013 | 0.14 | -0.40 | -0.13 | 0.08 | -0.13 | 0.42 | 4 |
| GCE | 1135 | 466293 | 3479201 | 466257 | 3479182 | 1933 | 2013 | -0.18 | -0.24 | -0.21 | 0.08 | -0.21 | 0.99 | 4 |
| GCE | 1136 | 466327 | 3479165 | 466291 | 3479138 | 1933 | 2013 | -0.41 | -0.21 | -0.31 | 0.08 | -0.31 | 0.96 | 4 |
| GCE | 1137 | 466358 | 3479126 | 466327 | 3479098 | 1933 | 2013 | -0.38 | -0.15 | -0.26 | 0.08 | -0.26 | 0.94 | 4 |
| GCE | 1138 | 466389 | 3479087 | 466356 | 3479057 | 1933 | 2013 | -0.21 | -0.41 | -0.31 | 0.08 | -0.31 | 0.97 | 4 |
| GCE | 1139 | 466428 | 3479055 | 466391 | 3479016 | 1933 | 2013 | -0.26 | -0.58 | -0.42 | 0.08 | -0.43 | 0.96 | 4 |
| GCE | 1140 | 466464 | 3479021 | 466432 | 3478981 | 1933 | 2013 | -0.17 | -0.60 | -0.39 | 0.08 | -0.39 | 0.91 | 4 |
| GCE | 1141 | 466501 | 3478988 | 466478 | 3478957 | 1933 | 2013 | -0.03 | -0.42 | -0.23 | 0.08 | -0.23 | 0.81 | 4 |
| GCE | 1142 | 466543 | 3478960 | 466521 | 3478929 | 1933 | 2013 | 0.01 | -0.42 | -0.21 | 0.08 | -0.21 | 0.75 | 4 |
| GCE | 1143 | 466586 | 3478935 | 466567 | 3478904 | 1933 | 2013 | 0.07 | -0.39 | -0.17 | 0.08 | -0.17 | 0.62 | 4 |
| GCE | 1144 | 466630 | 3478911 | 466615 | 3478880 | 1933 | 2013 | 0.04 | -0.33 | -0.15 | 0.08 | -0.15 | 0.66 | 4 |
| GCE | 1145 | 466678 | 3478898 | 466663 | 3478858 | 1933 | 2013 | -0.24 | -0.33 | -0.29 | 0.08 | -0.29 | 0.99 | 4 |
| GCE | 1146 | 466725 | 3478883 | 466717 | 3478839 | 1933 | 2013 | -0.19 | -0.42 | -0.31 | 0.08 | -0.31 | 0.95 | 4 |
| GCE | 1147 | 466774 | 3478878 | 466771 | 3478836 | 1933 | 2013 | -0.09 | -0.46 | -0.28 | 0.08 | -0.28 | 0.87 | 4 |
| GCE | 1148 | 466824 | 3478882 | 466831 | 3478836 | 1933 | 2013 | -0.08 | -0.57 | -0.33 | 0.08 | -0.33 | 0.85 | 4 |
| GCE | 1149 | 466873 | 3478891 | 466887 | 3478841 | 1933 | 2013 | -0.08 | -0.72 | -0.40 | 0.08 | -0.41 | 0.83 | 4 |
| GCE | 1150 | 466921 | 3478904 | 466937 | 3478855 | 1933 | 2013 | -0.02 | -0.74 | -0.39 | 0.08 | -0.39 | 0.78 | 4 |
| GCE | 1151 | 466968 | 3478921 | 466985 | 3478883 | 1933 | 2013 | 0.13 | -0.54 | -0.21 | 0.08 | -0.21 | 0.55 | 4 |
| GCE | 1152 | 467012 | 3478944 | 467032 | 3478904 | 1933 | 2013 | 0.14 | -0.59 | -0.23 | 0.08 | -0.23 | 0.55 | 4 |
| GCE | 1153 | 467056 | 3478968 | 467076 | 3478928 | 1933 | 2013 | 0.27 | -0.60 | -0.18 | 0.08 | -0.18 | 0.34 | 4 |
| GCE | 1154 | 467101 | 3478990 | 467120 | 3478951 | 1933 | 2013 | 0.17 | -0.54 | -0.19 | 0.08 | -0.20 | 0.48 | 4 |
| GCE | 1155 | 467148 | 3479006 | 467171 | 3478969 | 1933 | 2013 | -0.05 | -0.53 | -0.30 | 0.08 | -0.30 | 0.83 | 4 |
| GCE | 1156 | 467192 | 3479031 | 467211 | 3478992 | 1933 | 2013 | 0.03 | -0.57 | -0.27 | 0.08 | -0.28 | 0.72 | 4 |
| GCE | 1157 | 467235 | 3479056 | 467258 | 3479017 | 1933 | 2013 | -0.05 | -0.55 | -0.31 | 0.08 | -0.31 | 0.82 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1158 | 467278 | 3479081 | 467306 | 3479033 | 1933 | 2013 | -0.11 | -0.77 | -0.45 | 0.08 | -0.45 | 0.85 | 4 |
| GCE | 1159 | 467317 | 3479111 | 467350 | 3479058 | 1933 | 2013 | 0.10 | -1.03 | -0.48 | 0.08 | -0.48 | 0.68 | 4 |
| GCE | 1160 | 467361 | 3479135 | 467383 | 3479086 | 1933 | 2013 | -0.03 | -0.80 | -0.42 | 0.08 | -0.43 | 0.79 | 4 |
| GCE | 1161 | 467409 | 3479148 | 467421 | 3479105 | 1933 | 2013 | 0.11 | -0.57 | -0.24 | 0.08 | -0.24 | 0.60 | 4 |
| GCE | 1162 | 467456 | 3479161 | 467450 | 3479124 | 1933 | 2013 | 0.24 | -0.14 | 0.05 | 0.08 | 0.05 | 0.16 | 4 |
| GCE | 1163 | 467393 | 3478805 | 467349 | 3478861 | 1933 | 2013 | -0.72 | -0.54 | -0.63 | 0.08 | -0.63 | 0.99 | 4 |
| GCE | 1164 | 467346 | 3478788 | 467324 | 3478835 | 1933 | 2013 | -0.62 | -0.14 | -0.38 | 0.08 | -0.37 | 0.88 | 4 |
| GCE | 1165 | 467299 | 3478772 | 467281 | 3478824 | 1933 | 2013 | -0.44 | -0.42 | -0.43 | 0.08 | -0.43 | 1.00 | 4 |
| GCE | 1166 | 467253 | 3478753 | 467236 | 3478799 | 1933 | 2013 | -0.12 | -0.56 | -0.35 | 0.08 | -0.35 | 0.88 | 4 |
| GCE | 1167 | 467207 | 3478736 | 467191 | 3478787 | 1933 | 2013 | -0.06 | -0.75 | -0.42 | 0.08 | -0.42 | 0.81 | 4 |
| GCE | 1168 | 467157 | 3478739 | 467147 | 3478784 | 1933 | 2013 | 0.04 | -0.62 | -0.30 | 0.08 | -0.30 | 0.71 | 4 |
| GCE | 1169 | 467108 | 3478740 | 467101 | 3478774 | 1933 | 2013 | -0.23 | -0.14 | -0.18 | 0.08 | -0.18 | 0.98 | 4 |
| GCE | 1170 | 467059 | 3478733 | 467053 | 3478771 | 1933 | 2013 | -0.35 | -0.13 | -0.24 | 0.08 | -0.24 | 0.94 | 4 |
| GCE | 1171 | 467010 | 3478719 | 467001 | 3478764 | 1933 | 2013 | -0.51 | -0.10 | -0.30 | 0.08 | -0.30 | 0.87 | 4 |
| GCE | 1172 | 466963 | 3478705 | 466950 | 3478754 | 1933 | 2013 | -0.55 | -0.21 | -0.38 | 0.08 | -0.37 | 0.94 | 4 |
| GCE | 1173 | 466916 | 3478689 | 466903 | 3478735 | 1933 | 2013 | -0.54 | -0.14 | -0.34 | 0.08 | -0.34 | 0.90 | 4 |
| GCE | 1174 | 466869 | 3478671 | 466855 | 3478718 | 1933 | 2013 | -0.54 | -0.16 | -0.35 | 0.08 | -0.34 | 0.91 | 4 |
| GCE | 1175 | 466821 | 3478658 | 466808 | 3478696 | 1933 | 2013 | -0.39 | -0.13 | -0.26 | 0.08 | -0.25 | 0.92 | 4 |
| GCE | 1176 | 466777 | 3478635 | 466762 | 3478673 | 1933 | 2013 | -0.44 | -0.08 | -0.26 | 0.08 | -0.26 | 0.86 | 4 |
| GCE | 1177 | 466733 | 3478614 | 466717 | 3478648 | 1933 | 2013 | -0.27 | -0.16 | -0.21 | 0.08 | -0.21 | 0.98 | 4 |
| GCE | 1178 | 466687 | 3478593 | 466674 | 3478620 | 1933 | 2013 | -0.14 | -0.11 | -0.12 | 0.08 | -0.12 | 0.99 | 4 |
| GCE | 1179 | 466643 | 3478570 | 466631 | 3478597 | 1933 | 2013 | -0.18 | -0.06 | -0.12 | 0.08 | -0.12 | 0.91 | 4 |
| GCE | 1180 | 466596 | 3478554 | 466584 | 3478577 | 1933 | 2013 | -0.12 | 0.01 | -0.06 | 0.08 | -0.06 | 0.69 | 4 |
| GCE | 1181 | 466553 | 3478529 | 466539 | 3478556 | 1933 | 2013 | -0.21 | -0.04 | -0.13 | 0.08 | -0.12 | 0.86 | 4 |
| GCE | 1182 | 466510 | 3478504 | 466497 | 3478530 | 1933 | 2013 | -0.20 | -0.03 | -0.11 | 0.08 | -0.11 | 0.84 | 4 |
| GCE | 1183 | 466466 | 3478481 | 466454 | 3478504 | 1933 | 2013 | -0.03 | -0.12 | -0.08 | 0.08 | -0.08 | 0.90 | 4 |
| GCE | 1184 | 466423 | 3478455 | 466410 | 3478478 | 1933 | 2013 | NA | -0.16 | NA | 0.16 | -0.16 | 0.00 | 4 |
| GCE | 1185 | 466379 | 3478434 | 466365 | 3478458 | 1933 | 2013 | 0.20 | -0.12 | 0.04 | 0.08 | 0.04 | 0.13 | 4 |
| GCE | 1186 | 466337 | 3478406 | 466319 | 3478441 | 1933 | 2013 | 0.50 | -0.21 | 0.14 | 0.08 | 0.14 | 0.31 | 4 |
| GCE | 1187 | 466297 | 3478376 | 466278 | 3478413 | 1933 | 2013 | 0.54 | -0.28 | 0.12 | 0.08 | 0.12 | 0.21 | 4 |
| GCE | 1188 | 466257 | 3478346 | 466235 | 3478384 | 1933 | 2013 | 0.61 | -0.29 | 0.15 | 0.08 | 0.15 | 0.24 | 4 |
| GCE | 1189 | 466216 | 3478317 | 466193 | 3478354 | 1933 | 2013 | 0.62 | -0.18 | 0.21 | 0.08 | 0.20 | 0.44 | 4 |
| GCE | 1190 | 466178 | 3478285 | 466150 | 3478325 | 1933 | 2013 | 0.73 | -0.13 | 0.29 | 0.08 | 0.29 | 0.57 | 4 |
| GCE | 1191 | 466142 | 3478251 | 466108 | 3478295 | 1933 | 2013 | 0.90 | -0.14 | 0.37 | 0.08 | 0.36 | 0.60 | 4 |
| GCE | 1192 | 466103 | 3478219 | 466070 | 3478263 | 1933 | 2013 | 0.89 | -0.07 | 0.40 | 0.08 | 0.39 | 0.67 | 4 |
| GCE | 1193 | 466067 | 3478185 | 466027 | 3478233 | 1933 | 2013 | 1.08 | 0.00 | 0.53 | 0.08 | 0.52 | 0.74 | 4 |
| GCE | 1194 | 466035 | 3478148 | 465988 | 3478204 | 1933 | 2013 | 1.26 | 0.10 | 0.67 | 0.08 | 0.66 | 0.80 | 4 |
| GCE | 1195 | 465999 | 3478113 | 465948 | 3478171 | 1933 | 2013 | 1.34 | 0.11 | 0.71 | 0.08 | 0.71 | 0.80 | 4 |
| GCE | 1196 | 465967 | 3478076 | 465912 | 3478133 | 1933 | 2013 | 1.26 | 0.24 | 0.74 | 0.08 | 0.74 | 0.86 | 4 |
| GCE | 1197 | 465933 | 3478042 | 465874 | 3478101 | 1933 | 2013 | 1.29 | 0.31 | 0.79 | 0.08 | 0.79 | 0.88 | 4 |
| GCE | 1198 | 465896 | 3478009 | 465840 | 3478064 | 1933 | 2013 | 1.32 | 0.18 | 0.74 | 0.08 | 0.73 | 0.83 | 4 |
| GCE | 1199 | 465859 | 3477976 | 465803 | 3478027 | 1933 | 2013 | 1.33 | 0.06 | 0.68 | 0.08 | 0.68 | 0.77 | 4 |
| GCE | 1200 | 465820 | 3477945 | 465769 | 3477990 | 1933 | 2013 | 1.24 | -0.04 | 0.59 | 0.08 | 0.58 | 0.71 | 4 |
| GCE | 1201 | 465782 | 3477914 | 465740 | 3477952 | 1933 | 2013 | 0.93 | -0.11 | 0.40 | 0.08 | 0.39 | 0.63 | 4 |
| GCE | 1202 | 465740 | 3477886 | 465703 | 3477919 | 1933 | 2013 | 0.75 | -0.14 | 0.29 | 0.08 | 0.29 | 0.56 | 4 |
| GCE | 1203 | 465699 | 3477857 | 465669 | 3477887 | 1933 | 2013 | 0.57 | -0.11 | 0.22 | 0.08 | 0.22 | 0.55 | 4 |
| GCE | 1204 | 465657 | 3477831 | 465635 | 3477856 | 1933 | 2013 | NA | -0.05 | NA | 0.16 | -0.05 | 0.00 | 4 |
| GCE | 1205 | 465617 | 3477800 | 465601 | 3477822 | 1933 | 2013 | 0.18 | -0.12 | 0.03 | 0.08 | 0.03 | 0.09 | 4 |
| GCE | 1206 | 465575 | 3477775 | 465559 | 3477797 | 1933 | 2013 | 0.18 | -0.03 | 0.07 | 0.08 | 0.07 | 0.58 | 4 |
| GCE | 1207 | 465533 | 3477748 | 465521 | 3477770 | 1933 | 2013 | 0.10 | -0.01 | 0.04 | 0.08 | 0.04 | 0.67 | 4 |
| GCE | 1208 | 465491 | 3477723 | 465479 | 3477747 | 1933 | 2013 | 0.16 | -0.01 | 0.07 | 0.08 | 0.07 | 0.68 | 4 |
| GCE | 1209 | 465451 | 3477693 | 465435 | 3477726 | 1933 | 2013 | 0.41 | -0.07 | 0.17 | 0.08 | 0.16 | 0.58 | 4 |
| GCE | 1210 | 465408 | 3477667 | 465387 | 3477711 | 1933 | 2013 | 0.75 | -0.08 | 0.33 | 0.08 | 0.32 | 0.65 | 4 |
| GCE | 1211 | 465365 | 3477642 | 465342 | 3477690 | 1933 | 2013 | 0.87 | -0.01 | 0.42 | 0.08 | 0.41 | 0.73 | 4 |
| GCE | 1212 | 465324 | 3477614 | 465296 | 3477664 | 1933 | 2013 | 0.94 | 0.02 | 0.47 | 0.08 | 0.46 | 0.75 | 4 |
| GCE | 1213 | 465282 | 3477587 | 465252 | 3477636 | 1933 | 2013 | 0.92 | 0.04 | 0.47 | 0.08 | 0.47 | 0.77 | 4 |
| GCE | 1214 | 465242 | 3477557 | 465210 | 3477608 | 1933 | 2013 | 1.03 | -0.04 | 0.48 | 0.08 | 0.48 | 0.71 | 4 |
| GCE | 1215 | 465201 | 3477530 | 465167 | 3477581 | 1933 | 2013 | 1.06 | -0.04 | 0.50 | 0.08 | 0.49 | 0.71 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1216 | 465160 | 3477501 | 465125 | 3477554 | 1933 | 2013 | 1.12 | -0.04 | 0.53 | 0.08 | 0.53 | 0.71 | 4 |
| GCE | 1217 | 465121 | 3477471 | 465082 | 3477525 | 1933 | 2013 | 1.19 | -0.07 | 0.55 | 0.08 | 0.54 | 0.69 | 4 |
| GCE | 1218 | 465080 | 3477443 | 465039 | 3477495 | 1933 | 2013 | 1.16 | 0.01 | 0.57 | 0.08 | 0.57 | 0.74 | 4 |
| GCE | 1219 | 465040 | 3477414 | 465002 | 3477462 | 1933 | 2013 | 0.96 | 0.07 | 0.51 | 0.08 | 0.50 | 0.79 | 4 |
| GCE | 1220 | 464997 | 3477390 | 464963 | 3477433 | 1933 | 2013 | 0.87 | 0.01 | 0.43 | 0.08 | 0.42 | 0.74 | 4 |
| GCE | 1221 | 464959 | 3477359 | 464927 | 3477405 | 1933 | 2013 | 0.87 | 0.03 | 0.44 | 0.08 | 0.44 | 0.76 | 4 |
| GCE | 1222 | 464916 | 3477333 | 464886 | 3477375 | 1933 | 2013 | 0.69 | 0.10 | 0.39 | 0.08 | 0.39 | 0.83 | 4 |
| GCE | 1223 | 464873 | 3477309 | 464844 | 3477354 | 1933 | 2013 | 0.67 | 0.19 | 0.43 | 0.08 | 0.42 | 0.90 | 4 |
| GCE | 1224 | 464830 | 3477285 | 464801 | 3477325 | 1933 | 2013 | NA | 0.34 | NA | 0.16 | 0.34 | 0.00 | 4 |
| GCE | 1225 | 464748 | 3477233 | 464728 | 3477253 | 1933 | 2013 | 0.22 | -0.04 | 0.09 | 0.08 | 0.08 | 0.57 | 4 |
| GCE | 1226 | 464711 | 3477200 | 464694 | 3477216 | 1933 | 2013 | -0.07 | 0.02 | -0.02 | 0.08 | -0.02 | 0.46 | 4 |
| GCE | 1227 | 464690 | 3477159 | 464662 | 3477182 | 1933 | 2013 | -0.18 | 0.34 | 0.09 | 0.08 | 0.09 | 0.26 | 4 |
| GCE | 1228 | 464659 | 3477120 | 464634 | 3477142 | 1933 | 2013 | -0.10 | 0.31 | 0.11 | 0.08 | 0.11 | 0.45 | 4 |
| GCE | 1229 | 464621 | 3477088 | 464604 | 3477102 | 1933 | 2013 | -0.06 | 0.06 | 0.00 | 0.08 | 0.00 | 0.00 | 4 |
| GCE | 1230 | 464591 | 3477048 | 464569 | 3477067 | 1933 | 2013 | -0.15 | 0.22 | 0.04 | 0.08 | 0.04 | 0.14 | 4 |
| GCE | 1231 | 464558 | 3477010 | 464536 | 3477031 | 1933 | 2013 | -0.21 | 0.25 | 0.03 | 0.08 | 0.03 | 0.04 | 4 |
| GCE | 1232 | 464523 | 3476974 | 464505 | 3476995 | 1933 | 2013 | -0.21 | 0.06 | -0.07 | 0.08 | -0.07 | 0.46 | 4 |
| GCE | 1233 | 464484 | 3476944 | 464471 | 3476962 | 1933 | 2013 | NA | 0.07 | NA | 0.16 | 0.07 | 0.00 | 4 |
| GCE | 1234 | 464443 | 3476915 | 464431 | 3476942 | 1933 | 2013 | 0.23 | -0.13 | 0.05 | 0.08 | 0.05 | 0.16 | 4 |
| GCE | 1235 | 464403 | 3476886 | 464392 | 3476930 | 1933 | 2013 | 0.49 | 0.13 | 0.31 | 0.08 | 0.30 | 0.90 | 4 |
| GCE | 1236 | 464342 | 3476796 | 464294 | 3476790 | 1933 | 2013 | -0.25 | -0.38 | -0.31 | 0.08 | -0.32 | 0.99 | 4 |
| GCE | 1237 | 464326 | 3476750 | 464281 | 3476749 | 1933 | 2013 | -0.34 | -0.28 | -0.31 | 0.08 | -0.31 | 1.00 | 4 |
| GCE | 1238 | 464332 | 3476700 | 464276 | 3476704 | 1933 | 2013 | -0.28 | NA | NA | 0.16 | -0.28 | 0.00 | 4 |
| GCE | 1239 | 464345 | 3476553 | 464299 | 3476541 | 1933 | 2013 | -0.19 | -0.46 | -0.33 | 0.08 | -0.33 | 0.95 | 4 |
| GCE | 1240 | 464363 | 3476506 | 464307 | 3476496 | 1933 | 2013 | -0.26 | -0.21 | -0.23 | 0.08 | -0.23 | 1.00 | 4 |
| GCE | 1241 | 464381 | 3476460 | 464345 | 3476447 | 1933 | 2013 | -0.23 | -0.24 | -0.24 | 0.08 | -0.24 | 1.00 | 4 |
| GCE | 1242 | 464401 | 3476414 | 464367 | 3476394 | 1933 | 2013 | -0.17 | -0.30 | -0.24 | 0.08 | -0.24 | 0.98 | 4 |
| GCE | 1243 | 464421 | 3476368 | 464399 | 3476355 | 1933 | 2013 | 0.03 | -0.12 | -0.05 | 0.08 | -0.05 | 0.58 | 4 |
| GCE | 1244 | 464450 | 3476328 | 464430 | 3476313 | 1933 | 2013 | 0.11 | -0.02 | 0.04 | 0.08 | 0.04 | 0.53 | 4 |
| GCE | 1245 | 464481 | 3476288 | 464461 | 3476271 | 1933 | 2013 | 0.15 | -0.01 | 0.07 | 0.08 | 0.07 | 0.69 | 4 |
| GCE | 1246 | 464513 | 3476252 | 464492 | 3476234 | 1933 | 2013 | 0.14 | 0.05 | 0.09 | 0.08 | 0.09 | 0.92 | 4 |
| GCE | 1247 | 464546 | 3476218 | 464523 | 3476196 | 1933 | 2013 | 0.21 | 0.09 | 0.15 | 0.08 | 0.15 | 0.94 | 4 |
| GCE | 1248 | 464582 | 3476185 | 464557 | 3476159 | 1933 | 2013 | 0.31 | 0.06 | 0.18 | 0.08 | 0.18 | 0.87 | 4 |
| GCE | 1249 | 464618 | 3476154 | 464592 | 3476121 | 1933 | 2013 | 0.41 | 0.13 | 0.27 | 0.08 | 0.27 | 0.91 | 4 |
| GCE | 1250 | 464655 | 3476121 | 464631 | 3476086 | 1933 | 2013 | 0.46 | 0.09 | 0.27 | 0.08 | 0.27 | 0.86 | 4 |
| GCE | 1251 | 464697 | 3476095 | 464669 | 3476065 | 1933 | 2013 | 0.30 | 0.21 | 0.25 | 0.08 | 0.25 | 0.99 | 4 |
| GCE | 1252 | 464736 | 3476067 | 464710 | 3476052 | 1933 | 2013 | 0.09 | 0.12 | 0.10 | 0.08 | 0.10 | 1.00 | 4 |
| GCE | 1253 | 464757 | 3476023 | 464735 | 3476023 | 1933 | 2013 | -0.03 | 0.05 | 0.01 | 0.08 | 0.01 | 0.13 | 4 |
| GCE | 1254 | 464733 | 3475983 | 464707 | 3475996 | 1933 | 2013 | 0.12 | -0.11 | 0.00 | 0.08 | 0.00 | 0.00 | 4 |
| GCE | 1255 | 464693 | 3475953 | 464670 | 3475980 | 1933 | 2013 | 0.38 | -0.21 | 0.08 | 0.08 | 0.07 | 0.16 | 4 |
| GCE | 1256 | 464645 | 3475937 | 464634 | 3475957 | 1933 | 2013 | 0.08 | -0.08 | 0.00 | 0.08 | 0.00 | 0.00 | 4 |
| GCE | 1257 | 464606 | 3475906 | 464592 | 3475934 | 1933 | 2013 | -0.13 | -0.13 | -0.13 | 0.08 | -0.13 | 1.00 | 4 |
| GCE | 1258 | 464566 | 3475877 | 464546 | 3475903 | 1933 | 2013 | -0.09 | -0.22 | -0.16 | 0.08 | -0.16 | 0.94 | 4 |
| GCE | 1259 | 464534 | 3475838 | 464509 | 3475870 | 1933 | 2013 | -0.47 | -0.02 | -0.24 | 0.08 | -0.24 | 0.78 | 4 |
| GCE | 1260 | 464502 | 3475800 | 464467 | 3475828 | 1933 | 2013 | -0.64 | 0.06 | -0.28 | 0.08 | -0.28 | 0.65 | 4 |
| GCE | 1261 | 464470 | 3475762 | 464436 | 3475782 | 1933 | 2013 | -0.50 | 0.10 | -0.19 | 0.08 | -0.19 | 0.55 | 4 |
| GCE | 1262 | 464452 | 3475716 | 464412 | 3475743 | 1933 | 2013 | -0.67 | 0.16 | -0.25 | 0.08 | -0.24 | 0.51 | 4 |
| GCE | 1263 | 464457 | 3475666 | 464409 | 3475721 | 1933 | 2013 | -0.95 | -0.10 | -0.52 | 0.08 | -0.51 | 0.82 | 4 |
| GCE | 1264 | 464390 | 3475601 | 464394 | 3475700 | 1933 | 2013 | 0.39 | -1.69 | -0.67 | 0.08 | -0.68 | 0.56 | 4 |
| GCE | 1265 | 464363 | 3475643 | 464386 | 3475704 | 1933 | 2013 | 0.23 | -1.05 | -0.43 | 0.08 | -0.43 | 0.58 | 4 |
| GCE | 1266 | 464325 | 3475674 | 464352 | 3475733 | 1933 | 2013 | 0.47 | -1.09 | -0.33 | 0.08 | -0.33 | 0.36 | 4 |
| GCE | 1267 | 464291 | 3475710 | 464315 | 3475766 | 1933 | 2013 | 0.09 | -0.91 | -0.42 | 0.08 | -0.42 | 0.68 | 4 |
| GCE | 1268 | 464246 | 3475731 | 464262 | 3475785 | 1933 | 2013 | 0.23 | -0.88 | -0.34 | 0.08 | -0.34 | 0.53 | 4 |
| GCE | 1269 | 464197 | 3475743 | 464197 | 3475788 | 1933 | 2013 | 0.03 | -0.61 | -0.30 | 0.08 | -0.30 | 0.73 | 4 |
| GCE | 1270 | 464148 | 3475740 | 464137 | 3475783 | 1933 | 2013 | 0.10 | -0.58 | -0.25 | 0.08 | -0.25 | 0.63 | 4 |
| GCE | 1271 | 464099 | 3475730 | 464085 | 3475768 | 1933 | 2013 | 0.07 | -0.50 | -0.22 | 0.08 | -0.23 | 0.66 | 4 |
| GCE | 1272 | 464053 | 3475711 | 464035 | 3475742 | 1933 | 2013 | 0.12 | -0.38 | -0.14 | 0.08 | -0.14 | 0.47 | 4 |
| GCE | 1273 | 464011 | 3475683 | 463989 | 3475714 | 1933 | 2013 | 0.16 | -0.43 | -0.14 | 0.08 | -0.14 | 0.42 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1274 | 463971 | 3475653 | 463947 | 3475684 | 1933 | 2013 | 0.22 | -0.47 | -0.13 | 0.08 | -0.14 | 0.33 | 4 |
| GCE | 1275 | 463932 | 3475623 | 463909 | 3475649 | 1933 | 2013 | 0.39 | -0.35 | 0.01 | 0.08 | 0.01 | 0.00 | 4 |
| GCE | 1276 | 463897 | 3475587 | 463873 | 3475610 | 1933 | 2013 | 0.34 | -0.16 | 0.08 | 0.08 | 0.08 | 0.23 | 4 |
| GCE | 1277 | 463868 | 3475548 | 463845 | 3475566 | 1933 | 2013 | -0.01 | -0.21 | -0.11 | 0.08 | -0.12 | 0.79 | 4 |
| GCE | 1278 | 463840 | 3475507 | 463816 | 3475523 | 1933 | 2013 | -0.01 | -0.20 | -0.11 | 0.08 | -0.11 | 0.80 | 4 |
| GCE | 1279 | 463819 | 3475462 | 463794 | 3475485 | 1933 | 2013 | 0.12 | -0.33 | -0.11 | 0.08 | -0.11 | 0.43 | 4 |
| GCE | 1280 | 463792 | 3475421 | 463774 | 3475444 | 1933 | 2013 | 0.20 | -0.22 | -0.02 | 0.08 | -0.02 | 0.02 | 4 |
| GCE | 1281 | 463761 | 3475382 | 463743 | 3475424 | 1933 | 2013 | 0.12 | -0.57 | -0.23 | 0.08 | -0.24 | 0.59 | 4 |
| GCE | 1282 | 463724 | 3475349 | 463710 | 3475428 | 1933 | 2013 | -0.23 | -1.22 | -0.73 | 0.08 | -0.74 | 0.87 | 4 |
| GCE | 1283 | 463676 | 3475339 | 463677 | 3475436 | 1933 | 2013 | -0.66 | -1.24 | -0.96 | 0.08 | -0.96 | 0.97 | 4 |
| GCE | 1284 | 463630 | 3475352 | 463638 | 3475437 | 1933 | 2013 | -0.61 | -0.99 | -0.81 | 0.08 | -0.81 | 0.98 | 4 |
| GCE | 1285 | 463584 | 3475370 | 463593 | 3475436 | 1933 | 2013 | -0.54 | -0.61 | -0.58 | 0.08 | -0.58 | 1.00 | 4 |
| GCE | 1286 | 463540 | 3475393 | 463553 | 3475434 | 1933 | 2013 | -0.15 | -0.39 | -0.27 | 0.08 | -0.27 | 0.94 | 4 |
| GCE | 1287 | 463496 | 3475416 | 463515 | 3475438 | 1933 | 2013 | -0.04 | -0.14 | -0.09 | 0.08 | -0.09 | 0.90 | 4 |
| GCE | 1288 | 463457 | 3475444 | 463491 | 3475460 | 1933 | 2013 | 0.31 | -0.28 | 0.00 | 0.08 | 0.00 | 0.00 | 4 |
| GCE | 1289 | 464490 | 3475661 | 464541 | 3475681 | 1933 | 2013 | 0.51 | -0.84 | -0.18 | 0.08 | -0.18 | 0.18 | 4 |
| GCE | 1290 | 464505 | 3475705 | 464541 | 3475702 | 1933 | 2013 | 0.28 | -0.32 | -0.03 | 0.08 | -0.03 | 0.04 | 4 |
| GCE | 1291 | 464530 | 3475748 | 464561 | 3475733 | 1933 | 2013 | 0.34 | -0.11 | 0.11 | 0.08 | 0.11 | 0.43 | 4 |
| GCE | 1292 | 464559 | 3475788 | 464586 | 3475768 | 1933 | 2013 | 0.16 | 0.20 | 0.18 | 0.08 | 0.18 | 0.99 | 4 |
| GCE | 1293 | 464593 | 3475825 | 464614 | 3475799 | 1933 | 2013 | -0.04 | 0.31 | 0.14 | 0.08 | 0.14 | 0.65 | 4 |
| GCE | 1294 | 464634 | 3475852 | 464650 | 3475826 | 1933 | 2013 | -0.27 | 0.10 | -0.08 | 0.08 | -0.08 | 0.37 | 4 |
| GCE | 1295 | 464676 | 3475879 | 464693 | 3475846 | 1933 | 2013 | -0.39 | -0.04 | -0.21 | 0.08 | -0.21 | 0.82 | 4 |
| GCE | 1296 | 464724 | 3475893 | 464736 | 3475857 | 1933 | 2013 | -0.41 | -0.06 | -0.23 | 0.08 | -0.23 | 0.84 | 4 |
| GCE | 1297 | 464773 | 3475902 | 464776 | 3475867 | 1933 | 2013 | -0.07 | -0.27 | -0.17 | 0.08 | -0.18 | 0.90 | 4 |
| GCE | 1298 | 464900 | 3475999 | 464954 | 3476037 | 1933 | 2013 | 0.82 | -0.10 | 0.35 | 0.08 | 0.35 | 0.63 | 4 |
| GCE | 1299 | 464878 | 3476040 | 464940 | 3476072 | 1933 | 2013 | 0.70 | -0.13 | 0.28 | 0.08 | 0.28 | 0.57 | 4 |
| GCE | 1300 | 464860 | 3476084 | 464918 | 3476110 | 1933 | 2013 | 0.54 | -0.20 | 0.16 | 0.08 | 0.16 | 0.35 | 4 |
| GCE | 1301 | 464841 | 3476131 | 464900 | 3476163 | 1933 | 2013 | 0.36 | -0.28 | 0.04 | 0.08 | 0.03 | 0.03 | 4 |
| GCE | 1302 | 464816 | 3476174 | 464876 | 3476215 | 1933 | 2013 | 0.41 | -0.30 | 0.04 | 0.08 | 0.04 | 0.04 | 4 |
| GCE | 1303 | 464789 | 3476215 | 464848 | 3476261 | 1933 | 2013 | 0.53 | -0.21 | 0.15 | 0.08 | 0.15 | 0.33 | 4 |
| GCE | 1304 | 464752 | 3476249 | 464810 | 3476305 | 1933 | 2013 | 0.75 | -0.18 | 0.28 | 0.08 | 0.27 | 0.51 | 4 |
| GCE | 1305 | 464713 | 3476279 | 464770 | 3476343 | 1933 | 2013 | 1.06 | -0.22 | 0.41 | 0.08 | 0.40 | 0.54 | 4 |
| GCE | 1306 | 464676 | 3476313 | 464727 | 3476376 | 1933 | 2013 | 1.06 | -0.18 | 0.42 | 0.08 | 0.42 | 0.58 | 4 |
| GCE | 1307 | 464636 | 3476344 | 464686 | 3476406 | 1933 | 2013 | 1.18 | -0.06 | 0.54 | 0.08 | 0.54 | 0.69 | 4 |
| GCE | 1308 | 464598 | 3476375 | 464653 | 3476439 | 1933 | 2013 | 1.27 | -0.04 | 0.60 | 0.08 | 0.59 | 0.71 | 4 |
| GCE | 1309 | 464560 | 3476408 | 464617 | 3476466 | 1933 | 2013 | 1.34 | 0.02 | 0.66 | 0.08 | 0.66 | 0.75 | 4 |
| GCE | 1310 | 464525 | 3476442 | 464587 | 3476497 | 1933 | 2013 | 1.38 | 0.00 | 0.67 | 0.08 | 0.67 | 0.74 | 4 |
| GCE | 1311 | 464490 | 3476476 | 464563 | 3476529 | 1933 | 2013 | 1.41 | 0.12 | 0.75 | 0.08 | 0.74 | 0.80 | 4 |
| GCE | 1312 | 464459 | 3476515 | 464541 | 3476565 | 1933 | 2013 | 1.47 | 0.21 | 0.82 | 0.08 | 0.82 | 0.84 | 4 |
| GCE | 1313 | 464432 | 3476557 | 464523 | 3476600 | 1933 | 2013 | 1.56 | 0.33 | 0.93 | 0.08 | 0.93 | 0.87 | 4 |
| GCE | 1314 | 464410 | 3476602 | 464506 | 3476635 | 1933 | 2013 | 1.63 | 0.32 | 0.96 | 0.08 | 0.96 | 0.86 | 4 |
| GCE | 1315 | 464396 | 3476650 | 464496 | 3476667 | 1933 | 2013 | 1.49 | 0.39 | 0.93 | 0.08 | 0.92 | 0.89 | 4 |
| GCE | 1316 | 464392 | 3476699 | 464491 | 3476697 | 1933 | 2013 | 1.36 | 0.44 | 0.89 | 0.08 | 0.89 | 0.92 | 4 |
| GCE | 1317 | 464421 | 3476738 | 464494 | 3476718 | 1933 | 2013 | 1.10 | 0.02 | 0.55 | 0.08 | 0.54 | 0.75 | 4 |
| GCE | 1318 | 464453 | 3476777 | 464505 | 3476753 | 1933 | 2013 | 0.68 | -0.11 | 0.28 | 0.08 | 0.27 | 0.59 | 4 |
| GCE | 1319 | 464489 | 3476810 | 464530 | 3476777 | 1933 | 2013 | 0.45 | 0.04 | 0.24 | 0.08 | 0.24 | 0.80 | 4 |
| GCE | 1320 | 464529 | 3476840 | 464559 | 3476805 | 1933 | 2013 | 0.38 | -0.23 | 0.07 | 0.08 | 0.07 | 0.12 | 4 |
| GCE | 1321 | 464573 | 3476861 | 464590 | 3476828 | 1933 | 2013 | 0.17 | -0.28 | -0.06 | 0.08 | -0.06 | 0.18 | 4 |
| GCE | 1322 | 464619 | 3476881 | 464632 | 3476854 | 1933 | 2013 | 0.10 | -0.14 | -0.02 | 0.08 | -0.02 | 0.10 | 4 |
| GCE | 1323 | 464665 | 3476900 | 464676 | 3476869 | 1933 | 2013 | 0.17 | -0.15 | 0.00 | 0.08 | 0.00 | 0.00 | 4 |
| GCE | 1324 | 464709 | 3476924 | 464724 | 3476893 | 1933 | 2013 | 0.30 | -0.12 | 0.08 | 0.08 | 0.08 | 0.32 | 4 |
| GCE | 1325 | 464751 | 3476950 | 464769 | 3476915 | 1933 | 2013 | 0.50 | -0.05 | 0.22 | 0.08 | 0.22 | 0.66 | 4 |
| GCE | 1326 | 464793 | 3476977 | 464816 | 3476943 | 1933 | 2013 | 0.54 | -0.19 | 0.17 | 0.08 | 0.16 | 0.38 | 4 |
| GCE | 1327 | 464833 | 3477006 | 464859 | 3476974 | 1933 | 2013 | 0.50 | -0.02 | 0.24 | 0.08 | 0.23 | 0.71 | 4 |
| GCE | 1328 | 464872 | 3477037 | 464901 | 3477002 | 1933 | 2013 | 0.43 | -0.08 | 0.17 | 0.08 | 0.17 | 0.56 | 4 |
| GCE | 1329 | 464909 | 3477070 | 464939 | 3477033 | 1933 | 2013 | 0.45 | -0.17 | 0.13 | 0.08 | 0.13 | 0.35 | 4 |
| GCE | 1330 | 464949 | 3477098 | 464976 | 3477066 | 1933 | 2013 | 0.24 | -0.03 | 0.10 | 0.08 | 0.10 | 0.61 | 4 |
| GCE | 1331 | 464985 | 3477132 | 465014 | 3477100 | 1933 | 2013 | 0.23 | 0.07 | 0.15 | 0.08 | 0.15 | 0.91 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1332 | 465023 | 3477164 | 465051 | 3477129 | 1933 | 2013 | 0.17 | 0.10 | 0.13 | 0.08 | 0.13 | 0.98 | 4 |
| GCE | 1333 | 465062 | 3477193 | 465089 | 3477161 | 1933 | 2013 | 0.15 | 0.03 | 0.09 | 0.08 | 0.09 | 0.88 | 4 |
| GCE | 1334 | 465099 | 3477225 | 465124 | 3477192 | 1933 | 2013 | 0.22 | -0.01 | 0.10 | 0.08 | 0.10 | 0.70 | 4 |
| GCE | 1335 | 465138 | 3477257 | 465162 | 3477223 | 1933 | 2013 | 0.29 | 0.01 | 0.15 | 0.08 | 0.15 | 0.77 | 4 |
| GCE | 1336 | 465178 | 3477286 | 465201 | 3477251 | 1933 | 2013 | 0.31 | -0.06 | 0.12 | 0.08 | 0.12 | 0.55 | 4 |
| GCE | 1337 | 465217 | 3477316 | 465240 | 3477276 | 1933 | 2013 | 0.29 | 0.15 | 0.22 | 0.08 | 0.22 | 0.97 | 4 |
| GCE | 1338 | 465257 | 3477346 | 465282 | 3477302 | 1933 | 2013 | 0.22 | 0.24 | 0.23 | 0.08 | 0.23 | 1.00 | 4 |
| GCE | 1339 | 465299 | 3477372 | 465324 | 3477328 | 1933 | 2013 | 0.23 | 0.25 | 0.24 | 0.08 | 0.24 | 1.00 | 4 |
| GCE | 1340 | 465342 | 3477397 | 465366 | 3477356 | 1933 | 2013 | 0.41 | 0.16 | 0.28 | 0.08 | 0.28 | 0.94 | 4 |
| GCE | 1341 | 465384 | 3477423 | 465408 | 3477381 | 1933 | 2013 | 0.37 | 0.22 | 0.29 | 0.08 | 0.29 | 0.98 | 4 |
| GCE | 1342 | 465427 | 3477448 | 465453 | 3477403 | 1933 | 2013 | 0.23 | 0.31 | 0.27 | 0.08 | 0.27 | 0.99 | 4 |
| GCE | 1343 | 465471 | 3477472 | 465496 | 3477427 | 1933 | 2013 | 0.12 | 0.28 | 0.20 | 0.08 | 0.20 | 0.95 | 4 |
| GCE | 1344 | 465515 | 3477496 | 465541 | 3477453 | 1933 | 2013 | 0.17 | 0.27 | 0.22 | 0.08 | 0.22 | 0.98 | 4 |
| GCE | 1345 | 465559 | 3477520 | 465582 | 3477478 | 1933 | 2013 | 0.36 | 0.21 | 0.29 | 0.08 | 0.29 | 0.98 | 4 |
| GCE | 1346 | 465600 | 3477544 | 465624 | 3477502 | 1933 | 2013 | 0.50 | 0.18 | 0.34 | 0.08 | 0.34 | 0.93 | 4 |
| GCE | 1347 | 465644 | 3477569 | 465668 | 3477526 | 1933 | 2013 | 0.34 | 0.21 | 0.27 | 0.08 | 0.27 | 0.98 | 4 |
| GCE | 1348 | 465689 | 3477585 | 465712 | 3477546 | 1933 | 2013 | 0.24 | 0.13 | 0.18 | 0.08 | 0.18 | 0.97 | 4 |
| GCE | 1349 | 465759 | 3477648 | 465790 | 3477601 | 1933 | 2013 | 0.63 | 0.06 | 0.34 | 0.08 | 0.33 | 0.80 | 4 |
| GCE | 1350 | 465799 | 3477670 | 465827 | 3477627 | 1933 | 2013 | 0.78 | -0.15 | 0.30 | 0.08 | 0.30 | 0.55 | 4 |
| GCE | 1351 | 465841 | 3477697 | 465867 | 3477654 | 1933 | 2013 | 0.77 | -0.28 | 0.23 | 0.08 | 0.23 | 0.37 | 4 |
| GCE | 1352 | 465885 | 3477720 | 465910 | 3477678 | 1933 | 2013 | 0.73 | -0.13 | 0.29 | 0.08 | 0.29 | 0.57 | 4 |
| GCE | 1353 | 465930 | 3477742 | 465955 | 3477702 | 1933 | 2013 | 0.71 | -0.10 | 0.29 | 0.08 | 0.29 | 0.60 | 4 |
| GCE | 1354 | 465971 | 3477771 | 465999 | 3477727 | 1933 | 2013 | 0.80 | -0.20 | 0.29 | 0.08 | 0.29 | 0.50 | 4 |
| GCE | 1355 | 466010 | 3477802 | 466041 | 3477758 | 1933 | 2013 | 0.85 | -0.11 | 0.36 | 0.08 | 0.36 | 0.62 | 4 |
| GCE | 1356 | 466052 | 3477830 | 466083 | 3477791 | 1933 | 2013 | 0.76 | -0.10 | 0.32 | 0.08 | 0.32 | 0.62 | 4 |
| GCE | 1357 | 466096 | 3477854 | 466122 | 3477823 | 1933 | 2013 | 0.52 | -0.14 | 0.18 | 0.08 | 0.18 | 0.46 | 4 |
| GCE | 1358 | 466134 | 3477885 | 466162 | 3477855 | 1933 | 2013 | 0.53 | -0.11 | 0.20 | 0.08 | 0.20 | 0.53 | 4 |
| GCE | 1359 | 466170 | 3477919 | 466199 | 3477891 | 1933 | 2013 | 0.47 | 0.04 | 0.25 | 0.08 | 0.25 | 0.80 | 4 |
| GCE | 1360 | 466209 | 3477947 | 466234 | 3477919 | 1933 | 2013 | 0.45 | -0.17 | 0.13 | 0.08 | 0.13 | 0.34 | 4 |
| GCE | 1361 | 466248 | 3477977 | 466268 | 3477952 | 1933 | 2013 | 0.33 | -0.14 | 0.09 | 0.08 | 0.09 | 0.31 | 4 |
| GCE | 1362 | 466282 | 3478013 | 466309 | 3477981 | 1933 | 2013 | 0.34 | 0.19 | 0.26 | 0.08 | 0.26 | 0.97 | 4 |
| GCE | 1363 | 466320 | 3478045 | 466339 | 3478017 | 1933 | 2013 | 0.20 | 0.12 | 0.16 | 0.08 | 0.16 | 0.98 | 4 |
| GCE | 1364 | 466357 | 3478075 | 466375 | 3478045 | 1933 | 2013 | 0.30 | 0.05 | 0.17 | 0.08 | 0.17 | 0.84 | 4 |
| GCE | 1365 | 466396 | 3478106 | 466419 | 3478074 | 1933 | 2013 | 0.33 | 0.15 | 0.24 | 0.08 | 0.24 | 0.95 | 4 |
| GCE | 1366 | 466436 | 3478135 | 466463 | 3478097 | 1933 | 2013 | 0.45 | 0.22 | 0.33 | 0.08 | 0.33 | 0.96 | 4 |
| GCE | 1367 | 466477 | 3478159 | 466501 | 3478125 | 1933 | 2013 | 0.53 | -0.05 | 0.24 | 0.08 | 0.23 | 0.65 | 4 |
| GCE | 1368 | 466517 | 3478190 | 466542 | 3478155 | 1933 | 2013 | 0.58 | -0.08 | 0.24 | 0.08 | 0.24 | 0.61 | 4 |
| GCE | 1369 | 466554 | 3478223 | 466584 | 3478182 | 1933 | 2013 | 0.77 | -0.24 | 0.26 | 0.08 | 0.25 | 0.43 | 4 |
| GCE | 1370 | 466593 | 3478254 | 466622 | 3478212 | 1933 | 2013 | 0.79 | -0.24 | 0.26 | 0.08 | 0.26 | 0.43 | 4 |
| GCE | 1371 | 466632 | 3478285 | 466665 | 3478239 | 1933 | 2013 | 0.95 | -0.10 | 0.41 | 0.08 | 0.41 | 0.65 | 4 |
| GCE | 1372 | 466665 | 3478322 | 466705 | 3478267 | 1933 | 2013 | 1.21 | -0.35 | 0.41 | 0.08 | 0.41 | 0.45 | 4 |
| GCE | 1373 | 466704 | 3478355 | 466746 | 3478296 | 1933 | 2013 | 1.34 | -0.18 | 0.57 | 0.08 | 0.56 | 0.62 | 4 |
| GCE | 1374 | 466740 | 3478389 | 466785 | 3478328 | 1933 | 2013 | 1.42 | -0.10 | 0.64 | 0.08 | 0.64 | 0.68 | 4 |
| GCE | 1375 | 466778 | 3478420 | 466825 | 3478355 | 1933 | 2013 | 1.52 | 0.02 | 0.75 | 0.08 | 0.74 | 0.75 | 4 |
| GCE | 1376 | 466813 | 3478454 | 466865 | 3478386 | 1933 | 2013 | 1.60 | 0.07 | 0.82 | 0.08 | 0.82 | 0.77 | 4 |
| GCE | 1377 | 466851 | 3478486 | 466907 | 3478410 | 1933 | 2013 | 1.72 | 0.15 | 0.91 | 0.08 | 0.91 | 0.80 | 4 |
| GCE | 1378 | 466888 | 3478519 | 466945 | 3478440 | 1933 | 2013 | 1.66 | 0.29 | 0.96 | 0.08 | 0.95 | 0.85 | 4 |
| GCE | 1379 | 466927 | 3478550 | 466983 | 3478465 | 1933 | 2013 | 1.79 | 0.26 | 1.01 | 0.08 | 1.01 | 0.84 | 4 |
| GCE | 1380 | 466968 | 3478577 | 467025 | 3478489 | 1933 | 2013 | 1.78 | 0.36 | 1.05 | 0.08 | 1.05 | 0.87 | 4 |
| GCE | 1381 | 467012 | 3478601 | 467059 | 3478511 | 1933 | 2013 | 1.60 | 0.45 | 1.01 | 0.08 | 1.01 | 0.90 | 4 |
| GCE | 1382 | 467057 | 3478622 | 467094 | 3478529 | 1933 | 2013 | 1.44 | 0.58 | 1.00 | 0.08 | 1.00 | 0.94 | 4 |
| GCE | 1383 | 467104 | 3478637 | 467128 | 3478542 | 1933 | 2013 | 1.33 | 0.62 | 0.97 | 0.08 | 0.97 | 0.96 | 4 |
| GCE | 1384 | 467152 | 3478637 | 467155 | 3478547 | 1933 | 2013 | 1.34 | 0.42 | 0.87 | 0.08 | 0.87 | 0.91 | 4 |
| GCE | 1385 | 468290 | 3477309 | 468261 | 3477310 | 1933 | 2013 | 0.07 | -0.18 | -0.06 | 0.08 | -0.06 | 0.40 | 4 |
| GCE | 1386 | 468262 | 3477267 | 468238 | 3477276 | 1933 | 2013 | 0.08 | -0.13 | -0.03 | 0.08 | -0.03 | 0.16 | 4 |
| GCE | 1387 | 468233 | 3477227 | 468208 | 3477242 | 1933 | 2013 | 0.10 | -0.22 | -0.06 | 0.08 | -0.07 | 0.35 | 4 |
| GCE | 1388 | 468203 | 3477187 | 468182 | 3477203 | 1933 | 2013 | 0.06 | -0.16 | -0.05 | 0.08 | -0.05 | 0.39 | 4 |
| GCE | 1389 | 468174 | 3477146 | 468153 | 3477159 | 1933 | 2013 | 0.01 | -0.10 | -0.05 | 0.08 | -0.05 | 0.70 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1390 | 468148 | 3477104 | 468125 | 3477116 | 1933 | 2013 | 0.03 | -0.14 | -0.06 | 0.08 | -0.06 | 0.55 | 4 |
| GCE | 1391 | 468124 | 3477060 | 468095 | 3477071 | 1933 | 2013 | 0.12 | -0.23 | -0.06 | 0.08 | -0.06 | 0.28 | 4 |
| GCE | 1392 | 468103 | 3477015 | 468077 | 3477023 | 1933 | 2013 | -0.03 | -0.14 | -0.09 | 0.08 | -0.09 | 0.88 | 4 |
| GCE | 1393 | 468083 | 3476969 | 468059 | 3476977 | 1933 | 2013 | 0.08 | -0.12 | -0.02 | 0.08 | -0.02 | 0.14 | 4 |
| GCE | 1394 | 468063 | 3476923 | 468040 | 3476936 | 1933 | 2013 | 0.15 | -0.07 | 0.04 | 0.08 | 0.03 | 0.24 | 4 |
| GCE | 1395 | 468046 | 3476876 | 468022 | 3476894 | 1933 | 2013 | 0.14 | -0.22 | -0.04 | 0.08 | -0.04 | 0.15 | 4 |
| GCE | 1396 | 468021 | 3476833 | 467983 | 3476868 | 1933 | 2013 | -0.10 | -0.65 | -0.38 | 0.08 | -0.38 | 0.86 | 4 |
| GCE | 1397 | 467987 | 3476796 | 467947 | 3476846 | 1933 | 2013 | -0.60 | -0.46 | -0.53 | 0.08 | -0.53 | 0.99 | 4 |
| GCE | 1398 | 467946 | 3476768 | 467911 | 3476816 | 1933 | 2013 | -0.61 | -0.36 | -0.48 | 0.08 | -0.48 | 0.98 | 4 |
| GCE | 1399 | 467905 | 3476740 | 467867 | 3476788 | 1933 | 2013 | -0.69 | -0.33 | -0.51 | 0.08 | -0.51 | 0.96 | 4 |
| GCE | 1400 | 467859 | 3476722 | 467833 | 3476763 | 1933 | 2013 | -0.45 | -0.27 | -0.35 | 0.08 | -0.35 | 0.98 | 4 |
| GCE | 1401 | 467817 | 3476696 | 467793 | 3476736 | 1933 | 2013 | -0.33 | -0.26 | -0.30 | 0.08 | -0.30 | 1.00 | 4 |
| GCE | 1402 | 467774 | 3476671 | 467752 | 3476703 | 1933 | 2013 | -0.22 | -0.25 | -0.24 | 0.08 | -0.24 | 1.00 | 4 |
| GCE | 1403 | 467736 | 3476640 | 467715 | 3476668 | 1933 | 2013 | -0.23 | -0.14 | -0.19 | 0.08 | -0.18 | 0.98 | 4 |
| GCE | 1404 | 467700 | 3476605 | 467679 | 3476626 | 1933 | 2013 | -0.17 | -0.06 | -0.11 | 0.08 | -0.11 | 0.92 | 4 |
| GCE | 1405 | 467665 | 3476570 | 467645 | 3476584 | 1933 | 2013 | 0.10 | 0.02 | 0.06 | 0.08 | 0.06 | 0.86 | 4 |
| GCE | 1406 | 467646 | 3476525 | 467624 | 3476537 | 1933 | 2013 | -0.03 | -0.07 | -0.05 | 0.08 | -0.05 | 0.96 | 4 |
| GCE | 1407 | 467628 | 3476479 | 467602 | 3476489 | 1933 | 2013 | -0.10 | 0.21 | 0.06 | 0.08 | 0.06 | 0.28 | 4 |
| GCE | 1408 | 467615 | 3476431 | 467583 | 3476438 | 1933 | 2013 | 0.12 | 0.18 | 0.15 | 0.08 | 0.15 | 0.99 | 4 |
| GCE | 1409 | 467605 | 3476382 | 467573 | 3476388 | 1933 | 2013 | 0.23 | 0.07 | 0.15 | 0.08 | 0.15 | 0.91 | 4 |
| GCE | 1410 | 467604 | 3476333 | 467566 | 3476336 | 1933 | 2013 | 0.46 | -0.13 | 0.16 | 0.08 | 0.15 | 0.45 | 4 |
| GCE | 1411 | 467607 | 3476283 | 467560 | 3476283 | 1933 | 2013 | 0.68 | -0.25 | 0.21 | 0.08 | 0.21 | 0.37 | 4 |
| GCE | 1412 | 467605 | 3476233 | 467561 | 3476236 | 1933 | 2013 | 0.61 | -0.26 | 0.17 | 0.08 | 0.16 | 0.29 | 4 |
| GCE | 1413 | 467594 | 3476184 | 467563 | 3476190 | 1933 | 2013 | 0.29 | -0.11 | 0.09 | 0.08 | 0.09 | 0.35 | 4 |
| GCE | 1414 | 467582 | 3476136 | 467541 | 3476146 | 1933 | 2013 | 0.12 | -0.30 | -0.10 | 0.08 | -0.10 | 0.40 | 4 |
| GCE | 1415 | 467571 | 3476087 | 467526 | 3476113 | 1933 | 2013 | -0.23 | -0.53 | -0.38 | 0.08 | -0.39 | 0.95 | 4 |
| GCE | 1416 | 467514 | 3476036 | 467484 | 3476063 | 1933 | 2013 | -0.01 | -0.36 | -0.19 | 0.08 | -0.19 | 0.78 | 4 |
| GCE | 1417 | 467468 | 3476019 | 467460 | 3476062 | 1933 | 2013 | 0.59 | -0.12 | 0.23 | 0.08 | 0.22 | 0.55 | 4 |
| GCE | 1418 | 467536 | 3475995 | 467501 | 3476073 | 1933 | 2013 | -1.45 | -1.31 | -1.38 | 0.08 | -1.38 | 1.00 | 4 |
| GCE | 1419 | 467553 | 3475960 | 467501 | 3476073 | 1933 | 2013 | -2.52 | -0.89 | -1.69 | 0.08 | -1.68 | 0.93 | 4 |
| GCE | 1420 | 467508 | 3475941 | 467402 | 3475910 | 1933 | 2013 | -1.04 | -0.60 | -0.81 | 0.08 | -0.81 | 0.98 | 4 |
| GCE | 1421 | 467471 | 3475908 | 467395 | 3475915 | 1933 | 2013 | -0.66 | -0.42 | -0.54 | 0.08 | -0.54 | 0.98 | 4 |
| GCE | 1422 | 467444 | 3475866 | 467396 | 3475859 | 1933 | 2013 | -0.42 | -0.26 | -0.34 | 0.08 | -0.34 | 0.98 | 4 |
| GCE | 1423 | 467437 | 3475817 | 467394 | 3475809 | 1933 | 2013 | -0.38 | -0.19 | -0.28 | 0.08 | -0.28 | 0.97 | 4 |
| GCE | 1424 | 467436 | 3475768 | 467415 | 3475762 | 1933 | 2013 | 0.03 | -0.01 | 0.01 | 0.08 | 0.01 | 0.43 | 4 |
| GCE | 1425 | 467462 | 3475726 | 467434 | 3475711 | 1933 | 2013 | 0.32 | -0.09 | 0.11 | 0.08 | 0.11 | 0.45 | 4 |
| GCE | 1426 | 467490 | 3475684 | 467457 | 3475662 | 1933 | 2013 | 0.52 | -0.12 | 0.20 | 0.08 | 0.19 | 0.52 | 4 |
| GCE | 1427 | 467520 | 3475644 | 467496 | 3475622 | 1933 | 2013 | 0.34 | -0.11 | 0.11 | 0.08 | 0.11 | 0.40 | 4 |
| GCE | 1428 | 467556 | 3475610 | 467533 | 3475585 | 1933 | 2013 | 0.36 | -0.12 | 0.12 | 0.08 | 0.11 | 0.41 | 4 |
| GCE | 1429 | 467595 | 3475579 | 467575 | 3475559 | 1933 | 2013 | 0.10 | -0.19 | -0.05 | 0.08 | -0.05 | 0.24 | 4 |
| GCE | 1430 | 467633 | 3475546 | 467610 | 3475531 | 1933 | 2013 | 0.13 | -0.17 | -0.03 | 0.08 | -0.03 | 0.09 | 4 |
| GCE | 1431 | 467659 | 3475504 | 467631 | 3475495 | 1933 | 2013 | 0.24 | -0.09 | 0.07 | 0.08 | 0.07 | 0.35 | 4 |
| GCE | 1432 | 467669 | 3475455 | 467631 | 3475452 | 1933 | 2013 | 0.32 | 0.10 | 0.21 | 0.08 | 0.21 | 0.91 | 4 |
| GCE | 1433 | 467668 | 3475405 | 467628 | 3475408 | 1933 | 2013 | 0.32 | 0.18 | 0.25 | 0.08 | 0.25 | 0.97 | 4 |
| GCE | 1434 | 467669 | 3475355 | 467618 | 3475361 | 1933 | 2013 | 0.38 | 0.40 | 0.39 | 0.08 | 0.39 | 1.00 | 4 |
| GCE | 1435 | 467670 | 3475306 | 467612 | 3475313 | 1933 | 2013 | 0.39 | 0.54 | 0.47 | 0.08 | 0.47 | 0.99 | 4 |
| GCE | 1436 | 467669 | 3475256 | 467611 | 3475268 | 1933 | 2013 | 0.42 | 0.53 | 0.48 | 0.08 | 0.48 | 1.00 | 4 |
| GCE | 1437 | 467668 | 3475207 | 467610 | 3475234 | 1933 | 2013 | 0.36 | 0.71 | 0.54 | 0.08 | 0.54 | 0.97 | 4 |
| GCE | 1438 | 467630 | 3475177 | 467602 | 3475204 | 1933 | 2013 | 0.21 | 0.25 | 0.23 | 0.08 | 0.23 | 1.00 | 4 |
| GCE | 1439 | 467587 | 3475158 | 467571 | 3475193 | 1933 | 2013 | -0.30 | -0.16 | -0.23 | 0.08 | -0.23 | 0.97 | 4 |
| GCE | 1440 | 467538 | 3475151 | 467532 | 3475195 | 1933 | 2013 | -0.49 | -0.11 | -0.30 | 0.08 | -0.30 | 0.88 | 4 |
| GCE | 1441 | 467489 | 3475160 | 467490 | 3475199 | 1933 | 2013 | -0.36 | -0.13 | -0.24 | 0.08 | -0.24 | 0.93 | 4 |
| GCE | 1442 | 467440 | 3475170 | 467443 | 3475204 | 1933 | 2013 | -0.20 | -0.16 | -0.18 | 0.08 | -0.18 | 1.00 | 4 |
| GCE | 1443 | 467390 | 3475175 | 467391 | 3475214 | 1933 | 2013 | -0.33 | -0.14 | -0.24 | 0.08 | -0.23 | 0.95 | 4 |
| GCE | 1444 | 467341 | 3475181 | 467337 | 3475217 | 1933 | 2013 | -0.25 | -0.14 | -0.19 | 0.08 | -0.19 | 0.98 | 4 |
| GCE | 1445 | 467291 | 3475177 | 467282 | 3475209 | 1933 | 2013 | -0.22 | -0.11 | -0.16 | 0.08 | -0.16 | 0.96 | 4 |
| GCE | 1446 | 467242 | 3475168 | 467233 | 3475192 | 1933 | 2013 | -0.02 | -0.09 | -0.06 | 0.08 | -0.06 | 0.89 | 4 |
| GCE | 1447 | 467196 | 3475148 | 467183 | 3475169 | 1933 | 2013 | -0.04 | -0.08 | -0.06 | 0.08 | -0.06 | 0.97 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1448 | 467154 | 3475121 | 467140 | 3475142 | 1933 | 2013 | -0.13 | 0.00 | -0.06 | 0.08 | -0.06 | 0.73 | 4 |
| GCE | 1449 | 467112 | 3475095 | 467100 | 3475118 | 1933 | 2013 | -0.03 | -0.11 | -0.07 | 0.08 | -0.07 | 0.92 | 4 |
| GCE | 1450 | 467078 | 3475059 | 467071 | 3475100 | 1933 | 2013 | -0.24 | -0.15 | -0.19 | 0.08 | -0.19 | 0.98 | 4 |
| GCE | 1451 | 467034 | 3475042 | 467047 | 3475086 | 1933 | 2013 | 0.34 | -0.16 | 0.09 | 0.08 | 0.09 | 0.26 | 4 |
| GCE | 1452 | 466989 | 3474938 | 466938 | 3474832 | 1933 | 2013 | -0.30 | -0.69 | -0.50 | 0.08 | -0.50 | 0.95 | 4 |
| GCE | 1453 | 467009 | 3474911 | 466937 | 3474835 | 1933 | 2013 | -1.32 | -0.53 | -0.92 | 0.08 | -0.92 | 0.94 | 4 |
| GCE | 1454 | 467008 | 3474862 | 466955 | 3474824 | 1933 | 2013 | -0.98 | -0.15 | -0.56 | 0.08 | -0.56 | 0.84 | 4 |
| GCE | 1455 | 467019 | 3474814 | 466969 | 3474783 | 1933 | 2013 | -0.85 | -0.11 | -0.47 | 0.08 | -0.47 | 0.83 | 4 |
| GCE | 1456 | 467037 | 3474771 | 466985 | 3474743 | 1933 | 2013 | -0.66 | -0.27 | -0.46 | 0.08 | -0.46 | 0.94 | 4 |
| GCE | 1457 | 467054 | 3474726 | 467006 | 3474693 | 1933 | 2013 | -0.51 | -0.28 | -0.40 | 0.08 | -0.39 | 0.97 | 4 |
| GCE | 1458 | 467091 | 3474694 | 467039 | 3474645 | 1933 | 2013 | -0.66 | -0.58 | -0.62 | 0.08 | -0.62 | 1.00 | 4 |
| GCE | 1459 | 467133 | 3474666 | 467097 | 3474616 | 1933 | 2013 | -0.67 | -0.38 | -0.52 | 0.08 | -0.52 | 0.97 | 4 |
| GCE | 1460 | 467174 | 3474637 | 467146 | 3474588 | 1933 | 2013 | -0.52 | -0.39 | -0.45 | 0.08 | -0.45 | 0.99 | 4 |
| GCE | 1461 | 467216 | 3474611 | 467200 | 3474565 | 1933 | 2013 | -0.33 | -0.38 | -0.35 | 0.08 | -0.35 | 1.00 | 4 |
| GCE | 1462 | 467262 | 3474597 | 467246 | 3474549 | 1933 | 2013 | -0.31 | -0.41 | -0.36 | 0.08 | -0.36 | 0.99 | 4 |
| GCE | 1463 | 467310 | 3474587 | 467297 | 3474535 | 1933 | 2013 | -0.39 | -0.47 | -0.43 | 0.08 | -0.43 | 1.00 | 4 |
| GCE | 1464 | 467360 | 3474584 | 467351 | 3474522 | 1933 | 2013 | -0.49 | -0.55 | -0.52 | 0.08 | -0.52 | 1.00 | 4 |
| GCE | 1465 | 467408 | 3474573 | 467407 | 3474504 | 1933 | 2013 | -0.20 | -0.96 | -0.59 | 0.08 | -0.59 | 0.88 | 4 |
| GCE | 1466 | 467454 | 3474591 | 467455 | 3474528 | 1933 | 2013 | -0.46 | -0.60 | -0.53 | 0.08 | -0.53 | 0.99 | 4 |
| GCE | 1467 | 467503 | 3474590 | 467509 | 3474544 | 1933 | 2013 | NA | -0.40 | NA | 0.15 | -0.40 | 0.00 | 4 |
| GCE | 1468 | 467548 | 3474603 | 467562 | 3474554 | 1933 | 2013 | -0.40 | -0.36 | -0.38 | 0.08 | -0.38 | 1.00 | 4 |
| GCE | 1469 | 467596 | 3474613 | 467611 | 3474568 | 1933 | 2013 | -0.23 | -0.44 | -0.33 | 0.08 | -0.34 | 0.97 | 4 |
| GCE | 1470 | 467641 | 3474636 | 467661 | 3474593 | 1933 | 2013 | -0.26 | -0.42 | -0.34 | 0.08 | -0.34 | 0.98 | 4 |
| GCE | 1471 | 467686 | 3474658 | 467709 | 3474619 | 1933 | 2013 | -0.13 | -0.50 | -0.32 | 0.08 | -0.32 | 0.90 | 4 |
| GCE | 1472 | 467727 | 3474686 | 467750 | 3474652 | 1933 | 2013 | 0.00 | -0.51 | -0.26 | 0.08 | -0.27 | 0.76 | 4 |
| GCE | 1473 | 467765 | 3474718 | 467790 | 3474686 | 1933 | 2013 | -0.02 | -0.47 | -0.25 | 0.08 | -0.25 | 0.80 | 4 |
| GCE | 1474 | 467801 | 3474752 | 467831 | 3474720 | 1933 | 2013 | -0.10 | -0.47 | -0.29 | 0.08 | -0.29 | 0.88 | 4 |
| GCE | 1475 | 467838 | 3474786 | 467868 | 3474756 | 1933 | 2013 | 0.07 | -0.55 | -0.25 | 0.08 | -0.25 | 0.66 | 4 |
| GCE | 1476 | 467873 | 3474822 | 467902 | 3474796 | 1933 | 2013 | 0.05 | -0.47 | -0.22 | 0.08 | -0.22 | 0.68 | 4 |
| GCE | 1477 | 467907 | 3474858 | 467935 | 3474836 | 1933 | 2013 | 0.05 | -0.37 | -0.17 | 0.08 | -0.17 | 0.66 | 4 |
| GCE | 1478 | 467937 | 3474898 | 467966 | 3474875 | 1933 | 2013 | 0.13 | -0.40 | -0.14 | 0.08 | -0.14 | 0.46 | 4 |
| GCE | 1479 | 467969 | 3474937 | 467998 | 3474914 | 1933 | 2013 | 0.17 | -0.42 | -0.13 | 0.08 | -0.13 | 0.38 | 4 |
| GCE | 1480 | 468000 | 3474975 | 468029 | 3474953 | 1933 | 2013 | 0.19 | -0.40 | -0.11 | 0.08 | -0.12 | 0.32 | 4 |
| GCE | 1481 | 468032 | 3475014 | 468061 | 3474992 | 1933 | 2013 | 0.10 | -0.38 | -0.14 | 0.08 | -0.14 | 0.52 | 4 |
| GCE | 1482 | 468060 | 3475055 | 468089 | 3475033 | 1933 | 2013 | -0.02 | -0.37 | -0.20 | 0.08 | -0.20 | 0.80 | 4 |
| GCE | 1483 | 468085 | 3475098 | 468118 | 3475078 | 1933 | 2013 | -0.10 | -0.37 | -0.24 | 0.08 | -0.24 | 0.90 | 4 |
| GCE | 1484 | 468114 | 3475139 | 468144 | 3475121 | 1933 | 2013 | 0.01 | -0.36 | -0.18 | 0.08 | -0.18 | 0.73 | 4 |
| GCE | 1485 | 468139 | 3475182 | 468169 | 3475167 | 1933 | 2013 | 0.02 | -0.33 | -0.16 | 0.08 | -0.16 | 0.71 | 4 |
| GCE | 1486 | 468163 | 3475225 | 468193 | 3475212 | 1933 | 2013 | -0.04 | -0.25 | -0.15 | 0.08 | -0.15 | 0.85 | 4 |
| GCE | 1487 | 468187 | 3475269 | 468214 | 3475256 | 1933 | 2013 | 0.16 | -0.22 | -0.03 | 0.08 | -0.03 | 0.09 | 4 |
| GCE | 1488 | 468210 | 3475313 | 468233 | 3475297 | 1933 | 2013 | 0.16 | -0.17 | -0.01 | 0.08 | -0.01 | 0.02 | 4 |
| GCE | 1489 | 468225 | 3475361 | 468246 | 3475333 | 1933 | 2013 | 0.32 | -0.29 | 0.01 | 0.08 | 0.00 | 0.00 | 4 |
| GCE | 1490 | 468255 | 3475400 | 468262 | 3475366 | 1933 | 2013 | 0.10 | -0.26 | -0.09 | 0.08 | -0.09 | 0.42 | 4 |
| GCE | 1491 | 468176 | 3475447 | 468134 | 3475463 | 1933 | 2013 | 0.61 | -0.31 | 0.14 | 0.08 | 0.14 | 0.21 | 4 |
| GCE | 1492 | 468152 | 3475403 | 468125 | 3475416 | 1933 | 2013 | 0.12 | -0.24 | -0.06 | 0.08 | -0.06 | 0.28 | 4 |
| GCE | 1493 | 468123 | 3475362 | 468101 | 3475375 | 1933 | 2013 | 0.09 | -0.15 | -0.03 | 0.08 | -0.03 | 0.18 | 4 |
| GCE | 1494 | 468102 | 3475317 | 468078 | 3475329 | 1933 | 2013 | 0.12 | -0.15 | -0.02 | 0.08 | -0.02 | 0.07 | 4 |
| GCE | 1495 | 468078 | 3475274 | 468054 | 3475285 | 1933 | 2013 | 0.15 | -0.13 | 0.01 | 0.08 | 0.01 | 0.01 | 4 |
| GCE | 1496 | 468053 | 3475230 | 468030 | 3475242 | 1933 | 2013 | 0.12 | -0.15 | -0.02 | 0.08 | -0.02 | 0.04 | 4 |
| GCE | 1497 | 468027 | 3475188 | 468005 | 3475200 | 1933 | 2013 | -0.02 | -0.11 | -0.06 | 0.08 | -0.06 | 0.85 | 4 |
| GCE | 1498 | 468003 | 3475144 | 467980 | 3475157 | 1933 | 2013 | -0.03 | -0.11 | -0.07 | 0.08 | -0.07 | 0.90 | 4 |
| GCE | 1499 | 467978 | 3475101 | 467955 | 3475115 | 1933 | 2013 | 0.19 | -0.16 | 0.01 | 0.08 | 0.01 | 0.00 | 4 |
| GCE | 1500 | 467949 | 3475060 | 467930 | 3475073 | 1933 | 2013 | 0.09 | -0.06 | 0.01 | 0.08 | 0.01 | 0.07 | 4 |
| GCE | 1501 | 467924 | 3475017 | 467902 | 3475033 | 1933 | 2013 | 0.11 | -0.17 | -0.03 | 0.08 | -0.03 | 0.15 | 4 |
| GCE | 1502 | 467890 | 3474981 | 467872 | 3474994 | 1933 | 2013 | 0.05 | -0.05 | 0.00 | 0.08 | 0.00 | 0.00 | 4 |
| GCE | 1503 | 467858 | 3474943 | 467841 | 3474958 | 1933 | 2013 | -0.03 | 0.07 | 0.02 | 0.08 | 0.02 | 0.32 | 4 |
| GCE | 1504 | 467829 | 3474902 | 467809 | 3474920 | 1933 | 2013 | 0.07 | -0.16 | -0.05 | 0.08 | -0.05 | 0.36 | 4 |
| GCE | 1505 | 467797 | 3474864 | 467776 | 3474883 | 1933 | 2013 | 0.19 | -0.17 | 0.01 | 0.08 | 0.01 | 0.00 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1506 | 467761 | 3474829 | 467739 | 3474852 | 1933 | 2013 | 0.28 | -0.07 | 0.10 | 0.08 | 0.10 | 0.48 | 4 |
| GCE | 1507 | 467728 | 3474792 | 467706 | 3474818 | 1933 | 2013 | 0.38 | -0.16 | 0.10 | 0.08 | 0.10 | 0.30 | 4 |
| GCE | 1508 | 467691 | 3474759 | 467669 | 3474783 | 1933 | 2013 | 0.32 | -0.13 | 0.09 | 0.08 | 0.09 | 0.31 | 4 |
| GCE | 1509 | 467651 | 3474728 | 467632 | 3474755 | 1933 | 2013 | 0.28 | 0.05 | 0.16 | 0.08 | 0.16 | 0.86 | 4 |
| GCE | 1510 | 467612 | 3474697 | 467595 | 3474728 | 1933 | 2013 | 0.14 | 0.22 | 0.18 | 0.08 | 0.18 | 0.98 | 4 |
| GCE | 1511 | 467569 | 3474672 | 467555 | 3474703 | 1933 | 2013 | -0.04 | 0.34 | 0.15 | 0.08 | 0.15 | 0.66 | 4 |
| GCE | 1512 | 467524 | 3474650 | 467511 | 3474687 | 1933 | 2013 | 0.03 | 0.43 | 0.23 | 0.08 | 0.24 | 0.80 | 4 |
| GCE | 1513 | 467479 | 3474629 | 467469 | 3474682 | 1933 | 2013 | 0.19 | 0.63 | 0.41 | 0.08 | 0.42 | 0.92 | 4 |
| GCE | 1514 | 467431 | 3474616 | 467427 | 3474675 | 1933 | 2013 | 0.20 | 0.75 | 0.48 | 0.08 | 0.48 | 0.90 | 4 |
| GCE | 1515 | 467382 | 3474614 | 467382 | 3474673 | 1933 | 2013 | 0.20 | 0.77 | 0.49 | 0.08 | 0.49 | 0.90 | 4 |
| GCE | 1516 | 467332 | 3474618 | 467341 | 3474681 | 1933 | 2013 | 0.32 | 0.77 | 0.55 | 0.08 | 0.55 | 0.95 | 4 |
| GCE | 1517 | 467283 | 3474627 | 467296 | 3474688 | 1933 | 2013 | 0.30 | 0.73 | 0.52 | 0.08 | 0.52 | 0.95 | 4 |
| GCE | 1518 | 467235 | 3474641 | 467256 | 3474703 | 1933 | 2013 | 0.43 | 0.70 | 0.57 | 0.08 | 0.57 | 0.98 | 4 |
| GCE | 1519 | 467189 | 3474662 | 467220 | 3474717 | 1933 | 2013 | 0.45 | 0.62 | 0.54 | 0.08 | 0.54 | 0.99 | 4 |
| GCE | 1520 | 467150 | 3474692 | 467181 | 3474734 | 1933 | 2013 | 0.36 | 0.43 | 0.40 | 0.08 | 0.40 | 1.00 | 4 |
| GCE | 1521 | 467112 | 3474724 | 467151 | 3474765 | 1933 | 2013 | 0.58 | 0.35 | 0.46 | 0.08 | 0.46 | 0.98 | 4 |
| GCE | 1522 | 467078 | 3474760 | 467125 | 3474790 | 1933 | 2013 | 0.66 | 0.22 | 0.43 | 0.08 | 0.43 | 0.92 | 4 |
| GCE | 1523 | 467051 | 3474802 | 467100 | 3474820 | 1933 | 2013 | 0.62 | 0.19 | 0.40 | 0.08 | 0.40 | 0.91 | 4 |
| GCE | 1524 | 467032 | 3474848 | 467088 | 3474856 | 1933 | 2013 | 0.62 | 0.29 | 0.45 | 0.08 | 0.45 | 0.96 | 4 |
| GCE | 1525 | 467029 | 3474897 | 467089 | 3474888 | 1933 | 2013 | 0.70 | 0.32 | 0.50 | 0.08 | 0.50 | 0.95 | 4 |
| GCE | 1526 | 467055 | 3474938 | 467098 | 3474918 | 1933 | 2013 | 0.72 | -0.13 | 0.29 | 0.08 | 0.28 | 0.58 | 4 |
| GCE | 1527 | 467085 | 3474978 | 467122 | 3474950 | 1933 | 2013 | 0.64 | -0.38 | 0.12 | 0.08 | 0.11 | 0.13 | 4 |
| GCE | 1528 | 467125 | 3475007 | 467151 | 3474978 | 1933 | 2013 | 0.47 | -0.47 | -0.01 | 0.08 | -0.01 | 0.00 | 4 |
| GCE | 1529 | 467168 | 3475032 | 467188 | 3475002 | 1933 | 2013 | 0.21 | -0.38 | -0.09 | 0.08 | -0.10 | 0.24 | 4 |
| GCE | 1530 | 467213 | 3475054 | 467229 | 3475027 | 1933 | 2013 | -0.08 | -0.20 | -0.14 | 0.08 | -0.14 | 0.94 | 4 |
| GCE | 1531 | 467257 | 3475079 | 467269 | 3475050 | 1933 | 2013 | -0.14 | -0.15 | -0.15 | 0.08 | -0.15 | 1.00 | 4 |
| GCE | 1532 | 467303 | 3475098 | 467310 | 3475067 | 1933 | 2013 | -0.03 | -0.25 | -0.14 | 0.08 | -0.14 | 0.83 | 4 |
| GCE | 1533 | 467351 | 3475112 | 467352 | 3475081 | 1933 | 2013 | 0.29 | -0.22 | 0.03 | 0.08 | 0.02 | 0.02 | 4 |
| GCE | 1534 | 467400 | 3475107 | 467399 | 3475076 | 1933 | 2013 | 0.27 | -0.18 | 0.04 | 0.08 | 0.04 | 0.08 | 4 |
| GCE | 1535 | 467446 | 3475087 | 467441 | 3475061 | 1933 | 2013 | 0.14 | -0.06 | 0.04 | 0.08 | 0.04 | 0.27 | 4 |
| GCE | 1536 | 467494 | 3475074 | 467490 | 3475047 | 1933 | 2013 | 0.18 | -0.12 | 0.03 | 0.08 | 0.03 | 0.09 | 4 |
| GCE | 1537 | 467543 | 3475064 | 467541 | 3475042 | 1933 | 2013 | 0.00 | -0.06 | -0.03 | 0.08 | -0.03 | 0.73 | 4 |
| GCE | 1538 | 467592 | 3475070 | 467597 | 3475045 | 1933 | 2013 | -0.03 | -0.10 | -0.06 | 0.08 | -0.06 | 0.91 | 4 |
| GCE | 1539 | 467634 | 3475095 | 467649 | 3475062 | 1933 | 2013 | -0.19 | -0.22 | -0.20 | 0.08 | -0.20 | 1.00 | 4 |
| GCE | 1540 | 467667 | 3475132 | 467698 | 3475094 | 1933 | 2013 | -0.32 | -0.38 | -0.35 | 0.08 | -0.35 | 1.00 | 4 |
| GCE | 1541 | 467692 | 3475175 | 467742 | 3475139 | 1933 | 2013 | -0.52 | -0.51 | -0.52 | 0.08 | -0.52 | 1.00 | 4 |
| GCE | 1542 | 467710 | 3475221 | 467770 | 3475194 | 1933 | 2013 | -0.65 | -0.51 | -0.58 | 0.08 | -0.58 | 1.00 | 4 |
| GCE | 1543 | 467724 | 3475269 | 467785 | 3475250 | 1933 | 2013 | -0.62 | -0.47 | -0.54 | 0.08 | -0.54 | 0.99 | 4 |
| GCE | 1544 | 467734 | 3475318 | 467795 | 3475306 | 1933 | 2013 | -0.65 | -0.43 | -0.53 | 0.08 | -0.53 | 0.99 | 4 |
| GCE | 1545 | 467748 | 3475366 | 467802 | 3475362 | 1933 | 2013 | -0.48 | -0.40 | -0.44 | 0.08 | -0.44 | 1.00 | 4 |
| GCE | 1546 | 467753 | 3475416 | 467806 | 3475418 | 1933 | 2013 | -0.40 | -0.43 | -0.42 | 0.08 | -0.42 | 1.00 | 4 |
| GCE | 1547 | 467750 | 3475466 | 467806 | 3475474 | 1933 | 2013 | -0.48 | -0.43 | -0.45 | 0.08 | -0.45 | 1.00 | 4 |
| GCE | 1548 | 467738 | 3475514 | 467791 | 3475533 | 1933 | 2013 | -0.53 | -0.37 | -0.45 | 0.08 | -0.45 | 0.99 | 4 |
| GCE | 1549 | 467722 | 3475561 | 467769 | 3475585 | 1933 | 2013 | -0.52 | -0.31 | -0.41 | 0.08 | -0.41 | 0.98 | 4 |
| GCE | 1550 | 467694 | 3475602 | 467740 | 3475634 | 1933 | 2013 | -0.48 | -0.41 | -0.44 | 0.08 | -0.44 | 1.00 | 4 |
| GCE | 1551 | 467665 | 3475643 | 467704 | 3475674 | 1933 | 2013 | -0.45 | -0.30 | -0.37 | 0.08 | -0.37 | 0.99 | 4 |
| GCE | 1552 | 467631 | 3475679 | 467668 | 3475713 | 1933 | 2013 | -0.44 | -0.30 | -0.37 | 0.08 | -0.37 | 0.99 | 4 |
| GCE | 1553 | 467592 | 3475711 | 467639 | 3475739 | 1933 | 2013 | -0.55 | -0.31 | -0.43 | 0.08 | -0.43 | 0.97 | 4 |
| GCE | 1554 | 467561 | 3475749 | 467615 | 3475767 | 1933 | 2013 | -0.54 | -0.37 | -0.45 | 0.08 | -0.45 | 0.99 | 4 |
| GCE | 1555 | 467555 | 3475796 | 467596 | 3475792 | 1933 | 2013 | 0.19 | -0.29 | -0.06 | 0.08 | -0.06 | 0.15 | 4 |
| GCE | 1556 | 467539 | 3475843 | 467622 | 3475805 | 1933 | 2013 | 1.60 | -0.01 | 0.78 | 0.08 | 0.77 | 0.73 | 4 |
| GCE | 1557 | 467537 | 3475891 | 467635 | 3475815 | 1933 | 2013 | 1.94 | 0.64 | 1.27 | 0.08 | 1.27 | 0.92 | 4 |
| GCE | 1558 | 467560 | 3475935 | 467658 | 3475840 | 1933 | 2013 | 1.91 | 1.03 | 1.46 | 0.08 | 1.45 | 0.97 | 4 |
| GCE | 1559 | 467602 | 3475959 | 467689 | 3475875 | 1933 | 2013 | 1.62 | 0.83 | 1.21 | 0.08 | 1.21 | 0.97 | 4 |
| GCE | 1560 | 467648 | 3475975 | 467727 | 3475922 | 1933 | 2013 | 1.40 | 0.49 | 0.93 | 0.08 | 0.93 | 0.93 | 4 |
| GCE | 1561 | 467685 | 3476008 | 467766 | 3475969 | 1933 | 2013 | 1.35 | 0.40 | 0.86 | 0.08 | 0.86 | 0.91 | 4 |
| GCE | 1562 | 467715 | 3476048 | 467787 | 3476027 | 1933 | 2013 | 1.09 | 0.28 | 0.67 | 0.08 | 0.67 | 0.89 | 4 |
| GCE | 1563 | 467739 | 3476092 | 467795 | 3476090 | 1933 | 2013 | 0.71 | 0.20 | 0.45 | 0.08 | 0.45 | 0.90 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1564 | 467757 | 3476138 | 467793 | 3476141 | 1933 | 2013 | 0.32 | 0.07 | 0.19 | 0.08 | 0.19 | 0.87 | 4 |
| GCE | 1565 | 467764 | 3476186 | 467793 | 3476189 | 1933 | 2013 | -0.20 | 0.14 | -0.03 | 0.08 | -0.03 | 0.08 | 4 |
| GCE | 1566 | 467751 | 3476234 | 467782 | 3476237 | 1933 | 2013 | 0.00 | -0.26 | -0.13 | 0.08 | -0.13 | 0.76 | 4 |
| GCE | 1567 | 467736 | 3476282 | 467785 | 3476283 | 1933 | 2013 | -0.21 | -0.51 | -0.37 | 0.08 | -0.37 | 0.95 | 4 |
| GCE | 1568 | 467728 | 3476331 | 467790 | 3476321 | 1933 | 2013 | -0.48 | -0.58 | -0.53 | 0.08 | -0.53 | 1.00 | 4 |
| GCE | 1569 | 467730 | 3476381 | 467791 | 3476366 | 1933 | 2013 | -0.69 | -0.38 | -0.53 | 0.08 | -0.53 | 0.97 | 4 |
| GCE | 1570 | 467742 | 3476429 | 467804 | 3476408 | 1933 | 2013 | -0.57 | -0.56 | -0.56 | 0.08 | -0.56 | 1.00 | 4 |
| GCE | 1571 | 467771 | 3476470 | 467821 | 3476447 | 1933 | 2013 | -0.02 | -0.82 | -0.43 | 0.08 | -0.43 | 0.78 | 4 |
| GCE | 1572 | 467798 | 3476511 | 467836 | 3476487 | 1933 | 2013 | 0.33 | -0.60 | -0.14 | 0.08 | -0.15 | 0.23 | 4 |
| GCE | 1573 | 467832 | 3476545 | 467858 | 3476522 | 1933 | 2013 | 0.33 | -0.34 | -0.01 | 0.08 | -0.01 | 0.01 | 4 |
| GCE | 1574 | 467874 | 3476571 | 467891 | 3476550 | 1933 | 2013 | 0.19 | -0.08 | 0.05 | 0.08 | 0.05 | 0.31 | 4 |
| GCE | 1575 | 467916 | 3476596 | 467931 | 3476573 | 1933 | 2013 | 0.18 | -0.05 | 0.06 | 0.08 | 0.06 | 0.43 | 4 |
| GCE | 1576 | 467958 | 3476620 | 467974 | 3476593 | 1933 | 2013 | 0.29 | -0.22 | 0.03 | 0.08 | 0.03 | 0.04 | 4 |
| GCE | 1577 | 468001 | 3476645 | 468016 | 3476619 | 1933 | 2013 | 0.24 | -0.25 | -0.01 | 0.08 | -0.01 | 0.01 | 4 |
| GCE | 1578 | 468047 | 3476664 | 468062 | 3476645 | 1933 | 2013 | 0.11 | 0.00 | 0.05 | 0.08 | 0.05 | 0.72 | 4 |
| GCE | 1579 | 468086 | 3476696 | 468104 | 3476677 | 1933 | 2013 | -0.12 | 0.12 | 0.01 | 0.08 | 0.01 | 0.01 | 4 |
| GCE | 1580 | 468116 | 3476736 | 468138 | 3476718 | 1933 | 2013 | -0.21 | 0.06 | -0.07 | 0.08 | -0.07 | 0.43 | 4 |
| GCE | 1581 | 468146 | 3476775 | 468169 | 3476759 | 1933 | 2013 | -0.09 | -0.09 | -0.09 | 0.08 | -0.09 | 1.00 | 4 |
| GCE | 1582 | 468172 | 3476818 | 468200 | 3476801 | 1933 | 2013 | -0.33 | 0.10 | -0.11 | 0.08 | -0.11 | 0.45 | 4 |
| GCE | 1583 | 468195 | 3476862 | 468221 | 3476846 | 1933 | 2013 | -0.16 | -0.09 | -0.12 | 0.08 | -0.12 | 0.98 | 4 |
| GCE | 1584 | 468214 | 3476908 | 468247 | 3476888 | 1933 | 2013 | -0.24 | -0.23 | -0.24 | 0.08 | -0.24 | 1.00 | 4 |
| GCE | 1585 | 468235 | 3476953 | 468271 | 3476931 | 1933 | 2013 | -0.42 | -0.14 | -0.28 | 0.08 | -0.27 | 0.92 | 4 |
| GCE | 1586 | 468259 | 3476997 | 468295 | 3476972 | 1933 | 2013 | -0.15 | -0.44 | -0.30 | 0.08 | -0.30 | 0.93 | 4 |
| GCE | 1587 | 468283 | 3477041 | 468321 | 3477014 | 1933 | 2013 | -0.41 | -0.26 | -0.33 | 0.08 | -0.33 | 0.98 | 4 |
| GCE | 1588 | 468309 | 3477084 | 468356 | 3477045 | 1933 | 2013 | -0.53 | -0.48 | -0.51 | 0.08 | -0.51 | 1.00 | 4 |
| GCE | 1589 | 468341 | 3477123 | 468382 | 3477081 | 1933 | 2013 | -0.39 | -0.56 | -0.48 | 0.08 | -0.48 | 0.99 | 4 |
| GCE | 1590 | 468378 | 3477156 | 468409 | 3477114 | 1933 | 2013 | -0.25 | -0.56 | -0.41 | 0.08 | -0.41 | 0.95 | 4 |
| GCE | 1591 | 467504 | 3479153 | 467477 | 3479123 | 1933 | 2013 | -0.06 | -0.16 | -0.11 | 0.08 | -0.11 | 0.94 | 5 |
| GCE | 1592 | 467521 | 3479110 | 467474 | 3479091 | 1933 | 2013 | 0.00 | -0.69 | -0.35 | 0.08 | -0.36 | 0.76 | 5 |
| GCE | 1593 | 467516 | 3479061 | 467471 | 3479060 | 1933 | 2013 | 0.04 | -0.60 | -0.29 | 0.08 | -0.29 | 0.71 | 5 |
| GCE | 1594 | 467508 | 3479012 | 467457 | 3479025 | 1933 | 2013 | 0.30 | -0.77 | -0.24 | 0.08 | -0.25 | 0.39 | 5 |
| GCE | 1595 | 467494 | 3478965 | 467446 | 3478976 | 1933 | 2013 | -0.13 | -0.56 | -0.35 | 0.08 | -0.35 | 0.89 | 5 |
| GCE | 1596 | 467488 | 3478915 | 467417 | 3478940 | 1933 | 2013 | -0.25 | -1.07 | -0.67 | 0.08 | -0.67 | 0.89 | 5 |
| GCE | 1597 | 467463 | 3478872 | 467406 | 3478915 | 1933 | 2013 | -0.16 | -1.09 | -0.63 | 0.08 | -0.64 | 0.85 | 5 |
| GCE | 1598 | 467434 | 3478831 | 467407 | 3478858 | 1933 | 2013 | -0.32 | -0.09 | -0.21 | 0.08 | -0.20 | 0.90 | 5 |
| GCE | 1599 | 467198 | 3478620 | 467186 | 3478548 | 1933 | 2013 | 1.35 | -0.19 | 0.56 | 0.08 | 0.55 | 0.61 | 5 |
| GCE | 1600 | 467243 | 3478600 | 467219 | 3478537 | 1933 | 2013 | 1.19 | -0.38 | 0.39 | 0.08 | 0.38 | 0.42 | 5 |
| GCE | 1601 | 467282 | 3478569 | 467252 | 3478520 | 1933 | 2013 | 0.95 | -0.30 | 0.31 | 0.08 | 0.30 | 0.42 | 5 |
| GCE | 1602 | 467316 | 3478532 | 467283 | 3478494 | 1933 | 2013 | 0.77 | -0.25 | 0.25 | 0.08 | 0.25 | 0.42 | 5 |
| GCE | 1603 | 467348 | 3478493 | 467317 | 3478467 | 1933 | 2013 | 0.52 | -0.35 | 0.07 | 0.08 | 0.07 | 0.07 | 5 |
| GCE | 1604 | 467375 | 3478452 | 467348 | 3478431 | 1933 | 2013 | 0.36 | -0.07 | 0.14 | 0.08 | 0.14 | 0.56 | 5 |
| GCE | 1605 | 467404 | 3478411 | 467371 | 3478388 | 1933 | 2013 | 0.40 | -0.46 | -0.04 | 0.08 | -0.04 | 0.03 | 5 |
| GCE | 1606 | 467432 | 3478371 | 467401 | 3478350 | 1933 | 2013 | 0.44 | -0.33 | 0.05 | 0.08 | 0.05 | 0.04 | 5 |
| GCE | 1607 | 467461 | 3478330 | 467431 | 3478313 | 1933 | 2013 | 0.36 | -0.27 | 0.04 | 0.08 | 0.04 | 0.04 | 5 |
| GCE | 1608 | 467489 | 3478289 | 467455 | 3478272 | 1933 | 2013 | 0.28 | -0.40 | -0.07 | 0.08 | -0.07 | 0.11 | 5 |
| GCE | 1609 | 467519 | 3478249 | 467480 | 3478231 | 1933 | 2013 | 0.26 | -0.53 | -0.15 | 0.08 | -0.15 | 0.30 | 5 |
| GCE | 1610 | 467547 | 3478207 | 467508 | 3478187 | 1933 | 2013 | 0.08 | -0.51 | -0.22 | 0.08 | -0.22 | 0.63 | 5 |
| GCE | 1611 | 467578 | 3478169 | 467549 | 3478153 | 1933 | 2013 | 0.12 | -0.31 | -0.10 | 0.08 | -0.10 | 0.39 | 5 |
| GCE | 1612 | 467611 | 3478131 | 467584 | 3478112 | 1933 | 2013 | 0.13 | -0.32 | -0.10 | 0.08 | -0.10 | 0.37 | 5 |
| GCE | 1613 | 467642 | 3478092 | 467615 | 3478070 | 1933 | 2013 | 0.08 | -0.36 | -0.14 | 0.08 | -0.14 | 0.56 | 5 |
| GCE | 1614 | 467680 | 3478066 | 467654 | 3478040 | 1933 | 2013 | 0.39 | -0.08 | 0.15 | 0.08 | 0.14 | 0.53 | 5 |
| GCE | 1615 | 467713 | 3478029 | 467685 | 3478002 | 1933 | 2013 | 0.46 | -0.26 | 0.09 | 0.08 | 0.09 | 0.16 | 5 |
| GCE | 1616 | 467743 | 3477990 | 467721 | 3477970 | 1933 | 2013 | 0.24 | -0.18 | 0.03 | 0.08 | 0.03 | 0.04 | 5 |
| GCE | 1617 | 467773 | 3477950 | 467753 | 3477930 | 1933 | 2013 | 0.19 | -0.17 | 0.00 | 0.08 | 0.00 | 0.00 | 5 |
| GCE | 1618 | 467795 | 3477907 | 467775 | 3477884 | 1933 | 2013 | 0.05 | -0.23 | -0.09 | 0.08 | -0.09 | 0.59 | 5 |
| GCE | 1619 | 467827 | 3477870 | 467802 | 3477840 | 1933 | 2013 | 0.22 | -0.46 | -0.13 | 0.08 | -0.13 | 0.30 | 5 |
| GCE | 1620 | 467861 | 3477833 | 467840 | 3477810 | 1933 | 2013 | 0.21 | -0.26 | -0.03 | 0.08 | -0.03 | 0.05 | 5 |
| GCE | 1621 | 467896 | 3477800 | 467877 | 3477779 | 1933 | 2013 | 0.13 | -0.19 | -0.03 | 0.08 | -0.03 | 0.12 | 5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1622 | 467934 | 3477767 | 467909 | 3477749 | 1933 | 2013 | 0.12 | -0.25 | -0.07 | 0.08 | -0.07 | 0.33 | 5 |
| GCE | 1623 | 467966 | 3477729 | 467941 | 3477710 | 1933 | 2013 | 0.13 | -0.27 | -0.07 | 0.08 | -0.08 | 0.29 | 5 |
| GCE | 1624 | 467993 | 3477687 | 467960 | 3477665 | 1933 | 2013 | 0.25 | -0.46 | -0.12 | 0.08 | -0.12 | 0.25 | 5 |
| GCE | 1625 | 468024 | 3477648 | 467973 | 3477617 | 1933 | 2013 | -0.06 | -0.29 | -0.17 | 0.08 | -0.18 | 0.87 | 5 |
| GCE | 1626 | 468049 | 3477605 | 468025 | 3477589 | 1933 | 2013 | -0.12 | -0.11 | -0.11 | 0.08 | -0.11 | 1.00 | 5 |
| GCE | 1627 | 468077 | 3477564 | 468053 | 3477544 | 1933 | 2013 | -0.06 | -0.20 | -0.13 | 0.08 | -0.14 | 0.92 | 5 |
| GCE | 1628 | 468107 | 3477525 | 468083 | 3477502 | 1933 | 2013 | 0.08 | -0.30 | -0.11 | 0.08 | -0.12 | 0.53 | 5 |
| GCE | 1629 | 468135 | 3477484 | 468116 | 3477464 | 1933 | 2013 | 0.05 | -0.19 | -0.07 | 0.08 | -0.07 | 0.51 | 5 |
| GCE | 1630 | 468176 | 3477455 | 468155 | 3477428 | 1933 | 2013 | 0.10 | -0.31 | -0.11 | 0.08 | -0.11 | 0.47 | 5 |
| GCE | 1631 | 468212 | 3477420 | 468194 | 3477401 | 1933 | 2013 | 0.08 | -0.15 | -0.03 | 0.08 | -0.04 | 0.22 | 5 |
| GCE | 1632 | 468250 | 3477389 | 468228 | 3477373 | 1933 | 2013 | -0.05 | 0.14 | 0.05 | 0.08 | 0.05 | 0.44 | 5 |
| GCE | 1633 | 468286 | 3477355 | 468253 | 3477345 | 1933 | 2013 | 0.31 | -0.15 | 0.07 | 0.08 | 0.07 | 0.22 | 5 |
| GCE | 1634 | 468420 | 3477183 | 468449 | 3477145 | 1933 | 2013 | -0.15 | -0.51 | -0.34 | 0.08 | -0.34 | 0.91 | 5 |
| GCE | 1635 | 468468 | 3477196 | 468487 | 3477160 | 1933 | 2013 | -0.03 | -0.47 | -0.25 | 0.08 | -0.25 | 0.80 | 5 |
| GCE | 1636 | 468517 | 3477205 | 468527 | 3477169 | 1933 | 2013 | -0.08 | -0.33 | -0.21 | 0.08 | -0.21 | 0.89 | 5 |
| GCE | 1637 | 468566 | 3477211 | 468567 | 3477189 | 1933 | 2013 | 0.03 | -0.01 | 0.01 | 0.08 | 0.01 | 0.44 | 5 |
| GCE | 1638 | 468614 | 3477217 | 468609 | 3477186 | 1933 | 2013 | 0.29 | -0.16 | 0.06 | 0.08 | 0.06 | 0.15 | 5 |
| GCE | 1639 | 468660 | 3477199 | 468646 | 3477170 | 1933 | 2013 | 0.16 | 0.14 | 0.15 | 0.08 | 0.15 | 1.00 | 5 |
| GCE | 1640 | 468704 | 3477176 | 468679 | 3477142 | 1933 | 2013 | 0.26 | 0.30 | 0.28 | 0.08 | 0.28 | 1.00 | 5 |
| GCE | 1641 | 468741 | 3477142 | 468712 | 3477114 | 1933 | 2013 | 0.30 | 0.20 | 0.25 | 0.08 | 0.25 | 0.99 | 5 |
| GCE | 1642 | 468774 | 3477106 | 468746 | 3477080 | 1933 | 2013 | 0.46 | -0.10 | 0.17 | 0.08 | 0.17 | 0.53 | 5 |
| GCE | 1643 | 468812 | 3477073 | 468774 | 3477042 | 1933 | 2013 | 0.75 | -0.29 | 0.22 | 0.08 | 0.21 | 0.34 | 5 |
| GCE | 1644 | 468844 | 3477035 | 468803 | 3477006 | 1933 | 2013 | 0.77 | -0.28 | 0.23 | 0.08 | 0.23 | 0.36 | 5 |
| GCE | 1645 | 468869 | 3476991 | 468837 | 3476967 | 1933 | 2013 | 0.51 | -0.08 | 0.21 | 0.08 | 0.21 | 0.60 | 5 |
| GCE | 1646 | 468904 | 3476956 | 468866 | 3476926 | 1933 | 2013 | 0.71 | -0.17 | 0.26 | 0.08 | 0.26 | 0.51 | 5 |
| GCE | 1647 | 468940 | 3476921 | 468902 | 3476888 | 1933 | 2013 | 0.76 | -0.31 | 0.21 | 0.08 | 0.21 | 0.31 | 5 |
| GCE | 1648 | 464509 | 3475587 | 464525 | 3475547 | 1933 | 2013 | 0.01 | -0.44 | -0.22 | 0.08 | -0.22 | 0.75 | 5 |
| GCE | 1649 | 464558 | 3475580 | 464567 | 3475546 | 1933 | 2013 | 0.00 | -0.35 | -0.18 | 0.08 | -0.18 | 0.76 | 5 |
| GCE | 1650 | 464608 | 3475585 | 464613 | 3475548 | 1933 | 2013 | -0.01 | -0.41 | -0.21 | 0.08 | -0.22 | 0.77 | 5 |
| GCE | 1651 | 464657 | 3475595 | 464662 | 3475563 | 1933 | 2013 | 0.13 | -0.25 | -0.06 | 0.08 | -0.06 | 0.24 | 5 |
| GCE | 1652 | 464706 | 3475602 | 464710 | 3475571 | 1933 | 2013 | 0.28 | -0.03 | 0.12 | 0.08 | 0.12 | 0.65 | 5 |
| GCE | 1653 | 464756 | 3475605 | 464753 | 3475565 | 1933 | 2013 | 0.50 | -0.03 | 0.23 | 0.08 | 0.23 | 0.69 | 5 |
| GCE | 1654 | 464791 | 3475604 | 464784 | 3475562 | 1933 | 2013 | 0.57 | -0.02 | 0.27 | 0.08 | 0.26 | 0.70 | 5 |
| GCE | 1655 | 464791 | 3475604 | 464784 | 3475562 | 1933 | 2013 | 0.57 | -0.02 | 0.27 | 0.08 | 0.26 | 0.70 | 5 |
| GCE | 1656 | 464839 | 3475591 | 464823 | 3475552 | 1933 | 2013 | 0.56 | 0.00 | 0.27 | 0.08 | 0.27 | 0.74 | 5 |
| GCE | 1657 | 464881 | 3475565 | 464851 | 3475532 | 1933 | 2013 | 0.42 | 0.19 | 0.30 | 0.08 | 0.30 | 0.96 | 5 |
| GCE | 1658 | 464916 | 3475530 | 464871 | 3475500 | 1933 | 2013 | 0.43 | 0.40 | 0.41 | 0.08 | 0.41 | 1.00 | 5 |
| GCE | 1659 | 464937 | 3475485 | 464890 | 3475469 | 1933 | 2013 | 0.39 | 0.35 | 0.37 | 0.08 | 0.37 | 1.00 | 5 |
| GCE | 1660 | 464949 | 3475438 | 464901 | 3475432 | 1933 | 2013 | 0.51 | 0.18 | 0.34 | 0.08 | 0.34 | 0.93 | 5 |
| GCE | 1661 | 464945 | 3475390 | 464902 | 3475393 | 1933 | 2013 | 0.42 | 0.16 | 0.29 | 0.08 | 0.29 | 0.94 | 5 |
| GCE | 1662 | 464929 | 3475347 | 464895 | 3475357 | 1933 | 2013 | 0.37 | 0.02 | 0.19 | 0.08 | 0.19 | 0.78 | 5 |
| GCE | 1663 | 464907 | 3475303 | 464878 | 3475316 | 1933 | 2013 | 0.30 | -0.17 | 0.06 | 0.08 | 0.06 | 0.16 | 5 |
| GCE | 1664 | 464878 | 3475262 | 464850 | 3475279 | 1933 | 2013 | 0.30 | -0.30 | -0.01 | 0.08 | -0.01 | 0.00 | 5 |
| GCE | 1665 | 464845 | 3475225 | 464816 | 3475245 | 1933 | 2013 | 0.34 | -0.35 | -0.02 | 0.08 | -0.02 | 0.01 | 5 |
| GCE | 1666 | 464811 | 3475189 | 464787 | 3475204 | 1933 | 2013 | 0.14 | -0.19 | -0.03 | 0.08 | -0.03 | 0.10 | 5 |
| GCE | 1667 | 464779 | 3475151 | 464759 | 3475164 | 1933 | 2013 | 0.05 | -0.09 | -0.02 | 0.08 | -0.02 | 0.24 | 5 |
| GCE | 1668 | 464760 | 3475105 | 464729 | 3475121 | 1933 | 2013 | 0.28 | -0.31 | -0.02 | 0.08 | -0.02 | 0.02 | 5 |
| GCE | 1669 | 464740 | 3475060 | 464702 | 3475074 | 1933 | 2013 | 0.44 | -0.49 | -0.03 | 0.08 | -0.04 | 0.02 | 5 |
| GCE | 1670 | 464726 | 3475012 | 464687 | 3475022 | 1933 | 2013 | 0.52 | -0.34 | 0.08 | 0.08 | 0.08 | 0.09 | 5 |
| GCE | 1671 | 464713 | 3474964 | 464684 | 3474970 | 1933 | 2013 | 0.25 | -0.14 | 0.05 | 0.08 | 0.05 | 0.16 | 5 |
| GCE | 1672 | 464709 | 3474914 | 464683 | 3474920 | 1933 | 2013 | 0.04 | -0.16 | -0.06 | 0.08 | -0.06 | 0.55 | 5 |
| GCE | 1673 | 464715 | 3474865 | 464686 | 3474878 | 1933 | 2013 | 0.03 | -0.19 | -0.08 | 0.08 | -0.08 | 0.61 | 5 |
| GCE | 1674 | 464710 | 3474817 | 464681 | 3474839 | 1933 | 2013 | -0.03 | -0.34 | -0.19 | 0.08 | -0.19 | 0.81 | 5 |
| GCE | 1675 | 464679 | 3474780 | 464644 | 3474823 | 1933 | 2013 | -0.38 | -0.47 | -0.43 | 0.08 | -0.43 | 1.00 | 5 |
| GCE | 1676 | 464632 | 3474762 | 464609 | 3474807 | 1933 | 2013 | -0.39 | -0.37 | -0.38 | 0.08 | -0.38 | 1.00 | 5 |
| GCE | 1677 | 464584 | 3474749 | 464570 | 3474793 | 1933 | 2013 | -0.30 | -0.35 | -0.32 | 0.08 | -0.32 | 1.00 | 5 |
| GCE | 1678 | 464536 | 3474734 | 464524 | 3474775 | 1933 | 2013 | -0.25 | -0.30 | -0.28 | 0.08 | -0.28 | 1.00 | 5 |
| GCE | 1679 | 464487 | 3474724 | 464478 | 3474759 | 1933 | 2013 | -0.08 | -0.29 | -0.19 | 0.08 | -0.19 | 0.91 | 5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1680 | 464441 | 3474706 | 464432 | 3474744 | 1933 | 2013 | -0.17 | -0.29 | -0.23 | 0.08 | -0.23 | 0.98 | 5 |
| GCE | 1681 | 464394 | 3474690 | 464387 | 3474731 | 1933 | 2013 | -0.22 | -0.32 | -0.27 | 0.08 | -0.27 | 0.99 | 5 |
| GCE | 1682 | 464345 | 3474680 | 464343 | 3474714 | 1933 | 2013 | -0.17 | -0.16 | -0.16 | 0.08 | -0.16 | 1.00 | 5 |
| GCE | 1683 | 464296 | 3474671 | 464304 | 3474706 | 1933 | 2013 | -0.26 | -0.10 | -0.18 | 0.08 | -0.18 | 0.94 | 5 |
| GCE | 1684 | 464249 | 3474683 | 464267 | 3474708 | 1933 | 2013 | 0.27 | -0.16 | 0.05 | 0.08 | 0.05 | 0.13 | 5 |
| GCE | 1685 | 464208 | 3474710 | 464248 | 3474727 | 1933 | 2013 | 0.12 | -0.56 | -0.23 | 0.08 | -0.23 | 0.58 | 5 |
| GCE | 1686 | 464196 | 3474757 | 464254 | 3474756 | 1933 | 2013 | 0.18 | -0.90 | -0.38 | 0.08 | -0.38 | 0.60 | 5 |
| GCE | 1687 | 464218 | 3474802 | 464262 | 3474786 | 1933 | 2013 | -0.19 | -0.48 | -0.34 | 0.08 | -0.34 | 0.94 | 5 |
| GCE | 1688 | 464240 | 3474847 | 464280 | 3474823 | 1933 | 2013 | -0.03 | -0.62 | -0.33 | 0.08 | -0.33 | 0.80 | 5 |
| GCE | 1689 | 464266 | 3474889 | 464304 | 3474860 | 1933 | 2013 | -0.19 | -0.49 | -0.35 | 0.08 | -0.35 | 0.94 | 5 |
| GCE | 1690 | 464294 | 3474931 | 464338 | 3474899 | 1933 | 2013 | -0.16 | -0.66 | -0.42 | 0.08 | -0.42 | 0.90 | 5 |
| GCE | 1691 | 464323 | 3474971 | 464370 | 3474938 | 1933 | 2013 | -0.29 | -0.63 | -0.46 | 0.08 | -0.46 | 0.96 | 5 |
| GCE | 1692 | 464350 | 3475013 | 464402 | 3474981 | 1933 | 2013 | -0.24 | -0.77 | -0.51 | 0.08 | -0.51 | 0.92 | 5 |
| GCE | 1693 | 464374 | 3475057 | 464428 | 3475029 | 1933 | 2013 | -0.33 | -0.67 | -0.51 | 0.08 | -0.51 | 0.96 | 5 |
| GCE | 1694 | 464395 | 3475102 | 464454 | 3475077 | 1933 | 2013 | -0.33 | -0.75 | -0.55 | 0.08 | -0.55 | 0.95 | 5 |
| GCE | 1695 | 464417 | 3475147 | 464471 | 3475125 | 1933 | 2013 | -0.34 | -0.62 | -0.48 | 0.08 | -0.48 | 0.97 | 5 |
| GCE | 1696 | 464437 | 3475193 | 464492 | 3475173 | 1933 | 2013 | -0.16 | -0.77 | -0.48 | 0.08 | -0.48 | 0.88 | 5 |
| GCE | 1697 | 464453 | 3475241 | 464508 | 3475225 | 1933 | 2013 | -0.09 | -0.82 | -0.46 | 0.08 | -0.47 | 0.83 | 5 |
| GCE | 1698 | 464463 | 3475289 | 464522 | 3475276 | 1933 | 2013 | -0.16 | -0.84 | -0.51 | 0.08 | -0.51 | 0.87 | 5 |
| GCE | 1699 | 464462 | 3475339 | 464535 | 3475335 | 1933 | 2013 | -0.25 | -1.05 | -0.66 | 0.08 | -0.66 | 0.89 | 5 |
| GCE | 1700 | 464456 | 3475389 | 464537 | 3475399 | 1933 | 2013 | -0.54 | -0.99 | -0.77 | 0.08 | -0.77 | 0.97 | 5 |
| GCE | 1701 | 464450 | 3475439 | 464528 | 3475456 | 1933 | 2013 | -0.52 | -0.96 | -0.75 | 0.08 | -0.75 | 0.97 | 5 |
| GCE | 1702 | 464441 | 3475488 | 464507 | 3475498 | 1933 | 2013 | -0.24 | -0.90 | -0.58 | 0.08 | -0.58 | 0.90 | 5 |
| GCE | 1703 | 464427 | 3475536 | 464491 | 3475534 | 1933 | 2013 | -0.15 | -0.89 | -0.53 | 0.08 | -0.53 | 0.86 | 5 |
| GCE | 1704 | 464530 | 3475635 | 464547 | 3475657 | 1933 | 2013 | 0.09 | -0.11 | -0.01 | 0.08 | -0.01 | 0.05 | 5 |
| GCE | 1705 | 464579 | 3475634 | 464590 | 3475667 | 1933 | 2013 | 0.06 | -0.29 | -0.12 | 0.08 | -0.12 | 0.57 | 5 |
| GCE | 1706 | 464629 | 3475640 | 464630 | 3475674 | 1933 | 2013 | 0.10 | -0.33 | -0.12 | 0.08 | -0.12 | 0.49 | 5 |
| GCE | 1707 | 464678 | 3475645 | 464677 | 3475685 | 1933 | 2013 | -0.17 | -0.30 | -0.24 | 0.08 | -0.24 | 0.98 | 5 |
| GCE | 1708 | 464728 | 3475645 | 464729 | 3475687 | 1933 | 2013 | -0.43 | -0.11 | -0.27 | 0.08 | -0.27 | 0.89 | 5 |
| GCE | 1709 | 464778 | 3475644 | 464786 | 3475686 | 1933 | 2013 | -0.43 | -0.13 | -0.28 | 0.08 | -0.27 | 0.90 | 5 |
| GCE | 1710 | 464827 | 3475637 | 464841 | 3475677 | 1933 | 2013 | -0.25 | -0.29 | -0.27 | 0.08 | -0.27 | 1.00 | 5 |
| GCE | 1711 | 464871 | 3475613 | 464896 | 3475655 | 1933 | 2013 | -0.31 | -0.41 | -0.36 | 0.08 | -0.36 | 0.99 | 5 |
| GCE | 1712 | 464909 | 3475581 | 464943 | 3475618 | 1933 | 2013 | -0.30 | -0.44 | -0.37 | 0.08 | -0.37 | 0.99 | 5 |
| GCE | 1713 | 464939 | 3475541 | 464987 | 3475569 | 1933 | 2013 | -0.32 | -0.56 | -0.44 | 0.08 | -0.44 | 0.98 | 5 |
| GCE | 1714 | 464958 | 3475495 | 465012 | 3475516 | 1933 | 2013 | -0.49 | -0.46 | -0.47 | 0.08 | -0.47 | 1.00 | 5 |
| GCE | 1715 | 464970 | 3475446 | 465025 | 3475454 | 1933 | 2013 | -0.53 | -0.36 | -0.45 | 0.08 | -0.45 | 0.99 | 5 |
| GCE | 1716 | 464974 | 3475397 | 465025 | 3475392 | 1933 | 2013 | -0.37 | -0.40 | -0.39 | 0.08 | -0.39 | 1.00 | 5 |
| GCE | 1717 | 464965 | 3475348 | 465015 | 3475335 | 1933 | 2013 | -0.43 | -0.37 | -0.40 | 0.08 | -0.40 | 1.00 | 5 |
| GCE | 1718 | 464947 | 3475301 | 464990 | 3475283 | 1933 | 2013 | -0.36 | -0.31 | -0.33 | 0.08 | -0.33 | 1.00 | 5 |
| GCE | 1719 | 464924 | 3475258 | 464961 | 3475234 | 1933 | 2013 | -0.25 | -0.34 | -0.30 | 0.08 | -0.30 | 0.99 | 5 |
| GCE | 1720 | 464895 | 3475216 | 464934 | 3475198 | 1933 | 2013 | -0.16 | -0.39 | -0.28 | 0.08 | -0.28 | 0.95 | 5 |
| GCE | 1721 | 464865 | 3475177 | 464908 | 3475170 | 1933 | 2013 | -0.14 | -0.35 | -0.25 | 0.08 | -0.25 | 0.94 | 5 |
| GCE | 1722 | 464840 | 3475135 | 464907 | 3475148 | 1933 | 2013 | -0.69 | -0.19 | -0.43 | 0.08 | -0.43 | 0.90 | 5 |
| GCE | 1723 | 464820 | 3475111 | 464844 | 3475070 | 1933 | 2013 | 0.70 | -0.27 | 0.20 | 0.08 | 0.20 | 0.34 | 5 |
| GCE | 1724 | 464792 | 3475070 | 464817 | 3475054 | 1933 | 2013 | 0.08 | -0.21 | -0.07 | 0.08 | -0.07 | 0.40 | 5 |
| GCE | 1725 | 464777 | 3475023 | 464817 | 3475010 | 1933 | 2013 | -0.19 | -0.28 | -0.23 | 0.08 | -0.23 | 0.99 | 5 |
| GCE | 1726 | 464784 | 3474974 | 464823 | 3474973 | 1933 | 2013 | -0.21 | -0.25 | -0.23 | 0.08 | -0.23 | 1.00 | 5 |
| GCE | 1727 | 464793 | 3474925 | 464825 | 3474929 | 1933 | 2013 | -0.28 | -0.02 | -0.14 | 0.08 | -0.14 | 0.79 | 5 |
| GCE | 1728 | 464805 | 3474877 | 464828 | 3474884 | 1933 | 2013 | -0.10 | 0.06 | -0.02 | 0.08 | -0.02 | 0.16 | 5 |
| GCE | 1729 | 464814 | 3474829 | 464846 | 3474847 | 1933 | 2013 | 0.05 | -0.38 | -0.17 | 0.08 | -0.18 | 0.67 | 5 |
| GCE | 1730 | 464824 | 3474785 | 464871 | 3474825 | 1933 | 2013 | -0.49 | -0.48 | -0.48 | 0.08 | -0.48 | 1.00 | 5 |
| GCE | 1731 | 464872 | 3474774 | 464901 | 3474808 | 1933 | 2013 | -0.26 | -0.32 | -0.29 | 0.08 | -0.29 | 1.00 | 5 |
| GCE | 1732 | 464912 | 3474745 | 464940 | 3474785 | 1933 | 2013 | -0.37 | -0.35 | -0.36 | 0.08 | -0.36 | 1.00 | 5 |
| GCE | 1733 | 464949 | 3474712 | 464985 | 3474750 | 1933 | 2013 | -0.38 | -0.43 | -0.40 | 0.08 | -0.40 | 1.00 | 5 |
| GCE | 1734 | 464986 | 3474678 | 465028 | 3474714 | 1933 | 2013 | -0.35 | -0.51 | -0.43 | 0.08 | -0.43 | 0.99 | 5 |
| GCE | 1735 | 465019 | 3474641 | 465064 | 3474670 | 1933 | 2013 | -0.30 | -0.52 | -0.41 | 0.08 | -0.42 | 0.98 | 5 |
| GCE | 1736 | 465043 | 3474597 | 465091 | 3474619 | 1933 | 2013 | -0.29 | -0.53 | -0.41 | 0.08 | -0.41 | 0.97 | 5 |
| GCE | 1737 | 465058 | 3474550 | 465114 | 3474565 | 1933 | 2013 | -0.27 | -0.66 | -0.47 | 0.08 | -0.47 | 0.94 | 5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1738 | 465068 | 3474501 | 465125 | 3474509 | 1933 | 2013 | -0.29 | -0.64 | -0.47 | 0.08 | -0.47 | 0.96 | 5 |
| GCE | 1739 | 465072 | 3474451 | 465135 | 3474456 | 1933 | 2013 | -0.29 | -0.75 | -0.52 | 0.08 | -0.53 | 0.94 | 5 |
| GCE | 1740 | 465070 | 3474401 | 465138 | 3474401 | 1933 | 2013 | -0.35 | -0.84 | -0.60 | 0.08 | -0.60 | 0.95 | 5 |
| GCE | 1741 | 465065 | 3474352 | 465135 | 3474344 | 1933 | 2013 | -0.33 | -0.91 | -0.63 | 0.08 | -0.63 | 0.93 | 5 |
| GCE | 1742 | 465057 | 3474302 | 465124 | 3474294 | 1933 | 2013 | -0.35 | -0.82 | -0.59 | 0.08 | -0.59 | 0.95 | 5 |
| GCE | 1743 | 465048 | 3474253 | 465123 | 3474247 | 1933 | 2013 | -0.35 | -1.01 | -0.69 | 0.08 | -0.69 | 0.93 | 5 |
| GCE | 1744 | 465041 | 3474204 | 465114 | 3474205 | 1933 | 2013 | -0.49 | -0.81 | -0.65 | 0.08 | -0.65 | 0.98 | 5 |
| GCE | 1745 | 465044 | 3474154 | 465121 | 3474167 | 1933 | 2013 | -0.64 | -0.78 | -0.71 | 0.08 | -0.71 | 1.00 | 5 |
| GCE | 1746 | 465072 | 3474114 | 465127 | 3474137 | 1933 | 2013 | -0.40 | -0.57 | -0.49 | 0.08 | -0.49 | 0.99 | 5 |
| GCE | 1747 | 465109 | 3474081 | 465140 | 3474105 | 1933 | 2013 | -0.23 | -0.23 | -0.23 | 0.08 | -0.23 | 1.00 | 5 |
| GCE | 1748 | 465151 | 3474055 | 465169 | 3474076 | 1933 | 2013 | -0.01 | -0.17 | -0.09 | 0.08 | -0.09 | 0.79 | 5 |
| GCE | 1749 | 465195 | 3474031 | 465208 | 3474056 | 1933 | 2013 | 0.20 | -0.02 | 0.08 | 0.08 | 0.08 | 0.63 | 5 |
| GCE | 1750 | 465240 | 3474010 | 465251 | 3474042 | 1933 | 2013 | 0.33 | 0.01 | 0.17 | 0.08 | 0.16 | 0.75 | 5 |
| GCE | 1751 | 465283 | 3473985 | 465289 | 3474030 | 1933 | 2013 | 0.35 | 0.22 | 0.28 | 0.08 | 0.28 | 0.98 | 5 |
| GCE | 1752 | 465331 | 3473972 | 465331 | 3474027 | 1933 | 2013 | 0.49 | 0.38 | 0.43 | 0.08 | 0.43 | 1.00 | 5 |
| GCE | 1753 | 465380 | 3473967 | 465366 | 3474033 | 1933 | 2013 | 0.65 | 0.53 | 0.59 | 0.08 | 0.59 | 1.00 | 5 |
| GCE | 1754 | 465424 | 3473986 | 465404 | 3474036 | 1933 | 2013 | 0.46 | 0.31 | 0.39 | 0.08 | 0.39 | 0.99 | 5 |
| GCE | 1755 | 465453 | 3474025 | 465437 | 3474055 | 1933 | 2013 | 0.29 | 0.01 | 0.15 | 0.08 | 0.15 | 0.77 | 5 |
| GCE | 1756 | 465488 | 3474061 | 465472 | 3474082 | 1933 | 2013 | 0.14 | 0.03 | 0.08 | 0.08 | 0.08 | 0.86 | 5 |
| GCE | 1757 | 465525 | 3474093 | 465506 | 3474116 | 1933 | 2013 | 0.10 | 0.14 | 0.12 | 0.08 | 0.12 | 0.99 | 5 |
| GCE | 1758 | 465562 | 3474126 | 465544 | 3474147 | 1933 | 2013 | 0.07 | 0.12 | 0.10 | 0.08 | 0.10 | 0.98 | 5 |
| GCE | 1759 | 465600 | 3474158 | 465580 | 3474182 | 1933 | 2013 | 0.17 | 0.10 | 0.14 | 0.08 | 0.14 | 0.98 | 5 |
| GCE | 1760 | 465637 | 3474189 | 465622 | 3474209 | 1933 | 2013 | -0.02 | 0.11 | 0.04 | 0.08 | 0.04 | 0.58 | 5 |
| GCE | 1761 | 465676 | 3474217 | 465661 | 3474238 | 1933 | 2013 | 0.03 | 0.09 | 0.06 | 0.08 | 0.06 | 0.92 | 5 |
| GCE | 1762 | 465718 | 3474243 | 465704 | 3474262 | 1933 | 2013 | -0.03 | 0.08 | 0.03 | 0.08 | 0.03 | 0.43 | 5 |
| GCE | 1763 | 465760 | 3474269 | 465746 | 3474292 | 1933 | 2013 | -0.08 | -0.08 | -0.08 | 0.08 | -0.08 | 1.00 | 5 |
| GCE | 1764 | 465804 | 3474292 | 465792 | 3474316 | 1933 | 2013 | -0.11 | -0.02 | -0.06 | 0.08 | -0.06 | 0.86 | 5 |
| GCE | 1765 | 465849 | 3474314 | 465836 | 3474341 | 1933 | 2013 | -0.13 | 0.01 | -0.06 | 0.08 | -0.06 | 0.70 | 5 |
| GCE | 1766 | 465894 | 3474337 | 465885 | 3474361 | 1933 | 2013 | -0.11 | -0.01 | -0.06 | 0.08 | -0.06 | 0.82 | 5 |
| GCE | 1767 | 465940 | 3474349 | 465931 | 3474379 | 1933 | 2013 | -0.10 | 0.25 | 0.08 | 0.08 | 0.08 | 0.41 | 5 |
| GCE | 1768 | 465983 | 3474368 | 465975 | 3474393 | 1933 | 2013 | -0.16 | 0.00 | -0.08 | 0.08 | -0.08 | 0.74 | 5 |
| GCE | 1769 | 466029 | 3474379 | 466021 | 3474404 | 1933 | 2013 | -0.07 | 0.15 | 0.04 | 0.08 | 0.04 | 0.34 | 5 |
| GCE | 1770 | 466073 | 3474397 | 466066 | 3474421 | 1933 | 2013 | -0.13 | 0.02 | -0.05 | 0.08 | -0.05 | 0.62 | 5 |
| GCE | 1771 | 466121 | 3474408 | 466114 | 3474433 | 1933 | 2013 | 0.01 | -0.15 | -0.07 | 0.08 | -0.07 | 0.69 | 5 |
| GCE | 1772 | 466171 | 3474410 | 466161 | 3474445 | 1933 | 2013 | -0.33 | -0.07 | -0.20 | 0.08 | -0.20 | 0.86 | 5 |
| GCE | 1773 | 466220 | 3474419 | 466208 | 3474460 | 1933 | 2013 | -0.43 | -0.14 | -0.28 | 0.08 | -0.28 | 0.92 | 5 |
| GCE | 1774 | 466269 | 3474428 | 466256 | 3474474 | 1933 | 2013 | -0.43 | -0.24 | -0.33 | 0.08 | -0.33 | 0.97 | 5 |
| GCE | 1775 | 466318 | 3474436 | 466303 | 3474485 | 1933 | 2013 | -0.46 | -0.32 | -0.39 | 0.08 | -0.39 | 0.99 | 5 |
| GCE | 1776 | 466366 | 3474443 | 466354 | 3474494 | 1933 | 2013 | -0.47 | -0.36 | -0.41 | 0.08 | -0.41 | 0.99 | 5 |
| GCE | 1777 | 466416 | 3474447 | 466405 | 3474503 | 1933 | 2013 | -0.56 | -0.37 | -0.46 | 0.08 | -0.46 | 0.99 | 5 |
| GCE | 1778 | 466466 | 3474448 | 466455 | 3474512 | 1933 | 2013 | -0.62 | -0.33 | -0.47 | 0.08 | -0.47 | 0.97 | 5 |
| GCE | 1779 | 466515 | 3474457 | 466507 | 3474512 | 1933 | 2013 | -0.52 | -0.36 | -0.44 | 0.08 | -0.44 | 0.99 | 5 |
| GCE | 1780 | 466565 | 3474462 | 466559 | 3474516 | 1933 | 2013 | -0.39 | -0.45 | -0.42 | 0.08 | -0.42 | 1.00 | 5 |
| GCE | 1781 | 466615 | 3474461 | 466611 | 3474519 | 1933 | 2013 | -0.45 | -0.50 | -0.48 | 0.08 | -0.48 | 1.00 | 5 |
| GCE | 1782 | 466665 | 3474459 | 466659 | 3474521 | 1933 | 2013 | -0.53 | -0.51 | -0.52 | 0.08 | -0.52 | 1.00 | 5 |
| GCE | 1783 | 466715 | 3474460 | 466713 | 3474521 | 1933 | 2013 | -0.48 | -0.53 | -0.51 | 0.08 | -0.51 | 1.00 | 5 |
| GCE | 1784 | 466764 | 3474454 | 466765 | 3474517 | 1933 | 2013 | -0.56 | -0.52 | -0.54 | 0.08 | -0.54 | 1.00 | 5 |
| GCE | 1785 | 466814 | 3474449 | 466821 | 3474510 | 1933 | 2013 | -0.51 | -0.53 | -0.52 | 0.08 | -0.52 | 1.00 | 5 |
| GCE | 1786 | 466863 | 3474442 | 466873 | 3474498 | 1933 | 2013 | -0.42 | -0.51 | -0.46 | 0.08 | -0.46 | 1.00 | 5 |
| GCE | 1787 | 466910 | 3474425 | 466926 | 3474485 | 1933 | 2013 | -0.44 | -0.58 | -0.51 | 0.08 | -0.51 | 0.99 | 5 |
| GCE | 1788 | 466958 | 3474412 | 466978 | 3474466 | 1933 | 2013 | -0.33 | -0.60 | -0.47 | 0.08 | -0.47 | 0.97 | 5 |
| GCE | 1789 | 467002 | 3474390 | 467026 | 3474445 | 1933 | 2013 | -0.44 | -0.55 | -0.49 | 0.08 | -0.49 | 1.00 | 5 |
| GCE | 1790 | 467049 | 3474371 | 467074 | 3474421 | 1933 | 2013 | -0.38 | -0.51 | -0.45 | 0.08 | -0.45 | 0.99 | 5 |
| GCE | 1791 | 467089 | 3474342 | 467122 | 3474395 | 1933 | 2013 | -0.49 | -0.55 | -0.52 | 0.08 | -0.52 | 1.00 | 5 |
| GCE | 1792 | 467130 | 3474313 | 467165 | 3474362 | 1933 | 2013 | -0.49 | -0.50 | -0.50 | 0.08 | -0.50 | 1.00 | 5 |
| GCE | 1793 | 467164 | 3474277 | 467206 | 3474325 | 1933 | 2013 | -0.69 | -0.41 | -0.55 | 0.08 | -0.55 | 0.98 | 5 |
| GCE | 1794 | 467198 | 3474240 | 467243 | 3474281 | 1933 | 2013 | -0.68 | -0.33 | -0.50 | 0.08 | -0.50 | 0.96 | 5 |
| GCE | 1795 | 467232 | 3474204 | 467276 | 3474240 | 1933 | 2013 | -0.41 | -0.49 | -0.45 | 0.08 | -0.45 | 1.00 | 5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1796 | 467263 | 3474165 | 467308 | 3474197 | 1933 | 2013 | -0.34 | -0.52 | -0.43 | 0.08 | -0.43 | 0.99 | 5 |
| GCE | 1797 | 467296 | 3474128 | 467338 | 3474150 | 1933 | 2013 | -0.22 | -0.45 | -0.34 | 0.08 | -0.34 | 0.96 | 5 |
| GCE | 1798 | 467317 | 3474083 | 467361 | 3474105 | 1933 | 2013 | -0.17 | -0.56 | -0.37 | 0.08 | -0.37 | 0.91 | 5 |
| GCE | 1799 | 467341 | 3474039 | 467381 | 3474055 | 1933 | 2013 | 0.07 | -0.56 | -0.25 | 0.08 | -0.26 | 0.67 | 5 |
| GCE | 1800 | 467359 | 3473993 | 467398 | 3474004 | 1933 | 2013 | -0.15 | -0.36 | -0.25 | 0.08 | -0.25 | 0.94 | 5 |
| GCE | 1801 | 467369 | 3473944 | 467415 | 3473951 | 1933 | 2013 | -0.18 | -0.46 | -0.32 | 0.08 | -0.33 | 0.94 | 5 |
| GCE | 1802 | 467380 | 3473895 | 467417 | 3473902 | 1933 | 2013 | -0.08 | -0.34 | -0.21 | 0.08 | -0.21 | 0.90 | 5 |
| GCE | 1803 | 467389 | 3473846 | 467420 | 3473855 | 1933 | 2013 | -0.15 | -0.13 | -0.14 | 0.08 | -0.14 | 1.00 | 5 |
| GCE | 1804 | 467401 | 3473799 | 467423 | 3473807 | 1933 | 2013 | -0.10 | 0.02 | -0.04 | 0.08 | -0.04 | 0.57 | 5 |
| GCE | 1805 | 467424 | 3473755 | 467449 | 3473766 | 1933 | 2013 | -0.01 | -0.15 | -0.08 | 0.08 | -0.08 | 0.80 | 5 |
| GCE | 1806 | 467445 | 3473709 | 467466 | 3473723 | 1933 | 2013 | -0.04 | -0.09 | -0.06 | 0.08 | -0.06 | 0.96 | 5 |
| GCE | 1807 | 467467 | 3473665 | 467489 | 3473682 | 1933 | 2013 | 0.18 | -0.17 | 0.00 | 0.08 | 0.00 | 0.00 | 5 |
| GCE | 1808 | 467491 | 3473621 | 467518 | 3473640 | 1933 | 2013 | 0.32 | -0.05 | 0.13 | 0.08 | 0.13 | 0.61 | 5 |
| GCE | 1809 | 467516 | 3473578 | 467548 | 3473603 | 1933 | 2013 | 0.51 | -0.03 | 0.23 | 0.08 | 0.23 | 0.69 | 5 |
| GCE | 1810 | 467544 | 3473536 | 467579 | 3473569 | 1933 | 2013 | 0.64 | 0.06 | 0.34 | 0.08 | 0.34 | 0.81 | 5 |
| GCE | 1811 | 467571 | 3473495 | 467613 | 3473542 | 1933 | 2013 | 0.99 | 0.10 | 0.53 | 0.08 | 0.53 | 0.81 | 5 |
| GCE | 1812 | 467603 | 3473456 | 467647 | 3473514 | 1933 | 2013 | 1.18 | 0.14 | 0.65 | 0.08 | 0.65 | 0.82 | 5 |
| GCE | 1813 | 467637 | 3473420 | 467684 | 3473487 | 1933 | 2013 | 1.39 | 0.16 | 0.76 | 0.08 | 0.76 | 0.82 | 5 |
| GCE | 1814 | 467666 | 3473379 | 467715 | 3473466 | 1933 | 2013 | 1.74 | 0.24 | 0.97 | 0.08 | 0.97 | 0.83 | 5 |
| GCE | 1815 | 467695 | 3473338 | 467754 | 3473443 | 1933 | 2013 | 1.98 | 0.53 | 1.24 | 0.08 | 1.23 | 0.90 | 5 |
| GCE | 1816 | 467729 | 3473304 | 467789 | 3473427 | 1933 | 2013 | 2.48 | 0.37 | 1.40 | 0.08 | 1.39 | 0.84 | 5 |
| GCE | 1817 | 467758 | 3473264 | 467818 | 3473411 | 1933 | 2013 | 2.94 | 0.56 | 1.72 | 0.08 | 1.71 | 0.86 | 5 |
| GCE | 1818 | 467793 | 3473228 | 467848 | 3473393 | 1933 | 2013 | 3.27 | 0.60 | 1.90 | 0.08 | 1.89 | 0.86 | 5 |
| GCE | 1819 | 467830 | 3473195 | 467890 | 3473387 | 1933 | 2013 | 4.07 | 0.50 | 2.24 | 0.08 | 2.23 | 0.82 | 5 |
| GCE | 1820 | 467870 | 3473166 | 467918 | 3473380 | 1933 | 2013 | 4.45 | 0.59 | 2.47 | 0.08 | 2.46 | 0.83 | 5 |
| GCE | 1821 | 467910 | 3473135 | 467947 | 3473375 | 1933 | 2013 | 4.98 | 0.64 | 2.76 | 0.08 | 2.74 | 0.83 | 5 |
| GCE | 1822 | 467953 | 3473111 | 467980 | 3473367 | 1933 | 2013 | 5.23 | 0.78 | 2.96 | 0.08 | 2.94 | 0.84 | 5 |
| GCE | 1823 | 468001 | 3473101 | 468032 | 3473367 | 1933 | 2013 | 5.41 | 0.85 | 3.08 | 0.08 | 3.06 | 0.84 | 5 |
| GCE | 1824 | 468974 | 3476884 | 468934 | 3476848 | 1933 | 2013 | 0.84 | -0.39 | 0.21 | 0.08 | 0.21 | 0.26 | 6 |
| GCE | 1825 | 469000 | 3476842 | 468965 | 3476812 | 1933 | 2013 | 0.64 | -0.30 | 0.16 | 0.08 | 0.16 | 0.26 | 6 |
| GCE | 1826 | 469024 | 3476799 | 469003 | 3476782 | 1933 | 2013 | 0.17 | -0.03 | 0.07 | 0.08 | 0.07 | 0.59 | 6 |
| GCE | 1827 | 469058 | 3476763 | 469033 | 3476743 | 1933 | 2013 | 0.25 | -0.29 | -0.03 | 0.08 | -0.03 | 0.03 | 6 |
| GCE | 1828 | 469091 | 3476729 | 469060 | 3476705 | 1933 | 2013 | 0.19 | 0.29 | 0.24 | 0.08 | 0.24 | 0.99 | 6 |
| GCE | 1829 | 469116 | 3476686 | 469087 | 3476665 | 1933 | 2013 | -0.15 | 0.39 | 0.13 | 0.08 | 0.13 | 0.40 | 6 |
| GCE | 1830 | 469151 | 3476652 | 469123 | 3476630 | 1933 | 2013 | -0.06 | 0.38 | 0.16 | 0.08 | 0.16 | 0.63 | 6 |
| GCE | 1831 | 469179 | 3476612 | 469158 | 3476594 | 1933 | 2013 | 0.03 | 0.16 | 0.10 | 0.08 | 0.10 | 0.87 | 6 |
| GCE | 1832 | 469211 | 3476573 | 469187 | 3476552 | 1933 | 2013 | 0.08 | 0.21 | 0.15 | 0.08 | 0.15 | 0.93 | 6 |
| GCE | 1833 | 469247 | 3476538 | 469217 | 3476514 | 1933 | 2013 | 0.38 | 0.08 | 0.23 | 0.08 | 0.23 | 0.87 | 6 |
| GCE | 1834 | 469280 | 3476501 | 469242 | 3476472 | 1933 | 2013 | 0.71 | -0.20 | 0.24 | 0.08 | 0.24 | 0.46 | 6 |
| GCE | 1835 | 469307 | 3476459 | 469279 | 3476439 | 1933 | 2013 | 0.28 | 0.09 | 0.18 | 0.08 | 0.18 | 0.92 | 6 |
| GCE | 1836 | 469337 | 3476420 | 469306 | 3476395 | 1933 | 2013 | 0.39 | 0.09 | 0.24 | 0.08 | 0.24 | 0.88 | 6 |
| GCE | 1837 | 469376 | 3476389 | 469329 | 3476359 | 1933 | 2013 | 0.91 | -0.26 | 0.31 | 0.08 | 0.31 | 0.45 | 6 |
| GCE | 1838 | 469401 | 3476347 | 469361 | 3476319 | 1933 | 2013 | 0.73 | -0.30 | 0.20 | 0.08 | 0.20 | 0.31 | 6 |
| GCE | 1839 | 469418 | 3476301 | 469384 | 3476277 | 1933 | 2013 | 0.31 | 0.17 | 0.23 | 0.08 | 0.23 | 0.97 | 6 |
| GCE | 1840 | 469440 | 3476264 | 469406 | 3476239 | 1933 | 2013 | 0.32 | 0.16 | 0.24 | 0.08 | 0.24 | 0.96 | 6 |
| GCE | 1841 | 469472 | 3476226 | 469442 | 3476205 | 1933 | 2013 | 0.20 | 0.22 | 0.21 | 0.08 | 0.21 | 1.00 | 6 |
| GCE | 1842 | 469495 | 3476182 | 469468 | 3476162 | 1933 | 2013 | 0.30 | 0.05 | 0.17 | 0.08 | 0.17 | 0.85 | 6 |
| GCE | 1843 | 469518 | 3476137 | 469492 | 3476121 | 1933 | 2013 | 0.27 | 0.01 | 0.14 | 0.08 | 0.14 | 0.76 | 6 |
| GCE | 1844 | 469536 | 3476091 | 469514 | 3476080 | 1933 | 2013 | -0.06 | 0.09 | 0.02 | 0.08 | 0.02 | 0.17 | 6 |
| GCE | 1845 | 469555 | 3476045 | 469535 | 3476038 | 1933 | 2013 | 0.03 | -0.02 | 0.00 | 0.08 | 0.00 | 0.09 | 6 |
| GCE | 1846 | 469574 | 3476000 | 469549 | 3475992 | 1933 | 2013 | -0.09 | -0.09 | -0.09 | 0.08 | -0.09 | 1.00 | 6 |
| GCE | 1847 | 469592 | 3475954 | 469567 | 3475944 | 1933 | 2013 | -0.18 | 0.14 | -0.02 | 0.08 | -0.02 | 0.03 | 6 |
| GCE | 1848 | 469612 | 3475908 | 469584 | 3475898 | 1933 | 2013 | -0.24 | 0.06 | -0.09 | 0.08 | -0.09 | 0.51 | 6 |
| GCE | 1849 | 469636 | 3475864 | 469612 | 3475853 | 1933 | 2013 | -0.15 | 0.16 | 0.01 | 0.08 | 0.01 | 0.01 | 6 |
| GCE | 1850 | 469652 | 3475817 | 469621 | 3475801 | 1933 | 2013 | 0.08 | -0.35 | -0.14 | 0.08 | -0.14 | 0.57 | 6 |
| GCE | 1851 | 469679 | 3475776 | 469650 | 3475766 | 1933 | 2013 | 0.05 | 0.21 | 0.13 | 0.08 | 0.13 | 0.89 | 6 |
| GCE | 1852 | 469693 | 3475729 | 469671 | 3475718 | 1933 | 2013 | -0.10 | 0.08 | -0.01 | 0.08 | -0.01 | 0.01 | 6 |
| GCE | 1853 | 469698 | 3475679 | 469661 | 3475664 | 1933 | 2013 | -0.01 | -0.45 | -0.23 | 0.08 | -0.24 | 0.78 | 6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1854 | 469708 | 3475630 | 469677 | 3475617 | 1933 | 2013 | 0.02 | -0.31 | -0.15 | 0.08 | -0.15 | 0.72 | 6 |
| GCE | 1855 | 469721 | 3475582 | 469691 | 3475573 | 1933 | 2013 | -0.16 | -0.13 | -0.14 | 0.08 | -0.14 | 1.00 | 6 |
| GCE | 1856 | 469734 | 3475534 | 469700 | 3475520 | 1933 | 2013 | 0.20 | -0.37 | -0.09 | 0.08 | -0.09 | 0.24 | 6 |
| GCE | 1857 | 469741 | 3475486 | 469715 | 3475481 | 1933 | 2013 | -0.11 | -0.04 | -0.08 | 0.08 | -0.08 | 0.93 | 6 |
| GCE | 1858 | 469759 | 3475441 | 469719 | 3475433 | 1933 | 2013 | -0.40 | 0.48 | 0.05 | 0.08 | 0.06 | 0.05 | 6 |
| GCE | 1859 | 469764 | 3475392 | 469727 | 3475388 | 1933 | 2013 | -0.46 | 0.39 | -0.02 | 0.08 | -0.02 | 0.01 | 6 |
| GCE | 1860 | 469767 | 3475342 | 469737 | 3475335 | 1933 | 2013 | -0.05 | -0.22 | -0.14 | 0.08 | -0.14 | 0.89 | 6 |
| GCE | 1861 | 469779 | 3475293 | 469743 | 3475288 | 1933 | 2013 | -0.03 | -0.37 | -0.20 | 0.08 | -0.20 | 0.82 | 6 |
| GCE | 1862 | 469795 | 3475247 | 469757 | 3475245 | 1933 | 2013 | 0.16 | -0.43 | -0.14 | 0.08 | -0.14 | 0.41 | 6 |
| GCE | 1863 | 469810 | 3475200 | 469771 | 3475204 | 1933 | 2013 | 0.05 | -0.48 | -0.22 | 0.08 | -0.22 | 0.68 | 6 |
| GCE | 1864 | 469797 | 3475154 | 469761 | 3475166 | 1933 | 2013 | -0.24 | -0.22 | -0.23 | 0.08 | -0.23 | 1.00 | 6 |
| GCE | 1865 | 469784 | 3475106 | 469737 | 3475134 | 1933 | 2013 | -0.21 | -0.63 | -0.42 | 0.08 | -0.43 | 0.93 | 6 |
| GCE | 1866 | 469746 | 3475075 | 469710 | 3475108 | 1933 | 2013 | 0.03 | -0.70 | -0.34 | 0.08 | -0.35 | 0.73 | 6 |
| GCE | 1867 | 469709 | 3475042 | 469676 | 3475081 | 1933 | 2013 | -0.15 | -0.62 | -0.39 | 0.08 | -0.39 | 0.89 | 6 |
| GCE | 1868 | 469668 | 3475016 | 469638 | 3475055 | 1933 | 2013 | -0.23 | -0.47 | -0.35 | 0.08 | -0.35 | 0.96 | 6 |
| GCE | 1869 | 469624 | 3474994 | 469600 | 3475029 | 1933 | 2013 | -0.31 | -0.26 | -0.28 | 0.08 | -0.28 | 1.00 | 6 |
| GCE | 1870 | 469582 | 3474968 | 469560 | 3475003 | 1933 | 2013 | -0.38 | -0.14 | -0.26 | 0.08 | -0.26 | 0.93 | 6 |
| GCE | 1871 | 469538 | 3474944 | 469516 | 3474975 | 1933 | 2013 | -0.26 | -0.18 | -0.22 | 0.08 | -0.22 | 0.99 | 6 |
| GCE | 1872 | 469495 | 3474921 | 469473 | 3474950 | 1933 | 2013 | 0.23 | -0.39 | -0.09 | 0.08 | -0.09 | 0.20 | 6 |
| GCE | 1873 | 469456 | 3474892 | 469434 | 3474922 | 1933 | 2013 | -0.02 | -0.38 | -0.21 | 0.08 | -0.21 | 0.80 | 6 |
| GCE | 1874 | 469428 | 3474851 | 469407 | 3474878 | 1933 | 2013 | 0.16 | -0.34 | -0.09 | 0.08 | -0.09 | 0.30 | 6 |
| GCE | 1875 | 469384 | 3474832 | 469363 | 3474857 | 1933 | 2013 | -0.22 | 0.29 | 0.04 | 0.08 | 0.04 | 0.07 | 6 |
| GCE | 1876 | 469352 | 3474795 | 469337 | 3474819 | 1933 | 2013 | -0.09 | 0.05 | -0.02 | 0.08 | -0.02 | 0.22 | 6 |
| GCE | 1877 | 469305 | 3474784 | 469291 | 3474805 | 1933 | 2013 | -0.03 | 0.10 | 0.04 | 0.08 | 0.04 | 0.46 | 6 |
| GCE | 1878 | 469270 | 3474752 | 469256 | 3474778 | 1933 | 2013 | -0.07 | 0.18 | 0.06 | 0.08 | 0.06 | 0.38 | 6 |
| GCE | 1879 | 469224 | 3474735 | 469209 | 3474762 | 1933 | 2013 | -0.01 | 0.26 | 0.13 | 0.08 | 0.13 | 0.73 | 6 |
| GCE | 1880 | 469185 | 3474704 | 469171 | 3474745 | 1933 | 2013 | -0.30 | 0.56 | 0.14 | 0.08 | 0.15 | 0.26 | 6 |
| GCE | 1881 | 469145 | 3474676 | 469128 | 3474711 | 1933 | 2013 | -0.36 | 0.45 | 0.05 | 0.08 | 0.06 | 0.06 | 6 |
| GCE | 1882 | 469099 | 3474661 | 469084 | 3474704 | 1933 | 2013 | -0.22 | 0.61 | 0.20 | 0.08 | 0.21 | 0.43 | 6 |
| GCE | 1883 | 469056 | 3474637 | 469044 | 3474676 | 1933 | 2013 | -0.30 | 0.47 | 0.09 | 0.08 | 0.10 | 0.16 | 6 |
| GCE | 1884 | 469012 | 3474614 | 469007 | 3474651 | 1933 | 2013 | -0.08 | 0.40 | 0.17 | 0.08 | 0.17 | 0.59 | 6 |
| GCE | 1885 | 468964 | 3474605 | 468954 | 3474641 | 1933 | 2013 | -0.29 | -0.12 | -0.20 | 0.08 | -0.20 | 0.94 | 6 |
| GCE | 1886 | 468900 | 3474582 | 468854 | 3474576 | 1933 | 2013 | 0.39 | -0.21 | 0.08 | 0.08 | 0.08 | 0.17 | 6 |
| GCE | 1887 | 468869 | 3474544 | 468839 | 3474558 | 1933 | 2013 | 0.25 | -0.26 | -0.01 | 0.08 | -0.01 | 0.01 | 6 |
| GCE | 1888 | 468837 | 3474508 | 468810 | 3474527 | 1933 | 2013 | 0.20 | -0.09 | 0.05 | 0.08 | 0.05 | 0.25 | 6 |
| GCE | 1889 | 468808 | 3474471 | 468777 | 3474507 | 1933 | 2013 | 0.14 | -0.10 | 0.02 | 0.08 | 0.02 | 0.05 | 6 |
| GCE | 1890 | 468773 | 3474438 | 468751 | 3474462 | 1933 | 2013 | 0.30 | -0.15 | 0.07 | 0.08 | 0.07 | 0.20 | 6 |
| GCE | 1891 | 468746 | 3474400 | 468723 | 3474425 | 1933 | 2013 | 0.31 | -0.19 | 0.06 | 0.08 | 0.06 | 0.14 | 6 |
| GCE | 1892 | 468707 | 3474371 | 468685 | 3474388 | 1933 | 2013 | 0.19 | -0.20 | -0.01 | 0.08 | -0.01 | 0.01 | 6 |
| GCE | 1893 | 468674 | 3474333 | 468654 | 3474351 | 1933 | 2013 | 0.15 | -0.14 | 0.00 | 0.08 | 0.00 | 0.00 | 6 |
| GCE | 1894 | 468658 | 3474287 | 468635 | 3474300 | 1933 | 2013 | 0.01 | 0.14 | 0.07 | 0.08 | 0.07 | 0.79 | 6 |
| GCE | 1895 | 468626 | 3474253 | 468599 | 3474269 | 1933 | 2013 | 0.28 | -0.19 | 0.04 | 0.08 | 0.04 | 0.08 | 6 |
| GCE | 1896 | 468599 | 3474211 | 468578 | 3474222 | 1933 | 2013 | 0.06 | -0.02 | 0.02 | 0.08 | 0.02 | 0.31 | 6 |
| GCE | 1897 | 468571 | 3474173 | 468544 | 3474188 | 1933 | 2013 | 0.27 | -0.22 | 0.02 | 0.08 | 0.02 | 0.02 | 6 |
| GCE | 1898 | 468541 | 3474133 | 468514 | 3474147 | 1933 | 2013 | 0.26 | -0.17 | 0.04 | 0.08 | 0.04 | 0.09 | 6 |
| GCE | 1899 | 468516 | 3474090 | 468490 | 3474105 | 1933 | 2013 | 0.18 | -0.23 | -0.03 | 0.08 | -0.03 | 0.08 | 6 |
| GCE | 1900 | 468493 | 3474046 | 468467 | 3474057 | 1933 | 2013 | 0.22 | -0.11 | 0.05 | 0.08 | 0.05 | 0.20 | 6 |
| GCE | 1901 | 468473 | 3474000 | 468446 | 3474011 | 1933 | 2013 | 0.17 | -0.18 | -0.01 | 0.08 | -0.01 | 0.01 | 6 |
| GCE | 1902 | 468458 | 3473952 | 468428 | 3473965 | 1933 | 2013 | 0.34 | -0.20 | 0.06 | 0.08 | 0.06 | 0.14 | 6 |
| GCE | 1903 | 468442 | 3473905 | 468416 | 3473915 | 1933 | 2013 | 0.19 | -0.15 | 0.02 | 0.08 | 0.01 | 0.02 | 6 |
| GCE | 1904 | 468427 | 3473857 | 468396 | 3473867 | 1933 | 2013 | 0.31 | -0.16 | 0.07 | 0.08 | 0.07 | 0.21 | 6 |
| GCE | 1905 | 468412 | 3473810 | 468378 | 3473823 | 1933 | 2013 | 0.41 | -0.22 | 0.09 | 0.08 | 0.09 | 0.18 | 6 |
| GCE | 1906 | 468398 | 3473762 | 468362 | 3473774 | 1933 | 2013 | 0.44 | -0.11 | 0.16 | 0.08 | 0.16 | 0.49 | 6 |
| GCE | 1907 | 468391 | 3473712 | 468348 | 3473725 | 1933 | 2013 | 0.65 | -0.17 | 0.23 | 0.08 | 0.23 | 0.48 | 6 |
| GCE | 1908 | 468379 | 3473664 | 468338 | 3473678 | 1933 | 2013 | 0.61 | -0.20 | 0.20 | 0.08 | 0.19 | 0.40 | 6 |
| GCE | 1909 | 468369 | 3473616 | 468324 | 3473635 | 1933 | 2013 | 0.62 | 0.04 | 0.32 | 0.08 | 0.32 | 0.79 | 6 |
| GCE | 1910 | 468348 | 3473575 | 468303 | 3473593 | 1933 | 2013 | 0.73 | -0.14 | 0.28 | 0.08 | 0.28 | 0.55 | 6 |
| GCE | 1911 | 468340 | 3473528 | 468287 | 3473552 | 1933 | 2013 | 0.67 | 0.17 | 0.41 | 0.08 | 0.41 | 0.89 | 6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCE | 1912 | 468319 | 3473495 | 468273 | 3473517 | 1933 | 2013 | 0.69 | 0.09 | 0.38 | 0.08 | 0.38 | 0.83 | 6 |
| GCE | 1913 | 468296 | 3473451 | 468256 | 3473471 | 1933 | 2013 | 0.64 | -0.01 | 0.31 | 0.08 | 0.30 | 0.73 | 6 |
| GCE | 1914 | 468279 | 3473405 | 468236 | 3473431 | 1933 | 2013 | 0.65 | 0.11 | 0.37 | 0.08 | 0.37 | 0.85 | 6 |
| GCE | 1915 | 468258 | 3473370 | 468220 | 3473402 | 1933 | 2013 | 0.73 | 0.02 | 0.37 | 0.08 | 0.37 | 0.76 | 6 |
| GCE | 1916 | 468242 | 3473323 | 468201 | 3473373 | 1933 | 2013 | 1.11 | -0.12 | 0.48 | 0.08 | 0.47 | 0.64 | 6 |
| GCE | 1917 | 468222 | 3473277 | 468181 | 3473359 | 1933 | 2013 | 1.76 | -0.07 | 0.82 | 0.08 | 0.82 | 0.70 | 6 |
| GCE | 1918 | 468197 | 3473234 | 468167 | 3473358 | 1933 | 2013 | 2.60 | -0.04 | 1.25 | 0.08 | 1.24 | 0.73 | 6 |
| GCE | 1919 | 468171 | 3473192 | 468166 | 3473359 | 1933 | 2013 | 3.35 | 0.18 | 1.73 | 0.08 | 1.72 | 0.78 | 6 |
| GCE | 1920 | 468136 | 3473158 | 468143 | 3473365 | 1933 | 2013 | 4.09 | 0.58 | 2.29 | 0.08 | 2.28 | 0.83 | 6 |
| GCE | 1921 | 468096 | 3473129 | 468110 | 3473373 | 1933 | 2013 | 4.91 | 0.73 | 2.78 | 0.08 | 2.76 | 0.84 | 6 |
| GCE | 1922 | 468050 | 3473109 | 468071 | 3473373 | 1933 | 2013 | 5.37 | 0.80 | 3.03 | 0.08 | 3.02 | 0.84 | 6 |
| VCR | 1923 | 426202 | 4144542 | 426229 | 4144510 | 1949 | 2013 | -0.68 | 0.35 | 0.17 | 0.06 | 0.23 | 0.71 | 2 |
| VCR | 1924 | 426251 | 4144549 | 426263 | 4144523 | 1949 | 2013 | -0.80 | 0.12 | -0.03 | 0.06 | 0.02 | 0.01 | 2 |
| VCR | 1925 | 426298 | 4144565 | 426305 | 4144542 | 1949 | 2013 | -0.30 | -0.02 | -0.07 | 0.06 | -0.05 | 0.64 | 2 |
| VCR | 1926 | 426343 | 4144586 | 426350 | 4144560 | 1949 | 2013 | 0.04 | -0.12 | -0.10 | 0.06 | -0.11 | 0.95 | 2 |
| VCR | 1927 | 426391 | 4144602 | 426402 | 4144575 | 1949 | 2013 | -0.23 | -0.12 | -0.14 | 0.06 | -0.13 | 0.99 | 2 |
| VCR | 1928 | 426439 | 4144612 | 426459 | 4144587 | 1949 | 2013 | NA | NA | -0.16 | 0.06 | -0.16 | 0.00 | 2 |
| VCR | 1929 | 426487 | 4144628 | 426508 | 4144614 | 1949 | 2013 | NA | NA | -0.07 | 0.06 | -0.07 | 0.00 | 2 |
| VCR | 1930 | 426496 | 4144671 | 426530 | 4144666 | 1949 | 2013 | NA | NA | 0.22 | 0.06 | 0.22 | 0.00 | 2 |
| VCR | 1931 | 426479 | 4144718 | 426521 | 4144720 | 1949 | 2013 | 1.89 | -0.04 | 0.29 | 0.06 | 0.19 | 0.32 | 2 |
| VCR | 1932 | 426458 | 4144763 | 426504 | 4144765 | 1949 | 2013 | 2.28 | -0.01 | 0.38 | 0.06 | 0.26 | 0.38 | 2 |
| VCR | 1933 | 426451 | 4144812 | 426486 | 4144808 | 1949 | 2013 | 1.41 | -0.25 | 0.03 | 0.06 | -0.06 | 0.05 | 2 |
| VCR | 1934 | 426477 | 4144852 | 426519 | 4144850 | 1949 | 2013 | 0.71 | -0.26 | -0.10 | 0.06 | -0.15 | 0.54 | 2 |
| VCR | 1935 | 426510 | 4144889 | 426547 | 4144889 | 1949 | 2013 | 1.22 | -0.26 | -0.01 | 0.06 | -0.09 | 0.15 | 2 |
| VCR | 1936 | 426511 | 4144938 | 426554 | 4144950 | 1949 | 2013 | 1.31 | -0.46 | -0.15 | 0.06 | -0.25 | 0.50 | 2 |
| VCR | 1937 | 426485 | 4144979 | 426509 | 4145006 | 1949 | 2013 | 0.93 | -0.28 | -0.08 | 0.06 | -0.14 | 0.41 | 2 |
| VCR | 1938 | 426449 | 4145011 | 426454 | 4145042 | 1949 | 2013 | 0.78 | -0.18 | -0.02 | 0.06 | -0.07 | 0.21 | 2 |
| VCR | 1939 | 426410 | 4145027 | 426404 | 4145054 | 1949 | 2013 | 0.15 | -0.10 | -0.06 | 0.06 | -0.07 | 0.79 | 2 |
| VCR | 1940 | 426376 | 4144991 | 426359 | 4145020 | 1949 | 2013 | 0.24 | -0.25 | -0.16 | 0.06 | -0.19 | 0.88 | 2 |
| VCR | 1941 | 426335 | 4144963 | 426310 | 4144989 | 1949 | 2013 | 0.82 | -0.27 | -0.08 | 0.06 | -0.14 | 0.46 | 2 |
| VCR | 1942 | 426293 | 4144940 | 426277 | 4144962 | 1949 | 2013 | 0.46 | -0.11 | -0.02 | 0.06 | -0.05 | 0.24 | 2 |
| VCR | 1943 | 426259 | 4144903 | 426249 | 4144928 | 1949 | 2013 | 0.39 | -0.08 | 0.00 | 0.06 | -0.03 | 0.14 | 2 |
| VCR | 1944 | 426225 | 4144868 | 426223 | 4144900 | 1949 | 2013 | 0.88 | -0.15 | 0.02 | 0.06 | -0.03 | 0.05 | 2 |
| VCR | 1945 | 426178 | 4144869 | 426205 | 4144911 | 1949 | 2013 | 2.61 | -0.24 | 0.24 | 0.06 | 0.09 | 0.04 | 2 |
| VCR | 1946 | 426164 | 4144913 | 426202 | 4144933 | 1949 | 2013 | 1.58 | -0.21 | 0.09 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 1947 | 426173 | 4144961 | 426207 | 4144966 | 1949 | 2013 | 1.20 | -0.15 | 0.08 | 0.06 | 0.01 | 0.00 | 2 |
| VCR | 1948 | 426177 | 4145011 | 426211 | 4145009 | 1949 | 2013 | 1.28 | -0.23 | 0.03 | 0.06 | -0.05 | 0.06 | 2 |
| VCR | 1949 | 426183 | 4145060 | 426217 | 4145064 | 1949 | 2013 | 1.15 | -0.25 | -0.01 | 0.06 | -0.09 | 0.17 | 2 |
| VCR | 1950 | 426184 | 4145109 | 426221 | 4145125 | 1949 | 2013 | 1.85 | -0.12 | 0.22 | 0.06 | 0.11 | 0.14 | 2 |
| VCR | 1951 | 426151 | 4145142 | 426160 | 4145185 | 1949 | 2013 | 0.75 | 0.29 | 0.37 | 0.06 | 0.35 | 0.97 | 2 |
| VCR | 1952 | 426105 | 4145161 | 426077 | 4145170 | 1949 | 2013 | 1.39 | -0.07 | 0.18 | 0.06 | 0.10 | 0.19 | 2 |
| VCR | 1953 | 426105 | 4145206 | 426090 | 4145211 | 1949 | 2013 | 0.49 | -0.06 | 0.03 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 1954 | 426128 | 4145248 | 426149 | 4145235 | 1949 | 2013 | 0.18 | -0.08 | -0.04 | 0.06 | -0.05 | 0.66 | 2 |
| VCR | 1955 | 426143 | 4145296 | 426168 | 4145331 | 1949 | 2013 | 0.44 | -0.14 | -0.04 | 0.06 | -0.07 | 0.40 | 2 |
| VCR | 1956 | 426095 | 4145377 | 426120 | 4145397 | 1949 | 2013 | 0.79 | 0.04 | 0.17 | 0.06 | 0.13 | 0.59 | 2 |
| VCR | 1957 | 426054 | 4145405 | 426085 | 4145418 | 1949 | 2013 | 1.02 | -0.10 | 0.09 | 0.06 | 0.03 | 0.04 | 2 |
| VCR | 1958 | 426026 | 4145446 | 426059 | 4145458 | 1949 | 2013 | 1.36 | -0.13 | 0.13 | 0.06 | 0.04 | 0.04 | 2 |
| VCR | 1959 | 426013 | 4145494 | 426054 | 4145489 | 1949 | 2013 | 1.96 | -0.19 | 0.18 | 0.06 | 0.07 | 0.04 | 2 |
| VCR | 1960 | 426023 | 4145540 | 426050 | 4145522 | 1949 | 2013 | 0.15 | 0.14 | 0.14 | 0.06 | 0.14 | 1.00 | 2 |
| VCR | 1961 | 426072 | 4145547 | 426095 | 4145520 | 1949 | 2013 | -0.58 | -0.03 | -0.12 | 0.06 | -0.09 | 0.57 | 2 |
| VCR | 1962 | 426122 | 4145546 | 426139 | 4145522 | 1949 | 2013 | -0.72 | 0.01 | -0.12 | 0.06 | -0.08 | 0.36 | 2 |
| VCR | 1963 | 426168 | 4145562 | 426183 | 4145543 | 1949 | 2013 | -0.17 | 0.08 | 0.03 | 0.06 | 0.05 | 0.64 | 2 |
| VCR | 1964 | 426198 | 4145600 | 426210 | 4145596 | 1949 | 2013 | -0.44 | 0.06 | -0.03 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 1965 | 426222 | 4145644 | 426225 | 4145643 | 1949 | 2013 | -0.63 | -0.04 | -0.14 | 0.06 | -0.11 | 0.64 | 2 |
| VCR | 1966 | 426259 | 4145676 | 426290 | 4145674 | 1949 | 2013 | -0.34 | -0.04 | -0.09 | 0.06 | -0.08 | 0.78 | 2 |
| VCR | 1967 | 426284 | 4145717 | 426308 | 4145715 | 1949 | 2013 | -0.31 | 0.02 | -0.04 | 0.06 | -0.02 | 0.12 | 2 |
| VCR | 1968 | 426284 | 4145765 | 426324 | 4145762 | 1949 | 2013 | -0.35 | -0.25 | -0.27 | 0.06 | -0.27 | 1.00 | 2 |
| VCR | 1969 | 426263 | 4145806 | 426274 | 4145802 | 1949 | 2013 | -1.80 | -0.02 | -0.32 | 0.06 | -0.23 | 0.44 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 1970 | 426281 | 4145838 | 426285 | 4145837 | 1949 | 2013 | -0.14 | -0.02 | -0.04 | 0.06 | -0.03 | 0.74 | 2 |
| VCR | 1971 | 426285 | 4145767 | 426263 | 4145754 | 1949 | 2013 | 0.25 | 0.04 | 0.08 | 0.07 | 0.06 | 0.83 | 2 |
| VCR | 1972 | 426292 | 4145719 | 426269 | 4145724 | 1949 | 2013 | 0.12 | -0.02 | 0.00 | 0.07 | 0.00 | 0.05 | 2 |
| VCR | 1973 | 426269 | 4145677 | 426236 | 4145693 | 1949 | 2013 | 0.52 | 0.19 | 0.24 | 0.07 | 0.22 | 0.96 | 2 |
| VCR | 1974 | 426230 | 4145645 | 426206 | 4145668 | 1949 | 2013 | 1.12 | 0.02 | 0.21 | 0.07 | 0.15 | 0.49 | 2 |
| VCR | 1975 | 426197 | 4145608 | 426179 | 4145636 | 1949 | 2013 | 0.75 | 0.08 | 0.19 | 0.07 | 0.16 | 0.73 | 2 |
| VCR | 1976 | 426163 | 4145572 | 426151 | 4145596 | 1949 | 2013 | -0.04 | 0.02 | 0.01 | 0.07 | 0.01 | 0.76 | 2 |
| VCR | 1977 | 426125 | 4145542 | 426108 | 4145583 | 1949 | 2013 | 2.16 | -0.10 | 0.28 | 0.07 | 0.16 | 0.20 | 2 |
| VCR | 1978 | 426076 | 4145538 | 426052 | 4145586 | 1949 | 2013 | 2.64 | -0.18 | 0.30 | 0.07 | 0.15 | 0.12 | 2 |
| VCR | 1979 | 426031 | 4145551 | 426016 | 4145569 | 1949 | 2013 | -0.11 | 0.06 | 0.03 | 0.07 | 0.04 | 0.74 | 2 |
| VCR | 1980 | 426009 | 4145507 | 425979 | 4145512 | 1949 | 2013 | -0.98 | 0.04 | -0.14 | 0.07 | -0.08 | 0.23 | 2 |
| VCR | 1981 | 426026 | 4145460 | 425982 | 4145446 | 1949 | 2013 | -2.25 | 0.31 | -0.13 | 0.07 | 0.01 | 0.00 | 2 |
| VCR | 1982 | 426047 | 4145417 | 426020 | 4145398 | 1949 | 2013 | -0.77 | 0.06 | -0.08 | 0.07 | -0.04 | 0.08 | 2 |
| VCR | 1983 | 426086 | 4145386 | 426061 | 4145366 | 1949 | 2013 | -1.04 | 0.06 | -0.13 | 0.07 | -0.07 | 0.15 | 2 |
| VCR | 1984 | 426126 | 4145357 | 426090 | 4145342 | 1949 | 2013 | -1.38 | 0.08 | -0.17 | 0.07 | -0.09 | 0.16 | 2 |
| VCR | 1985 | 426147 | 4145313 | 426117 | 4145311 | 1949 | 2013 | -0.70 | 0.18 | 0.03 | 0.07 | 0.08 | 0.29 | 2 |
| VCR | 1986 | 426135 | 4145266 | 426099 | 4145270 | 1949 | 2013 | 0.55 | 0.11 | 0.18 | 0.07 | 0.16 | 0.87 | 2 |
| VCR | 1987 | 426101 | 4145228 | 426071 | 4145230 | 1949 | 2013 | 0.51 | 0.02 | 0.10 | 0.07 | 0.07 | 0.53 | 2 |
| VCR | 1988 | 426086 | 4145182 | 426044 | 4145175 | 1949 | 2013 | -1.35 | 0.39 | 0.09 | 0.07 | 0.19 | 0.36 | 2 |
| VCR | 1989 | 426114 | 4145145 | 426065 | 4145128 | 1949 | 2013 | -1.86 | 0.43 | 0.04 | 0.07 | 0.16 | 0.20 | 2 |
| VCR | 1990 | 426160 | 4145126 | 426117 | 4145106 | 1949 | 2013 | -1.97 | 0.24 | -0.14 | 0.07 | -0.02 | 0.00 | 2 |
| VCR | 1991 | 426187 | 4145091 | 426153 | 4145076 | 1949 | 2013 | -1.30 | 0.23 | -0.03 | 0.07 | 0.05 | 0.05 | 2 |
| VCR | 1992 | 426185 | 4145041 | 426157 | 4145039 | 1949 | 2013 | -0.40 | 0.13 | 0.04 | 0.07 | 0.07 | 0.43 | 2 |
| VCR | 1993 | 426178 | 4144992 | 426145 | 4144993 | 1949 | 2013 | -1.12 | 0.07 | -0.13 | 0.07 | -0.06 | 0.12 | 2 |
| VCR | 1994 | 426171 | 4144943 | 426123 | 4144933 | 1949 | 2013 | -2.67 | 0.29 | -0.22 | 0.07 | -0.06 | 0.02 | 2 |
| VCR | 1995 | 426176 | 4144895 | 426138 | 4144866 | 1949 | 2013 | -2.14 | 0.22 | -0.18 | 0.07 | -0.05 | 0.02 | 2 |
| VCR | 1996 | 426219 | 4144875 | 426216 | 4144844 | 1949 | 2013 | -0.40 | -0.12 | -0.17 | 0.07 | -0.15 | 0.93 | 2 |
| VCR | 1997 | 426257 | 4144900 | 426268 | 4144864 | 1949 | 2013 | 0.78 | -0.21 | -0.04 | 0.07 | -0.09 | 0.31 | 2 |
| VCR | 1998 | 426290 | 4144937 | 426305 | 4144915 | 1949 | 2013 | 0.52 | -0.04 | 0.05 | 0.07 | 0.02 | 0.07 | 2 |
| VCR | 1999 | 426331 | 4144965 | 426348 | 4144943 | 1949 | 2013 | 0.20 | 0.11 | 0.13 | 0.07 | 0.12 | 0.99 | 2 |
| VCR | 2000 | 426374 | 4144990 | 426386 | 4144959 | 1949 | 2013 | 0.75 | 0.09 | 0.20 | 0.07 | 0.16 | 0.75 | 2 |
| VCR | 2001 | 426415 | 4145017 | 426413 | 4144981 | 1949 | 2013 | 0.37 | 0.20 | 0.23 | 0.07 | 0.22 | 0.99 | 2 |
| VCR | 2002 | 426463 | 4145005 | 426448 | 4144976 | 1949 | 2013 | -0.38 | 0.22 | 0.12 | 0.07 | 0.15 | 0.76 | 2 |
| VCR | 2003 | 426504 | 4144976 | 426469 | 4144955 | 1949 | 2013 | -0.89 | 0.38 | 0.16 | 0.07 | 0.23 | 0.62 | 2 |
| VCR | 2004 | 426530 | 4144935 | 426488 | 4144932 | 1949 | 2013 | -0.91 | 0.42 | 0.19 | 0.07 | 0.27 | 0.66 | 2 |
| VCR | 2005 | 426516 | 4144889 | 426474 | 4144895 | 1949 | 2013 | -0.40 | 0.34 | 0.21 | 0.07 | 0.25 | 0.85 | 2 |
| VCR | 2006 | 426480 | 4144855 | 426450 | 4144860 | 1949 | 2013 | -0.02 | 0.11 | 0.09 | 0.07 | 0.10 | 0.96 | 2 |
| VCR | 2007 | 426455 | 4144812 | 426430 | 4144815 | 1949 | 2013 | -0.40 | 0.10 | 0.01 | 0.07 | 0.04 | 0.25 | 2 |
| VCR | 2008 | 426459 | 4144765 | 426431 | 4144765 | 1949 | 2013 | -0.43 | 0.00 | -0.08 | 0.07 | -0.05 | 0.43 | 2 |
| VCR | 2009 | 426480 | 4144721 | 426445 | 4144724 | 1949 | 2013 | -0.54 | -0.10 | -0.18 | 0.07 | -0.15 | 0.86 | 2 |
| VCR | 2010 | 426494 | 4144674 | 426460 | 4144686 | 1949 | 2013 | -0.41 | -0.13 | -0.17 | 0.07 | -0.16 | 0.94 | 2 |
| VCR | 2011 | 426476 | 4144629 | 426448 | 4144653 | 1949 | 2013 | -0.48 | 0.25 | 0.13 | 0.07 | 0.17 | 0.72 | 2 |
| VCR | 2012 | 426434 | 4144608 | 426412 | 4144647 | 1949 | 2013 | 0.28 | 0.37 | 0.36 | 0.07 | 0.36 | 1.00 | 2 |
| VCR | 2013 | 426384 | 4144607 | 426374 | 4144643 | 1949 | 2013 | 0.12 | 0.29 | 0.26 | 0.07 | 0.27 | 0.99 | 2 |
| VCR | 2014 | 426334 | 4144600 | 426327 | 4144628 | 1949 | 2013 | -0.03 | 0.18 | 0.15 | 0.07 | 0.16 | 0.97 | 2 |
| VCR | 2015 | 426287 | 4144585 | 426280 | 4144607 | 1949 | 2013 | -0.19 | -0.01 | -0.04 | 0.07 | -0.03 | 0.58 | 2 |
| VCR | 2016 | 426240 | 4144569 | 426236 | 4144593 | 1949 | 2013 | -0.18 | -0.05 | -0.07 | 0.07 | -0.06 | 0.93 | 2 |
| VCR | 2017 | 426192 | 4144557 | 426184 | 4144578 | 1949 | 2013 | NA | -0.04 | NA | 0.08 | -0.04 | 0.00 | 2 |
| VCR | 2018 | 426144 | 4144570 | 426195 | 4144590 | 1949 | 2013 | 3.16 | -0.37 | 0.24 | 0.06 | 0.04 | 0.01 | 2 |
| VCR | 2019 | 426147 | 4144619 | 426194 | 4144644 | 1949 | 2013 | 2.48 | -0.55 | -0.03 | 0.06 | -0.20 | 0.17 | 2 |
| VCR | 2020 | 426144 | 4144668 | 426177 | 4144701 | 1949 | 2013 | 2.25 | -0.48 | -0.01 | 0.06 | -0.16 | 0.14 | 2 |
| VCR | 2021 | 426115 | 4144704 | 426132 | 4144733 | 1949 | 2013 | -0.08 | -0.03 | -0.04 | 0.06 | -0.04 | 0.97 | 2 |
| VCR | 2022 | 426069 | 4144709 | 426077 | 4144736 | 1949 | 2013 | 0.09 | -0.12 | -0.08 | 0.06 | -0.09 | 0.91 | 2 |
| VCR | 2023 | 426021 | 4144703 | 426021 | 4144738 | 1949 | 2013 | 1.08 | -0.27 | -0.04 | 0.06 | -0.11 | 0.25 | 2 |
| VCR | 2024 | 425976 | 4144723 | 425974 | 4144749 | 1949 | 2013 | 0.51 | -0.04 | 0.06 | 0.06 | 0.03 | 0.11 | 2 |
| VCR | 2025 | 425927 | 4144717 | 425920 | 4144742 | 1949 | 2013 | 0.56 | -0.03 | 0.07 | 0.06 | 0.04 | 0.21 | 2 |
| VCR | 2026 | 425880 | 4144701 | 425857 | 4144719 | 1949 | 2013 | 0.06 | -0.12 | -0.09 | 0.06 | -0.10 | 0.94 | 2 |
| VCR | 2027 | 425870 | 4144657 | 425832 | 4144638 | 1949 | 2013 | -2.04 | 0.02 | -0.33 | 0.06 | -0.22 | 0.36 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2028 | 425902 | 4144620 | 425882 | 4144597 | 1949 | 2013 | -0.88 | 0.09 | -0.08 | 0.06 | -0.02 | 0.03 | 2 |
| VCR | 2029 | 425951 | 4144618 | 425918 | 4144583 | 1949 | 2013 | 1.19 | 0.18 | 0.35 | 0.06 | 0.30 | 0.81 | 2 |
| VCR | 2030 | 425997 | 4144603 | 425949 | 4144580 | 1949 | 2013 | 1.45 | 0.29 | 0.49 | 0.06 | 0.42 | 0.87 | 2 |
| VCR | 2031 | 425991 | 4144557 | 425950 | 4144564 | 1949 | 2013 | -0.83 | -0.10 | -0.22 | 0.06 | -0.18 | 0.75 | 2 |
| VCR | 2032 | 425949 | 4144531 | 425925 | 4144547 | 1949 | 2013 | -0.35 | -0.03 | -0.08 | 0.06 | -0.06 | 0.65 | 2 |
| VCR | 2033 | 425906 | 4144506 | 425891 | 4144527 | 1949 | 2013 | 0.59 | -0.06 | 0.05 | 0.06 | 0.02 | 0.04 | 2 |
| VCR | 2034 | 425868 | 4144475 | 425858 | 4144503 | 1949 | 2013 | 0.81 | -0.15 | 0.01 | 0.06 | -0.04 | 0.07 | 2 |
| VCR | 2035 | 425826 | 4144448 | 425828 | 4144484 | 1949 | 2013 | 1.36 | -0.03 | 0.21 | 0.06 | 0.13 | 0.30 | 2 |
| VCR | 2036 | 425780 | 4144448 | 425806 | 4144485 | 1949 | 2013 | 2.02 | -0.05 | 0.30 | 0.06 | 0.19 | 0.29 | 2 |
| VCR | 2037 | 425758 | 4144493 | 425798 | 4144519 | 1949 | 2013 | 1.80 | -0.46 | -0.07 | 0.06 | -0.20 | 0.27 | 2 |
| VCR | 2038 | 425759 | 4144542 | 425798 | 4144566 | 1949 | 2013 | 1.26 | -0.42 | -0.13 | 0.06 | -0.22 | 0.46 | 2 |
| VCR | 2039 | 425749 | 4144590 | 425781 | 4144618 | 1949 | 2013 | 1.23 | -0.42 | -0.14 | 0.06 | -0.23 | 0.49 | 2 |
| VCR | 2040 | 425713 | 4144625 | 425730 | 4144659 | 1949 | 2013 | 0.99 | -0.33 | -0.11 | 0.06 | -0.18 | 0.47 | 2 |
| VCR | 2041 | 425666 | 4144630 | 425667 | 4144660 | 1949 | 2013 | 0.89 | -0.19 | -0.01 | 0.06 | -0.06 | 0.15 | 2 |
| VCR | 2042 | 425617 | 4144623 | 425603 | 4144650 | 1949 | 2013 | 0.79 | -0.17 | -0.01 | 0.06 | -0.06 | 0.15 | 2 |
| VCR | 2043 | 425571 | 4144606 | 425547 | 4144621 | 1949 | 2013 | 0.35 | -0.06 | 0.01 | 0.06 | -0.01 | 0.06 | 2 |
| VCR | 2044 | 425557 | 4144566 | 425529 | 4144567 | 1949 | 2013 | -0.63 | 0.10 | -0.02 | 0.06 | 0.02 | 0.03 | 2 |
| VCR | 2045 | 425582 | 4144524 | 425550 | 4144509 | 1949 | 2013 | -1.32 | 0.21 | -0.05 | 0.06 | 0.03 | 0.02 | 2 |
| VCR | 2046 | 425619 | 4144491 | 425596 | 4144471 | 1949 | 2013 | -0.82 | -0.03 | -0.16 | 0.06 | -0.12 | 0.53 | 2 |
| VCR | 2047 | 425655 | 4144457 | 425631 | 4144437 | 1949 | 2013 | -0.86 | -0.01 | -0.16 | 0.06 | -0.11 | 0.47 | 2 |
| VCR | 2048 | 425693 | 4144426 | 425664 | 4144412 | 1949 | 2013 | -1.00 | 0.04 | -0.14 | 0.06 | -0.08 | 0.22 | 2 |
| VCR | 2049 | 425726 | 4144391 | 425692 | 4144391 | 1949 | 2013 | -1.00 | 0.13 | -0.06 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 2050 | 425705 | 4144352 | 425685 | 4144380 | 1949 | 2013 | 1.07 | -0.18 | 0.04 | 0.06 | -0.03 | 0.03 | 2 |
| VCR | 2051 | 425656 | 4144353 | 425644 | 4144392 | 1949 | 2013 | 1.47 | -0.31 | -0.01 | 0.06 | -0.11 | 0.15 | 2 |
| VCR | 2052 | 425609 | 4144369 | 425602 | 4144402 | 1949 | 2013 | 1.02 | -0.19 | 0.01 | 0.06 | -0.05 | 0.08 | 2 |
| VCR | 2053 | 425561 | 4144372 | 425555 | 4144397 | 1949 | 2013 | 0.45 | -0.02 | 0.06 | 0.06 | 0.03 | 0.20 | 2 |
| VCR | 2054 | 425528 | 4144336 | 425517 | 4144366 | 1949 | 2013 | 0.70 | -0.09 | 0.05 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 2055 | 425487 | 4144308 | 425478 | 4144328 | 1949 | 2013 | 0.19 | -0.04 | 0.00 | 0.06 | -0.01 | 0.10 | 2 |
| VCR | 2056 | 425442 | 4144294 | 425428 | 4144316 | 1949 | 2013 | 0.42 | -0.05 | 0.03 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 2057 | 425397 | 4144275 | 425380 | 4144296 | 1949 | 2013 | -0.21 | -0.07 | -0.10 | 0.06 | -0.09 | 0.95 | 2 |
| VCR | 2058 | 425352 | 4144253 | 425330 | 4144270 | 1949 | 2013 | 0.23 | -0.13 | -0.07 | 0.06 | -0.09 | 0.74 | 2 |
| VCR | 2059 | 425328 | 4144211 | 425309 | 4144222 | 1949 | 2013 | -0.05 | 0.02 | 0.01 | 0.06 | 0.01 | 0.49 | 2 |
| VCR | 2060 | 425329 | 4144162 | 425295 | 4144177 | 1949 | 2013 | -1.38 | 0.19 | -0.08 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 2061 | 425300 | 4144072 | 425271 | 4144087 | 1949 | 2013 | -0.43 | -0.04 | -0.10 | 0.06 | -0.08 | 0.69 | 2 |
| VCR | 2062 | 425260 | 4144047 | 425242 | 4144069 | 1949 | 2013 | 0.13 | 0.12 | 0.12 | 0.06 | 0.12 | 1.00 | 2 |
| VCR | 2063 | 425237 | 4144003 | 425223 | 4144043 | 1949 | 2013 | -0.47 | 0.34 | 0.20 | 0.06 | 0.25 | 0.82 | 2 |
| VCR | 2064 | 425191 | 4143994 | 425184 | 4144037 | 1949 | 2013 | 1.12 | -0.18 | 0.04 | 0.06 | -0.03 | 0.02 | 2 |
| VCR | 2065 | 425153 | 4144025 | 425149 | 4144062 | 1949 | 2013 | 0.86 | -0.20 | -0.02 | 0.06 | -0.08 | 0.21 | 2 |
| VCR | 2066 | 425108 | 4144041 | 425106 | 4144069 | 1949 | 2013 | -0.06 | -0.15 | -0.13 | 0.06 | -0.14 | 0.99 | 2 |
| VCR | 2067 | 425070 | 4144009 | 425056 | 4144040 | 1949 | 2013 | -0.68 | -0.09 | -0.19 | 0.06 | -0.16 | 0.77 | 2 |
| VCR | 2068 | 425037 | 4143973 | 425019 | 4143994 | 1949 | 2013 | -0.57 | 0.00 | -0.09 | 0.06 | -0.06 | 0.38 | 2 |
| VCR | 2069 | 425019 | 4143928 | 424997 | 4143946 | 1949 | 2013 | -0.76 | 0.14 | -0.01 | 0.06 | 0.03 | 0.07 | 2 |
| VCR | 2070 | 424989 | 4143889 | 424967 | 4143908 | 1949 | 2013 | -0.78 | 0.15 | -0.01 | 0.06 | 0.04 | 0.08 | 2 |
| VCR | 2071 | 424998 | 4143893 | 425022 | 4143878 | 1949 | 2013 | 0.34 | -0.15 | -0.06 | 0.06 | -0.09 | 0.62 | 2 |
| VCR | 2072 | 425015 | 4143940 | 425043 | 4143923 | 1949 | 2013 | 1.06 | -0.08 | 0.12 | 0.06 | 0.05 | 0.10 | 2 |
| VCR | 2073 | 425038 | 4143982 | 425067 | 4143961 | 1949 | 2013 | 1.43 | -0.04 | 0.21 | 0.06 | 0.13 | 0.28 | 2 |
| VCR | 2074 | 425064 | 4144024 | 425090 | 4143990 | 1949 | 2013 | 1.20 | 0.13 | 0.31 | 0.06 | 0.25 | 0.74 | 2 |
| VCR | 2075 | 425103 | 4144054 | 425113 | 4144016 | 1949 | 2013 | 0.43 | 0.27 | 0.30 | 0.06 | 0.29 | 0.99 | 2 |
| VCR | 2076 | 425150 | 4144041 | 425157 | 4143990 | 1949 | 2013 | 1.09 | 0.02 | 0.20 | 0.06 | 0.14 | 0.47 | 2 |
| VCR | 2077 | 425181 | 4144004 | 425185 | 4143972 | 1949 | 2013 | -0.25 | -0.02 | -0.06 | 0.06 | -0.05 | 0.70 | 2 |
| VCR | 2078 | 425225 | 4144004 | 425228 | 4143977 | 1949 | 2013 | 0.16 | -0.10 | -0.05 | 0.06 | -0.07 | 0.78 | 2 |
| VCR | 2079 | 425252 | 4144046 | 425268 | 4144016 | 1949 | 2013 | 0.18 | -0.21 | -0.14 | 0.06 | -0.16 | 0.89 | 2 |
| VCR | 2080 | 425292 | 4144072 | 425312 | 4144056 | 1949 | 2013 | 0.02 | 0.07 | 0.06 | 0.06 | 0.06 | 0.99 | 2 |
| VCR | 2081 | 425322 | 4144112 | 425349 | 4144098 | 1949 | 2013 | 0.88 | -0.07 | 0.10 | 0.06 | 0.04 | 0.10 | 2 |
| VCR | 2082 | 425326 | 4144161 | 425359 | 4144143 | 1949 | 2013 | 0.89 | -0.31 | -0.10 | 0.06 | -0.17 | 0.49 | 2 |
| VCR | 2083 | 425338 | 4144209 | 425362 | 4144195 | 1949 | 2013 | 0.40 | -0.10 | -0.01 | 0.06 | -0.04 | 0.24 | 2 |
| VCR | 2084 | 425364 | 4144251 | 425386 | 4144231 | 1949 | 2013 | -0.34 | 0.16 | 0.08 | 0.06 | 0.10 | 0.67 | 2 |
| VCR | 2085 | 425407 | 4144275 | 425426 | 4144250 | 1949 | 2013 | -0.75 | 0.19 | 0.03 | 0.06 | 0.08 | 0.28 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2086 | 425454 | 4144291 | 425466 | 4144269 | 1949 | 2013 | -0.06 | -0.07 | -0.07 | 0.06 | -0.07 | 1.00 | 2 |
| VCR | 2087 | 425499 | 4144310 | 425510 | 4144290 | 1949 | 2013 | -0.16 | -0.03 | -0.05 | 0.06 | -0.05 | 0.88 | 2 |
| VCR | 2088 | 425536 | 4144344 | 425544 | 4144317 | 1949 | 2013 | 0.11 | -0.11 | -0.07 | 0.06 | -0.08 | 0.88 | 2 |
| VCR | 2089 | 425574 | 4144376 | 425577 | 4144351 | 1949 | 2013 | -0.05 | -0.05 | -0.05 | 0.06 | -0.05 | 1.00 | 2 |
| VCR | 2090 | 425621 | 4144371 | 425625 | 4144327 | 1949 | 2013 | -1.26 | 0.23 | -0.02 | 0.06 | 0.06 | 0.07 | 2 |
| VCR | 2091 | 425656 | 4144337 | 425661 | 4144311 | 1949 | 2013 | -0.40 | 0.03 | -0.04 | 0.06 | -0.02 | 0.08 | 2 |
| VCR | 2092 | 425704 | 4144339 | 425715 | 4144315 | 1949 | 2013 | 0.55 | -0.09 | 0.02 | 0.06 | -0.02 | 0.03 | 2 |
| VCR | 2093 | 425728 | 4144381 | 425762 | 4144386 | 1949 | 2013 | 0.82 | -0.24 | -0.06 | 0.06 | -0.12 | 0.38 | 2 |
| VCR | 2094 | 425698 | 4144417 | 425731 | 4144438 | 1949 | 2013 | 1.39 | -0.33 | -0.03 | 0.06 | -0.13 | 0.21 | 2 |
| VCR | 2095 | 425662 | 4144452 | 425688 | 4144477 | 1949 | 2013 | 1.35 | 0.00 | 0.23 | 0.06 | 0.16 | 0.40 | 2 |
| VCR | 2096 | 425623 | 4144482 | 425644 | 4144506 | 1949 | 2013 | 0.85 | 0.03 | 0.17 | 0.06 | 0.13 | 0.54 | 2 |
| VCR | 2097 | 425588 | 4144517 | 425618 | 4144536 | 1949 | 2013 | 1.38 | -0.07 | 0.18 | 0.06 | 0.10 | 0.18 | 2 |
| VCR | 2098 | 425557 | 4144556 | 425598 | 4144558 | 1949 | 2013 | 1.49 | -0.15 | 0.13 | 0.06 | 0.04 | 0.04 | 2 |
| VCR | 2099 | 425562 | 4144600 | 425587 | 4144587 | 1949 | 2013 | -0.27 | 0.09 | 0.03 | 0.06 | 0.05 | 0.46 | 2 |
| VCR | 2100 | 425606 | 4144621 | 425620 | 4144597 | 1949 | 2013 | 0.41 | 0.03 | 0.09 | 0.06 | 0.07 | 0.65 | 2 |
| VCR | 2101 | 425655 | 4144631 | 425655 | 4144605 | 1949 | 2013 | 0.52 | -0.03 | 0.06 | 0.06 | 0.03 | 0.14 | 2 |
| VCR | 2102 | 425704 | 4144627 | 425694 | 4144607 | 1949 | 2013 | 0.20 | -0.01 | 0.03 | 0.06 | 0.02 | 0.24 | 2 |
| VCR | 2103 | 425750 | 4144611 | 425723 | 4144586 | 1949 | 2013 | 0.64 | 0.18 | 0.26 | 0.06 | 0.23 | 0.92 | 2 |
| VCR | 2104 | 425754 | 4144564 | 425722 | 4144547 | 1949 | 2013 | 0.42 | -0.15 | -0.05 | 0.06 | -0.08 | 0.52 | 2 |
| VCR | 2105 | 425756 | 4144515 | 425725 | 4144497 | 1949 | 2013 | -1.12 | -0.04 | -0.22 | 0.06 | -0.16 | 0.53 | 2 |
| VCR | 2106 | 425769 | 4144467 | 425737 | 4144433 | 1949 | 2013 | -1.39 | 0.00 | -0.23 | 0.06 | -0.16 | 0.39 | 2 |
| VCR | 2107 | 425808 | 4144436 | 425801 | 4144404 | 1949 | 2013 | -0.62 | -0.10 | -0.19 | 0.06 | -0.16 | 0.83 | 2 |
| VCR | 2108 | 425847 | 4144456 | 425853 | 4144422 | 1949 | 2013 | 0.63 | -0.17 | -0.04 | 0.06 | -0.08 | 0.33 | 2 |
| VCR | 2109 | 425887 | 4144485 | 425898 | 4144461 | 1949 | 2013 | 0.03 | -0.11 | -0.09 | 0.06 | -0.10 | 0.96 | 2 |
| VCR | 2110 | 425930 | 4144510 | 425947 | 4144488 | 1949 | 2013 | 0.21 | -0.12 | -0.07 | 0.06 | -0.08 | 0.76 | 2 |
| VCR | 2111 | 425974 | 4144532 | 426000 | 4144508 | 1949 | 2013 | 1.19 | -0.27 | -0.02 | 0.06 | -0.10 | 0.18 | 2 |
| VCR | 2112 | 426010 | 4144562 | 426048 | 4144549 | 1949 | 2013 | 1.83 | -0.20 | 0.14 | 0.06 | 0.03 | 0.01 | 2 |
| VCR | 2113 | 425993 | 4144607 | 426027 | 4144624 | 1949 | 2013 | 1.40 | -0.33 | -0.04 | 0.06 | -0.13 | 0.22 | 2 |
| VCR | 2114 | 425944 | 4144617 | 425985 | 4144652 | 1949 | 2013 | 0.67 | -0.56 | -0.35 | 0.06 | -0.42 | 0.85 | 2 |
| VCR | 2115 | 425896 | 4144629 | 425935 | 4144660 | 1949 | 2013 | 1.08 | -0.45 | -0.19 | 0.06 | -0.27 | 0.61 | 2 |
| VCR | 2116 | 425861 | 4144661 | 425900 | 4144671 | 1949 | 2013 | 0.96 | 0.13 | 0.27 | 0.06 | 0.23 | 0.78 | 2 |
| VCR | 2117 | 425884 | 4144695 | 425904 | 4144678 | 1949 | 2013 | 0.11 | 0.01 | 0.03 | 0.06 | 0.02 | 0.68 | 2 |
| VCR | 2118 | 425930 | 4144712 | 425940 | 4144690 | 1949 | 2013 | -0.29 | -0.01 | -0.06 | 0.06 | -0.04 | 0.55 | 2 |
| VCR | 2119 | 425979 | 4144717 | 425982 | 4144687 | 1949 | 2013 | -0.78 | 0.16 | 0.00 | 0.06 | 0.05 | 0.11 | 2 |
| VCR | 2120 | 426027 | 4144704 | 426025 | 4144674 | 1949 | 2013 | -0.75 | 0.18 | 0.02 | 0.06 | 0.07 | 0.24 | 2 |
| VCR | 2121 | 426077 | 4144699 | 426065 | 4144668 | 1949 | 2013 | -0.66 | 0.22 | 0.07 | 0.06 | 0.12 | 0.46 | 2 |
| VCR | 2122 | 426127 | 4144699 | 426101 | 4144662 | 1949 | 2013 | -1.62 | 0.40 | 0.05 | 0.06 | 0.16 | 0.24 | 2 |
| VCR | 2123 | 426158 | 4144667 | 426111 | 4144633 | 1949 | 2013 | -1.34 | 0.36 | 0.07 | 0.06 | 0.16 | 0.30 | 2 |
| VCR | 2124 | 426152 | 4144618 | 426111 | 4144601 | 1949 | 2013 | -2.01 | 0.35 | -0.05 | 0.06 | 0.08 | 0.05 | 2 |
| VCR | 2125 | 426157 | 4144568 | 426113 | 4144556 | 1949 | 2013 | -2.36 | 0.23 | -0.21 | 0.06 | -0.07 | 0.03 | 2 |
| VCR | 2126 | 425896 | 4143466 | 425905 | 4143501 | 1949 | 2013 | -0.24 | 0.04 | -0.01 | 0.06 | 0.01 | 0.03 | 2 |
| VCR | 2127 | 425860 | 4143496 | 425844 | 4143536 | 1949 | 2013 | -0.61 | -0.18 | -0.26 | 0.06 | -0.23 | 0.94 | 2 |
| VCR | 2128 | 425827 | 4143477 | 425808 | 4143509 | 1949 | 2013 | -1.17 | 0.04 | -0.16 | 0.06 | -0.10 | 0.24 | 2 |
| VCR | 2129 | 425835 | 4143431 | 425786 | 4143477 | 1949 | 2013 | -0.78 | -0.66 | -0.68 | 0.06 | -0.67 | 1.00 | 2 |
| VCR | 2130 | 425858 | 4143388 | 425764 | 4143449 | 1949 | 2013 | -0.44 | -1.39 | -1.23 | 0.06 | -1.28 | 0.99 | 2 |
| VCR | 2131 | 425842 | 4143350 | 425762 | 4143420 | 1949 | 2013 | -1.63 | -0.64 | -0.81 | 0.06 | -0.76 | 0.97 | 2 |
| VCR | 2132 | 425798 | 4143371 | 425745 | 4143413 | 1949 | 2013 | -0.59 | -0.24 | -0.30 | 0.06 | -0.28 | 0.97 | 2 |
| VCR | 2133 | 425752 | 4143382 | 425728 | 4143404 | 1949 | 2013 | -0.68 | -0.07 | -0.17 | 0.06 | -0.14 | 0.72 | 2 |
| VCR | 2134 | 425715 | 4143350 | 425697 | 4143378 | 1949 | 2013 | -0.53 | 0.16 | 0.04 | 0.06 | 0.08 | 0.39 | 2 |
| VCR | 2135 | 425730 | 4143387 | 425749 | 4143367 | 1949 | 2013 | 0.68 | -0.01 | 0.11 | 0.06 | 0.07 | 0.34 | 2 |
| VCR | 2136 | 425772 | 4143411 | 425752 | 4143368 | 1949 | 2013 | -0.18 | 0.33 | 0.24 | 0.06 | 0.27 | 0.93 | 2 |
| VCR | 2137 | 425792 | 4143456 | 425851 | 4143457 | 1949 | 2013 | 0.39 | 0.57 | 0.54 | 0.06 | 0.55 | 1.00 | 2 |
| VCR | 2138 | 425821 | 4143496 | 425850 | 4143479 | 1949 | 2013 | 0.19 | 0.18 | 0.18 | 0.06 | 0.18 | 1.00 | 2 |
| VCR | 2139 | 425859 | 4143518 | 425850 | 4143479 | 1949 | 2013 | 0.16 | 0.32 | 0.29 | 0.06 | 0.30 | 0.99 | 2 |
| VCR | 2140 | 425890 | 4143481 | 425871 | 4143464 | 1949 | 2013 | -0.38 | -0.02 | -0.08 | 0.06 | -0.06 | 0.56 | 2 |
| VCR | 2141 | 425929 | 4143387 | 425895 | 4143406 | 1949 | 2013 | -1.22 | -0.10 | -0.29 | 0.06 | -0.23 | 0.67 | 2 |
| VCR | 2142 | 425909 | 4143343 | 425876 | 4143344 | 1949 | 2013 | -0.97 | -0.05 | -0.21 | 0.06 | -0.16 | 0.59 | 2 |
| VCR | 2143 | 425916 | 4143293 | 425888 | 4143277 | 1949 | 2013 | -0.85 | -0.07 | -0.20 | 0.06 | -0.16 | 0.68 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2144 | 425951 | 4143258 | 425926 | 4143237 | 1949 | 2013 | -0.80 | -0.05 | -0.18 | 0.06 | -0.14 | 0.62 | 2 |
| VCR | 2145 | 425996 | 4143243 | 425971 | 4143223 | 1949 | 2013 | 0.17 | -0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 2146 | 426044 | 4143236 | 426008 | 4143219 | 1949 | 2013 | -0.60 | -0.01 | -0.11 | 0.06 | -0.08 | 0.48 | 2 |
| VCR | 2147 | 426034 | 4143192 | 425983 | 4143190 | 1949 | 2013 | -0.98 | 0.36 | 0.13 | 0.06 | 0.20 | 0.53 | 2 |
| VCR | 2148 | 425999 | 4143156 | 425966 | 4143162 | 1949 | 2013 | -1.17 | 0.22 | -0.02 | 0.06 | 0.06 | 0.08 | 2 |
| VCR | 2149 | 425975 | 4143113 | 425947 | 4143124 | 1949 | 2013 | -0.73 | 0.18 | 0.03 | 0.06 | 0.08 | 0.25 | 2 |
| VCR | 2150 | 425973 | 4143063 | 425942 | 4143083 | 1949 | 2013 | -0.70 | 0.23 | 0.07 | 0.06 | 0.13 | 0.47 | 2 |
| VCR | 2151 | 425967 | 4143015 | 425942 | 4143048 | 1949 | 2013 | -1.33 | 0.21 | -0.06 | 0.06 | 0.03 | 0.02 | 2 |
| VCR | 2152 | 425929 | 4142990 | 425929 | 4143044 | 1949 | 2013 | 0.57 | 0.37 | 0.41 | 0.06 | 0.40 | 1.00 | 2 |
| VCR | 2153 | 425903 | 4143030 | 425916 | 4143060 | 1949 | 2013 | 0.01 | 0.11 | 0.09 | 0.06 | 0.09 | 0.98 | 2 |
| VCR | 2154 | 425881 | 4143075 | 425895 | 4143098 | 1949 | 2013 | 0.09 | -0.09 | -0.06 | 0.06 | -0.07 | 0.87 | 2 |
| VCR | 2155 | 425846 | 4143108 | 425856 | 4143135 | 1949 | 2013 | -0.28 | -0.12 | -0.14 | 0.06 | -0.14 | 0.97 | 2 |
| VCR | 2156 | 425797 | 4143111 | 425797 | 4143143 | 1949 | 2013 | -0.47 | -0.13 | -0.19 | 0.06 | -0.17 | 0.92 | 2 |
| VCR | 2157 | 425754 | 4143087 | 425743 | 4143119 | 1949 | 2013 | -1.25 | 0.03 | -0.19 | 0.06 | -0.12 | 0.30 | 2 |
| VCR | 2158 | 425714 | 4143057 | 425698 | 4143086 | 1949 | 2013 | -1.20 | 0.15 | -0.08 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 2159 | 425674 | 4143027 | 425658 | 4143053 | 1949 | 2013 | -0.84 | 0.21 | 0.03 | 0.06 | 0.08 | 0.24 | 2 |
| VCR | 2160 | 425692 | 4143057 | 425712 | 4143032 | 1949 | 2013 | 1.04 | -0.02 | 0.16 | 0.07 | 0.10 | 0.32 | 2 |
| VCR | 2161 | 425729 | 4143090 | 425747 | 4143057 | 1949 | 2013 | 0.96 | 0.12 | 0.27 | 0.07 | 0.22 | 0.77 | 2 |
| VCR | 2162 | 425768 | 4143121 | 425780 | 4143081 | 1949 | 2013 | 0.46 | 0.30 | 0.33 | 0.07 | 0.32 | 1.00 | 2 |
| VCR | 2163 | 425816 | 4143133 | 425812 | 4143092 | 1949 | 2013 | 0.52 | 0.29 | 0.33 | 0.07 | 0.32 | 0.99 | 2 |
| VCR | 2164 | 425862 | 4143118 | 425843 | 4143086 | 1949 | 2013 | 0.27 | 0.27 | 0.27 | 0.07 | 0.27 | 1.00 | 2 |
| VCR | 2165 | 425891 | 4143078 | 425866 | 4143030 | 1949 | 2013 | 1.20 | 0.31 | 0.46 | 0.07 | 0.41 | 0.91 | 2 |
| VCR | 2166 | 425908 | 4143031 | 425892 | 4142977 | 1949 | 2013 | 1.94 | 0.08 | 0.40 | 0.07 | 0.30 | 0.56 | 2 |
| VCR | 2167 | 425933 | 4142990 | 425953 | 4142961 | 1949 | 2013 | 0.67 | 0.06 | 0.17 | 0.07 | 0.13 | 0.71 | 2 |
| VCR | 2168 | 425963 | 4143023 | 425989 | 4143010 | 1949 | 2013 | 0.77 | -0.06 | 0.08 | 0.07 | 0.04 | 0.09 | 2 |
| VCR | 2169 | 425966 | 4143072 | 425994 | 4143058 | 1949 | 2013 | 0.77 | -0.11 | 0.04 | 0.07 | -0.01 | 0.01 | 2 |
| VCR | 2170 | 425974 | 4143121 | 425995 | 4143112 | 1949 | 2013 | 0.15 | -0.04 | -0.01 | 0.07 | -0.02 | 0.39 | 2 |
| VCR | 2171 | 426006 | 4143159 | 426057 | 4143146 | 1949 | 2013 | 0.37 | 0.48 | 0.46 | 0.07 | 0.46 | 1.00 | 2 |
| VCR | 2172 | 426042 | 4143194 | 426081 | 4143192 | 1949 | 2013 | 0.89 | 0.10 | 0.23 | 0.07 | 0.19 | 0.74 | 2 |
| VCR | 2173 | 426048 | 4143238 | 426072 | 4143249 | 1949 | 2013 | 0.42 | 0.03 | 0.10 | 0.07 | 0.08 | 0.66 | 2 |
| VCR | 2174 | 426002 | 4143252 | 426029 | 4143277 | 1949 | 2013 | -0.19 | 0.20 | 0.13 | 0.07 | 0.15 | 0.89 | 2 |
| VCR | 2175 | 425952 | 4143261 | 425975 | 4143285 | 1949 | 2013 | -0.19 | 0.19 | 0.12 | 0.07 | 0.14 | 0.88 | 2 |
| VCR | 2176 | 425909 | 4143284 | 425941 | 4143307 | 1949 | 2013 | 0.09 | 0.35 | 0.30 | 0.07 | 0.32 | 0.99 | 2 |
| VCR | 2177 | 425895 | 4143330 | 425927 | 4143333 | 1949 | 2013 | 0.29 | 0.16 | 0.18 | 0.07 | 0.18 | 0.99 | 2 |
| VCR | 2178 | 425904 | 4143379 | 425939 | 4143367 | 1949 | 2013 | 0.86 | 0.12 | 0.25 | 0.07 | 0.21 | 0.80 | 2 |
| VCR | 2179 | 425933 | 4143419 | 425964 | 4143389 | 1949 | 2013 | 0.86 | 0.25 | 0.35 | 0.07 | 0.32 | 0.93 | 2 |
| VCR | 2180 | 425116 | 4141699 | 425098 | 4141680 | 1949 | 2013 | 0.30 | 0.06 | 0.10 | 0.06 | 0.09 | 0.86 | 2 |
| VCR | 2181 | 425080 | 4141734 | 425065 | 4141717 | 1949 | 2013 | 0.27 | -0.01 | 0.03 | 0.06 | 0.02 | 0.19 | 2 |
| VCR | 2182 | 425050 | 4141772 | 425030 | 4141752 | 1949 | 2013 | -0.08 | -0.14 | -0.13 | 0.06 | -0.13 | 1.00 | 2 |
| VCR | 2183 | 425017 | 4141809 | 424986 | 4141786 | 1949 | 2013 | 0.05 | -0.27 | -0.21 | 0.06 | -0.23 | 0.96 | 2 |
| VCR | 2184 | 424977 | 4141833 | 424951 | 4141819 | 1949 | 2013 | -0.77 | -0.02 | -0.15 | 0.06 | -0.11 | 0.50 | 2 |
| VCR | 2185 | 424962 | 4141880 | 424935 | 4141876 | 1949 | 2013 | 0.09 | -0.13 | -0.09 | 0.06 | -0.10 | 0.92 | 2 |
| VCR | 2186 | 424974 | 4141928 | 424933 | 4141946 | 1949 | 2013 | -0.56 | -0.33 | -0.37 | 0.06 | -0.36 | 0.99 | 2 |
| VCR | 2187 | 424990 | 4141972 | 424967 | 4142003 | 1949 | 2013 | 1.10 | -0.36 | -0.11 | 0.06 | -0.19 | 0.45 | 2 |
| VCR | 2188 | 425032 | 4141982 | 425007 | 4142015 | 1949 | 2013 | 1.50 | -0.05 | 0.21 | 0.06 | 0.13 | 0.25 | 2 |
| VCR | 2189 | 425081 | 4141977 | 425056 | 4142013 | 1949 | 2013 | 1.30 | 0.09 | 0.30 | 0.06 | 0.24 | 0.65 | 2 |
| VCR | 2190 | 425106 | 4142012 | 425077 | 4142043 | 1949 | 2013 | -0.33 | -0.05 | -0.10 | 0.06 | -0.08 | 0.82 | 2 |
| VCR | 2191 | 425105 | 4142060 | 425084 | 4142083 | 1949 | 2013 | 0.04 | -0.14 | -0.11 | 0.06 | -0.12 | 0.96 | 2 |
| VCR | 2192 | 425133 | 4142100 | 425111 | 4142130 | 1949 | 2013 | 0.34 | -0.32 | -0.21 | 0.06 | -0.25 | 0.87 | 2 |
| VCR | 2193 | 425178 | 4142103 | 425165 | 4142138 | 1949 | 2013 | 0.91 | -0.18 | 0.01 | 0.06 | -0.05 | 0.10 | 2 |
| VCR | 2194 | 425224 | 4142085 | 425206 | 4142134 | 1949 | 2013 | 2.61 | -0.21 | 0.27 | 0.06 | 0.12 | 0.08 | 2 |
| VCR | 2195 | 425270 | 4142090 | 425257 | 4142118 | 1949 | 2013 | 0.26 | 0.11 | 0.13 | 0.06 | 0.12 | 0.97 | 2 |
| VCR | 2196 | 425290 | 4142136 | 425268 | 4142168 | 1949 | 2013 | -1.01 | 0.06 | -0.12 | 0.06 | -0.07 | 0.16 | 2 |
| VCR | 2197 | 425300 | 4142184 | 425279 | 4142201 | 1949 | 2013 | -0.03 | 0.13 | 0.10 | 0.06 | 0.11 | 0.96 | 2 |
| VCR | 2198 | 425342 | 4142203 | 425294 | 4142225 | 1949 | 2013 | 0.23 | 0.28 | 0.27 | 0.06 | 0.27 | 1.00 | 2 |
| VCR | 2199 | 425377 | 4142229 | 425352 | 4142244 | 1949 | 2013 | 0.17 | -0.02 | 0.02 | 0.06 | 0.00 | 0.03 | 2 |
| VCR | 2200 | 425377 | 4142278 | 425351 | 4142305 | 1949 | 2013 | -0.79 | 0.01 | -0.12 | 0.06 | -0.08 | 0.34 | 2 |
| VCR | 2201 | 425388 | 4142323 | 425369 | 4142338 | 1949 | 2013 | 0.26 | 0.03 | 0.07 | 0.06 | 0.06 | 0.74 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2202 | 425413 | 4142341 | 425429 | 4142316 | 1949 | 2013 | -0.54 | -0.07 | -0.15 | 0.06 | -0.12 | 0.78 | 2 |
| VCR | 2203 | 425375 | 4142314 | 425398 | 4142300 | 1949 | 2013 | 0.07 | -0.09 | -0.06 | 0.06 | -0.07 | 0.91 | 2 |
| VCR | 2204 | 425368 | 4142266 | 425407 | 4142237 | 1949 | 2013 | 1.92 | -0.30 | 0.08 | 0.06 | -0.04 | 0.02 | 2 |
| VCR | 2205 | 425377 | 4142222 | 425396 | 4142213 | 1949 | 2013 | 0.07 | -0.02 | -0.01 | 0.06 | -0.01 | 0.53 | 2 |
| VCR | 2206 | 425330 | 4142210 | 425380 | 4142191 | 1949 | 2013 | -0.21 | -0.25 | -0.24 | 0.06 | -0.24 | 1.00 | 2 |
| VCR | 2207 | 425295 | 4142180 | 425320 | 4142156 | 1949 | 2013 | 0.88 | -0.11 | 0.05 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 2208 | 425291 | 4142132 | 425308 | 4142103 | 1949 | 2013 | -0.31 | -0.09 | -0.13 | 0.06 | -0.12 | 0.94 | 2 |
| VCR | 2209 | 425256 | 4142099 | 425274 | 4142067 | 1949 | 2013 | -0.25 | -0.26 | -0.25 | 0.06 | -0.25 | 1.00 | 2 |
| VCR | 2210 | 425207 | 4142097 | 425223 | 4142060 | 1949 | 2013 | -1.15 | -0.09 | -0.27 | 0.06 | -0.22 | 0.67 | 2 |
| VCR | 2211 | 425159 | 4142106 | 425176 | 4142072 | 1949 | 2013 | -0.48 | -0.12 | -0.18 | 0.06 | -0.16 | 0.90 | 2 |
| VCR | 2212 | 425117 | 4142088 | 425137 | 4142066 | 1949 | 2013 | -0.06 | 0.12 | 0.09 | 0.06 | 0.10 | 0.93 | 2 |
| VCR | 2213 | 425106 | 4142040 | 425139 | 4142011 | 1949 | 2013 | 0.09 | -0.06 | -0.03 | 0.06 | -0.04 | 0.79 | 2 |
| VCR | 2214 | 425110 | 4141994 | 425132 | 4141974 | 1949 | 2013 | 0.36 | -0.05 | 0.02 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 2215 | 425077 | 4141970 | 425098 | 4141950 | 1949 | 2013 | 0.14 | -0.10 | -0.06 | 0.06 | -0.07 | 0.81 | 2 |
| VCR | 2216 | 425028 | 4141980 | 425063 | 4141943 | 1949 | 2013 | -0.15 | -0.32 | -0.29 | 0.06 | -0.30 | 0.99 | 2 |
| VCR | 2217 | 424979 | 4141974 | 425003 | 4141950 | 1949 | 2013 | 0.28 | 0.14 | 0.16 | 0.06 | 0.15 | 0.98 | 2 |
| VCR | 2218 | 424958 | 4141934 | 424996 | 4141920 | 1949 | 2013 | 0.28 | 0.31 | 0.31 | 0.06 | 0.31 | 1.00 | 2 |
| VCR | 2219 | 424961 | 4141884 | 424991 | 4141889 | 1949 | 2013 | 0.08 | 0.17 | 0.15 | 0.06 | 0.15 | 0.99 | 2 |
| VCR | 2220 | 424969 | 4141835 | 425001 | 4141847 | 1949 | 2013 | 0.10 | 0.22 | 0.20 | 0.06 | 0.21 | 0.99 | 2 |
| VCR | 2221 | 425007 | 4141803 | 425037 | 4141829 | 1949 | 2013 | 0.08 | 0.30 | 0.26 | 0.06 | 0.27 | 0.99 | 2 |
| VCR | 2222 | 425050 | 4141778 | 425075 | 4141809 | 1949 | 2013 | -0.20 | 0.34 | 0.25 | 0.06 | 0.28 | 0.93 | 2 |
| VCR | 2223 | 425082 | 4141740 | 425096 | 4141769 | 1949 | 2013 | -0.60 | 0.04 | -0.07 | 0.06 | -0.03 | 0.11 | 2 |
| VCR | 2224 | 425118 | 4141707 | 425135 | 4141739 | 1949 | 2013 | -0.40 | -0.04 | -0.10 | 0.06 | -0.08 | 0.72 | 2 |
| VCR | 2225 | 425872 | 4140808 | 425833 | 4140809 | 1949 | 2013 | -1.13 | 0.32 | 0.07 | 0.06 | 0.15 | 0.35 | 2 |
| VCR | 2226 | 425866 | 4140854 | 425833 | 4140839 | 1949 | 2013 | -1.42 | 0.28 | -0.01 | 0.06 | 0.08 | 0.10 | 2 |
| VCR | 2227 | 425828 | 4140885 | 425802 | 4140855 | 1949 | 2013 | -1.30 | -0.06 | -0.27 | 0.06 | -0.21 | 0.58 | 2 |
| VCR | 2228 | 425780 | 4140897 | 425756 | 4140870 | 1949 | 2013 | -0.73 | -0.11 | -0.22 | 0.06 | -0.18 | 0.81 | 2 |
| VCR | 2229 | 425735 | 4140919 | 425704 | 4140890 | 1949 | 2013 | -1.32 | -0.11 | -0.32 | 0.06 | -0.25 | 0.68 | 2 |
| VCR | 2230 | 425702 | 4140991 | 425674 | 4140986 | 1949 | 2013 | 0.28 | 0.05 | 0.09 | 0.06 | 0.08 | 0.84 | 2 |
| VCR | 2231 | 425740 | 4141023 | 425709 | 4141028 | 1949 | 2013 | 0.12 | -0.01 | 0.01 | 0.06 | 0.00 | 0.02 | 2 |
| VCR | 2232 | 425750 | 4141068 | 425704 | 4141088 | 1949 | 2013 | -1.04 | -0.28 | -0.41 | 0.06 | -0.37 | 0.92 | 2 |
| VCR | 2233 | 425737 | 4141116 | 425715 | 4141135 | 1949 | 2013 | 0.08 | -0.18 | -0.13 | 0.06 | -0.15 | 0.94 | 2 |
| VCR | 2234 | 425778 | 4141140 | 425766 | 4141171 | 1949 | 2013 | 1.11 | -0.10 | 0.11 | 0.06 | 0.04 | 0.06 | 2 |
| VCR | 2235 | 425796 | 4141094 | 425833 | 4141102 | 1949 | 2013 | 0.57 | 0.22 | 0.28 | 0.06 | 0.26 | 0.97 | 2 |
| VCR | 2236 | 425828 | 4141058 | 425834 | 4141097 | 1949 | 2013 | 0.85 | 0.20 | 0.31 | 0.06 | 0.27 | 0.89 | 2 |
| VCR | 2237 | 425876 | 4141066 | 425862 | 4141104 | 1949 | 2013 | 1.29 | 0.12 | 0.32 | 0.06 | 0.25 | 0.70 | 2 |
| VCR | 2238 | 425910 | 4141096 | 425878 | 4141112 | 1949 | 2013 | -0.16 | 0.17 | 0.11 | 0.06 | 0.13 | 0.89 | 2 |
| VCR | 2239 | 425902 | 4141143 | 425843 | 4141156 | 1949 | 2013 | -2.07 | -0.15 | -0.48 | 0.06 | -0.37 | 0.65 | 2 |
| VCR | 2240 | 425871 | 4141181 | 425829 | 4141191 | 1949 | 2013 | -0.83 | -0.16 | -0.27 | 0.06 | -0.24 | 0.86 | 2 |
| VCR | 2241 | 425855 | 4141227 | 425831 | 4141241 | 1949 | 2013 | -0.07 | -0.11 | -0.10 | 0.06 | -0.11 | 1.00 | 2 |
| VCR | 2242 | 425894 | 4141251 | 425868 | 4141286 | 1949 | 2013 | 1.91 | -0.13 | 0.22 | 0.06 | 0.11 | 0.13 | 2 |
| VCR | 2243 | 425942 | 4141242 | 425916 | 4141289 | 1949 | 2013 | 1.87 | 0.17 | 0.46 | 0.06 | 0.37 | 0.70 | 2 |
| VCR | 2244 | 425990 | 4141255 | 425961 | 4141293 | 1949 | 2013 | 1.45 | 0.21 | 0.42 | 0.06 | 0.36 | 0.80 | 2 |
| VCR | 2245 | 426019 | 4141294 | 425985 | 4141309 | 1949 | 2013 | 0.88 | 0.11 | 0.25 | 0.06 | 0.20 | 0.78 | 2 |
| VCR | 2246 | 426009 | 4141343 | 425959 | 4141344 | 1949 | 2013 | -1.75 | -0.09 | -0.37 | 0.06 | -0.28 | 0.59 | 2 |
| VCR | 2247 | 425974 | 4141378 | 425943 | 4141371 | 1949 | 2013 | -0.78 | -0.02 | -0.15 | 0.06 | -0.11 | 0.52 | 2 |
| VCR | 2248 | 425955 | 4141422 | 425933 | 4141422 | 1949 | 2013 | -0.08 | 0.02 | 0.01 | 0.06 | 0.01 | 0.37 | 2 |
| VCR | 2249 | 425993 | 4141441 | 425963 | 4141479 | 1949 | 2013 | 0.79 | 0.25 | 0.34 | 0.06 | 0.31 | 0.94 | 2 |
| VCR | 2250 | 426016 | 4141398 | 426025 | 4141438 | 1949 | 2013 | 1.11 | 0.09 | 0.26 | 0.06 | 0.21 | 0.66 | 2 |
| VCR | 2251 | 426062 | 4141393 | 426038 | 4141441 | 1949 | 2013 | 2.06 | 0.21 | 0.52 | 0.06 | 0.42 | 0.72 | 2 |
| VCR | 2252 | 426081 | 4141438 | 426052 | 4141456 | 1949 | 2013 | 0.67 | 0.11 | 0.20 | 0.06 | 0.17 | 0.82 | 2 |
| VCR | 2253 | 426062 | 4141474 | 426104 | 4141470 | 1949 | 2013 | -0.83 | -0.21 | -0.35 | 0.06 | -0.31 | 0.89 | 2 |
| VCR | 2254 | 426049 | 4141431 | 426095 | 4141400 | 1949 | 2013 | -1.52 | -0.22 | -0.50 | 0.06 | -0.43 | 0.77 | 2 |
| VCR | 2255 | 426005 | 4141438 | 425981 | 4141415 | 1949 | 2013 | -0.22 | -0.21 | -0.21 | 0.06 | -0.21 | 1.00 | 2 |
| VCR | 2256 | 425968 | 4141460 | 425978 | 4141419 | 1949 | 2013 | -1.02 | -0.13 | -0.32 | 0.06 | -0.27 | 0.74 | 2 |
| VCR | 2257 | 425953 | 4141415 | 425980 | 4141405 | 1949 | 2013 | -0.31 | 0.12 | 0.02 | 0.06 | 0.05 | 0.27 | 2 |
| VCR | 2258 | 425969 | 4141368 | 426034 | 4141358 | 1949 | 2013 | 1.32 | 0.29 | 0.52 | 0.06 | 0.46 | 0.86 | 2 |
| VCR | 2259 | 426006 | 4141335 | 426044 | 4141329 | 1949 | 2013 | -0.31 | 0.17 | 0.06 | 0.06 | 0.09 | 0.52 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2260 | 425999 | 4141294 | 426035 | 4141271 | 1949 | 2013 | -0.51 | -0.27 | -0.33 | 0.06 | -0.31 | 0.98 | 2 |
| VCR | 2261 | 425956 | 4141269 | 425984 | 4141230 | 1949 | 2013 | -0.59 | -0.34 | -0.39 | 0.06 | -0.38 | 0.99 | 2 |
| VCR | 2262 | 425907 | 4141265 | 425941 | 4141221 | 1949 | 2013 | -0.80 | -0.36 | -0.45 | 0.06 | -0.43 | 0.97 | 2 |
| VCR | 2263 | 425862 | 4141250 | 425898 | 4141222 | 1949 | 2013 | -0.59 | -0.16 | -0.25 | 0.06 | -0.23 | 0.90 | 2 |
| VCR | 2264 | 425849 | 4141205 | 425894 | 4141196 | 1949 | 2013 | 0.86 | 0.15 | 0.30 | 0.06 | 0.26 | 0.81 | 2 |
| VCR | 2265 | 425866 | 4141158 | 425927 | 4141150 | 1949 | 2013 | 1.07 | 0.31 | 0.48 | 0.06 | 0.43 | 0.91 | 2 |
| VCR | 2266 | 425903 | 4141125 | 425934 | 4141119 | 1949 | 2013 | 0.54 | -0.06 | 0.08 | 0.06 | 0.04 | 0.13 | 2 |
| VCR | 2267 | 425884 | 4141088 | 425904 | 4141056 | 1949 | 2013 | -0.85 | -0.09 | -0.25 | 0.06 | -0.21 | 0.70 | 2 |
| VCR | 2268 | 425839 | 4141073 | 425836 | 4141034 | 1949 | 2013 | -0.64 | -0.18 | -0.28 | 0.06 | -0.25 | 0.90 | 2 |
| VCR | 2269 | 425806 | 4141109 | 425799 | 4141051 | 1949 | 2013 | -1.08 | -0.26 | -0.44 | 0.06 | -0.39 | 0.88 | 2 |
| VCR | 2270 | 425782 | 4141148 | 425783 | 4141065 | 1949 | 2013 | -1.02 | -0.24 | -0.41 | 0.06 | -0.36 | 0.87 | 2 |
| VCR | 2271 | 425737 | 4141133 | 425768 | 4141094 | 1949 | 2013 | 0.00 | 0.30 | 0.24 | 0.06 | 0.25 | 0.96 | 2 |
| VCR | 2272 | 425737 | 4141084 | 425780 | 4141058 | 1949 | 2013 | 1.06 | 0.12 | 0.33 | 0.06 | 0.28 | 0.73 | 2 |
| VCR | 2273 | 425746 | 4141035 | 425779 | 4141031 | 1949 | 2013 | 0.54 | 0.10 | 0.20 | 0.06 | 0.17 | 0.83 | 2 |
| VCR | 2274 | 425725 | 4140993 | 425762 | 4141002 | 1949 | 2013 | 0.21 | -0.03 | 0.02 | 0.06 | 0.00 | 0.01 | 2 |
| VCR | 2275 | 425706 | 4140948 | 425744 | 4140967 | 1949 | 2013 | 0.21 | -0.24 | -0.14 | 0.06 | -0.17 | 0.81 | 2 |
| VCR | 2276 | 425740 | 4140915 | 425785 | 4140954 | 1949 | 2013 | 0.96 | 0.43 | 0.54 | 0.06 | 0.51 | 0.97 | 2 |
| VCR | 2277 | 425788 | 4140903 | 425820 | 4140938 | 1949 | 2013 | 0.97 | 0.21 | 0.38 | 0.06 | 0.34 | 0.86 | 2 |
| VCR | 2278 | 425835 | 4140886 | 425859 | 4140914 | 1949 | 2013 | 0.88 | 0.06 | 0.24 | 0.06 | 0.19 | 0.63 | 2 |
| VCR | 2279 | 425858 | 4140847 | 425899 | 4140861 | 1949 | 2013 | 1.55 | -0.30 | 0.11 | 0.06 | 0.00 | 0.00 | 2 |
| VCR | 2280 | 425931 | 4140788 | 425922 | 4140827 | 1949 | 2013 | 1.70 | -0.05 | 0.25 | 0.06 | 0.15 | 0.27 | 2 |
| VCR | 2281 | 425981 | 4140784 | 425965 | 4140827 | 1949 | 2013 | 1.91 | 0.04 | 0.36 | 0.06 | 0.26 | 0.49 | 2 |
| VCR | 2282 | 426030 | 4140784 | 425990 | 4140824 | 1949 | 2013 | 1.50 | 0.24 | 0.45 | 0.06 | 0.38 | 0.82 | 2 |
| VCR | 2283 | 426053 | 4140822 | 426012 | 4140830 | 1949 | 2013 | -1.95 | 0.23 | -0.14 | 0.06 | -0.02 | 0.00 | 2 |
| VCR | 2284 | 426031 | 4140864 | 425986 | 4140854 | 1949 | 2013 | -1.85 | -0.01 | -0.32 | 0.06 | -0.22 | 0.41 | 2 |
| VCR | 2285 | 425994 | 4140897 | 425957 | 4140882 | 1949 | 2013 | -1.39 | -0.05 | -0.28 | 0.06 | -0.21 | 0.54 | 2 |
| VCR | 2286 | 425967 | 4140938 | 425931 | 4140928 | 1949 | 2013 | -1.36 | -0.04 | -0.26 | 0.06 | -0.19 | 0.50 | 2 |
| VCR | 2287 | 425949 | 4140984 | 425919 | 4140998 | 1949 | 2013 | -1.01 | 0.16 | -0.04 | 0.06 | 0.02 | 0.02 | 2 |
| VCR | 2288 | 425989 | 4140990 | 425972 | 4141039 | 1949 | 2013 | 1.63 | 0.20 | 0.45 | 0.06 | 0.37 | 0.76 | 2 |
| VCR | 2289 | 426033 | 4140967 | 426024 | 4141026 | 1949 | 2013 | 1.87 | 0.29 | 0.56 | 0.06 | 0.47 | 0.82 | 2 |
| VCR | 2290 | 426081 | 4140955 | 426076 | 4141001 | 1949 | 2013 | 1.80 | 0.06 | 0.36 | 0.06 | 0.26 | 0.53 | 2 |
| VCR | 2291 | 426128 | 4140969 | 426113 | 4141005 | 1949 | 2013 | -0.04 | 0.29 | 0.23 | 0.06 | 0.25 | 0.97 | 2 |
| VCR | 2292 | 426162 | 4141006 | 426137 | 4141042 | 1949 | 2013 | 0.51 | 0.31 | 0.34 | 0.06 | 0.33 | 0.99 | 2 |
| VCR | 2293 | 426194 | 4141044 | 426160 | 4141069 | 1949 | 2013 | 1.01 | 0.22 | 0.35 | 0.06 | 0.31 | 0.88 | 2 |
| VCR | 2294 | 426234 | 4141074 | 426183 | 4141091 | 1949 | 2013 | 1.44 | 0.25 | 0.45 | 0.06 | 0.39 | 0.84 | 2 |
| VCR | 2295 | 426254 | 4141119 | 426210 | 4141121 | 1949 | 2013 | -1.34 | 0.41 | 0.11 | 0.06 | 0.20 | 0.40 | 2 |
| VCR | 2296 | 426238 | 4141165 | 426190 | 4141170 | 1949 | 2013 | -2.42 | 0.40 | -0.08 | 0.06 | 0.08 | 0.03 | 2 |
| VCR | 2297 | 426220 | 4141211 | 426162 | 4141216 | 1949 | 2013 | -3.41 | 0.48 | -0.18 | 0.06 | 0.03 | 0.00 | 2 |
| VCR | 2298 | 426204 | 4141258 | 426172 | 4141273 | 1949 | 2013 | -0.75 | 0.16 | 0.01 | 0.06 | 0.06 | 0.15 | 2 |
| VCR | 2299 | 426233 | 4141294 | 426218 | 4141322 | 1949 | 2013 | 0.90 | 0.03 | 0.18 | 0.06 | 0.13 | 0.52 | 2 |
| VCR | 2300 | 426282 | 4141296 | 426270 | 4141335 | 1949 | 2013 | 1.72 | -0.07 | 0.24 | 0.06 | 0.14 | 0.23 | 2 |
| VCR | 2301 | 426286 | 4141302 | 426303 | 4141266 | 1949 | 2013 | -1.62 | 0.23 | -0.08 | 0.06 | 0.02 | 0.00 | 2 |
| VCR | 2302 | 426236 | 4141299 | 426254 | 4141266 | 1949 | 2013 | -1.31 | 0.28 | 0.01 | 0.06 | 0.10 | 0.15 | 2 |
| VCR | 2303 | 426205 | 4141264 | 426231 | 4141249 | 1949 | 2013 | 0.71 | 0.00 | 0.12 | 0.06 | 0.09 | 0.41 | 2 |
| VCR | 2304 | 426207 | 4141215 | 426252 | 4141209 | 1949 | 2013 | 1.90 | -0.11 | 0.23 | 0.06 | 0.12 | 0.15 | 2 |
| VCR | 2305 | 426227 | 4141170 | 426274 | 4141168 | 1949 | 2013 | 2.06 | -0.29 | 0.11 | 0.06 | -0.01 | 0.00 | 2 |
| VCR | 2306 | 426246 | 4141124 | 426283 | 4141118 | 1949 | 2013 | NA | NA | -0.07 | 0.06 | -0.07 | 0.00 | 2 |
| VCR | 2307 | 426227 | 4141085 | 426264 | 4141070 | 1949 | 2013 | -0.32 | -0.27 | -0.28 | 0.06 | -0.27 | 1.00 | 2 |
| VCR | 2308 | 426189 | 4141053 | 426221 | 4141030 | 1949 | 2013 | -1.03 | -0.15 | -0.30 | 0.06 | -0.25 | 0.80 | 2 |
| VCR | 2309 | 426159 | 4141013 | 426180 | 4140987 | 1949 | 2013 | -0.77 | -0.06 | -0.18 | 0.06 | -0.14 | 0.65 | 2 |
| VCR | 2310 | 426129 | 4140976 | 426141 | 4140945 | 1949 | 2013 | -0.94 | -0.05 | -0.20 | 0.06 | -0.16 | 0.61 | 2 |
| VCR | 2311 | 426082 | 4140960 | 426092 | 4140928 | 1949 | 2013 | -1.26 | 0.02 | -0.20 | 0.06 | -0.13 | 0.33 | 2 |
| VCR | 2312 | 426036 | 4140977 | 426051 | 4140930 | 1949 | 2013 | -2.13 | 0.04 | -0.33 | 0.06 | -0.21 | 0.31 | 2 |
| VCR | 2313 | 425992 | 4140998 | 426025 | 4140941 | 1949 | 2013 | -3.62 | 0.04 | -0.58 | 0.06 | -0.38 | 0.35 | 2 |
| VCR | 2314 | 425956 | 4140969 | 426000 | 4140951 | 1949 | 2013 | 1.78 | 0.00 | 0.30 | 0.06 | 0.20 | 0.39 | 2 |
| VCR | 2315 | 425961 | 4140924 | 426012 | 4140934 | 1949 | 2013 | 2.46 | 0.14 | 0.53 | 0.06 | 0.41 | 0.60 | 2 |
| VCR | 2316 | 425994 | 4140887 | 426054 | 4140905 | 1949 | 2013 | 2.01 | 0.31 | 0.60 | 0.06 | 0.51 | 0.82 | 2 |
| VCR | 2317 | 426035 | 4140858 | 426085 | 4140868 | 1949 | 2013 | 2.61 | -0.02 | 0.43 | 0.06 | 0.28 | 0.36 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2318 | 426046 | 4140812 | 426084 | 4140798 | 1949 | 2013 | 1.27 | -0.38 | -0.09 | 0.06 | -0.18 | 0.38 | 2 |
| VCR | 2319 | 426011 | 4140782 | 426031 | 4140751 | 1949 | 2013 | -0.38 | -0.21 | -0.24 | 0.06 | -0.23 | 0.99 | 2 |
| VCR | 2320 | 425962 | 4140789 | 425978 | 4140748 | 1949 | 2013 | -2.00 | 0.08 | -0.28 | 0.06 | -0.16 | 0.23 | 2 |
| VCR | 2321 | 425912 | 4140788 | 425925 | 4140752 | 1949 | 2013 | -1.45 | 0.07 | -0.19 | 0.06 | -0.10 | 0.18 | 2 |
| VCR | 2322 | 424250 | 4141349 | 424258 | 4141375 | 1949 | 2013 | 0.21 | -0.12 | -0.05 | 0.06 | -0.07 | 0.56 | 2 |
| VCR | 2323 | 424200 | 4141349 | 424211 | 4141376 | 1949 | 2013 | 0.33 | 0.01 | 0.08 | 0.06 | 0.06 | 0.51 | 2 |
| VCR | 2324 | 424154 | 4141359 | 424169 | 4141381 | 1949 | 2013 | 0.19 | -0.12 | -0.06 | 0.06 | -0.07 | 0.64 | 2 |
| VCR | 2325 | 424133 | 4141404 | 424149 | 4141425 | 1949 | 2013 | 0.22 | -0.04 | 0.02 | 0.06 | 0.01 | 0.02 | 2 |
| VCR | 2326 | 424108 | 4141447 | 424129 | 4141474 | 1949 | 2013 | 0.16 | -0.22 | -0.13 | 0.06 | -0.16 | 0.84 | 2 |
| VCR | 2327 | 424077 | 4141483 | 424093 | 4141507 | 1949 | 2013 | 0.48 | -0.16 | -0.02 | 0.06 | -0.06 | 0.21 | 2 |
| VCR | 2328 | 424027 | 4141490 | 424029 | 4141521 | 1949 | 2013 | 0.66 | 0.02 | 0.16 | 0.06 | 0.13 | 0.55 | 2 |
| VCR | 2329 | 427125 | 4147969 | 427117 | 4147948 | 1949 | 2013 | -0.03 | 0.05 | 0.03 | 0.06 | 0.04 | 0.88 | 3 |
| VCR | 2330 | 427171 | 4147952 | 427160 | 4147931 | 1949 | 2013 | -0.20 | 0.04 | -0.01 | 0.06 | 0.00 | 0.00 | 3 |
| VCR | 2331 | 427220 | 4147943 | 427207 | 4147921 | 1949 | 2013 | -0.35 | 0.04 | -0.05 | 0.06 | -0.02 | 0.10 | 3 |
| VCR | 2332 | 427261 | 4147915 | 427239 | 4147884 | 1949 | 2013 | -1.01 | 0.33 | 0.03 | 0.06 | 0.11 | 0.18 | 3 |
| VCR | 2333 | 427290 | 4147874 | 427273 | 4147844 | 1949 | 2013 | -0.39 | 0.25 | 0.11 | 0.06 | 0.15 | 0.63 | 3 |
| VCR | 2334 | 427322 | 4147838 | 427306 | 4147802 | 1949 | 2013 | -0.17 | 0.08 | 0.02 | 0.06 | 0.04 | 0.40 | 3 |
| VCR | 2335 | 427363 | 4147809 | 427356 | 4147773 | 1949 | 2013 | -0.93 | 0.30 | 0.03 | 0.06 | 0.10 | 0.17 | 3 |
| VCR | 2336 | 427411 | 4147811 | 427408 | 4147785 | 1949 | 2013 | 0.34 | -0.09 | 0.01 | 0.06 | -0.02 | 0.05 | 3 |
| VCR | 2337 | 427461 | 4147808 | 427459 | 4147787 | 1949 | 2013 | 0.00 | -0.01 | -0.01 | 0.06 | -0.01 | 0.99 | 3 |
| VCR | 2338 | 427510 | 4147799 | 427502 | 4147776 | 1949 | 2013 | -0.02 | 0.08 | 0.06 | 0.06 | 0.07 | 0.93 | 3 |
| VCR | 2339 | 427557 | 4147783 | 427546 | 4147757 | 1949 | 2013 | -0.01 | 0.16 | 0.12 | 0.06 | 0.13 | 0.95 | 3 |
| VCR | 2340 | 427602 | 4147761 | 427586 | 4147730 | 1949 | 2013 | 0.21 | 0.22 | 0.22 | 0.06 | 0.22 | 1.00 | 3 |
| VCR | 2341 | 427644 | 4147734 | 427627 | 4147707 | 1949 | 2013 | 0.26 | 0.16 | 0.18 | 0.06 | 0.18 | 0.99 | 3 |
| VCR | 2342 | 427686 | 4147707 | 427668 | 4147682 | 1949 | 2013 | -0.01 | 0.20 | 0.15 | 0.06 | 0.17 | 0.95 | 3 |
| VCR | 2343 | 427727 | 4147678 | 427710 | 4147652 | 1949 | 2013 | -0.08 | 0.20 | 0.14 | 0.06 | 0.16 | 0.91 | 3 |
| VCR | 2344 | 427762 | 4147643 | 427745 | 4147609 | 1949 | 2013 | 0.65 | 0.13 | 0.25 | 0.06 | 0.22 | 0.85 | 3 |
| VCR | 2345 | 427796 | 4147607 | 427788 | 4147582 | 1949 | 2013 | 0.31 | 0.00 | 0.07 | 0.06 | 0.05 | 0.45 | 3 |
| VCR | 2346 | 427843 | 4147598 | 427843 | 4147572 | 1949 | 2013 | 0.41 | -0.10 | 0.01 | 0.06 | -0.02 | 0.04 | 3 |
| VCR | 2347 | 427889 | 4147615 | 427901 | 4147585 | 1949 | 2013 | 0.36 | -0.22 | -0.09 | 0.06 | -0.13 | 0.60 | 3 |
| VCR | 2348 | 427927 | 4147647 | 427944 | 4147622 | 1949 | 2013 | 0.12 | -0.19 | -0.12 | 0.06 | -0.14 | 0.86 | 3 |
| VCR | 2349 | 427957 | 4147686 | 427974 | 4147655 | 1949 | 2013 | 0.39 | -0.23 | -0.09 | 0.06 | -0.13 | 0.57 | 3 |
| VCR | 2350 | 427993 | 4147721 | 428001 | 4147684 | 1949 | 2013 | 1.07 | -0.10 | 0.16 | 0.06 | 0.09 | 0.16 | 3 |
| VCR | 2351 | 426533 | 4144199 | 426550 | 4144245 | 1949 | 2013 | 0.77 | 0.39 | 0.45 | 0.06 | 0.43 | 0.98 | 3 |
| VCR | 2352 | 426490 | 4144224 | 426512 | 4144267 | 1949 | 2013 | 1.41 | 0.24 | 0.44 | 0.06 | 0.38 | 0.84 | 3 |
| VCR | 2353 | 426450 | 4144255 | 426477 | 4144293 | 1949 | 2013 | 1.44 | 0.20 | 0.41 | 0.06 | 0.34 | 0.79 | 3 |
| VCR | 2354 | 426417 | 4144292 | 426442 | 4144323 | 1949 | 2013 | 1.44 | 0.07 | 0.30 | 0.06 | 0.23 | 0.58 | 3 |
| VCR | 2355 | 426382 | 4144328 | 426405 | 4144354 | 1949 | 2013 | 1.37 | -0.03 | 0.21 | 0.06 | 0.13 | 0.31 | 3 |
| VCR | 2356 | 426343 | 4144357 | 426368 | 4144387 | 1949 | 2013 | 1.76 | -0.06 | 0.25 | 0.06 | 0.15 | 0.26 | 3 |
| VCR | 2357 | 426301 | 4144385 | 426330 | 4144416 | 1949 | 2013 | 2.07 | -0.11 | 0.26 | 0.06 | 0.14 | 0.17 | 3 |
| VCR | 2358 | 426263 | 4144417 | 426290 | 4144445 | 1949 | 2013 | 1.71 | 0.00 | 0.29 | 0.06 | 0.20 | 0.40 | 3 |
| VCR | 2359 | 426223 | 4144446 | 426259 | 4144479 | 1949 | 2013 | 2.17 | 0.09 | 0.44 | 0.06 | 0.33 | 0.55 | 3 |
| VCR | 2360 | 426190 | 4144483 | 426228 | 4144509 | 1949 | 2013 | 1.81 | 0.13 | 0.42 | 0.06 | 0.33 | 0.65 | 3 |
| VCR | 2361 | 426166 | 4144519 | 426128 | 4144504 | 1949 | 2013 | -1.91 | 0.03 | -0.30 | 0.06 | -0.19 | 0.33 | 3 |
| VCR | 2362 | 426181 | 4144471 | 426146 | 4144447 | 1949 | 2013 | -1.51 | -0.11 | -0.35 | 0.06 | -0.28 | 0.66 | 3 |
| VCR | 2363 | 426213 | 4144435 | 426181 | 4144404 | 1949 | 2013 | -1.31 | -0.16 | -0.35 | 0.06 | -0.29 | 0.76 | 3 |
| VCR | 2364 | 426250 | 4144407 | 426228 | 4144378 | 1949 | 2013 | -1.35 | -0.04 | -0.27 | 0.06 | -0.20 | 0.52 | 3 |
| VCR | 2365 | 426290 | 4144378 | 426270 | 4144348 | 1949 | 2013 | -1.45 | 0.02 | -0.23 | 0.06 | -0.15 | 0.34 | 3 |
| VCR | 2366 | 426331 | 4144350 | 426308 | 4144320 | 1949 | 2013 | -1.53 | 0.05 | -0.22 | 0.06 | -0.14 | 0.27 | 3 |
| VCR | 2367 | 426369 | 4144317 | 426347 | 4144292 | 1949 | 2013 | -1.05 | -0.04 | -0.21 | 0.06 | -0.16 | 0.54 | 3 |
| VCR | 2368 | 426403 | 4144281 | 426378 | 4144251 | 1949 | 2013 | -1.72 | 0.06 | -0.24 | 0.06 | -0.15 | 0.25 | 3 |
| VCR | 2369 | 426438 | 4144246 | 426415 | 4144217 | 1949 | 2013 | -1.21 | -0.07 | -0.27 | 0.06 | -0.21 | 0.62 | 3 |
| VCR | 2370 | 426480 | 4144220 | 426458 | 4144186 | 1949 | 2013 | -0.98 | -0.17 | -0.31 | 0.06 | -0.27 | 0.84 | 3 |
| VCR | 2371 | 426526 | 4144201 | 426512 | 4144162 | 1949 | 2013 | -1.05 | -0.18 | -0.33 | 0.06 | -0.28 | 0.84 | 3 |
| VCR | 2372 | 426452 | 4144169 | 426472 | 4144194 | 1949 | 2013 | 1.04 | -0.21 | 0.00 | 0.06 | -0.07 | 0.12 | 3 |
| VCR | 2373 | 426414 | 4144200 | 426426 | 4144226 | 1949 | 2013 | 0.56 | -0.16 | -0.04 | 0.06 | -0.08 | 0.36 | 3 |
| VCR | 2374 | 426368 | 4144221 | 426372 | 4144252 | 1949 | 2013 | 0.54 | -0.22 | -0.09 | 0.06 | -0.13 | 0.60 | 3 |
| VCR | 2375 | 426319 | 4144222 | 426311 | 4144254 | 1949 | 2013 | 0.14 | -0.24 | -0.17 | 0.06 | -0.19 | 0.93 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2376 | 426278 | 4144198 | 426252 | 4144217 | 1949 | 2013 | -1.01 | 0.00 | -0.17 | 0.06 | -0.11 | 0.38 | 3 |
| VCR | 2377 | 426283 | 4144158 | 426238 | 4144174 | 1949 | 2013 | -1.05 | 0.29 | 0.06 | 0.06 | 0.13 | 0.32 | 3 |
| VCR | 2378 | 426316 | 4144120 | 426266 | 4144137 | 1949 | 2013 | -1.15 | 0.18 | -0.05 | 0.06 | 0.03 | 0.02 | 3 |
| VCR | 2379 | 426305 | 4144077 | 426274 | 4144089 | 1949 | 2013 | -0.80 | 0.10 | -0.06 | 0.06 | -0.01 | 0.00 | 3 |
| VCR | 2380 | 426264 | 4144050 | 426238 | 4144063 | 1949 | 2013 | -0.63 | 0.01 | -0.10 | 0.06 | -0.06 | 0.31 | 3 |
| VCR | 2381 | 426228 | 4144016 | 426196 | 4144033 | 1949 | 2013 | -0.75 | -0.13 | -0.23 | 0.06 | -0.20 | 0.84 | 3 |
| VCR | 2382 | 426216 | 4143972 | 426183 | 4143990 | 1949 | 2013 | -0.44 | 0.06 | -0.03 | 0.06 | 0.00 | 0.00 | 3 |
| VCR | 2383 | 426246 | 4143933 | 426205 | 4143946 | 1949 | 2013 | -1.05 | 0.33 | 0.10 | 0.06 | 0.17 | 0.43 | 3 |
| VCR | 2384 | 426236 | 4143885 | 426186 | 4143903 | 1949 | 2013 | -0.77 | 0.42 | 0.21 | 0.06 | 0.28 | 0.73 | 3 |
| VCR | 2385 | 426201 | 4143849 | 426161 | 4143885 | 1949 | 2013 | -2.28 | 0.65 | 0.15 | 0.06 | 0.31 | 0.36 | 3 |
| VCR | 2386 | 426166 | 4143815 | 426145 | 4143855 | 1949 | 2013 | -1.21 | 0.46 | 0.17 | 0.06 | 0.26 | 0.55 | 3 |
| VCR | 2387 | 426116 | 4143814 | 426111 | 4143855 | 1949 | 2013 | -0.37 | 0.41 | 0.28 | 0.06 | 0.32 | 0.89 | 3 |
| VCR | 2388 | 426067 | 4143825 | 426069 | 4143853 | 1949 | 2013 | -0.06 | 0.15 | 0.12 | 0.06 | 0.13 | 0.95 | 3 |
| VCR | 2389 | 426019 | 4143832 | 426025 | 4143867 | 1949 | 2013 | -1.31 | 0.18 | -0.08 | 0.06 | 0.00 | 0.00 | 3 |
| VCR | 2390 | 425969 | 4143832 | 425954 | 4143869 | 1949 | 2013 | -1.14 | 0.04 | -0.16 | 0.06 | -0.10 | 0.26 | 3 |
| VCR | 2391 | 425953 | 4143804 | 425910 | 4143809 | 1949 | 2013 | -0.92 | 0.26 | 0.06 | 0.06 | 0.12 | 0.35 | 3 |
| VCR | 2392 | 426000 | 4143789 | 425974 | 4143767 | 1949 | 2013 | -0.53 | 0.25 | 0.12 | 0.06 | 0.16 | 0.68 | 3 |
| VCR | 2393 | 426036 | 4143756 | 425980 | 4143756 | 1949 | 2013 | -1.98 | 0.66 | 0.21 | 0.06 | 0.35 | 0.46 | 3 |
| VCR | 2394 | 426006 | 4143722 | 425937 | 4143726 | 1949 | 2013 | -2.18 | -0.19 | -0.53 | 0.06 | -0.42 | 0.68 | 3 |
| VCR | 2395 | 425960 | 4143705 | 425929 | 4143711 | 1949 | 2013 | -0.88 | -0.03 | -0.18 | 0.06 | -0.13 | 0.55 | 3 |
| VCR | 2396 | 425968 | 4143660 | 425924 | 4143678 | 1949 | 2013 | -0.84 | 0.05 | -0.10 | 0.06 | -0.05 | 0.16 | 3 |
| VCR | 2397 | 426003 | 4143626 | 425929 | 4143665 | 1949 | 2013 | -0.92 | 0.48 | 0.24 | 0.06 | 0.32 | 0.72 | 3 |
| VCR | 2398 | 425980 | 4143587 | 425955 | 4143608 | 1949 | 2013 | -1.02 | 0.22 | 0.01 | 0.06 | 0.08 | 0.16 | 3 |
| VCR | 2399 | 425936 | 4143566 | 425896 | 4143577 | 1949 | 2013 | -0.72 | 0.24 | 0.08 | 0.06 | 0.13 | 0.47 | 3 |
| VCR | 2400 | 425924 | 4143524 | 425904 | 4143512 | 1949 | 2013 | -0.25 | 0.04 | -0.01 | 0.06 | 0.01 | 0.02 | 3 |
| VCR | 2401 | 425957 | 4143488 | 425879 | 4143557 | 1949 | 2013 | -1.39 | 0.45 | 0.14 | 0.06 | 0.24 | 0.45 | 3 |
| VCR | 2402 | 425941 | 4143449 | 425877 | 4143547 | 1949 | 2013 | -1.69 | 0.78 | 0.36 | 0.06 | 0.49 | 0.66 | 3 |
| VCR | 2403 | 425933 | 4143494 | 425965 | 4143445 | 1949 | 2013 | 0.79 | NA | NA | 0.37 | 0.79 | 0.00 | 3 |
| VCR | 2404 | 425921 | 4143540 | 425971 | 4143501 | 1949 | 2013 | 1.12 | -0.45 | -0.18 | 0.06 | -0.26 | 0.58 | 3 |
| VCR | 2405 | 425940 | 4143575 | 425988 | 4143569 | 1949 | 2013 | 1.51 | -0.22 | 0.07 | 0.06 | -0.02 | 0.01 | 3 |
| VCR | 2406 | 425974 | 4143607 | 426013 | 4143599 | 1949 | 2013 | 1.15 | -0.37 | -0.11 | 0.06 | -0.19 | 0.45 | 3 |
| VCR | 2407 | 425966 | 4143655 | 425983 | 4143673 | 1949 | 2013 | -0.13 | -0.06 | -0.07 | 0.06 | -0.06 | 0.98 | 3 |
| VCR | 2408 | 425941 | 4143696 | 425977 | 4143680 | 1949 | 2013 | 1.54 | -0.04 | 0.23 | 0.06 | 0.15 | 0.30 | 3 |
| VCR | 2409 | 425976 | 4143723 | 425991 | 4143695 | 1949 | 2013 | 0.47 | 0.11 | 0.17 | 0.06 | 0.15 | 0.89 | 3 |
| VCR | 2410 | 426020 | 4143745 | 426061 | 4143742 | 1949 | 2013 | 1.70 | -0.23 | 0.10 | 0.06 | -0.01 | 0.00 | 3 |
| VCR | 2411 | 426001 | 4143780 | 426008 | 4143805 | 1949 | 2013 | 0.05 | -0.12 | -0.09 | 0.06 | -0.10 | 0.94 | 3 |
| VCR | 2412 | 425955 | 4143798 | 425980 | 4143815 | 1949 | 2013 | -0.63 | -0.01 | -0.11 | 0.06 | -0.08 | 0.43 | 3 |
| VCR | 2413 | 425935 | 4143838 | 425983 | 4143815 | 1949 | 2013 | -0.27 | 0.49 | 0.36 | 0.06 | 0.40 | 0.93 | 3 |
| VCR | 2414 | 425982 | 4143845 | 425997 | 4143815 | 1949 | 2013 | 0.21 | 0.11 | 0.12 | 0.06 | 0.12 | 0.98 | 3 |
| VCR | 2415 | 426030 | 4143834 | 426034 | 4143809 | 1949 | 2013 | 0.23 | 0.02 | 0.05 | 0.06 | 0.04 | 0.66 | 3 |
| VCR | 2416 | 426080 | 4143830 | 426084 | 4143801 | 1949 | 2013 | -0.07 | -0.14 | -0.12 | 0.06 | -0.13 | 0.99 | 3 |
| VCR | 2417 | 426129 | 4143828 | 426138 | 4143797 | 1949 | 2013 | 0.45 | -0.24 | -0.12 | 0.06 | -0.16 | 0.72 | 3 |
| VCR | 2418 | 426173 | 4143845 | 426195 | 4143816 | 1949 | 2013 | 0.81 | -0.27 | -0.09 | 0.06 | -0.15 | 0.48 | 3 |
| VCR | 2419 | 426206 | 4143880 | 426236 | 4143866 | 1949 | 2013 | 0.78 | -0.22 | -0.04 | 0.06 | -0.10 | 0.33 | 3 |
| VCR | 2420 | 426229 | 4143921 | 426264 | 4143910 | 1949 | 2013 | 1.46 | -0.31 | -0.01 | 0.06 | -0.10 | 0.14 | 3 |
| VCR | 2421 | 426214 | 4143967 | 426259 | 4143951 | 1949 | 2013 | 0.78 | -0.30 | -0.12 | 0.06 | -0.18 | 0.57 | 3 |
| VCR | 2422 | 426209 | 4144016 | 426247 | 4144000 | 1949 | 2013 | 1.55 | 0.07 | 0.32 | 0.06 | 0.24 | 0.57 | 3 |
| VCR | 2423 | 426249 | 4144044 | 426281 | 4144034 | 1949 | 2013 | 0.80 | 0.00 | 0.14 | 0.06 | 0.10 | 0.42 | 3 |
| VCR | 2424 | 426287 | 4144076 | 426327 | 4144064 | 1949 | 2013 | 1.63 | -0.16 | 0.15 | 0.06 | 0.05 | 0.03 | 3 |
| VCR | 2425 | 426305 | 4144116 | 426342 | 4144108 | 1949 | 2013 | 0.94 | -0.04 | 0.13 | 0.06 | 0.08 | 0.24 | 3 |
| VCR | 2426 | 426278 | 4144155 | 426329 | 4144137 | 1949 | 2013 | 1.51 | -0.37 | -0.05 | 0.06 | -0.15 | 0.23 | 3 |
| VCR | 2427 | 426267 | 4144200 | 426296 | 4144186 | 1949 | 2013 | 0.28 | 0.17 | 0.19 | 0.06 | 0.18 | 0.99 | 3 |
| VCR | 2428 | 426297 | 4144238 | 426320 | 4144192 | 1949 | 2013 | -0.51 | 0.50 | 0.33 | 0.06 | 0.39 | 0.88 | 3 |
| VCR | 2429 | 426346 | 4144243 | 426345 | 4144207 | 1949 | 2013 | -0.01 | 0.31 | 0.26 | 0.06 | 0.27 | 0.97 | 3 |
| VCR | 2430 | 426394 | 4144231 | 426376 | 4144196 | 1949 | 2013 | -0.71 | 0.37 | 0.18 | 0.06 | 0.24 | 0.71 | 3 |
| VCR | 2431 | 426434 | 4144201 | 426414 | 4144177 | 1949 | 2013 | -0.61 | 0.22 | 0.08 | 0.06 | 0.12 | 0.53 | 3 |
| VCR | 2432 | 426464 | 4144162 | 426437 | 4144154 | 1949 | 2013 | 0.41 | -0.03 | 0.04 | 0.06 | 0.02 | 0.09 | 3 |
| VCR | 2433 | 426514 | 4143557 | 426523 | 4143583 | 1949 | 2013 | 0.19 | -0.14 | -0.08 | 0.06 | -0.10 | 0.83 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2434 | 426468 | 4143574 | 426476 | 4143601 | 1949 | 2013 | -0.02 | -0.13 | -0.11 | 0.06 | -0.12 | 0.98 | 3 |
| VCR | 2435 | 426424 | 4143597 | 426433 | 4143625 | 1949 | 2013 | -0.13 | -0.12 | -0.12 | 0.06 | -0.12 | 1.00 | 3 |
| VCR | 2436 | 426380 | 4143621 | 426382 | 4143649 | 1949 | 2013 | -0.02 | -0.15 | -0.13 | 0.06 | -0.14 | 0.98 | 3 |
| VCR | 2437 | 426333 | 4143620 | 426320 | 4143648 | 1949 | 2013 | -0.88 | 0.19 | 0.00 | 0.06 | 0.06 | 0.14 | 3 |
| VCR | 2438 | 426305 | 4143582 | 426247 | 4143603 | 1949 | 2013 | -1.22 | 0.79 | 0.45 | 0.06 | 0.56 | 0.79 | 3 |
| VCR | 2439 | 426328 | 4143539 | 426273 | 4143538 | 1949 | 2013 | -0.58 | 0.55 | 0.36 | 0.06 | 0.42 | 0.87 | 3 |
| VCR | 2440 | 426352 | 4143495 | 426299 | 4143488 | 1949 | 2013 | -0.62 | 0.57 | 0.37 | 0.06 | 0.43 | 0.87 | 3 |
| VCR | 2441 | 426349 | 4143446 | 426302 | 4143451 | 1949 | 2013 | -1.01 | 0.50 | 0.25 | 0.06 | 0.33 | 0.70 | 3 |
| VCR | 2442 | 426332 | 4143399 | 426293 | 4143424 | 1949 | 2013 | -1.53 | 0.51 | 0.16 | 0.06 | 0.27 | 0.46 | 3 |
| VCR | 2443 | 426303 | 4143359 | 426278 | 4143396 | 1949 | 2013 | -1.02 | 0.47 | 0.21 | 0.06 | 0.29 | 0.66 | 3 |
| VCR | 2444 | 426256 | 4143353 | 426253 | 4143389 | 1949 | 2013 | -0.48 | 0.29 | 0.16 | 0.06 | 0.20 | 0.77 | 3 |
| VCR | 2445 | 426212 | 4143376 | 426219 | 4143396 | 1949 | 2013 | 0.11 | -0.01 | 0.01 | 0.06 | 0.01 | 0.14 | 3 |
| VCR | 2446 | 426168 | 4143399 | 426187 | 4143436 | 1949 | 2013 | 0.81 | -0.35 | -0.15 | 0.06 | -0.21 | 0.63 | 3 |
| VCR | 2447 | 426137 | 4143437 | 426158 | 4143477 | 1949 | 2013 | 1.44 | -0.43 | -0.11 | 0.06 | -0.22 | 0.40 | 3 |
| VCR | 2448 | 426100 | 4143469 | 426111 | 4143499 | 1949 | 2013 | 0.17 | -0.21 | -0.15 | 0.06 | -0.17 | 0.91 | 3 |
| VCR | 2449 | 426051 | 4143464 | 426052 | 4143498 | 1949 | 2013 | -0.92 | -0.09 | -0.23 | 0.06 | -0.18 | 0.70 | 3 |
| VCR | 2450 | 426002 | 4143453 | 425992 | 4143484 | 1949 | 2013 | -0.32 | -0.15 | -0.18 | 0.06 | -0.17 | 0.98 | 3 |
| VCR | 2451 | 425963 | 4143423 | 425934 | 4143460 | 1949 | 2013 | -0.82 | NA | NA | 0.37 | -0.82 | 0.00 | 3 |
| VCR | 2452 | 425977 | 4143443 | 425989 | 4143412 | 1949 | 2013 | 0.66 | 0.11 | 0.20 | 0.07 | 0.17 | 0.82 | 3 |
| VCR | 2453 | 426020 | 4143468 | 426025 | 4143429 | 1949 | 2013 | 0.82 | 0.20 | 0.30 | 0.07 | 0.27 | 0.90 | 3 |
| VCR | 2454 | 426062 | 4143454 | 426057 | 4143420 | 1949 | 2013 | 0.13 | 0.23 | 0.21 | 0.07 | 0.22 | 1.00 | 3 |
| VCR | 2455 | 426102 | 4143426 | 426095 | 4143400 | 1949 | 2013 | -0.25 | 0.12 | 0.06 | 0.07 | 0.08 | 0.70 | 3 |
| VCR | 2456 | 426149 | 4143409 | 426136 | 4143373 | 1949 | 2013 | -0.47 | 0.30 | 0.17 | 0.07 | 0.21 | 0.78 | 3 |
| VCR | 2457 | 426192 | 4143383 | 426184 | 4143339 | 1949 | 2013 | -0.19 | 0.46 | 0.35 | 0.07 | 0.38 | 0.95 | 3 |
| VCR | 2458 | 426233 | 4143359 | 426235 | 4143332 | 1949 | 2013 | 0.50 | -0.13 | -0.02 | 0.07 | -0.06 | 0.30 | 3 |
| VCR | 2459 | 426280 | 4143365 | 426296 | 4143334 | 1949 | 2013 | 0.45 | -0.26 | -0.14 | 0.07 | -0.18 | 0.75 | 3 |
| VCR | 2460 | 426313 | 4143401 | 426343 | 4143375 | 1949 | 2013 | 1.27 | -0.37 | -0.09 | 0.07 | -0.18 | 0.37 | 3 |
| VCR | 2461 | 426333 | 4143444 | 426371 | 4143434 | 1949 | 2013 | 1.36 | -0.36 | -0.07 | 0.07 | -0.16 | 0.29 | 3 |
| VCR | 2462 | 426342 | 4143492 | 426374 | 4143491 | 1949 | 2013 | 0.17 | -0.21 | -0.15 | 0.07 | -0.17 | 0.90 | 3 |
| VCR | 2463 | 426322 | 4143537 | 426366 | 4143530 | 1949 | 2013 | 0.73 | -0.39 | -0.20 | 0.07 | -0.26 | 0.72 | 3 |
| VCR | 2464 | 426315 | 4143586 | 426346 | 4143570 | 1949 | 2013 | 0.53 | -0.25 | -0.12 | 0.07 | -0.16 | 0.67 | 3 |
| VCR | 2465 | 426347 | 4143622 | 426361 | 4143591 | 1949 | 2013 | 0.07 | 0.22 | 0.19 | 0.07 | 0.20 | 0.99 | 3 |
| VCR | 2466 | 426396 | 4143616 | 426391 | 4143567 | 1949 | 2013 | -0.67 | 0.53 | 0.33 | 0.07 | 0.39 | 0.84 | 3 |
| VCR | 2467 | 426438 | 4143590 | 426424 | 4143551 | 1949 | 2013 | -0.03 | 0.40 | 0.33 | 0.07 | 0.35 | 0.97 | 3 |
| VCR | 2468 | 426477 | 4143559 | 426467 | 4143527 | 1949 | 2013 | -0.27 | 0.25 | 0.16 | 0.07 | 0.19 | 0.87 | 3 |
| VCR | 2469 | 426522 | 4143540 | 426520 | 4143517 | 1949 | 2013 | -0.23 | -0.02 | -0.05 | 0.07 | -0.04 | 0.66 | 3 |
| VCR | 2470 | 426572 | 4143538 | 426572 | 4143489 | 1949 | 2013 | -2.03 | 0.17 | -0.21 | 0.07 | -0.09 | 0.07 | 3 |
| VCR | 2471 | 426620 | 4143544 | 426625 | 4143506 | 1949 | 2013 | 0.68 | -0.34 | -0.16 | 0.07 | -0.22 | 0.69 | 3 |
| VCR | 2472 | 426665 | 4143554 | 426666 | 4143527 | 1949 | 2013 | NA | -0.13 | NA | 0.08 | -0.13 | 0.00 | 3 |
| VCR | 2473 | 426576 | 4143538 | 426591 | 4143504 | 1949 | 2013 | -1.42 | 0.01 | -0.23 | 0.06 | -0.15 | 0.36 | 3 |
| VCR | 2474 | 426624 | 4143545 | 426642 | 4143511 | 1949 | 2013 | 0.36 | -0.34 | -0.22 | 0.06 | -0.26 | 0.87 | 3 |
| VCR | 2475 | 426672 | 4143555 | 426680 | 4143528 | 1949 | 2013 | 0.20 | -0.15 | -0.09 | 0.06 | -0.11 | 0.83 | 3 |
| VCR | 2476 | 426722 | 4143562 | 426728 | 4143538 | 1949 | 2013 | 0.07 | -0.10 | -0.07 | 0.06 | -0.08 | 0.91 | 3 |
| VCR | 2477 | 426769 | 4143576 | 426777 | 4143549 | 1949 | 2013 | 0.67 | -0.08 | 0.05 | 0.06 | 0.01 | 0.01 | 3 |
| VCR | 2478 | 426814 | 4143596 | 426824 | 4143572 | 1949 | 2013 | 0.46 | -0.08 | 0.01 | 0.06 | -0.02 | 0.05 | 3 |
| VCR | 2479 | 426856 | 4143624 | 426865 | 4143596 | 1949 | 2013 | 0.67 | -0.17 | -0.03 | 0.06 | -0.07 | 0.26 | 3 |
| VCR | 2480 | 426897 | 4143650 | 426906 | 4143621 | 1949 | 2013 | 0.57 | 0.04 | 0.13 | 0.06 | 0.10 | 0.62 | 3 |
| VCR | 2481 | 426939 | 4143676 | 426944 | 4143633 | 1949 | 2013 | 0.87 | 0.26 | 0.36 | 0.06 | 0.33 | 0.93 | 3 |
| VCR | 2482 | 426988 | 4143671 | 426978 | 4143630 | 1949 | 2013 | 0.66 | 0.28 | 0.34 | 0.06 | 0.32 | 0.97 | 3 |
| VCR | 2483 | 427034 | 4143652 | 427009 | 4143622 | 1949 | 2013 | 0.69 | 0.20 | 0.29 | 0.06 | 0.26 | 0.93 | 3 |
| VCR | 2484 | 427070 | 4143618 | 427032 | 4143602 | 1949 | 2013 | 0.43 | 0.30 | 0.32 | 0.06 | 0.32 | 1.00 | 3 |
| VCR | 2485 | 427072 | 4143570 | 427027 | 4143574 | 1949 | 2013 | -0.41 | 0.43 | 0.29 | 0.06 | 0.33 | 0.88 | 3 |
| VCR | 2486 | 427044 | 4143529 | 427011 | 4143545 | 1949 | 2013 | -0.61 | 0.29 | 0.14 | 0.06 | 0.19 | 0.68 | 3 |
| VCR | 2487 | 427013 | 4143490 | 426985 | 4143514 | 1949 | 2013 | -0.83 | 0.31 | 0.11 | 0.06 | 0.17 | 0.53 | 3 |
| VCR | 2488 | 426977 | 4143455 | 426956 | 4143487 | 1949 | 2013 | -0.68 | 0.36 | 0.18 | 0.06 | 0.23 | 0.72 | 3 |
| VCR | 2489 | 426936 | 4143427 | 426927 | 4143463 | 1949 | 2013 | -0.56 | 0.32 | 0.17 | 0.06 | 0.22 | 0.75 | 3 |
| VCR | 2490 | 426888 | 4143426 | 426889 | 4143449 | 1949 | 2013 | 0.12 | 0.00 | 0.02 | 0.06 | 0.01 | 0.43 | 3 |
| VCR | 2491 | 426844 | 4143449 | 426852 | 4143477 | 1949 | 2013 | 0.19 | -0.14 | -0.09 | 0.06 | -0.10 | 0.82 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2492 | 426810 | 4143485 | 426818 | 4143509 | 1949 | 2013 | 0.04 | -0.06 | -0.04 | 0.06 | -0.05 | 0.91 | 3 |
| VCR | 2493 | 426769 | 4143513 | 426773 | 4143533 | 1949 | 2013 | 0.03 | 0.00 | 0.01 | 0.06 | 0.01 | 0.84 | 3 |
| VCR | 2494 | 426720 | 4143507 | 426719 | 4143535 | 1949 | 2013 | 0.18 | -0.10 | -0.06 | 0.06 | -0.07 | 0.76 | 3 |
| VCR | 2495 | 426674 | 4143490 | 426662 | 4143527 | 1949 | 2013 | -0.28 | -0.02 | -0.07 | 0.06 | -0.05 | 0.69 | 3 |
| VCR | 2496 | 426628 | 4143470 | 426603 | 4143504 | 1949 | 2013 | -0.21 | -0.05 | -0.08 | 0.06 | -0.07 | 0.91 | 3 |
| VCR | 2497 | 426588 | 4143442 | 426567 | 4143461 | 1949 | 2013 | -0.77 | -0.01 | -0.14 | 0.06 | -0.10 | 0.43 | 3 |
| VCR | 2498 | 426558 | 4143404 | 426531 | 4143416 | 1949 | 2013 | -0.85 | 0.02 | -0.13 | 0.06 | -0.08 | 0.31 | 3 |
| VCR | 2499 | 426550 | 4143355 | 426504 | 4143357 | 1949 | 2013 | -1.28 | 0.17 | -0.07 | 0.06 | 0.01 | 0.00 | 3 |
| VCR | 2500 | 426561 | 4143307 | 426530 | 4143306 | 1949 | 2013 | -0.65 | 0.17 | 0.03 | 0.06 | 0.07 | 0.28 | 3 |
| VCR | 2501 | 426592 | 4143267 | 426543 | 4143274 | 1949 | 2013 | -0.51 | 0.41 | 0.26 | 0.06 | 0.31 | 0.84 | 3 |
| VCR | 2502 | 426613 | 4143225 | 426575 | 4143242 | 1949 | 2013 | -1.79 | 0.18 | -0.16 | 0.06 | -0.05 | 0.03 | 3 |
| VCR | 2503 | 426572 | 4143203 | 426548 | 4143232 | 1949 | 2013 | -0.96 | 0.00 | -0.16 | 0.06 | -0.11 | 0.38 | 3 |
| VCR | 2504 | 426523 | 4143207 | 426512 | 4143228 | 1949 | 2013 | 0.06 | -0.03 | -0.01 | 0.06 | -0.02 | 0.66 | 3 |
| VCR | 2505 | 426473 | 4143201 | 426463 | 4143227 | 1949 | 2013 | -0.74 | 0.10 | -0.05 | 0.06 | 0.00 | 0.00 | 3 |
| VCR | 2506 | 426426 | 4143184 | 426414 | 4143209 | 1949 | 2013 | -0.77 | 0.09 | -0.06 | 0.06 | -0.01 | 0.01 | 3 |
| VCR | 2507 | 426387 | 4143154 | 426371 | 4143178 | 1949 | 2013 | -0.73 | 0.01 | -0.11 | 0.06 | -0.07 | 0.32 | 3 |
| VCR | 2508 | 426347 | 4143124 | 426330 | 4143146 | 1949 | 2013 | -0.64 | -0.02 | -0.12 | 0.06 | -0.09 | 0.51 | 3 |
| VCR | 2509 | 426308 | 4143093 | 426284 | 4143115 | 1949 | 2013 | -1.02 | 0.07 | -0.11 | 0.06 | -0.05 | 0.11 | 3 |
| VCR | 2510 | 426270 | 4143061 | 426242 | 4143079 | 1949 | 2013 | -1.19 | 0.11 | -0.11 | 0.06 | -0.04 | 0.05 | 3 |
| VCR | 2511 | 426245 | 4143018 | 426216 | 4143033 | 1949 | 2013 | -1.20 | 0.14 | -0.09 | 0.06 | -0.01 | 0.00 | 3 |
| VCR | 2512 | 426247 | 4142968 | 426203 | 4142989 | 1949 | 2013 | -2.33 | 0.26 | -0.18 | 0.06 | -0.04 | 0.01 | 3 |
| VCR | 2513 | 426233 | 4142921 | 426201 | 4142937 | 1949 | 2013 | -1.40 | 0.11 | -0.15 | 0.06 | -0.06 | 0.08 | 3 |
| VCR | 2514 | 426197 | 4142887 | 426170 | 4142904 | 1949 | 2013 | -0.74 | 0.22 | 0.05 | 0.06 | 0.10 | 0.37 | 3 |
| VCR | 2515 | 426156 | 4142860 | 426131 | 4142879 | 1949 | 2013 | -0.28 | 0.19 | 0.11 | 0.06 | 0.14 | 0.80 | 3 |
| VCR | 2516 | 426115 | 4142831 | 426091 | 4142847 | 1949 | 2013 | -0.63 | 0.17 | 0.03 | 0.06 | 0.08 | 0.31 | 3 |
| VCR | 2517 | 426087 | 4142790 | 426055 | 4142806 | 1949 | 2013 | -1.33 | 0.22 | -0.05 | 0.06 | 0.04 | 0.03 | 3 |
| VCR | 2518 | 426067 | 4142745 | 426035 | 4142760 | 1949 | 2013 | -1.30 | 0.25 | -0.02 | 0.06 | 0.07 | 0.08 | 3 |
| VCR | 2519 | 426048 | 4142699 | 426019 | 4142714 | 1949 | 2013 | -0.85 | 0.24 | 0.06 | 0.06 | 0.12 | 0.35 | 3 |
| VCR | 2520 | 426020 | 4142658 | 425990 | 4142673 | 1949 | 2013 | -1.08 | 0.21 | -0.01 | 0.06 | 0.06 | 0.08 | 3 |
| VCR | 2521 | 425985 | 4142623 | 425961 | 4142634 | 1949 | 2013 | -0.47 | 0.11 | 0.01 | 0.06 | 0.04 | 0.20 | 3 |
| VCR | 2522 | 425966 | 4142578 | 425941 | 4142592 | 1949 | 2013 | -0.63 | -0.01 | -0.12 | 0.06 | -0.08 | 0.48 | 3 |
| VCR | 2523 | 425955 | 4142529 | 425929 | 4142541 | 1949 | 2013 | -0.73 | 0.03 | -0.10 | 0.06 | -0.05 | 0.20 | 3 |
| VCR | 2524 | 425944 | 4142481 | 425915 | 4142490 | 1949 | 2013 | -0.95 | 0.17 | -0.02 | 0.06 | 0.04 | 0.07 | 3 |
| VCR | 2525 | 425926 | 4142434 | 425898 | 4142447 | 1949 | 2013 | -0.06 | 0.19 | 0.15 | 0.06 | 0.16 | 0.95 | 3 |
| VCR | 2526 | 425907 | 4142388 | 425875 | 4142410 | 1949 | 2013 | -0.84 | 0.36 | 0.15 | 0.06 | 0.22 | 0.62 | 3 |
| VCR | 2527 | 425880 | 4142346 | 425853 | 4142374 | 1949 | 2013 | 0.11 | 0.32 | 0.28 | 0.06 | 0.29 | 0.99 | 3 |
| VCR | 2528 | 425836 | 4142324 | 425806 | 4142353 | 1949 | 2013 | 0.27 | 0.27 | 0.27 | 0.06 | 0.27 | 1.00 | 3 |
| VCR | 2529 | 425786 | 4142325 | 425766 | 4142343 | 1949 | 2013 | -0.28 | 0.01 | -0.04 | 0.06 | -0.02 | 0.19 | 3 |
| VCR | 2530 | 425751 | 4142292 | 425732 | 4142312 | 1949 | 2013 | -0.37 | -0.05 | -0.11 | 0.06 | -0.09 | 0.81 | 3 |
| VCR | 2531 | 425736 | 4142244 | 425719 | 4142265 | 1949 | 2013 | -0.11 | 0.02 | 0.00 | 0.06 | 0.00 | 0.03 | 3 |
| VCR | 2532 | 425712 | 4142202 | 425696 | 4142220 | 1949 | 2013 | 0.30 | 0.02 | 0.06 | 0.06 | 0.05 | 0.61 | 3 |
| VCR | 2533 | 425666 | 4142185 | 425651 | 4142206 | 1949 | 2013 | 0.10 | 0.00 | 0.01 | 0.06 | 0.01 | 0.24 | 3 |
| VCR | 2534 | 425620 | 4142169 | 425606 | 4142187 | 1949 | 2013 | 0.22 | -0.06 | -0.01 | 0.06 | -0.03 | 0.30 | 3 |
| VCR | 2535 | 425578 | 4142141 | 425560 | 4142157 | 1949 | 2013 | 0.31 | -0.08 | -0.01 | 0.06 | -0.03 | 0.24 | 3 |
| VCR | 2536 | 425558 | 4142098 | 425530 | 4142107 | 1949 | 2013 | -0.59 | -0.04 | -0.13 | 0.06 | -0.11 | 0.64 | 3 |
| VCR | 2537 | 425578 | 4142053 | 425500 | 4142074 | 1949 | 2013 | -2.61 | 0.13 | -0.34 | 0.06 | -0.19 | 0.19 | 3 |
| VCR | 2538 | 425582 | 4142004 | 425540 | 4142021 | 1949 | 2013 | -2.28 | 0.31 | -0.13 | 0.06 | 0.01 | 0.00 | 3 |
| VCR | 2539 | 425568 | 4141957 | 425548 | 4141977 | 1949 | 2013 | 0.06 | 0.15 | 0.14 | 0.06 | 0.14 | 0.99 | 3 |
| VCR | 2540 | 425522 | 4141945 | 425531 | 4141971 | 1949 | 2013 | 0.36 | 0.06 | 0.11 | 0.06 | 0.10 | 0.84 | 3 |
| VCR | 2541 | 425497 | 4141986 | 425523 | 4142023 | 1949 | 2013 | 1.19 | -0.02 | 0.19 | 0.06 | 0.12 | 0.33 | 3 |
| VCR | 2542 | 425481 | 4142032 | 425505 | 4142069 | 1949 | 2013 | 1.97 | -0.16 | 0.20 | 0.06 | 0.09 | 0.08 | 3 |
| VCR | 2543 | 425456 | 4142073 | 425466 | 4142100 | 1949 | 2013 | 0.57 | -0.15 | -0.03 | 0.06 | -0.07 | 0.29 | 3 |
| VCR | 2544 | 425410 | 4142076 | 425390 | 4142100 | 1949 | 2013 | -0.09 | -0.19 | -0.17 | 0.06 | -0.17 | 0.99 | 3 |
| VCR | 2545 | 425392 | 4142031 | 425365 | 4142036 | 1949 | 2013 | -0.24 | -0.09 | -0.12 | 0.06 | -0.11 | 0.96 | 3 |
| VCR | 2546 | 425405 | 4141983 | 425369 | 4141983 | 1949 | 2013 | -0.45 | -0.17 | -0.22 | 0.06 | -0.20 | 0.96 | 3 |
| VCR | 2547 | 425424 | 4141938 | 425391 | 4141938 | 1949 | 2013 | -0.54 | -0.10 | -0.18 | 0.06 | -0.15 | 0.86 | 3 |
| VCR | 2548 | 425437 | 4141890 | 425405 | 4141890 | 1949 | 2013 | 0.06 | 0.18 | 0.16 | 0.06 | 0.17 | 0.99 | 3 |
| VCR | 2549 | 425430 | 4141842 | 425384 | 4141857 | 1949 | 2013 | 0.15 | 0.50 | 0.44 | 0.06 | 0.46 | 0.99 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2550 | 425407 | 4141797 | 425372 | 4141828 | 1949 | 2013 | 0.00 | 0.24 | 0.20 | 0.06 | 0.22 | 0.97 | 3 |
| VCR | 2551 | 425390 | 4141751 | 425366 | 4141783 | 1949 | 2013 | 1.57 | -0.05 | 0.23 | 0.06 | 0.14 | 0.27 | 3 |
| VCR | 2552 | 425343 | 4141745 | 425325 | 4141778 | 1949 | 2013 | 0.46 | 0.16 | 0.21 | 0.06 | 0.20 | 0.95 | 3 |
| VCR | 2553 | 425294 | 4141750 | 425285 | 4141775 | 1949 | 2013 | -0.60 | 0.07 | -0.04 | 0.06 | -0.01 | 0.01 | 3 |
| VCR | 2554 | 425245 | 4141744 | 425236 | 4141766 | 1949 | 2013 | -0.28 | -0.02 | -0.06 | 0.06 | -0.05 | 0.65 | 3 |
| VCR | 2555 | 425203 | 4141718 | 425186 | 4141749 | 1949 | 2013 | -0.56 | -0.15 | -0.22 | 0.06 | -0.20 | 0.92 | 3 |
| VCR | 2556 | 425183 | 4141694 | 425160 | 4141735 | 1949 | 2013 | -0.40 | -0.40 | -0.40 | 0.06 | -0.40 | 1.00 | 3 |
| VCR | 2557 | 425157 | 4141671 | 425140 | 4141654 | 1949 | 2013 | 0.09 | -0.08 | -0.05 | 0.06 | -0.06 | 0.86 | 3 |
| VCR | 2558 | 425195 | 4141640 | 425177 | 4141622 | 1949 | 2013 | 0.29 | -0.09 | -0.03 | 0.06 | -0.05 | 0.45 | 3 |
| VCR | 2559 | 425230 | 4141604 | 425211 | 4141588 | 1949 | 2013 | 0.26 | -0.09 | -0.03 | 0.06 | -0.05 | 0.48 | 3 |
| VCR | 2560 | 425260 | 4141566 | 425241 | 4141551 | 1949 | 2013 | 0.19 | 0.06 | 0.08 | 0.06 | 0.08 | 0.94 | 3 |
| VCR | 2561 | 425292 | 4141527 | 425263 | 4141508 | 1949 | 2013 | 0.20 | 0.24 | 0.23 | 0.06 | 0.23 | 1.00 | 3 |
| VCR | 2562 | 425326 | 4141491 | 425289 | 4141470 | 1949 | 2013 | -0.36 | 0.41 | 0.28 | 0.06 | 0.32 | 0.90 | 3 |
| VCR | 2563 | 425356 | 4141451 | 425316 | 4141434 | 1949 | 2013 | -0.33 | 0.23 | 0.13 | 0.06 | 0.16 | 0.81 | 3 |
| VCR | 2564 | 425380 | 4141407 | 425353 | 4141400 | 1949 | 2013 | -0.56 | 0.15 | 0.03 | 0.06 | 0.07 | 0.31 | 3 |
| VCR | 2565 | 425400 | 4141361 | 425371 | 4141359 | 1949 | 2013 | 0.08 | 0.14 | 0.13 | 0.06 | 0.13 | 1.00 | 3 |
| VCR | 2566 | 425421 | 4141316 | 425366 | 4141324 | 1949 | 2013 | 0.87 | 0.46 | 0.53 | 0.06 | 0.51 | 0.99 | 3 |
| VCR | 2567 | 425415 | 4141267 | 425364 | 4141286 | 1949 | 2013 | 0.43 | 0.56 | 0.54 | 0.06 | 0.55 | 1.00 | 3 |
| VCR | 2568 | 425394 | 4141222 | 425350 | 4141253 | 1949 | 2013 | 0.65 | 0.51 | 0.53 | 0.06 | 0.53 | 1.00 | 3 |
| VCR | 2569 | 425360 | 4141186 | 425327 | 4141226 | 1949 | 2013 | 0.71 | 0.45 | 0.49 | 0.06 | 0.48 | 0.99 | 3 |
| VCR | 2570 | 425314 | 4141166 | 425296 | 4141205 | 1949 | 2013 | 0.76 | 0.26 | 0.35 | 0.06 | 0.32 | 0.95 | 3 |
| VCR | 2571 | 425264 | 4141168 | 425256 | 4141194 | 1949 | 2013 | 0.45 | 0.02 | 0.10 | 0.06 | 0.07 | 0.59 | 3 |
| VCR | 2572 | 425215 | 4141163 | 425209 | 4141190 | 1949 | 2013 | 0.00 | -0.12 | -0.10 | 0.06 | -0.11 | 0.97 | 3 |
| VCR | 2573 | 425166 | 4141157 | 425159 | 4141183 | 1949 | 2013 | -0.14 | -0.10 | -0.11 | 0.06 | -0.11 | 1.00 | 3 |
| VCR | 2574 | 425119 | 4141142 | 425108 | 4141169 | 1949 | 2013 | 0.48 | 0.07 | 0.14 | 0.06 | 0.11 | 0.79 | 3 |
| VCR | 2575 | 425079 | 4141112 | 425064 | 4141139 | 1949 | 2013 | 0.27 | 0.15 | 0.17 | 0.06 | 0.16 | 0.99 | 3 |
| VCR | 2576 | 425046 | 4141074 | 425028 | 4141090 | 1949 | 2013 | 0.09 | 0.01 | 0.03 | 0.06 | 0.02 | 0.80 | 3 |
| VCR | 2577 | 424998 | 4141072 | 425005 | 4141102 | 1949 | 2013 | 0.30 | 0.12 | 0.16 | 0.06 | 0.15 | 0.95 | 3 |
| VCR | 2578 | 424948 | 4141075 | 424950 | 4141107 | 1949 | 2013 | 0.77 | 0.02 | 0.18 | 0.06 | 0.14 | 0.51 | 3 |
| VCR | 2579 | 424900 | 4141063 | 424900 | 4141099 | 1949 | 2013 | 0.22 | 0.22 | 0.22 | 0.06 | 0.22 | 1.00 | 3 |
| VCR | 2580 | 424803 | 4141050 | 424804 | 4141095 | 1949 | 2013 | 0.10 | 0.41 | 0.34 | 0.06 | 0.36 | 0.98 | 3 |
| VCR | 2581 | 424755 | 4141046 | 424759 | 4141079 | 1949 | 2013 | 0.63 | -0.20 | -0.02 | 0.06 | -0.06 | 0.15 | 3 |
| VCR | 2582 | 424709 | 4141061 | 424712 | 4141094 | 1949 | 2013 | 0.50 | -0.23 | -0.07 | 0.06 | -0.11 | 0.42 | 3 |
| VCR | 2583 | 424663 | 4141082 | 424666 | 4141110 | 1949 | 2013 | 0.47 | -0.14 | -0.01 | 0.06 | -0.04 | 0.13 | 3 |
| VCR | 2584 | 424615 | 4141093 | 424614 | 4141124 | 1949 | 2013 | 0.35 | -0.21 | -0.09 | 0.06 | -0.12 | 0.59 | 3 |
| VCR | 2585 | 424566 | 4141084 | 424556 | 4141115 | 1949 | 2013 | -0.05 | -0.23 | -0.19 | 0.06 | -0.20 | 0.98 | 3 |
| VCR | 2586 | 424522 | 4141061 | 424502 | 4141088 | 1949 | 2013 | -0.02 | -0.25 | -0.20 | 0.06 | -0.21 | 0.96 | 3 |
| VCR | 2587 | 424486 | 4141027 | 424460 | 4141046 | 1949 | 2013 | -0.12 | -0.18 | -0.17 | 0.06 | -0.18 | 1.00 | 3 |
| VCR | 2588 | 424463 | 4140983 | 424436 | 4140995 | 1949 | 2013 | -0.24 | -0.11 | -0.14 | 0.06 | -0.13 | 0.97 | 3 |
| VCR | 2589 | 424446 | 4140936 | 424425 | 4140944 | 1949 | 2013 | -0.15 | 0.02 | -0.01 | 0.06 | 0.00 | 0.02 | 3 |
| VCR | 2590 | 424444 | 4140886 | 424411 | 4140902 | 1949 | 2013 | -0.26 | 0.32 | 0.19 | 0.06 | 0.22 | 0.82 | 3 |
| VCR | 2591 | 424437 | 4140839 | 424399 | 4140869 | 1949 | 2013 | 0.15 | 0.49 | 0.42 | 0.06 | 0.44 | 0.98 | 3 |
| VCR | 2592 | 424394 | 4140817 | 424373 | 4140849 | 1949 | 2013 | 0.62 | 0.14 | 0.25 | 0.06 | 0.22 | 0.87 | 3 |
| VCR | 2593 | 424344 | 4140814 | 424341 | 4140847 | 1949 | 2013 | 0.43 | 0.13 | 0.20 | 0.06 | 0.18 | 0.92 | 3 |
| VCR | 2594 | 424294 | 4140816 | 424312 | 4140848 | 1949 | 2013 | 0.42 | 0.17 | 0.22 | 0.06 | 0.21 | 0.95 | 3 |
| VCR | 2595 | 424258 | 4140846 | 424286 | 4140859 | 1949 | 2013 | 0.52 | 0.05 | 0.15 | 0.06 | 0.13 | 0.69 | 3 |
| VCR | 2596 | 424261 | 4140895 | 424288 | 4140893 | 1949 | 2013 | 0.49 | -0.11 | 0.02 | 0.06 | -0.01 | 0.02 | 3 |
| VCR | 2597 | 424285 | 4140938 | 424311 | 4140928 | 1949 | 2013 | 0.11 | -0.14 | -0.09 | 0.06 | -0.10 | 0.83 | 3 |
| VCR | 2598 | 424316 | 4140976 | 424341 | 4140963 | 1949 | 2013 | -0.08 | -0.13 | -0.12 | 0.06 | -0.12 | 1.00 | 3 |
| VCR | 2599 | 424337 | 4141022 | 424370 | 4141011 | 1949 | 2013 | 0.26 | -0.26 | -0.15 | 0.06 | -0.18 | 0.78 | 3 |
| VCR | 2600 | 424347 | 4141070 | 424384 | 4141069 | 1949 | 2013 | 0.46 | -0.31 | -0.14 | 0.06 | -0.19 | 0.64 | 3 |
| VCR | 2601 | 424341 | 4141118 | 424379 | 4141117 | 1949 | 2013 | 0.68 | -0.31 | -0.09 | 0.06 | -0.15 | 0.41 | 3 |
| VCR | 2602 | 424315 | 4141159 | 424354 | 4141155 | 1949 | 2013 | 0.84 | -0.09 | 0.12 | 0.06 | 0.07 | 0.13 | 3 |
| VCR | 2603 | 424314 | 4141207 | 424355 | 4141209 | 1949 | 2013 | 0.31 | -0.21 | -0.10 | 0.06 | -0.13 | 0.66 | 3 |
| VCR | 2604 | 424351 | 4141240 | 424397 | 4141244 | 1949 | 2013 | 0.32 | -0.30 | -0.17 | 0.06 | -0.20 | 0.76 | 3 |
| VCR | 2605 | 424372 | 4141284 | 424412 | 4141294 | 1949 | 2013 | 0.36 | -0.39 | -0.23 | 0.06 | -0.27 | 0.80 | 3 |
| VCR | 2606 | 424344 | 4141322 | 424371 | 4141349 | 1949 | 2013 | 0.50 | -0.33 | -0.15 | 0.06 | -0.20 | 0.64 | 3 |
| VCR | 2607 | 424299 | 4141341 | 424312 | 4141374 | 1949 | 2013 | 0.43 | -0.27 | -0.12 | 0.06 | -0.16 | 0.62 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2608 | 425114 | 4141087 | 425131 | 4141054 | 1949 | 2013 | -0.27 | -0.27 | -0.27 | 0.06 | -0.27 | 1.00 | 3 |
| VCR | 2609 | 425162 | 4141103 | 425178 | 4141068 | 1949 | 2013 | -0.02 | -0.34 | -0.28 | 0.06 | -0.30 | 0.98 | 3 |
| VCR | 2610 | 425209 | 4141118 | 425223 | 4141077 | 1949 | 2013 | 0.22 | -0.42 | -0.31 | 0.06 | -0.35 | 0.94 | 3 |
| VCR | 2611 | 425257 | 4141132 | 425272 | 4141089 | 1949 | 2013 | -0.19 | -0.43 | -0.39 | 0.06 | -0.40 | 0.99 | 3 |
| VCR | 2612 | 425304 | 4141147 | 425326 | 4141107 | 1949 | 2013 | 0.15 | -0.48 | -0.37 | 0.06 | -0.41 | 0.95 | 3 |
| VCR | 2613 | 425345 | 4141173 | 425376 | 4141137 | 1949 | 2013 | 0.21 | -0.52 | -0.40 | 0.06 | -0.44 | 0.95 | 3 |
| VCR | 2614 | 425378 | 4141210 | 425418 | 4141183 | 1949 | 2013 | 0.32 | -0.51 | -0.37 | 0.06 | -0.42 | 0.92 | 3 |
| VCR | 2615 | 425403 | 4141253 | 425445 | 4141238 | 1949 | 2013 | 0.12 | -0.47 | -0.37 | 0.06 | -0.41 | 0.96 | 3 |
| VCR | 2616 | 425410 | 4141302 | 425458 | 4141296 | 1949 | 2013 | 0.36 | -0.54 | -0.39 | 0.06 | -0.44 | 0.92 | 3 |
| VCR | 2617 | 425417 | 4141352 | 425457 | 4141354 | 1949 | 2013 | -0.18 | -0.35 | -0.32 | 0.06 | -0.33 | 1.00 | 3 |
| VCR | 2618 | 425419 | 4141401 | 425451 | 4141408 | 1949 | 2013 | -0.47 | -0.14 | -0.20 | 0.06 | -0.18 | 0.93 | 3 |
| VCR | 2619 | 425369 | 4141485 | 425407 | 4141512 | 1949 | 2013 | -0.24 | NA | NA | 0.37 | -0.24 | 0.00 | 3 |
| VCR | 2620 | 425328 | 4141513 | 425372 | 4141555 | 1949 | 2013 | -3.57 | 0.54 | -0.16 | 0.06 | 0.06 | 0.01 | 3 |
| VCR | 2621 | 425297 | 4141551 | 425323 | 4141574 | 1949 | 2013 | -0.81 | -0.04 | -0.17 | 0.06 | -0.13 | 0.57 | 3 |
| VCR | 2622 | 425270 | 4141592 | 425293 | 4141616 | 1949 | 2013 | 0.12 | -0.26 | -0.19 | 0.06 | -0.21 | 0.94 | 3 |
| VCR | 2623 | 425204 | 4141663 | 425223 | 4141687 | 1949 | 2013 | -0.31 | 0.00 | -0.05 | 0.06 | -0.03 | 0.37 | 3 |
| VCR | 2624 | 425162 | 4141688 | 425190 | 4141735 | 1949 | 2013 | -0.92 | NA | NA | 0.37 | -0.92 | 0.00 | 3 |
| VCR | 2625 | 425221 | 4141728 | 425230 | 4141705 | 1949 | 2013 | 0.32 | -0.07 | 0.00 | 0.06 | -0.02 | 0.14 | 3 |
| VCR | 2626 | 425270 | 4141737 | 425276 | 4141710 | 1949 | 2013 | NA | NA | -0.03 | 0.06 | -0.03 | 0.00 | 3 |
| VCR | 2627 | 425317 | 4141749 | 425331 | 4141709 | 1949 | 2013 | 0.38 | -0.39 | -0.26 | 0.06 | -0.30 | 0.88 | 3 |
| VCR | 2628 | 425366 | 4141747 | 425385 | 4141714 | 1949 | 2013 | -0.28 | -0.30 | -0.30 | 0.06 | -0.30 | 1.00 | 3 |
| VCR | 2629 | 425402 | 4141777 | 425430 | 4141752 | 1949 | 2013 | 0.55 | -0.32 | -0.17 | 0.06 | -0.22 | 0.75 | 3 |
| VCR | 2630 | 425408 | 4141826 | 425444 | 4141816 | 1949 | 2013 | -0.16 | -0.28 | -0.26 | 0.06 | -0.27 | 1.00 | 3 |
| VCR | 2631 | 425422 | 4141872 | 425465 | 4141875 | 1949 | 2013 | -0.10 | -0.33 | -0.29 | 0.06 | -0.30 | 0.99 | 3 |
| VCR | 2632 | 425432 | 4141916 | 425460 | 4141921 | 1949 | 2013 | 0.46 | -0.16 | -0.05 | 0.06 | -0.08 | 0.47 | 3 |
| VCR | 2633 | 425404 | 4141955 | 425446 | 4141964 | 1949 | 2013 | 0.64 | 0.27 | 0.34 | 0.06 | 0.32 | 0.97 | 3 |
| VCR | 2634 | 425387 | 4142002 | 425427 | 4142002 | 1949 | 2013 | 0.64 | 0.21 | 0.29 | 0.06 | 0.26 | 0.95 | 3 |
| VCR | 2635 | 425392 | 4142051 | 425418 | 4142041 | 1949 | 2013 | 0.35 | 0.08 | 0.12 | 0.06 | 0.11 | 0.89 | 3 |
| VCR | 2636 | 425420 | 4142091 | 425428 | 4142061 | 1949 | 2013 | -0.38 | 0.20 | 0.10 | 0.06 | 0.13 | 0.72 | 3 |
| VCR | 2637 | 425465 | 4142074 | 425445 | 4142047 | 1949 | 2013 | -0.79 | -0.03 | -0.16 | 0.06 | -0.12 | 0.54 | 3 |
| VCR | 2638 | 425486 | 4142030 | 425439 | 4141979 | 1949 | 2013 | -1.02 | -0.10 | -0.26 | 0.06 | -0.21 | 0.72 | 3 |
| VCR | 2639 | 425501 | 4141983 | 425455 | 4141930 | 1949 | 2013 | -0.63 | -0.27 | -0.33 | 0.06 | -0.31 | 0.97 | 3 |
| VCR | 2640 | 425536 | 4141950 | 425531 | 4141916 | 1949 | 2013 | -0.32 | -0.22 | -0.23 | 0.06 | -0.23 | 1.00 | 3 |
| VCR | 2641 | 425569 | 4141981 | 425601 | 4141962 | 1949 | 2013 | 0.35 | -0.32 | -0.20 | 0.06 | -0.24 | 0.86 | 3 |
| VCR | 2642 | 425581 | 4142029 | 425607 | 4142022 | 1949 | 2013 | 0.14 | -0.08 | -0.05 | 0.06 | -0.06 | 0.77 | 3 |
| VCR | 2643 | 425560 | 4142073 | 425600 | 4142066 | 1949 | 2013 | 1.31 | 0.05 | 0.26 | 0.06 | 0.20 | 0.54 | 3 |
| VCR | 2644 | 425559 | 4142120 | 425582 | 4142113 | 1949 | 2013 | 0.32 | -0.06 | 0.00 | 0.06 | -0.02 | 0.08 | 3 |
| VCR | 2645 | 425592 | 4142157 | 425615 | 4142141 | 1949 | 2013 | -0.50 | 0.02 | -0.07 | 0.06 | -0.04 | 0.24 | 3 |
| VCR | 2646 | 425637 | 4142177 | 425659 | 4142156 | 1949 | 2013 | -0.38 | -0.06 | -0.11 | 0.06 | -0.10 | 0.81 | 3 |
| VCR | 2647 | 425684 | 4142194 | 425708 | 4142172 | 1949 | 2013 | -0.56 | -0.09 | -0.17 | 0.06 | -0.14 | 0.82 | 3 |
| VCR | 2648 | 425722 | 4142223 | 425745 | 4142204 | 1949 | 2013 | 0.35 | -0.17 | -0.08 | 0.06 | -0.11 | 0.69 | 3 |
| VCR | 2649 | 425741 | 4142269 | 425762 | 4142246 | 1949 | 2013 | 0.65 | -0.05 | 0.07 | 0.06 | 0.03 | 0.10 | 3 |
| VCR | 2650 | 425755 | 4142316 | 425780 | 4142291 | 1949 | 2013 | -0.84 | 0.29 | 0.09 | 0.06 | 0.15 | 0.48 | 3 |
| VCR | 2651 | 425802 | 4142332 | 425827 | 4142306 | 1949 | 2013 | -0.25 | -0.17 | -0.19 | 0.06 | -0.18 | 1.00 | 3 |
| VCR | 2652 | 425848 | 4142350 | 425874 | 4142322 | 1949 | 2013 | -0.03 | -0.32 | -0.28 | 0.06 | -0.29 | 0.98 | 3 |
| VCR | 2653 | 425883 | 4142382 | 425909 | 4142358 | 1949 | 2013 | 0.62 | -0.27 | -0.12 | 0.06 | -0.16 | 0.63 | 3 |
| VCR | 2654 | 425902 | 4142428 | 425933 | 4142412 | 1949 | 2013 | 0.96 | -0.28 | -0.07 | 0.06 | -0.14 | 0.38 | 3 |
| VCR | 2655 | 425927 | 4142471 | 425956 | 4142463 | 1949 | 2013 | 0.73 | -0.19 | -0.03 | 0.06 | -0.08 | 0.27 | 3 |
| VCR | 2656 | 425943 | 4142518 | 425974 | 4142506 | 1949 | 2013 | 1.10 | -0.04 | 0.15 | 0.06 | 0.09 | 0.24 | 3 |
| VCR | 2657 | 425952 | 4142567 | 425983 | 4142553 | 1949 | 2013 | 0.94 | 0.08 | 0.22 | 0.06 | 0.18 | 0.67 | 3 |
| VCR | 2658 | 425968 | 4142613 | 425992 | 4142599 | 1949 | 2013 | 0.63 | -0.04 | 0.07 | 0.06 | 0.04 | 0.12 | 3 |
| VCR | 2659 | 425999 | 4142652 | 426026 | 4142636 | 1949 | 2013 | 0.99 | -0.16 | 0.04 | 0.06 | -0.02 | 0.02 | 3 |
| VCR | 2660 | 426032 | 4142689 | 426056 | 4142674 | 1949 | 2013 | 0.78 | -0.15 | 0.01 | 0.06 | -0.04 | 0.08 | 3 |
| VCR | 2661 | 426054 | 4142734 | 426082 | 4142716 | 1949 | 2013 | 1.19 | -0.14 | 0.09 | 0.06 | 0.02 | 0.01 | 3 |
| VCR | 2662 | 426072 | 4142780 | 426101 | 4142760 | 1949 | 2013 | 1.34 | -0.10 | 0.14 | 0.06 | 0.07 | 0.09 | 3 |
| VCR | 2663 | 426102 | 4142820 | 426123 | 4142803 | 1949 | 2013 | 0.63 | -0.01 | 0.10 | 0.06 | 0.07 | 0.36 | 3 |
| VCR | 2664 | 426138 | 4142854 | 426159 | 4142835 | 1949 | 2013 | 0.76 | -0.07 | 0.07 | 0.06 | 0.03 | 0.05 | 3 |
| VCR | 2665 | 426180 | 4142878 | 426201 | 4142860 | 1949 | 2013 | 0.42 | -0.06 | 0.02 | 0.06 | -0.01 | 0.01 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2666 | 426216 | 4142909 | 426242 | 4142890 | 1949 | 2013 | 1.07 | -0.02 | 0.17 | 0.06 | 0.11 | 0.33 | 3 |
| VCR | 2667 | 426233 | 4142955 | 426269 | 4142934 | 1949 | 2013 | 1.91 | -0.02 | 0.31 | 0.06 | 0.21 | 0.36 | 3 |
| VCR | 2668 | 426239 | 4143004 | 426276 | 4142985 | 1949 | 2013 | 1.59 | 0.02 | 0.29 | 0.06 | 0.20 | 0.45 | 3 |
| VCR | 2669 | 426255 | 4143051 | 426284 | 4143034 | 1949 | 2013 | 1.22 | 0.00 | 0.21 | 0.06 | 0.14 | 0.39 | 3 |
| VCR | 2670 | 426291 | 4143086 | 426312 | 4143069 | 1949 | 2013 | 0.23 | 0.07 | 0.10 | 0.06 | 0.09 | 0.93 | 3 |
| VCR | 2671 | 426331 | 4143116 | 426351 | 4143092 | 1949 | 2013 | 0.30 | 0.15 | 0.17 | 0.06 | 0.16 | 0.98 | 3 |
| VCR | 2672 | 426369 | 4143148 | 426385 | 4143116 | 1949 | 2013 | 1.17 | 0.04 | 0.23 | 0.06 | 0.17 | 0.52 | 3 |
| VCR | 2673 | 426411 | 4143174 | 426423 | 4143144 | 1949 | 2013 | 0.68 | 0.08 | 0.18 | 0.06 | 0.15 | 0.74 | 3 |
| VCR | 2674 | 426508 | 4143194 | 426526 | 4143152 | 1949 | 2013 | -2.35 | 0.25 | -0.19 | 0.06 | -0.05 | 0.02 | 3 |
| VCR | 2675 | 426558 | 4143197 | 426590 | 4143158 | 1949 | 2013 | -1.49 | 0.48 | 0.14 | 0.06 | 0.25 | 0.44 | 3 |
| VCR | 2676 | 426606 | 4143201 | 426651 | 4143191 | 1949 | 2013 | 0.62 | 0.29 | 0.35 | 0.06 | 0.33 | 0.98 | 3 |
| VCR | 2677 | 426622 | 4143240 | 426652 | 4143248 | 1949 | 2013 | -0.10 | -0.18 | -0.16 | 0.06 | -0.17 | 1.00 | 3 |
| VCR | 2678 | 426593 | 4143280 | 426623 | 4143292 | 1949 | 2013 | 0.22 | -0.22 | -0.15 | 0.06 | -0.17 | 0.88 | 3 |
| VCR | 2679 | 426566 | 4143322 | 426596 | 4143329 | 1949 | 2013 | -0.06 | -0.14 | -0.13 | 0.06 | -0.13 | 0.99 | 3 |
| VCR | 2680 | 426547 | 4143367 | 426576 | 4143364 | 1949 | 2013 | 0.22 | 0.12 | 0.14 | 0.06 | 0.13 | 0.99 | 3 |
| VCR | 2681 | 426559 | 4143415 | 426591 | 4143396 | 1949 | 2013 | 1.26 | 0.06 | 0.26 | 0.06 | 0.20 | 0.58 | 3 |
| VCR | 2682 | 426596 | 4143447 | 426617 | 4143416 | 1949 | 2013 | 0.89 | 0.14 | 0.26 | 0.06 | 0.22 | 0.81 | 3 |
| VCR | 2683 | 426642 | 4143467 | 426650 | 4143430 | 1949 | 2013 | 0.69 | 0.18 | 0.27 | 0.06 | 0.24 | 0.92 | 3 |
| VCR | 2684 | 426691 | 4143469 | 426689 | 4143431 | 1949 | 2013 | 0.67 | 0.17 | 0.26 | 0.06 | 0.23 | 0.91 | 3 |
| VCR | 2685 | 426735 | 4143446 | 426730 | 4143413 | 1949 | 2013 | 0.86 | 0.04 | 0.18 | 0.06 | 0.13 | 0.56 | 3 |
| VCR | 2686 | 426781 | 4143426 | 426774 | 4143395 | 1949 | 2013 | 0.77 | 0.05 | 0.17 | 0.06 | 0.13 | 0.62 | 3 |
| VCR | 2687 | 426830 | 4143419 | 426825 | 4143383 | 1949 | 2013 | 0.83 | 0.12 | 0.24 | 0.06 | 0.21 | 0.81 | 3 |
| VCR | 2688 | 426879 | 4143417 | 426884 | 4143378 | 1949 | 2013 | 1.29 | 0.08 | 0.29 | 0.06 | 0.22 | 0.63 | 3 |
| VCR | 2689 | 426927 | 4143427 | 426942 | 4143394 | 1949 | 2013 | 1.48 | -0.12 | 0.16 | 0.06 | 0.07 | 0.08 | 3 |
| VCR | 2690 | 426974 | 4143444 | 426991 | 4143419 | 1949 | 2013 | 0.92 | -0.02 | 0.14 | 0.06 | 0.09 | 0.29 | 3 |
| VCR | 2691 | 427004 | 4143483 | 427029 | 4143459 | 1949 | 2013 | 1.35 | -0.22 | 0.05 | 0.06 | -0.04 | 0.02 | 3 |
| VCR | 2692 | 427031 | 4143523 | 427065 | 4143509 | 1949 | 2013 | 1.07 | -0.30 | -0.06 | 0.06 | -0.14 | 0.33 | 3 |
| VCR | 2693 | 427054 | 4143567 | 427095 | 4143565 | 1949 | 2013 | 0.51 | -0.37 | -0.22 | 0.06 | -0.26 | 0.82 | 3 |
| VCR | 2694 | 427063 | 4143614 | 427098 | 4143629 | 1949 | 2013 | -0.43 | -0.26 | -0.29 | 0.06 | -0.28 | 0.99 | 3 |
| VCR | 2695 | 427027 | 4143645 | 427048 | 4143678 | 1949 | 2013 | -0.42 | -0.26 | -0.29 | 0.06 | -0.28 | 0.99 | 3 |
| VCR | 2696 | 426981 | 4143662 | 426985 | 4143704 | 1949 | 2013 | -0.49 | -0.32 | -0.35 | 0.06 | -0.34 | 0.99 | 3 |
| VCR | 2697 | 426885 | 4143661 | 426876 | 4143683 | 1949 | 2013 | -0.31 | -0.01 | -0.06 | 0.06 | -0.05 | 0.52 | 3 |
| VCR | 2698 | 426838 | 4143643 | 426825 | 4143665 | 1949 | 2013 | -0.54 | 0.07 | -0.03 | 0.06 | 0.00 | 0.00 | 3 |
| VCR | 2699 | 426797 | 4143615 | 426788 | 4143640 | 1949 | 2013 | -0.37 | -0.05 | -0.10 | 0.06 | -0.09 | 0.79 | 3 |
| VCR | 2700 | 426753 | 4143592 | 426747 | 4143617 | 1949 | 2013 | -0.38 | -0.02 | -0.08 | 0.06 | -0.06 | 0.55 | 3 |
| VCR | 2701 | 426705 | 4143577 | 426706 | 4143605 | 1949 | 2013 | 0.24 | 0.09 | 0.12 | 0.06 | 0.11 | 0.97 | 3 |
| VCR | 2702 | 426657 | 4143567 | 426667 | 4143611 | 1949 | 2013 | -0.06 | 0.37 | 0.30 | 0.06 | 0.32 | 0.96 | 3 |
| VCR | 2703 | 425799 | 4140632 | 425757 | 4140636 | 1949 | 2013 | -1.54 | -0.10 | -0.34 | 0.06 | -0.26 | 0.62 | 3 |
| VCR | 2704 | 425799 | 4140682 | 425766 | 4140694 | 1949 | 2013 | -1.30 | 0.01 | -0.22 | 0.06 | -0.15 | 0.38 | 3 |
| VCR | 2705 | 425809 | 4140731 | 425782 | 4140742 | 1949 | 2013 | -0.79 | 0.15 | -0.01 | 0.06 | 0.04 | 0.07 | 3 |
| VCR | 2706 | 425842 | 4140768 | 425810 | 4140777 | 1949 | 2013 | 0.23 | 0.16 | 0.17 | 0.06 | 0.17 | 1.00 | 3 |
| VCR | 2707 | 425867 | 4140770 | 425881 | 4140749 | 1949 | 2013 | -0.08 | -0.07 | -0.07 | 0.06 | -0.07 | 1.00 | 3 |
| VCR | 2708 | 425837 | 4140732 | 425865 | 4140710 | 1949 | 2013 | 1.27 | 0.01 | 0.23 | 0.06 | 0.16 | 0.44 | 3 |
| VCR | 2709 | 425813 | 4140688 | 425859 | 4140677 | 1949 | 2013 | 1.66 | 0.18 | 0.43 | 0.06 | 0.35 | 0.74 | 3 |
| VCR | 2710 | 425801 | 4140640 | 425850 | 4140627 | 1949 | 2013 | 1.21 | 0.32 | 0.47 | 0.06 | 0.43 | 0.92 | 3 |
| VCR | 2711 | 427895 | 4141550 | 427867 | 4141517 | 1949 | 2013 | 0.85 | 0.25 | 0.35 | 0.06 | 0.32 | 0.93 | 3 |
| VCR | 2712 | 427918 | 4141506 | 427888 | 4141477 | 1949 | 2013 | 0.50 | 0.30 | 0.33 | 0.06 | 0.32 | 0.99 | 3 |
| VCR | 2713 | 427941 | 4141461 | 427907 | 4141438 | 1949 | 2013 | 0.88 | 0.23 | 0.34 | 0.06 | 0.30 | 0.91 | 3 |
| VCR | 2714 | 427965 | 4141417 | 427930 | 4141401 | 1949 | 2013 | 1.00 | 0.14 | 0.29 | 0.06 | 0.24 | 0.80 | 3 |
| VCR | 2715 | 427988 | 4141373 | 427956 | 4141363 | 1949 | 2013 | 0.78 | 0.08 | 0.20 | 0.06 | 0.16 | 0.73 | 3 |
| VCR | 2716 | 428010 | 4141328 | 427974 | 4141326 | 1949 | 2013 | 0.54 | 0.17 | 0.23 | 0.06 | 0.21 | 0.94 | 3 |
| VCR | 2717 | 428016 | 4141280 | 427974 | 4141291 | 1949 | 2013 | 0.13 | 0.42 | 0.37 | 0.06 | 0.38 | 0.99 | 3 |
| VCR | 2718 | 427992 | 4141237 | 427956 | 4141257 | 1949 | 2013 | -0.01 | 0.39 | 0.32 | 0.06 | 0.34 | 0.97 | 3 |
| VCR | 2719 | 427958 | 4141200 | 427924 | 4141228 | 1949 | 2013 | -0.59 | 0.43 | 0.25 | 0.06 | 0.31 | 0.82 | 3 |
| VCR | 2720 | 427919 | 4141168 | 427895 | 4141194 | 1949 | 2013 | -0.10 | 0.28 | 0.22 | 0.06 | 0.24 | 0.95 | 3 |
| VCR | 2721 | 427878 | 4141140 | 427857 | 4141159 | 1949 | 2013 | -0.40 | 0.16 | 0.07 | 0.06 | 0.10 | 0.59 | 3 |
| VCR | 2722 | 427842 | 4141105 | 427822 | 4141121 | 1949 | 2013 | -0.46 | 0.11 | 0.01 | 0.06 | 0.05 | 0.24 | 3 |
| VCR | 2723 | 427812 | 4141066 | 427789 | 4141083 | 1949 | 2013 | -0.17 | 0.16 | 0.11 | 0.06 | 0.12 | 0.87 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2724 | 427783 | 4141025 | 427759 | 4141043 | 1949 | 2013 | -0.48 | 0.18 | 0.07 | 0.06 | 0.10 | 0.55 | 3 |
| VCR | 2725 | 427758 | 4140982 | 427732 | 4140997 | 1949 | 2013 | 0.07 | 0.17 | 0.15 | 0.06 | 0.16 | 0.99 | 3 |
| VCR | 2726 | 427731 | 4140941 | 427703 | 4140959 | 1949 | 2013 | NA | NA | -0.18 | 0.06 | -0.18 | 0.00 | 3 |
| VCR | 2727 | 427712 | 4140895 | 427688 | 4140909 | 1949 | 2013 | -0.14 | -0.10 | -0.11 | 0.06 | -0.11 | 1.00 | 3 |
| VCR | 2728 | 427697 | 4140847 | 427671 | 4140858 | 1949 | 2013 | -0.79 | 0.10 | -0.05 | 0.06 | 0.00 | 0.00 | 3 |
| VCR | 2729 | 427681 | 4140800 | 427655 | 4140809 | 1949 | 2013 | -0.62 | 0.09 | -0.03 | 0.06 | 0.01 | 0.01 | 3 |
| VCR | 2730 | 427642 | 4140709 | 427618 | 4140716 | 1949 | 2013 | 0.35 | 0.03 | 0.09 | 0.06 | 0.07 | 0.70 | 3 |
| VCR | 2731 | 427622 | 4140663 | 427597 | 4140672 | 1949 | 2013 | 0.33 | 0.05 | 0.10 | 0.06 | 0.08 | 0.80 | 3 |
| VCR | 2732 | 427602 | 4140617 | 427578 | 4140627 | 1949 | 2013 | 0.14 | 0.09 | 0.10 | 0.06 | 0.09 | 0.99 | 3 |
| VCR | 2733 | 427588 | 4140569 | 427564 | 4140576 | 1949 | 2013 | -0.13 | 0.10 | 0.06 | 0.06 | 0.07 | 0.83 | 3 |
| VCR | 2734 | 427585 | 4140519 | 427550 | 4140528 | 1949 | 2013 | 0.12 | 0.27 | 0.24 | 0.06 | 0.25 | 0.99 | 3 |
| VCR | 2735 | 427589 | 4140470 | 427538 | 4140482 | 1949 | 2013 | -0.50 | 0.59 | 0.40 | 0.06 | 0.46 | 0.90 | 3 |
| VCR | 2736 | 427590 | 4140420 | 427531 | 4140431 | 1949 | 2013 | -0.45 | 0.75 | 0.55 | 0.06 | 0.61 | 0.93 | 3 |
| VCR | 2737 | 427591 | 4140370 | 427530 | 4140383 | 1949 | 2013 | -0.19 | 0.79 | 0.63 | 0.06 | 0.68 | 0.96 | 3 |
| VCR | 2738 | 427584 | 4140320 | 427520 | 4140339 | 1949 | 2013 | -0.40 | 0.88 | 0.66 | 0.06 | 0.73 | 0.94 | 3 |
| VCR | 2739 | 427568 | 4140273 | 427508 | 4140295 | 1949 | 2013 | -0.31 | 0.82 | 0.63 | 0.06 | 0.69 | 0.95 | 3 |
| VCR | 2740 | 427548 | 4140227 | 427489 | 4140259 | 1949 | 2013 | -0.59 | 0.87 | 0.62 | 0.06 | 0.70 | 0.92 | 3 |
| VCR | 2741 | 427519 | 4140187 | 427471 | 4140221 | 1949 | 2013 | -0.06 | 0.72 | 0.58 | 0.06 | 0.63 | 0.97 | 3 |
| VCR | 2742 | 427484 | 4140150 | 427444 | 4140192 | 1949 | 2013 | -0.22 | 0.72 | 0.56 | 0.06 | 0.61 | 0.95 | 3 |
| VCR | 2743 | 427446 | 4140119 | 427411 | 4140173 | 1949 | 2013 | 0.42 | 0.75 | 0.69 | 0.06 | 0.71 | 1.00 | 3 |
| VCR | 2744 | 427401 | 4140098 | 427373 | 4140157 | 1949 | 2013 | 0.49 | 0.75 | 0.71 | 0.06 | 0.72 | 1.00 | 3 |
| VCR | 2745 | 427352 | 4140089 | 427332 | 4140144 | 1949 | 2013 | 0.53 | 0.62 | 0.61 | 0.06 | 0.61 | 1.00 | 3 |
| VCR | 2746 | 427302 | 4140092 | 427292 | 4140131 | 1949 | 2013 | 0.28 | 0.31 | 0.31 | 0.06 | 0.31 | 1.00 | 3 |
| VCR | 2747 | 427252 | 4140096 | 427247 | 4140120 | 1949 | 2013 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 1.00 | 3 |
| VCR | 2748 | 427203 | 4140091 | 427198 | 4140112 | 1949 | 2013 | -0.01 | -0.04 | -0.03 | 0.06 | -0.03 | 0.99 | 3 |
| VCR | 2749 | 427154 | 4140082 | 427147 | 4140104 | 1949 | 2013 | -0.01 | -0.05 | -0.05 | 0.06 | -0.05 | 0.98 | 3 |
| VCR | 2750 | 427108 | 4140061 | 427097 | 4140090 | 1949 | 2013 | -0.37 | -0.14 | -0.18 | 0.06 | -0.16 | 0.96 | 3 |
| VCR | 2751 | 427065 | 4140035 | 427048 | 4140067 | 1949 | 2013 | -0.81 | -0.15 | -0.26 | 0.06 | -0.23 | 0.85 | 3 |
| VCR | 2752 | 427025 | 4140006 | 427001 | 4140037 | 1949 | 2013 | -0.62 | -0.24 | -0.30 | 0.06 | -0.28 | 0.96 | 3 |
| VCR | 2753 | 426992 | 4139969 | 426961 | 4139996 | 1949 | 2013 | -1.30 | -0.14 | -0.34 | 0.06 | -0.28 | 0.73 | 3 |
| VCR | 2754 | 426962 | 4139930 | 426930 | 4139952 | 1949 | 2013 | -1.08 | -0.14 | -0.30 | 0.06 | -0.25 | 0.77 | 3 |
| VCR | 2755 | 426946 | 4139882 | 426904 | 4139897 | 1949 | 2013 | -1.39 | -0.18 | -0.38 | 0.06 | -0.32 | 0.77 | 3 |
| VCR | 2756 | 426915 | 4139874 | 426982 | 4139869 | 1949 | 2013 | 1.24 | 0.62 | 0.72 | 0.06 | 0.69 | 0.98 | 3 |
| VCR | 2757 | 426935 | 4139919 | 426989 | 4139892 | 1949 | 2013 | 1.06 | 0.54 | 0.63 | 0.06 | 0.60 | 0.99 | 3 |
| VCR | 2758 | 426961 | 4139962 | 427012 | 4139928 | 1949 | 2013 | 0.77 | 0.63 | 0.66 | 0.06 | 0.65 | 1.00 | 3 |
| VCR | 2759 | 426993 | 4140000 | 427039 | 4139952 | 1949 | 2013 | 0.80 | 0.70 | 0.72 | 0.06 | 0.71 | 1.00 | 3 |
| VCR | 2760 | 427031 | 4140032 | 427071 | 4139973 | 1949 | 2013 | 0.50 | 0.87 | 0.81 | 0.06 | 0.83 | 1.00 | 3 |
| VCR | 2761 | 427075 | 4140057 | 427105 | 4139993 | 1949 | 2013 | 0.14 | 0.92 | 0.79 | 0.06 | 0.83 | 0.98 | 3 |
| VCR | 2762 | 427122 | 4140074 | 427145 | 4140010 | 1949 | 2013 | 0.21 | 0.86 | 0.75 | 0.06 | 0.79 | 0.99 | 3 |
| VCR | 2763 | 427170 | 4140085 | 427188 | 4140021 | 1949 | 2013 | 0.42 | 0.79 | 0.72 | 0.06 | 0.74 | 1.00 | 3 |
| VCR | 2764 | 427220 | 4140091 | 427233 | 4140032 | 1949 | 2013 | 0.55 | 0.63 | 0.62 | 0.06 | 0.62 | 1.00 | 3 |
| VCR | 2765 | 427270 | 4140092 | 427283 | 4140045 | 1949 | 2013 | -0.09 | 0.52 | 0.42 | 0.06 | 0.45 | 0.96 | 3 |
| VCR | 2766 | 427319 | 4140086 | 427329 | 4140057 | 1949 | 2013 | 0.20 | 0.14 | 0.15 | 0.06 | 0.15 | 1.00 | 3 |
| VCR | 2767 | 427368 | 4140090 | 427378 | 4140066 | 1949 | 2013 | -0.46 | 0.03 | -0.05 | 0.06 | -0.03 | 0.14 | 3 |
| VCR | 2768 | 427413 | 4140109 | 427427 | 4140086 | 1949 | 2013 | 0.02 | -0.14 | -0.11 | 0.06 | -0.12 | 0.96 | 3 |
| VCR | 2769 | 427454 | 4140137 | 427473 | 4140113 | 1949 | 2013 | 0.03 | -0.20 | -0.16 | 0.06 | -0.17 | 0.97 | 3 |
| VCR | 2770 | 427489 | 4140172 | 427513 | 4140149 | 1949 | 2013 | 0.19 | -0.24 | -0.17 | 0.06 | -0.19 | 0.90 | 3 |
| VCR | 2771 | 427522 | 4140209 | 427548 | 4140191 | 1949 | 2013 | 0.10 | -0.21 | -0.16 | 0.06 | -0.17 | 0.94 | 3 |
| VCR | 2772 | 427546 | 4140252 | 427576 | 4140238 | 1949 | 2013 | 0.24 | -0.24 | -0.16 | 0.06 | -0.19 | 0.88 | 3 |
| VCR | 2773 | 427563 | 4140299 | 427594 | 4140288 | 1949 | 2013 | 0.67 | -0.24 | -0.09 | 0.06 | -0.14 | 0.53 | 3 |
| VCR | 2774 | 427576 | 4140347 | 427607 | 4140340 | 1949 | 2013 | 0.55 | -0.20 | -0.07 | 0.06 | -0.12 | 0.53 | 3 |
| VCR | 2775 | 427590 | 4140395 | 427612 | 4140390 | 1949 | 2013 | 0.24 | -0.05 | 0.00 | 0.06 | -0.02 | 0.17 | 3 |
| VCR | 2776 | 427591 | 4140445 | 427618 | 4140439 | 1949 | 2013 | 0.41 | 0.06 | 0.12 | 0.06 | 0.10 | 0.80 | 3 |
| VCR | 2777 | 427586 | 4140494 | 427625 | 4140486 | 1949 | 2013 | -0.02 | 0.35 | 0.29 | 0.06 | 0.31 | 0.97 | 3 |
| VCR | 2778 | 427586 | 4140544 | 427637 | 4140530 | 1949 | 2013 | -0.13 | 0.61 | 0.48 | 0.06 | 0.52 | 0.96 | 3 |
| VCR | 2779 | 427596 | 4140593 | 427650 | 4140574 | 1949 | 2013 | 0.00 | 0.71 | 0.59 | 0.06 | 0.63 | 0.97 | 3 |
| VCR | 2780 | 427633 | 4140685 | 427689 | 4140663 | 1949 | 2013 | 0.47 | 0.64 | 0.61 | 0.06 | 0.62 | 1.00 | 3 |
| VCR | 2781 | 427656 | 4140730 | 427711 | 4140703 | 1949 | 2013 | 1.23 | 0.52 | 0.65 | 0.06 | 0.61 | 0.97 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2782 | 427677 | 4140775 | 427726 | 4140753 | 1949 | 2013 | 0.57 | 0.53 | 0.54 | 0.06 | 0.53 | 1.00 | 3 |
| VCR | 2783 | 427695 | 4140822 | 427750 | 4140797 | 1949 | 2013 | 1.44 | 0.46 | 0.63 | 0.06 | 0.57 | 0.94 | 3 |
| VCR | 2784 | 427706 | 4140870 | 427763 | 4140844 | 1949 | 2013 | 1.21 | 0.55 | 0.66 | 0.06 | 0.63 | 0.98 | 3 |
| VCR | 2785 | 427725 | 4140916 | 427777 | 4140891 | 1949 | 2013 | 1.50 | 0.39 | 0.58 | 0.06 | 0.52 | 0.92 | 3 |
| VCR | 2786 | 427756 | 4140955 | 427796 | 4140933 | 1949 | 2013 | 1.51 | 0.19 | 0.41 | 0.06 | 0.34 | 0.76 | 3 |
| VCR | 2787 | 427787 | 4140994 | 427816 | 4140974 | 1949 | 2013 | 1.26 | 0.03 | 0.24 | 0.06 | 0.17 | 0.49 | 3 |
| VCR | 2788 | 427815 | 4141035 | 427842 | 4141013 | 1949 | 2013 | 0.97 | 0.09 | 0.24 | 0.06 | 0.19 | 0.70 | 3 |
| VCR | 2789 | 427845 | 4141075 | 427871 | 4141049 | 1949 | 2013 | 1.21 | 0.06 | 0.26 | 0.06 | 0.19 | 0.58 | 3 |
| VCR | 2790 | 427880 | 4141111 | 427906 | 4141083 | 1949 | 2013 | 0.85 | 0.18 | 0.29 | 0.06 | 0.26 | 0.88 | 3 |
| VCR | 2791 | 427920 | 4141140 | 427943 | 4141118 | 1949 | 2013 | 1.05 | 0.01 | 0.19 | 0.06 | 0.13 | 0.43 | 3 |
| VCR | 2792 | 427957 | 4141173 | 427977 | 4141155 | 1949 | 2013 | 0.66 | -0.09 | 0.04 | 0.06 | 0.00 | 0.00 | 3 |
| VCR | 2793 | 427988 | 4141210 | 428012 | 4141195 | 1949 | 2013 | 0.62 | -0.14 | -0.01 | 0.06 | -0.05 | 0.17 | 3 |
| VCR | 2794 | 428009 | 4141255 | 428040 | 4141244 | 1949 | 2013 | 0.64 | -0.24 | -0.09 | 0.06 | -0.13 | 0.53 | 3 |
| VCR | 2795 | 428021 | 4141303 | 428053 | 4141301 | 1949 | 2013 | 0.44 | -0.23 | -0.12 | 0.06 | -0.15 | 0.72 | 3 |
| VCR | 2796 | 428015 | 4141351 | 428048 | 4141357 | 1949 | 2013 | -0.09 | -0.21 | -0.19 | 0.06 | -0.20 | 0.99 | 3 |
| VCR | 2797 | 427997 | 4141398 | 428023 | 4141408 | 1949 | 2013 | 0.21 | -0.14 | -0.08 | 0.06 | -0.10 | 0.79 | 3 |
| VCR | 2798 | 427978 | 4141443 | 427997 | 4141453 | 1949 | 2013 | 0.15 | -0.01 | 0.02 | 0.06 | 0.01 | 0.23 | 3 |
| VCR | 2799 | 427953 | 4141487 | 427973 | 4141498 | 1949 | 2013 | -0.08 | 0.05 | 0.03 | 0.06 | 0.04 | 0.79 | 3 |
| VCR | 2800 | 427930 | 4141531 | 427952 | 4141541 | 1949 | 2013 | -0.25 | 0.09 | 0.03 | 0.06 | 0.05 | 0.54 | 3 |
| VCR | 2801 | 427909 | 4141576 | 427932 | 4141590 | 1949 | 2013 | 0.36 | 0.05 | 0.10 | 0.06 | 0.08 | 0.77 | 3 |
| VCR | 2802 | 427899 | 4141614 | 427924 | 4141618 | 1949 | 2013 | NA | NA | 0.02 | 0.06 | 0.02 | 0.00 | 3 |
| VCR | 2803 | 427589 | 4145352 | 427578 | 4145379 | 1949 | 2013 | -0.56 | 0.01 | -0.11 | 0.06 | -0.08 | 0.39 | 4 |
| VCR | 2804 | 427540 | 4145346 | 427540 | 4145380 | 1949 | 2013 | 0.12 | -0.26 | -0.18 | 0.06 | -0.20 | 0.90 | 4 |
| VCR | 2805 | 427493 | 4145340 | 427484 | 4145377 | 1949 | 2013 | 0.40 | -0.32 | -0.17 | 0.06 | -0.21 | 0.72 | 4 |
| VCR | 2806 | 427443 | 4145335 | 427435 | 4145367 | 1949 | 2013 | -0.03 | -0.24 | -0.19 | 0.06 | -0.21 | 0.97 | 4 |
| VCR | 2807 | 427396 | 4145322 | 427385 | 4145350 | 1949 | 2013 | -0.01 | -0.18 | -0.14 | 0.06 | -0.15 | 0.96 | 4 |
| VCR | 2808 | 427351 | 4145300 | 427337 | 4145327 | 1949 | 2013 | -0.17 | -0.14 | -0.14 | 0.06 | -0.14 | 1.00 | 4 |
| VCR | 2809 | 427309 | 4145275 | 427293 | 4145301 | 1949 | 2013 | 0.41 | -0.18 | -0.05 | 0.06 | -0.09 | 0.41 | 4 |
| VCR | 2810 | 427268 | 4145247 | 427248 | 4145274 | 1949 | 2013 | 0.90 | -0.17 | 0.07 | 0.06 | 0.01 | 0.00 | 4 |
| VCR | 2811 | 427236 | 4145217 | 427210 | 4145242 | 1949 | 2013 | 1.07 | -0.19 | 0.08 | 0.06 | 0.01 | 0.00 | 4 |
| VCR | 2812 | 427199 | 4145183 | 427180 | 4145201 | 1949 | 2013 | 0.45 | -0.11 | 0.01 | 0.06 | -0.02 | 0.04 | 4 |
| VCR | 2813 | 427166 | 4145148 | 427144 | 4145165 | 1949 | 2013 | -0.47 | 0.10 | -0.02 | 0.06 | 0.01 | 0.01 | 4 |
| VCR | 2814 | 427147 | 4145103 | 427114 | 4145121 | 1949 | 2013 | -0.65 | -0.05 | -0.18 | 0.06 | -0.15 | 0.65 | 4 |
| VCR | 2815 | 427115 | 4145068 | 427088 | 4145081 | 1949 | 2013 | -0.68 | 0.15 | -0.03 | 0.06 | 0.01 | 0.01 | 4 |
| VCR | 2816 | 427105 | 4145020 | 427078 | 4145036 | 1949 | 2013 | -0.69 | 0.21 | 0.01 | 0.06 | 0.07 | 0.15 | 4 |
| VCR | 2817 | 427087 | 4144974 | 427062 | 4144981 | 1949 | 2013 | -0.23 | 0.11 | 0.03 | 0.06 | 0.05 | 0.44 | 4 |
| VCR | 2818 | 427073 | 4144927 | 427012 | 4144939 | 1949 | 2013 | -0.33 | 0.62 | 0.41 | 0.06 | 0.46 | 0.88 | 4 |
| VCR | 2819 | 427061 | 4144879 | 426976 | 4144884 | 1949 | 2013 | -0.35 | 0.10 | 0.00 | 0.06 | 0.03 | 0.09 | 4 |
| VCR | 2820 | 427058 | 4144829 | 427029 | 4144826 | 1949 | 2013 | -0.45 | 0.17 | 0.04 | 0.06 | 0.07 | 0.30 | 4 |
| VCR | 2821 | 427067 | 4144780 | 426997 | 4144764 | 1949 | 2013 | -0.51 | 0.55 | 0.32 | 0.06 | 0.38 | 0.80 | 4 |
| VCR | 2822 | 427087 | 4144735 | 427033 | 4144739 | 1949 | 2013 | -0.45 | 0.60 | 0.37 | 0.06 | 0.43 | 0.84 | 4 |
| VCR | 2823 | 427083 | 4144687 | 427053 | 4144696 | 1949 | 2013 | -0.27 | 0.20 | 0.09 | 0.06 | 0.12 | 0.68 | 4 |
| VCR | 2824 | 427064 | 4144641 | 427013 | 4144675 | 1949 | 2013 | 0.06 | 0.77 | 0.62 | 0.06 | 0.66 | 0.96 | 4 |
| VCR | 2825 | 427038 | 4144599 | 426985 | 4144652 | 1949 | 2013 | 0.20 | 0.97 | 0.80 | 0.06 | 0.84 | 0.97 | 4 |
| VCR | 2826 | 427004 | 4144562 | 426953 | 4144637 | 1949 | 2013 | -0.63 | 1.34 | 0.91 | 0.06 | 1.02 | 0.89 | 4 |
| VCR | 2827 | 426970 | 4144526 | 426911 | 4144578 | 1949 | 2013 | -0.05 | 1.10 | 0.85 | 0.06 | 0.92 | 0.95 | 4 |
| VCR | 2828 | 426934 | 4144491 | 426871 | 4144548 | 1949 | 2013 | 0.17 | 0.32 | 0.29 | 0.06 | 0.30 | 0.99 | 4 |
| VCR | 2829 | 426899 | 4144455 | 426848 | 4144496 | 1949 | 2013 | 0.22 | 0.26 | 0.25 | 0.06 | 0.26 | 1.00 | 4 |
| VCR | 2830 | 426866 | 4144417 | 426835 | 4144445 | 1949 | 2013 | -0.38 | 0.41 | 0.24 | 0.06 | 0.28 | 0.80 | 4 |
| VCR | 2831 | 426832 | 4144381 | 426801 | 4144404 | 1949 | 2013 | -0.54 | 0.35 | 0.16 | 0.06 | 0.21 | 0.63 | 4 |
| VCR | 2832 | 426799 | 4144344 | 426775 | 4144368 | 1949 | 2013 | -0.30 | 0.27 | 0.15 | 0.06 | 0.18 | 0.75 | 4 |
| VCR | 2833 | 426765 | 4144307 | 426742 | 4144329 | 1949 | 2013 | -0.19 | 0.23 | 0.14 | 0.06 | 0.16 | 0.82 | 4 |
| VCR | 2834 | 426731 | 4144270 | 426711 | 4144295 | 1949 | 2013 | 0.18 | 0.17 | 0.17 | 0.06 | 0.17 | 1.00 | 4 |
| VCR | 2835 | 426695 | 4144235 | 426676 | 4144267 | 1949 | 2013 | 0.16 | 0.26 | 0.24 | 0.06 | 0.25 | 0.99 | 4 |
| VCR | 2836 | 426654 | 4144208 | 426640 | 4144248 | 1949 | 2013 | 0.39 | 0.32 | 0.33 | 0.06 | 0.33 | 1.00 | 4 |
| VCR | 2837 | 426606 | 4144193 | 426603 | 4144238 | 1949 | 2013 | 0.45 | 0.35 | 0.37 | 0.06 | 0.36 | 1.00 | 4 |
| VCR | 2838 | 426557 | 4144191 | 426567 | 4144237 | 1949 | 2013 | NA | 0.24 | NA | 0.08 | 0.24 | 0.00 | 4 |
| VCR | 2839 | 426491 | 4144115 | 426467 | 4144128 | 1949 | 2013 | -0.18 | -0.01 | -0.05 | 0.06 | -0.04 | 0.66 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2840 | 426467 | 4144074 | 426444 | 4144101 | 1949 | 2013 | -0.29 | -0.21 | -0.23 | 0.06 | -0.22 | 1.00 | 4 |
| VCR | 2841 | 426433 | 4144039 | 426405 | 4144062 | 1949 | 2013 | -0.29 | -0.20 | -0.22 | 0.06 | -0.22 | 0.99 | 4 |
| VCR | 2842 | 426402 | 4143999 | 426369 | 4144021 | 1949 | 2013 | -0.42 | -0.25 | -0.29 | 0.06 | -0.28 | 0.99 | 4 |
| VCR | 2843 | 426372 | 4143961 | 426337 | 4143975 | 1949 | 2013 | -0.23 | -0.27 | -0.26 | 0.06 | -0.26 | 1.00 | 4 |
| VCR | 2844 | 426360 | 4143913 | 426324 | 4143918 | 1949 | 2013 | -0.46 | -0.18 | -0.24 | 0.06 | -0.22 | 0.95 | 4 |
| VCR | 2845 | 426366 | 4143863 | 426326 | 4143863 | 1949 | 2013 | -0.89 | -0.13 | -0.29 | 0.06 | -0.25 | 0.77 | 4 |
| VCR | 2846 | 426360 | 4143814 | 426330 | 4143806 | 1949 | 2013 | 0.63 | -0.13 | 0.04 | 0.06 | 0.00 | 0.00 | 4 |
| VCR | 2847 | 426366 | 4143765 | 426330 | 4143746 | 1949 | 2013 | -0.12 | 0.34 | 0.24 | 0.06 | 0.26 | 0.91 | 4 |
| VCR | 2848 | 426371 | 4143718 | 426348 | 4143698 | 1949 | 2013 | -0.43 | 0.18 | 0.04 | 0.06 | 0.08 | 0.34 | 4 |
| VCR | 2849 | 426416 | 4143698 | 426394 | 4143674 | 1949 | 2013 | -0.70 | 0.11 | -0.07 | 0.06 | -0.02 | 0.02 | 4 |
| VCR | 2850 | 426460 | 4143677 | 426445 | 4143653 | 1949 | 2013 | -0.22 | 0.15 | 0.07 | 0.06 | 0.09 | 0.65 | 4 |
| VCR | 2851 | 426500 | 4143646 | 426483 | 4143625 | 1949 | 2013 | -0.47 | 0.02 | -0.09 | 0.06 | -0.06 | 0.31 | 4 |
| VCR | 2852 | 426534 | 4143611 | 426513 | 4143590 | 1949 | 2013 | -0.62 | 0.14 | -0.03 | 0.06 | 0.02 | 0.01 | 4 |
| VCR | 2853 | 426575 | 4143582 | 426541 | 4143561 | 1949 | 2013 | -0.27 | 0.35 | 0.21 | 0.06 | 0.25 | 0.83 | 4 |
| VCR | 2854 | 426620 | 4143591 | 426641 | 4143626 | 1949 | 2013 | 0.17 | 0.37 | 0.33 | 0.07 | 0.34 | 0.99 | 4 |
| VCR | 2855 | 426583 | 4143624 | 426602 | 4143652 | 1949 | 2013 | 1.15 | -0.04 | 0.17 | 0.07 | 0.10 | 0.26 | 4 |
| VCR | 2856 | 426547 | 4143657 | 426564 | 4143679 | 1949 | 2013 | 0.46 | 0.05 | 0.12 | 0.07 | 0.10 | 0.75 | 4 |
| VCR | 2857 | 426509 | 4143689 | 426531 | 4143714 | 1949 | 2013 | 0.59 | 0.13 | 0.21 | 0.07 | 0.18 | 0.89 | 4 |
| VCR | 2858 | 426466 | 4143715 | 426501 | 4143749 | 1949 | 2013 | 0.72 | 0.38 | 0.44 | 0.07 | 0.42 | 0.99 | 4 |
| VCR | 2859 | 426427 | 4143745 | 426469 | 4143782 | 1949 | 2013 | 1.17 | 0.43 | 0.56 | 0.07 | 0.52 | 0.96 | 4 |
| VCR | 2860 | 426390 | 4143779 | 426441 | 4143812 | 1949 | 2013 | 1.19 | 0.54 | 0.65 | 0.07 | 0.61 | 0.98 | 4 |
| VCR | 2861 | 426369 | 4143824 | 426421 | 4143843 | 1949 | 2013 | 1.32 | 0.41 | 0.57 | 0.07 | 0.52 | 0.94 | 4 |
| VCR | 2862 | 426362 | 4143873 | 426412 | 4143876 | 1949 | 2013 | 1.17 | 0.32 | 0.47 | 0.07 | 0.42 | 0.92 | 4 |
| VCR | 2863 | 426362 | 4143923 | 426415 | 4143911 | 1949 | 2013 | 1.40 | 0.37 | 0.54 | 0.07 | 0.48 | 0.92 | 4 |
| VCR | 2864 | 426380 | 4143969 | 426434 | 4143942 | 1949 | 2013 | 1.04 | 0.55 | 0.63 | 0.07 | 0.60 | 0.99 | 4 |
| VCR | 2865 | 426410 | 4144009 | 426458 | 4143975 | 1949 | 2013 | 0.57 | 0.61 | 0.60 | 0.07 | 0.61 | 1.00 | 4 |
| VCR | 2866 | 426449 | 4144040 | 426488 | 4144006 | 1949 | 2013 | 0.30 | 0.52 | 0.48 | 0.07 | 0.50 | 1.00 | 4 |
| VCR | 2867 | 426490 | 4144068 | 426520 | 4144038 | 1949 | 2013 | 0.42 | 0.32 | 0.34 | 0.07 | 0.33 | 1.00 | 4 |
| VCR | 2868 | 426533 | 4144095 | 426552 | 4144071 | 1949 | 2013 | 0.33 | 0.13 | 0.16 | 0.07 | 0.15 | 0.97 | 4 |
| VCR | 2869 | 426576 | 4144119 | 426588 | 4144101 | 1949 | 2013 | -0.12 | 0.03 | 0.00 | 0.07 | 0.01 | 0.19 | 4 |
| VCR | 2870 | 426619 | 4144145 | 426632 | 4144123 | 1949 | 2013 | -0.43 | 0.02 | -0.06 | 0.07 | -0.03 | 0.22 | 4 |
| VCR | 2871 | 426664 | 4144166 | 426676 | 4144144 | 1949 | 2013 | -0.32 | -0.01 | -0.07 | 0.07 | -0.05 | 0.56 | 4 |
| VCR | 2872 | 426708 | 4144188 | 426723 | 4144164 | 1949 | 2013 | -0.70 | 0.02 | -0.11 | 0.07 | -0.07 | 0.31 | 4 |
| VCR | 2873 | 426745 | 4144219 | 426764 | 4144191 | 1949 | 2013 | 0.35 | -0.25 | -0.15 | 0.07 | -0.18 | 0.82 | 4 |
| VCR | 2874 | 426787 | 4144244 | 426805 | 4144221 | 1949 | 2013 | 0.03 | -0.16 | -0.13 | 0.07 | -0.13 | 0.96 | 4 |
| VCR | 2875 | 426825 | 4144275 | 426844 | 4144254 | 1949 | 2013 | 0.21 | -0.15 | -0.09 | 0.07 | -0.11 | 0.82 | 4 |
| VCR | 2876 | 426858 | 4144313 | 426882 | 4144287 | 1949 | 2013 | 0.38 | -0.28 | -0.17 | 0.07 | -0.21 | 0.83 | 4 |
| VCR | 2877 | 426890 | 4144351 | 426916 | 4144326 | 1949 | 2013 | 0.14 | -0.30 | -0.23 | 0.07 | -0.25 | 0.94 | 4 |
| VCR | 2878 | 426919 | 4144391 | 426947 | 4144365 | 1949 | 2013 | 0.21 | -0.34 | -0.24 | 0.07 | -0.27 | 0.92 | 4 |
| VCR | 2879 | 426954 | 4144426 | 426977 | 4144404 | 1949 | 2013 | 0.21 | -0.22 | -0.15 | 0.07 | -0.17 | 0.89 | 4 |
| VCR | 2880 | 426993 | 4144456 | 427012 | 4144436 | 1949 | 2013 | -0.06 | -0.13 | -0.11 | 0.07 | -0.12 | 0.99 | 4 |
| VCR | 2881 | 427032 | 4144487 | 427048 | 4144470 | 1949 | 2013 | -0.23 | 0.05 | 0.00 | 0.07 | 0.02 | 0.15 | 4 |
| VCR | 2882 | 427070 | 4144518 | 427086 | 4144500 | 1949 | 2013 | 0.35 | -0.07 | 0.00 | 0.07 | -0.02 | 0.11 | 4 |
| VCR | 2883 | 427109 | 4144550 | 427124 | 4144530 | 1949 | 2013 | 0.44 | 0.02 | 0.09 | 0.07 | 0.07 | 0.57 | 4 |
| VCR | 2884 | 427146 | 4144582 | 427163 | 4144561 | 1949 | 2013 | 0.30 | 0.07 | 0.11 | 0.07 | 0.09 | 0.89 | 4 |
| VCR | 2885 | 427184 | 4144614 | 427204 | 4144590 | 1949 | 2013 | 0.23 | 0.16 | 0.17 | 0.07 | 0.16 | 1.00 | 4 |
| VCR | 2886 | 427221 | 4144648 | 427243 | 4144623 | 1949 | 2013 | 0.56 | 0.14 | 0.21 | 0.07 | 0.19 | 0.91 | 4 |
| VCR | 2887 | 427254 | 4144685 | 427285 | 4144657 | 1949 | 2013 | 1.54 | 0.10 | 0.34 | 0.07 | 0.26 | 0.62 | 4 |
| VCR | 2888 | 427284 | 4144725 | 427316 | 4144704 | 1949 | 2013 | 0.98 | 0.15 | 0.29 | 0.07 | 0.24 | 0.81 | 4 |
| VCR | 2889 | 427309 | 4144768 | 427352 | 4144749 | 1949 | 2013 | 2.48 | -0.04 | 0.39 | 0.07 | 0.25 | 0.33 | 4 |
| VCR | 2890 | 427325 | 4144815 | 427369 | 4144800 | 1949 | 2013 | 2.40 | -0.11 | 0.32 | 0.07 | 0.19 | 0.21 | 4 |
| VCR | 2891 | 427337 | 4144863 | 427376 | 4144841 | 1949 | 2013 | 2.14 | -0.18 | 0.21 | 0.07 | 0.09 | 0.06 | 4 |
| VCR | 2892 | 427356 | 4144909 | 427381 | 4144880 | 1949 | 2013 | 0.87 | -0.06 | 0.10 | 0.07 | 0.05 | 0.12 | 4 |
| VCR | 2893 | 427384 | 4144944 | 427389 | 4144885 | 1949 | 2013 | 1.33 | 0.21 | 0.40 | 0.07 | 0.34 | 0.82 | 4 |
| VCR | 2894 | 427416 | 4144907 | 427403 | 4144872 | 1949 | 2013 | 1.04 | 0.08 | 0.25 | 0.07 | 0.19 | 0.67 | 4 |
| VCR | 2895 | 427452 | 4144872 | 427430 | 4144837 | 1949 | 2013 | 1.42 | 0.09 | 0.31 | 0.07 | 0.24 | 0.62 | 4 |
| VCR | 2896 | 427488 | 4144838 | 427469 | 4144804 | 1949 | 2013 | 0.46 | 0.25 | 0.28 | 0.07 | 0.27 | 0.99 | 4 |
| VCR | 2897 | 427526 | 4144815 | 427518 | 4144792 | 1949 | 2013 | 0.45 | -0.07 | 0.02 | 0.07 | -0.01 | 0.01 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2898 | 427572 | 4144803 | 427569 | 4144778 | 1949 | 2013 | -0.35 | 0.10 | 0.02 | 0.07 | 0.04 | 0.31 | 4 |
| VCR | 2899 | 427621 | 4144811 | 427622 | 4144785 | 1949 | 2013 | 0.47 | -0.03 | 0.05 | 0.07 | 0.03 | 0.12 | 4 |
| VCR | 2900 | 427634 | 4144846 | 427642 | 4144784 | 1949 | 2013 | 1.14 | 0.00 | 0.20 | 0.07 | 0.14 | 0.41 | 4 |
| VCR | 2901 | 427653 | 4144891 | 427680 | 4144783 | 1949 | 2013 | 2.05 | 0.85 | 1.05 | 0.07 | 0.99 | 0.97 | 4 |
| VCR | 2902 | 427698 | 4144885 | 427720 | 4144805 | 1949 | 2013 | 5.36 | 0.08 | 0.98 | 0.07 | 0.70 | 0.46 | 4 |
| VCR | 2903 | 427748 | 4144884 | 427780 | 4144815 | 1949 | 2013 | 3.22 | 0.30 | 0.79 | 0.07 | 0.64 | 0.70 | 4 |
| VCR | 2904 | 427795 | 4144872 | 427827 | 4144823 | 1949 | 2013 | 1.71 | -0.01 | 0.29 | 0.07 | 0.19 | 0.39 | 4 |
| VCR | 2905 | 427833 | 4144860 | 427852 | 4144842 | 1949 | 2013 | NA | 0.12 | NA | 0.08 | 0.12 | 0.00 | 4 |
| VCR | 2906 | 425089 | 4141043 | 425114 | 4141067 | 1949 | 2013 | 0.26 | NA | NA | 0.27 | 0.26 | 0.00 | 4 |
| VCR | 2907 | 425101 | 4140995 | 425127 | 4141009 | 1949 | 2013 | 0.37 | -0.16 | -0.04 | 0.06 | -0.07 | 0.38 | 4 |
| VCR | 2908 | 425125 | 4140954 | 425162 | 4140957 | 1949 | 2013 | 0.59 | 0.13 | 0.23 | 0.06 | 0.20 | 0.86 | 4 |
| VCR | 2909 | 425138 | 4140906 | 425179 | 4140909 | 1949 | 2013 | 0.83 | 0.17 | 0.31 | 0.06 | 0.27 | 0.84 | 4 |
| VCR | 2910 | 425137 | 4140856 | 425170 | 4140853 | 1949 | 2013 | 0.72 | 0.03 | 0.18 | 0.06 | 0.14 | 0.56 | 4 |
| VCR | 2911 | 425119 | 4140811 | 425144 | 4140802 | 1949 | 2013 | 0.07 | -0.04 | -0.01 | 0.06 | -0.02 | 0.50 | 4 |
| VCR | 2912 | 425088 | 4140773 | 425121 | 4140754 | 1949 | 2013 | 0.34 | -0.34 | -0.19 | 0.06 | -0.23 | 0.79 | 4 |
| VCR | 2913 | 425058 | 4140733 | 425094 | 4140713 | 1949 | 2013 | 0.20 | -0.40 | -0.27 | 0.06 | -0.31 | 0.89 | 4 |
| VCR | 2914 | 425030 | 4140692 | 425069 | 4140673 | 1949 | 2013 | 0.16 | -0.43 | -0.30 | 0.06 | -0.33 | 0.91 | 4 |
| VCR | 2915 | 425005 | 4140650 | 425050 | 4140639 | 1949 | 2013 | 0.65 | -0.48 | -0.23 | 0.06 | -0.30 | 0.69 | 4 |
| VCR | 2916 | 425001 | 4140601 | 425040 | 4140601 | 1949 | 2013 | 1.04 | -0.36 | -0.05 | 0.06 | -0.13 | 0.22 | 4 |
| VCR | 2917 | 425019 | 4140557 | 425056 | 4140566 | 1949 | 2013 | 0.96 | 0.06 | 0.26 | 0.06 | 0.20 | 0.61 | 4 |
| VCR | 2918 | 425036 | 4140510 | 425084 | 4140529 | 1949 | 2013 | 1.07 | 0.30 | 0.47 | 0.06 | 0.42 | 0.90 | 4 |
| VCR | 2919 | 425059 | 4140465 | 425104 | 4140489 | 1949 | 2013 | 1.09 | 0.28 | 0.46 | 0.06 | 0.41 | 0.89 | 4 |
| VCR | 2920 | 425080 | 4140420 | 425128 | 4140441 | 1949 | 2013 | 0.76 | 0.40 | 0.48 | 0.06 | 0.46 | 0.98 | 4 |
| VCR | 2921 | 425098 | 4140374 | 425145 | 4140390 | 1949 | 2013 | 0.64 | 0.39 | 0.44 | 0.06 | 0.43 | 0.99 | 4 |
| VCR | 2922 | 425109 | 4140325 | 425161 | 4140340 | 1949 | 2013 | 0.64 | 0.46 | 0.50 | 0.06 | 0.49 | 1.00 | 4 |
| VCR | 2923 | 425134 | 4140282 | 425173 | 4140299 | 1949 | 2013 | 0.21 | 0.38 | 0.34 | 0.06 | 0.35 | 0.99 | 4 |
| VCR | 2924 | 425164 | 4140242 | 425187 | 4140258 | 1949 | 2013 | 0.14 | 0.09 | 0.10 | 0.06 | 0.10 | 0.99 | 4 |
| VCR | 2925 | 425192 | 4140202 | 425213 | 4140228 | 1949 | 2013 | -0.20 | -0.19 | -0.19 | 0.06 | -0.19 | 1.00 | 4 |
| VCR | 2926 | 425231 | 4140172 | 425244 | 4140214 | 1949 | 2013 | -0.63 | -0.29 | -0.36 | 0.06 | -0.34 | 0.97 | 4 |
| VCR | 2927 | 425280 | 4140172 | 425279 | 4140210 | 1949 | 2013 | -0.42 | -0.21 | -0.25 | 0.06 | -0.24 | 0.97 | 4 |
| VCR | 2928 | 425301 | 4140182 | 425289 | 4140202 | 1949 | 2013 | -0.28 | NA | NA | 0.48 | -0.28 | 0.00 | 4 |
| VCR | 2929 | 425346 | 4140196 | 425324 | 4140231 | 1949 | 2013 | 0.46 | 0.28 | 0.31 | 0.08 | 0.30 | 0.99 | 4 |
| VCR | 2930 | 425389 | 4140220 | 425361 | 4140259 | 1949 | 2013 | 0.11 | 0.49 | 0.43 | 0.08 | 0.45 | 0.99 | 4 |
| VCR | 2931 | 425424 | 4140255 | 425399 | 4140287 | 1949 | 2013 | -0.05 | 0.40 | 0.32 | 0.08 | 0.35 | 0.97 | 4 |
| VCR | 2932 | 425492 | 4140326 | 425474 | 4140345 | 1949 | 2013 | 0.50 | -0.02 | 0.07 | 0.08 | 0.04 | 0.26 | 4 |
| VCR | 2933 | 425529 | 4140359 | 425510 | 4140379 | 1949 | 2013 | 0.68 | -0.07 | 0.06 | 0.08 | 0.02 | 0.04 | 4 |
| VCR | 2934 | 425561 | 4140398 | 425547 | 4140413 | 1949 | 2013 | 0.07 | -0.02 | -0.01 | 0.08 | -0.01 | 0.54 | 4 |
| VCR | 2935 | 425597 | 4140433 | 425582 | 4140448 | 1949 | 2013 | 0.06 | 0.00 | 0.01 | 0.08 | 0.01 | 0.49 | 4 |
| VCR | 2936 | 425636 | 4140464 | 425619 | 4140481 | 1949 | 2013 | 0.20 | -0.06 | -0.02 | 0.08 | -0.03 | 0.47 | 4 |
| VCR | 2937 | 425674 | 4140496 | 425659 | 4140513 | 1949 | 2013 | 0.17 | -0.07 | -0.03 | 0.08 | -0.04 | 0.61 | 4 |
| VCR | 2938 | 425711 | 4140529 | 425695 | 4140551 | 1949 | 2013 | 0.56 | -0.05 | 0.05 | 0.08 | 0.02 | 0.06 | 4 |
| VCR | 2939 | 425749 | 4140562 | 425736 | 4140582 | 1949 | 2013 | 0.35 | -0.02 | 0.04 | 0.08 | 0.02 | 0.15 | 4 |
| VCR | 2940 | 425884 | 4140615 | 425877 | 4140637 | 1949 | 2013 | 0.10 | -0.05 | -0.02 | 0.08 | -0.03 | 0.70 | 4 |
| VCR | 2941 | 425932 | 4140630 | 425924 | 4140656 | 1949 | 2013 | 0.45 | 0.04 | 0.11 | 0.08 | 0.09 | 0.70 | 4 |
| VCR | 2942 | 425980 | 4140642 | 425972 | 4140673 | 1949 | 2013 | 1.08 | -0.01 | 0.18 | 0.08 | 0.12 | 0.36 | 4 |
| VCR | 2943 | 426029 | 4140654 | 426020 | 4140684 | 1949 | 2013 | 0.97 | -0.02 | 0.15 | 0.08 | 0.10 | 0.33 | 4 |
| VCR | 2944 | 426078 | 4140661 | 426070 | 4140688 | 1949 | 2013 | 0.75 | -0.07 | 0.07 | 0.08 | 0.02 | 0.04 | 4 |
| VCR | 2945 | 426126 | 4140674 | 426117 | 4140705 | 1949 | 2013 | 1.16 | -0.06 | 0.15 | 0.08 | 0.08 | 0.19 | 4 |
| VCR | 2946 | 426173 | 4140689 | 426165 | 4140723 | 1949 | 2013 | 1.08 | 0.06 | 0.23 | 0.08 | 0.18 | 0.60 | 4 |
| VCR | 2947 | 426222 | 4140702 | 426212 | 4140736 | 1949 | 2013 | 1.24 | 0.03 | 0.24 | 0.08 | 0.17 | 0.50 | 4 |
| VCR | 2948 | 426271 | 4140711 | 426264 | 4140746 | 1949 | 2013 | 1.40 | -0.02 | 0.22 | 0.08 | 0.14 | 0.33 | 4 |
| VCR | 2949 | 426320 | 4140718 | 426316 | 4140756 | 1949 | 2013 | 1.59 | -0.07 | 0.21 | 0.08 | 0.12 | 0.20 | 4 |
| VCR | 2950 | 426368 | 4140730 | 426365 | 4140764 | 1949 | 2013 | 1.25 | -0.01 | 0.20 | 0.08 | 0.13 | 0.35 | 4 |
| VCR | 2951 | 426418 | 4140739 | 426413 | 4140776 | 1949 | 2013 | 1.58 | -0.02 | 0.25 | 0.08 | 0.16 | 0.34 | 4 |
| VCR | 2952 | 426466 | 4140746 | 426463 | 4140781 | 1949 | 2013 | 1.35 | 0.00 | 0.23 | 0.08 | 0.15 | 0.38 | 4 |
| VCR | 2953 | 426516 | 4140751 | 426511 | 4140787 | 1949 | 2013 | 1.49 | -0.05 | 0.21 | 0.08 | 0.13 | 0.26 | 4 |
| VCR | 2954 | 426566 | 4140755 | 426559 | 4140793 | 1949 | 2013 | 1.62 | -0.12 | 0.18 | 0.08 | 0.09 | 0.11 | 4 |
| VCR | 2955 | 426615 | 4140764 | 426611 | 4140799 | 1949 | 2013 | 1.39 | -0.12 | 0.14 | 0.08 | 0.06 | 0.07 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 2956 | 426663 | 4140774 | 426659 | 4140810 | 1949 | 2013 | 1.54 | -0.15 | 0.14 | 0.08 | 0.04 | 0.03 | 4 |
| VCR | 2957 | 426713 | 4140780 | 426708 | 4140814 | 1949 | 2013 | 1.33 | -0.17 | 0.08 | 0.08 | 0.00 | 0.00 | 4 |
| VCR | 2958 | 426761 | 4140788 | 426758 | 4140817 | 1949 | 2013 | 0.80 | -0.16 | 0.01 | 0.08 | -0.04 | 0.10 | 4 |
| VCR | 2959 | 426810 | 4140796 | 426808 | 4140827 | 1949 | 2013 | 0.61 | -0.20 | -0.06 | 0.08 | -0.11 | 0.46 | 4 |
| VCR | 2960 | 426860 | 4140798 | 426857 | 4140831 | 1949 | 2013 | 0.87 | -0.25 | -0.06 | 0.08 | -0.12 | 0.36 | 4 |
| VCR | 2961 | 426910 | 4140799 | 426908 | 4140833 | 1949 | 2013 | 0.89 | -0.27 | -0.07 | 0.08 | -0.13 | 0.40 | 4 |
| VCR | 2962 | 426960 | 4140800 | 426961 | 4140834 | 1949 | 2013 | 0.68 | -0.26 | -0.10 | 0.08 | -0.15 | 0.56 | 4 |
| VCR | 2963 | 427009 | 4140795 | 427012 | 4140836 | 1949 | 2013 | 0.70 | -0.38 | -0.20 | 0.08 | -0.26 | 0.74 | 4 |
| VCR | 2964 | 427059 | 4140790 | 427064 | 4140837 | 1949 | 2013 | 0.56 | -0.52 | -0.33 | 0.08 | -0.39 | 0.87 | 4 |
| VCR | 2965 | 427108 | 4140786 | 427116 | 4140831 | 1949 | 2013 | 0.55 | -0.48 | -0.31 | 0.08 | -0.36 | 0.86 | 4 |
| VCR | 2966 | 427154 | 4140770 | 427173 | 4140821 | 1949 | 2013 | 0.81 | -0.63 | -0.38 | 0.08 | -0.46 | 0.83 | 4 |
| VCR | 2967 | 427198 | 4140749 | 427223 | 4140801 | 1949 | 2013 | 1.19 | -0.72 | -0.39 | 0.08 | -0.50 | 0.77 | 4 |
| VCR | 2968 | 427238 | 4140720 | 427272 | 4140768 | 1949 | 2013 | 1.29 | -0.74 | -0.39 | 0.08 | -0.50 | 0.75 | 4 |
| VCR | 2969 | 427275 | 4140687 | 427319 | 4140724 | 1949 | 2013 | 0.16 | -0.70 | -0.56 | 0.08 | -0.60 | 0.96 | 4 |
| VCR | 2970 | 427300 | 4140643 | 427353 | 4140672 | 1949 | 2013 | 0.75 | -0.73 | -0.48 | 0.08 | -0.56 | 0.87 | 4 |
| VCR | 2971 | 427315 | 4140596 | 427370 | 4140614 | 1949 | 2013 | 1.10 | -0.72 | -0.41 | 0.08 | -0.50 | 0.79 | 4 |
| VCR | 2972 | 427326 | 4140547 | 427375 | 4140552 | 1949 | 2013 | 0.24 | -0.56 | -0.42 | 0.08 | -0.46 | 0.94 | 4 |
| VCR | 2973 | 427326 | 4140498 | 427375 | 4140494 | 1949 | 2013 | 0.59 | -0.54 | -0.35 | 0.08 | -0.41 | 0.87 | 4 |
| VCR | 2974 | 427319 | 4140449 | 427368 | 4140441 | 1949 | 2013 | 2.01 | -0.55 | -0.11 | 0.08 | -0.25 | 0.32 | 4 |
| VCR | 2975 | 427310 | 4140400 | 427354 | 4140388 | 1949 | 2013 | 1.34 | -0.48 | -0.17 | 0.08 | -0.26 | 0.51 | 4 |
| VCR | 2976 | 427297 | 4140351 | 427336 | 4140336 | 1949 | 2013 | 0.64 | -0.41 | -0.23 | 0.08 | -0.29 | 0.79 | 4 |
| VCR | 2977 | 427283 | 4140304 | 427315 | 4140287 | 1949 | 2013 | -0.07 | -0.29 | -0.25 | 0.08 | -0.26 | 0.99 | 4 |
| VCR | 2978 | 427258 | 4140261 | 427286 | 4140242 | 1949 | 2013 | 0.14 | -0.26 | -0.19 | 0.08 | -0.21 | 0.93 | 4 |
| VCR | 2979 | 427227 | 4140222 | 427251 | 4140199 | 1949 | 2013 | 0.36 | -0.24 | -0.14 | 0.08 | -0.17 | 0.80 | 4 |
| VCR | 2980 | 427192 | 4140187 | 427213 | 4140162 | 1949 | 2013 | 0.59 | -0.24 | -0.10 | 0.08 | -0.14 | 0.59 | 4 |
| VCR | 2981 | 427155 | 4140155 | 427174 | 4140131 | 1949 | 2013 | 0.04 | -0.19 | -0.15 | 0.08 | -0.16 | 0.96 | 4 |
| VCR | 2982 | 427116 | 4140125 | 427129 | 4140106 | 1949 | 2013 | 0.19 | -0.05 | -0.01 | 0.08 | -0.02 | 0.25 | 4 |
| VCR | 2983 | 427073 | 4140100 | 427089 | 4140077 | 1949 | 2013 | 0.57 | 0.02 | 0.12 | 0.08 | 0.09 | 0.56 | 4 |
| VCR | 2984 | 427028 | 4140078 | 427053 | 4140044 | 1949 | 2013 | 0.90 | 0.20 | 0.32 | 0.08 | 0.29 | 0.89 | 4 |
| VCR | 2985 | 426981 | 4140059 | 427015 | 4140017 | 1949 | 2013 | 0.50 | 0.54 | 0.53 | 0.08 | 0.54 | 1.00 | 4 |
| VCR | 2986 | 426937 | 4140036 | 426983 | 4139985 | 1949 | 2013 | 0.82 | 0.74 | 0.76 | 0.08 | 0.75 | 1.00 | 4 |
| VCR | 2987 | 426897 | 4140006 | 426956 | 4139955 | 1949 | 2013 | 0.88 | 0.91 | 0.91 | 0.08 | 0.91 | 1.00 | 4 |
| VCR | 2988 | 426864 | 4139969 | 426931 | 4139929 | 1949 | 2013 | 0.84 | 0.92 | 0.91 | 0.08 | 0.91 | 1.00 | 4 |
| VCR | 2989 | 426838 | 4139927 | 426920 | 4139907 | 1949 | 2013 | 1.10 | 0.98 | 1.00 | 0.08 | 0.99 | 1.00 | 4 |
| VCR | 2990 | 426829 | 4139878 | 426905 | 4139888 | 1949 | 2013 | 0.53 | 0.96 | 0.88 | 0.08 | 0.91 | 1.00 | 4 |
| VCR | 2991 | 426834 | 4139828 | 426917 | 4139874 | 1949 | 2013 | -0.05 | 1.39 | 1.14 | 0.08 | 1.22 | 0.97 | 4 |
| VCR | 2992 | 426938 | 4139728 | 426995 | 4139817 | 1949 | 2013 | 0.71 | 1.46 | 1.33 | 0.08 | 1.37 | 0.99 | 4 |
| VCR | 2993 | 426985 | 4139710 | 427029 | 4139787 | 1949 | 2013 | 1.04 | 1.08 | 1.07 | 0.08 | 1.08 | 1.00 | 4 |
| VCR | 2994 | 427032 | 4139694 | 427067 | 4139756 | 1949 | 2013 | 0.92 | 0.78 | 0.80 | 0.08 | 0.79 | 1.00 | 4 |
| VCR | 2995 | 427081 | 4139683 | 427104 | 4139735 | 1949 | 2013 | 0.80 | 0.53 | 0.58 | 0.08 | 0.56 | 1.00 | 4 |
| VCR | 2996 | 427130 | 4139674 | 427144 | 4139715 | 1949 | 2013 | 0.04 | 0.44 | 0.37 | 0.08 | 0.39 | 0.98 | 4 |
| VCR | 2997 | 427178 | 4139663 | 427190 | 4139704 | 1949 | 2013 | 0.15 | 0.39 | 0.35 | 0.08 | 0.36 | 0.99 | 4 |
| VCR | 2998 | 427224 | 4139645 | 427235 | 4139691 | 1949 | 2013 | 0.28 | 0.44 | 0.42 | 0.08 | 0.43 | 1.00 | 4 |
| VCR | 2999 | 427272 | 4139631 | 427282 | 4139678 | 1949 | 2013 | 0.38 | 0.45 | 0.44 | 0.08 | 0.44 | 1.00 | 4 |
| VCR | 3000 | 427318 | 4139611 | 427335 | 4139664 | 1949 | 2013 | 0.75 | 0.52 | 0.56 | 0.08 | 0.55 | 1.00 | 4 |
| VCR | 3001 | 427362 | 4139589 | 427388 | 4139648 | 1949 | 2013 | 0.59 | 0.72 | 0.70 | 0.08 | 0.71 | 1.00 | 4 |
| VCR | 3002 | 427407 | 4139567 | 427442 | 4139627 | 1949 | 2013 | 0.75 | 0.76 | 0.76 | 0.08 | 0.76 | 1.00 | 4 |
| VCR | 3003 | 427447 | 4139537 | 427492 | 4139598 | 1949 | 2013 | 0.87 | 0.85 | 0.85 | 0.08 | 0.85 | 1.00 | 4 |
| VCR | 3004 | 427482 | 4139501 | 427537 | 4139563 | 1949 | 2013 | 0.36 | 1.11 | 0.98 | 0.08 | 1.02 | 0.99 | 4 |
| VCR | 3005 | 427518 | 4139466 | 427577 | 4139538 | 1949 | 2013 | NA | NA | 1.12 | 0.08 | 1.12 | 0.00 | 4 |
| VCR | 3006 | 427558 | 4139439 | 427616 | 4139517 | 1949 | 2013 | 0.31 | 1.38 | 1.20 | 0.08 | 1.26 | 0.99 | 4 |
| VCR | 3007 | 427604 | 4139420 | 427652 | 4139489 | 1949 | 2013 | -0.08 | NA | NA | 0.48 | -0.08 | 0.00 | 4 |
| VCR | 3008 | 427647 | 4139398 | 427693 | 4139466 | 1949 | 2013 | 0.29 | 1.08 | 0.95 | 0.08 | 0.99 | 0.99 | 4 |
| VCR | 3009 | 427689 | 4139372 | 427730 | 4139443 | 1949 | 2013 | 0.26 | 1.10 | 0.96 | 0.08 | 1.00 | 0.99 | 4 |
| VCR | 3010 | 427732 | 4139346 | 427774 | 4139419 | 1949 | 2013 | 0.45 | 1.12 | 1.01 | 0.08 | 1.04 | 0.99 | 4 |
| VCR | 3011 | 427533 | 4139268 | 427496 | 4139240 | 1949 | 2013 | NA | NA | -0.37 | 0.06 | -0.37 | 0.00 | 4 |
| VCR | 3012 | 427508 | 4139310 | 427465 | 4139277 | 1949 | 2013 | -0.91 | -0.37 | -0.49 | 0.06 | -0.46 | 0.96 | 4 |
| VCR | 3013 | 427473 | 4139345 | 427439 | 4139323 | 1949 | 2013 | -0.71 | -0.18 | -0.30 | 0.06 | -0.27 | 0.89 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 3014 | 427443 | 4139384 | 427414 | 4139366 | 1949 | 2013 | -0.68 | -0.06 | -0.20 | 0.06 | -0.16 | 0.68 | 4 |
| VCR | 3015 | 427414 | 4139424 | 427389 | 4139406 | 1949 | 2013 | -0.44 | -0.08 | -0.16 | 0.06 | -0.14 | 0.81 | 4 |
| VCR | 3016 | 427386 | 4139465 | 427362 | 4139444 | 1949 | 2013 | -0.78 | 0.06 | -0.13 | 0.06 | -0.08 | 0.21 | 4 |
| VCR | 3017 | 427358 | 4139505 | 427338 | 4139481 | 1949 | 2013 | -0.08 | 0.20 | 0.14 | 0.06 | 0.15 | 0.91 | 4 |
| VCR | 3018 | 427318 | 4139535 | 427298 | 4139497 | 1949 | 2013 | -0.24 | 0.43 | 0.29 | 0.06 | 0.32 | 0.88 | 4 |
| VCR | 3019 | 427271 | 4139550 | 427259 | 4139513 | 1949 | 2013 | 0.18 | 0.30 | 0.28 | 0.06 | 0.28 | 0.99 | 4 |
| VCR | 3020 | 427222 | 4139562 | 427216 | 4139516 | 1949 | 2013 | 0.30 | 0.41 | 0.39 | 0.06 | 0.39 | 1.00 | 4 |
| VCR | 3021 | 427173 | 4139569 | 427170 | 4139520 | 1949 | 2013 | 0.43 | 0.43 | 0.43 | 0.06 | 0.43 | 1.00 | 4 |
| VCR | 3022 | 427123 | 4139576 | 427116 | 4139517 | 1949 | 2013 | 0.44 | 0.62 | 0.58 | 0.06 | 0.59 | 1.00 | 4 |
| VCR | 3023 | 427074 | 4139586 | 427057 | 4139526 | 1949 | 2013 | 0.18 | 0.76 | 0.63 | 0.06 | 0.67 | 0.98 | 4 |
| VCR | 3024 | 427025 | 4139597 | 427002 | 4139535 | 1949 | 2013 | -0.52 | 0.88 | 0.57 | 0.06 | 0.65 | 0.87 | 4 |
| VCR | 3025 | 426977 | 4139609 | 426939 | 4139551 | 1949 | 2013 | -0.43 | 0.90 | 0.60 | 0.06 | 0.68 | 0.89 | 4 |
| VCR | 3026 | 426931 | 4139630 | 426890 | 4139579 | 1949 | 2013 | -0.37 | 0.86 | 0.59 | 0.06 | 0.66 | 0.90 | 4 |
| VCR | 3027 | 426888 | 4139655 | 426852 | 4139621 | 1949 | 2013 | -0.35 | 0.55 | 0.35 | 0.06 | 0.40 | 0.86 | 4 |
| VCR | 3028 | 426852 | 4139690 | 426817 | 4139661 | 1949 | 2013 | -0.27 | 0.47 | 0.31 | 0.06 | 0.35 | 0.87 | 4 |
| VCR | 3029 | 426823 | 4139730 | 426785 | 4139709 | 1949 | 2013 | -0.37 | 0.45 | 0.27 | 0.06 | 0.32 | 0.83 | 4 |
| VCR | 3030 | 426802 | 4139775 | 426761 | 4139761 | 1949 | 2013 | 0.04 | 0.38 | 0.30 | 0.06 | 0.32 | 0.97 | 4 |
| VCR | 3031 | 426788 | 4139823 | 426746 | 4139819 | 1949 | 2013 | 0.23 | 0.34 | 0.32 | 0.06 | 0.32 | 1.00 | 4 |
| VCR | 3032 | 426782 | 4139872 | 426744 | 4139874 | 1949 | 2013 | 0.32 | 0.26 | 0.27 | 0.06 | 0.27 | 1.00 | 4 |
| VCR | 3033 | 426784 | 4139922 | 426752 | 4139928 | 1949 | 2013 | 0.22 | 0.16 | 0.18 | 0.06 | 0.17 | 1.00 | 4 |
| VCR | 3034 | 426792 | 4139971 | 426761 | 4139983 | 1949 | 2013 | 0.11 | 0.22 | 0.20 | 0.06 | 0.20 | 0.99 | 4 |
| VCR | 3035 | 426807 | 4140019 | 426773 | 4140037 | 1949 | 2013 | 0.37 | 0.24 | 0.26 | 0.06 | 0.26 | 0.99 | 4 |
| VCR | 3036 | 426829 | 4140063 | 426796 | 4140084 | 1949 | 2013 | 0.06 | 0.35 | 0.29 | 0.06 | 0.30 | 0.97 | 4 |
| VCR | 3037 | 426859 | 4140103 | 426821 | 4140130 | 1949 | 2013 | 0.23 | 0.43 | 0.38 | 0.06 | 0.40 | 0.99 | 4 |
| VCR | 3038 | 426889 | 4140143 | 426856 | 4140172 | 1949 | 2013 | 0.40 | 0.33 | 0.35 | 0.06 | 0.35 | 1.00 | 4 |
| VCR | 3039 | 426933 | 4140161 | 426886 | 4140204 | 1949 | 2013 | 0.25 | 0.37 | 0.35 | 0.06 | 0.35 | 1.00 | 4 |
| VCR | 3040 | 426982 | 4140169 | 426910 | 4140230 | 1949 | 2013 | 0.16 | 0.39 | 0.34 | 0.06 | 0.35 | 0.99 | 4 |
| VCR | 3041 | 427032 | 4140176 | 426939 | 4140261 | 1949 | 2013 | 0.30 | 0.20 | 0.22 | 0.06 | 0.22 | 0.99 | 4 |
| VCR | 3042 | 427119 | 4140224 | 427012 | 4140331 | 1949 | 2013 | 0.59 | 2.31 | 1.93 | 0.06 | 2.03 | 0.98 | 4 |
| VCR | 3043 | 427162 | 4140249 | 427051 | 4140360 | 1949 | 2013 | 0.51 | 2.44 | 2.01 | 0.06 | 2.12 | 0.97 | 4 |
| VCR | 3044 | 427203 | 4140278 | 427093 | 4140399 | 1949 | 2013 | 0.82 | 2.47 | 2.10 | 0.06 | 2.20 | 0.98 | 4 |
| VCR | 3045 | 427239 | 4140312 | 427125 | 4140427 | 1949 | 2013 | 1.05 | 2.37 | 2.08 | 0.06 | 2.16 | 0.99 | 4 |
| VCR | 3046 | 427271 | 4140351 | 427152 | 4140458 | 1949 | 2013 | 1.24 | 2.30 | 2.06 | 0.06 | 2.13 | 0.99 | 4 |
| VCR | 3047 | 427296 | 4140394 | 427175 | 4140480 | 1949 | 2013 | 1.31 | 2.03 | 1.87 | 0.06 | 1.91 | 1.00 | 4 |
| VCR | 3048 | 427311 | 4140441 | 427195 | 4140503 | 1949 | 2013 | 1.59 | 1.63 | 1.62 | 0.06 | 1.63 | 1.00 | 4 |
| VCR | 3049 | 427317 | 4140491 | 427207 | 4140524 | 1949 | 2013 | 1.78 | 1.27 | 1.38 | 0.06 | 1.35 | 1.00 | 4 |
| VCR | 3050 | 427317 | 4140541 | 427215 | 4140549 | 1949 | 2013 | 1.84 | 1.03 | 1.20 | 0.06 | 1.16 | 0.98 | 4 |
| VCR | 3051 | 427310 | 4140590 | 427214 | 4140578 | 1949 | 2013 | 1.44 | 1.05 | 1.13 | 0.06 | 1.11 | 1.00 | 4 |
| VCR | 3052 | 427296 | 4140638 | 427204 | 4140608 | 1949 | 2013 | 1.41 | 1.05 | 1.13 | 0.06 | 1.11 | 1.00 | 4 |
| VCR | 3053 | 427274 | 4140683 | 427191 | 4140633 | 1949 | 2013 | 1.05 | 1.16 | 1.14 | 0.06 | 1.14 | 1.00 | 4 |
| VCR | 3054 | 427241 | 4140720 | 427177 | 4140656 | 1949 | 2013 | 0.67 | 1.14 | 1.04 | 0.06 | 1.07 | 0.99 | 4 |
| VCR | 3055 | 427199 | 4140747 | 427155 | 4140677 | 1949 | 2013 | -0.05 | 1.17 | 0.90 | 0.06 | 0.97 | 0.95 | 4 |
| VCR | 3056 | 427152 | 4140764 | 427124 | 4140688 | 1949 | 2013 | -0.35 | 1.13 | 0.81 | 0.06 | 0.89 | 0.92 | 4 |
| VCR | 3057 | 427103 | 4140773 | 427086 | 4140692 | 1949 | 2013 | -0.67 | 1.19 | 0.78 | 0.06 | 0.89 | 0.88 | 4 |
| VCR | 3058 | 427053 | 4140777 | 427048 | 4140697 | 1949 | 2013 | -0.41 | 1.14 | 0.80 | 0.06 | 0.89 | 0.91 | 4 |
| VCR | 3059 | 427003 | 4140777 | 426999 | 4140691 | 1949 | 2013 | -0.63 | 1.23 | 0.82 | 0.06 | 0.93 | 0.89 | 4 |
| VCR | 3060 | 426954 | 4140770 | 426953 | 4140691 | 1949 | 2013 | -0.63 | 1.10 | 0.72 | 0.06 | 0.82 | 0.88 | 4 |
| VCR | 3061 | 426905 | 4140764 | 426909 | 4140682 | 1949 | 2013 | -1.00 | 1.16 | 0.68 | 0.06 | 0.81 | 0.81 | 4 |
| VCR | 3062 | 426856 | 4140752 | 426862 | 4140680 | 1949 | 2013 | -0.59 | 0.99 | 0.65 | 0.06 | 0.74 | 0.87 | 4 |
| VCR | 3063 | 426807 | 4140741 | 426813 | 4140668 | 1949 | 2013 | -0.74 | 1.01 | 0.63 | 0.06 | 0.73 | 0.84 | 4 |
| VCR | 3064 | 426759 | 4140730 | 426767 | 4140662 | 1949 | 2013 | -0.74 | 0.92 | 0.56 | 0.06 | 0.65 | 0.83 | 4 |
| VCR | 3065 | 426710 | 4140717 | 426718 | 4140659 | 1949 | 2013 | -0.44 | 0.72 | 0.46 | 0.06 | 0.53 | 0.87 | 4 |
| VCR | 3066 | 426663 | 4140701 | 426668 | 4140656 | 1949 | 2013 | -0.10 | 0.48 | 0.35 | 0.06 | 0.38 | 0.93 | 4 |
| VCR | 3067 | 426615 | 4140688 | 426622 | 4140648 | 1949 | 2013 | -0.29 | 0.40 | 0.25 | 0.06 | 0.29 | 0.85 | 4 |
| VCR | 3068 | 426566 | 4140681 | 426572 | 4140644 | 1949 | 2013 | -0.11 | 0.34 | 0.24 | 0.06 | 0.27 | 0.92 | 4 |
| VCR | 3069 | 426516 | 4140677 | 426524 | 4140632 | 1949 | 2013 | -0.53 | 0.47 | 0.25 | 0.06 | 0.30 | 0.74 | 4 |
| VCR | 3070 | 426466 | 4140672 | 426475 | 4140624 | 1949 | 2013 | -0.07 | 0.55 | 0.42 | 0.06 | 0.45 | 0.94 | 4 |
| VCR | 3071 | 426417 | 4140662 | 426427 | 4140615 | 1949 | 2013 | 0.06 | 0.51 | 0.41 | 0.06 | 0.44 | 0.97 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 3072 | 426368 | 4140652 | 426375 | 4140604 | 1949 | 2013 | -0.11 | 0.55 | 0.41 | 0.06 | 0.44 | 0.93 | 4 |
| VCR | 3073 | 426319 | 4140642 | 426328 | 4140594 | 1949 | 2013 | -0.45 | 0.55 | 0.33 | 0.06 | 0.39 | 0.82 | 4 |
| VCR | 3074 | 426270 | 4140632 | 426280 | 4140584 | 1949 | 2013 | -0.23 | 0.52 | 0.36 | 0.06 | 0.40 | 0.90 | 4 |
| VCR | 3075 | 426222 | 4140620 | 426232 | 4140572 | 1949 | 2013 | 0.58 | 0.38 | 0.42 | 0.06 | 0.41 | 0.99 | 4 |
| VCR | 3076 | 426173 | 4140607 | 426185 | 4140561 | 1949 | 2013 | 0.28 | 0.44 | 0.40 | 0.06 | 0.41 | 1.00 | 4 |
| VCR | 3077 | 426126 | 4140593 | 426138 | 4140549 | 1949 | 2013 | 0.11 | 0.47 | 0.39 | 0.06 | 0.41 | 0.98 | 4 |
| VCR | 3078 | 426077 | 4140582 | 426090 | 4140533 | 1949 | 2013 | 0.58 | 0.40 | 0.44 | 0.06 | 0.43 | 0.99 | 4 |
| VCR | 3079 | 426028 | 4140571 | 426041 | 4140523 | 1949 | 2013 | 0.57 | 0.40 | 0.44 | 0.06 | 0.43 | 1.00 | 4 |
| VCR | 3080 | 425980 | 4140557 | 425993 | 4140509 | 1949 | 2013 | 0.35 | 0.46 | 0.44 | 0.06 | 0.44 | 1.00 | 4 |
| VCR | 3081 | 425932 | 4140545 | 425945 | 4140499 | 1949 | 2013 | 0.34 | 0.43 | 0.41 | 0.06 | 0.41 | 1.00 | 4 |
| VCR | 3082 | 425883 | 4140536 | 425903 | 4140481 | 1949 | 2013 | NA | NA | 0.55 | 0.06 | 0.55 | 0.00 | 4 |
| VCR | 3083 | 425836 | 4140520 | 425857 | 4140467 | 1949 | 2013 | 0.53 | 0.56 | 0.55 | 0.06 | 0.55 | 1.00 | 4 |
| VCR | 3084 | 425788 | 4140504 | 425818 | 4140451 | 1949 | 2013 | 0.43 | 0.64 | 0.59 | 0.06 | 0.61 | 1.00 | 4 |
| VCR | 3085 | 425741 | 4140489 | 425781 | 4140433 | 1949 | 2013 | 0.40 | 0.81 | 0.72 | 0.06 | 0.74 | 0.99 | 4 |
| VCR | 3086 | 425700 | 4140461 | 425744 | 4140406 | 1949 | 2013 | 0.50 | 0.80 | 0.73 | 0.06 | 0.75 | 0.99 | 4 |
| VCR | 3087 | 425663 | 4140427 | 425703 | 4140380 | 1949 | 2013 | 0.30 | 0.70 | 0.61 | 0.06 | 0.64 | 0.99 | 4 |
| VCR | 3088 | 425631 | 4140389 | 425668 | 4140351 | 1949 | 2013 | -0.11 | 0.62 | 0.46 | 0.06 | 0.51 | 0.94 | 4 |
| VCR | 3089 | 425601 | 4140349 | 425632 | 4140319 | 1949 | 2013 | 0.22 | 0.37 | 0.33 | 0.06 | 0.34 | 0.99 | 4 |
| VCR | 3090 | 425568 | 4140312 | 425598 | 4140281 | 1949 | 2013 | -0.01 | 0.43 | 0.33 | 0.06 | 0.36 | 0.95 | 4 |
| VCR | 3091 | 425537 | 4140273 | 425569 | 4140241 | 1949 | 2013 | 0.15 | 0.43 | 0.37 | 0.06 | 0.38 | 0.98 | 4 |
| VCR | 3092 | 425510 | 4140232 | 425544 | 4140203 | 1949 | 2013 | NA | NA | 0.34 | 0.06 | 0.34 | 0.00 | 4 |
| VCR | 3093 | 425493 | 4140185 | 425517 | 4140168 | 1949 | 2013 | 0.15 | 0.13 | 0.14 | 0.06 | 0.13 | 1.00 | 4 |
| VCR | 3094 | 425471 | 4140140 | 425491 | 4140128 | 1949 | 2013 | 0.02 | 0.06 | 0.05 | 0.06 | 0.05 | 0.98 | 4 |
| VCR | 3095 | 428034 | 4147725 | 428021 | 4147688 | 1949 | 2013 | -0.19 | 0.26 | 0.16 | 0.06 | 0.19 | 0.85 | 5 |
| VCR | 3096 | 428056 | 4147681 | 428034 | 4147660 | 1949 | 2013 | -0.48 | 0.17 | 0.02 | 0.06 | 0.06 | 0.22 | 5 |
| VCR | 3097 | 428072 | 4147633 | 428044 | 4147618 | 1949 | 2013 | -0.59 | 0.20 | 0.03 | 0.06 | 0.07 | 0.22 | 5 |
| VCR | 3098 | 428086 | 4147586 | 428057 | 4147574 | 1949 | 2013 | -0.74 | 0.21 | 0.00 | 0.06 | 0.05 | 0.09 | 5 |
| VCR | 3099 | 428103 | 4147539 | 428076 | 4147529 | 1949 | 2013 | -0.59 | 0.08 | -0.07 | 0.06 | -0.03 | 0.05 | 5 |
| VCR | 3100 | 428119 | 4147492 | 428092 | 4147482 | 1949 | 2013 | -0.31 | -0.06 | -0.12 | 0.06 | -0.10 | 0.84 | 5 |
| VCR | 3101 | 428133 | 4147445 | 428107 | 4147436 | 1949 | 2013 | -0.45 | -0.02 | -0.11 | 0.06 | -0.09 | 0.57 | 5 |
| VCR | 3102 | 428144 | 4147397 | 428119 | 4147390 | 1949 | 2013 | -0.40 | 0.00 | -0.09 | 0.06 | -0.07 | 0.45 | 5 |
| VCR | 3103 | 428156 | 4147349 | 428132 | 4147343 | 1949 | 2013 | -0.28 | 0.00 | -0.06 | 0.06 | -0.05 | 0.50 | 5 |
| VCR | 3104 | 428172 | 4147302 | 428144 | 4147296 | 1949 | 2013 | -0.14 | -0.10 | -0.11 | 0.06 | -0.11 | 1.00 | 5 |
| VCR | 3105 | 428177 | 4147253 | 428155 | 4147245 | 1949 | 2013 | 0.14 | -0.05 | -0.01 | 0.06 | -0.02 | 0.32 | 5 |
| VCR | 3106 | 428184 | 4147203 | 428160 | 4147193 | 1949 | 2013 | -0.17 | 0.10 | 0.04 | 0.06 | 0.05 | 0.55 | 5 |
| VCR | 3107 | 428195 | 4147154 | 428169 | 4147143 | 1949 | 2013 | 0.40 | 0.03 | 0.11 | 0.06 | 0.09 | 0.66 | 5 |
| VCR | 3108 | 428226 | 4147061 | 428196 | 4147045 | 1949 | 2013 | 0.73 | 0.03 | 0.18 | 0.06 | 0.14 | 0.56 | 5 |
| VCR | 3109 | 428244 | 4147015 | 428212 | 4147000 | 1949 | 2013 | 0.90 | 0.04 | 0.23 | 0.06 | 0.18 | 0.58 | 5 |
| VCR | 3110 | 428268 | 4146971 | 428232 | 4146959 | 1949 | 2013 | NA | 0.09 | NA | 0.08 | 0.09 | 0.00 | 5 |
| VCR | 3111 | 425369 | 4139926 | 425407 | 4139909 | 1949 | 2013 | -0.15 | -0.36 | -0.32 | 0.06 | -0.33 | 0.99 | 5 |
| VCR | 3112 | 425389 | 4139972 | 425424 | 4139958 | 1949 | 2013 | -0.19 | -0.27 | -0.26 | 0.06 | -0.26 | 1.00 | 5 |
| VCR | 3113 | 425407 | 4140016 | 425436 | 4140006 | 1949 | 2013 | -0.34 | 0.15 | 0.04 | 0.06 | 0.07 | 0.40 | 5 |
| VCR | 3114 | 425408 | 4140065 | 425457 | 4140047 | 1949 | 2013 | -0.23 | 0.61 | 0.43 | 0.06 | 0.47 | 0.91 | 5 |
| VCR | 3115 | 425440 | 4140103 | 425475 | 4140086 | 1949 | 2013 | 0.18 | 0.28 | 0.26 | 0.06 | 0.26 | 1.00 | 5 |
| VCR | 3116 | 424955 | 4139346 | 425050 | 4139388 | 1949 | 2013 | -0.31 | -1.13 | -0.99 | 0.06 | -1.03 | 0.99 | 5 |
| VCR | 3117 | 424986 | 4139384 | 425043 | 4139391 | 1949 | 2013 | 0.02 | -0.56 | -0.46 | 0.06 | -0.50 | 0.97 | 5 |
| VCR | 3118 | 425022 | 4139419 | 425056 | 4139409 | 1949 | 2013 | -1.13 | 0.02 | -0.18 | 0.06 | -0.11 | 0.32 | 5 |
| VCR | 3119 | 425057 | 4139455 | 425085 | 4139438 | 1949 | 2013 | -0.22 | -0.18 | -0.18 | 0.06 | -0.18 | 1.00 | 5 |
| VCR | 3120 | 425092 | 4139490 | 425120 | 4139467 | 1949 | 2013 | -1.48 | 0.05 | -0.21 | 0.06 | -0.13 | 0.27 | 5 |
| VCR | 3121 | 425127 | 4139525 | 425154 | 4139502 | 1949 | 2013 | -0.38 | -0.21 | -0.24 | 0.06 | -0.23 | 0.99 | 5 |
| VCR | 3122 | 425160 | 4139562 | 425188 | 4139544 | 1949 | 2013 | -0.15 | -0.21 | -0.20 | 0.06 | -0.20 | 1.00 | 5 |
| VCR | 3123 | 425193 | 4139599 | 425211 | 4139587 | 1949 | 2013 | NA | NA | -0.02 | 0.06 | -0.02 | 0.00 | 5 |
| VCR | 3124 | 425244 | 4139682 | 425266 | 4139665 | 1949 | 2013 | 0.08 | 0.06 | 0.06 | 0.06 | 0.06 | 1.00 | 5 |
| VCR | 3125 | 425270 | 4139724 | 425289 | 4139710 | 1949 | 2013 | 0.26 | 0.01 | 0.05 | 0.06 | 0.04 | 0.53 | 5 |
| VCR | 3126 | 425296 | 4139765 | 425321 | 4139744 | 1949 | 2013 | -0.03 | 0.25 | 0.20 | 0.06 | 0.22 | 0.97 | 5 |
| VCR | 3127 | 425314 | 4139812 | 425334 | 4139795 | 1949 | 2013 | 0.30 | 0.00 | 0.05 | 0.06 | 0.04 | 0.42 | 5 |
| VCR | 3128 | 425331 | 4139857 | 425358 | 4139831 | 1949 | 2013 | 0.75 | -0.33 | -0.14 | 0.06 | -0.20 | 0.63 | 5 |
| VCR | 3129 | 428288 | 4146926 | 428265 | 4146919 | 1949 | 2013 | 0.12 | 0.04 | 0.06 | 0.06 | 0.05 | 0.93 | 6 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 3130 | 428307 | 4146880 | 428286 | 4146874 | 1949 | 2013 | 0.11 | -0.03 | 0.00 | 0.06 | 0.00 | 0.04 | 6 |
| VCR | 3131 | 428325 | 4146834 | 428299 | 4146830 | 1949 | 2013 | -0.05 | -0.10 | -0.09 | 0.06 | -0.09 | 0.99 | 6 |
| VCR | 3132 | 428342 | 4146788 | 428301 | 4146791 | 1949 | 2013 | -0.10 | -0.33 | -0.28 | 0.06 | -0.30 | 0.98 | 6 |
| VCR | 3133 | 428348 | 4146740 | 428307 | 4146750 | 1949 | 2013 | 0.14 | -0.37 | -0.26 | 0.06 | -0.29 | 0.91 | 6 |
| VCR | 3134 | 428348 | 4146695 | 428295 | 4146712 | 1949 | 2013 | 0.44 | -0.67 | -0.43 | 0.06 | -0.49 | 0.86 | 6 |
| VCR | 3135 | 428327 | 4146655 | 428276 | 4146682 | 1949 | 2013 | -0.24 | -0.49 | -0.43 | 0.06 | -0.45 | 0.99 | 6 |
| VCR | 3136 | 428306 | 4146618 | 428257 | 4146661 | 1949 | 2013 | 1.00 | -0.84 | -0.44 | 0.06 | -0.54 | 0.73 | 6 |
| VCR | 3137 | 428260 | 4146598 | 428239 | 4146626 | 1949 | 2013 | 0.83 | -0.28 | -0.03 | 0.06 | -0.10 | 0.19 | 6 |
| VCR | 3138 | 428213 | 4146583 | 428195 | 4146614 | 1949 | 2013 | 1.01 | -0.11 | 0.14 | 0.06 | 0.07 | 0.12 | 6 |
| VCR | 3139 | 428164 | 4146579 | 428154 | 4146606 | 1949 | 2013 | 0.56 | 0.00 | 0.12 | 0.06 | 0.09 | 0.42 | 6 |
| VCR | 3140 | 428115 | 4146569 | 428108 | 4146596 | 1949 | 2013 | 0.51 | -0.01 | 0.10 | 0.06 | 0.07 | 0.39 | 6 |
| VCR | 3141 | 428068 | 4146555 | 428059 | 4146580 | 1949 | 2013 | 0.46 | -0.08 | 0.04 | 0.06 | 0.01 | 0.01 | 6 |
| VCR | 3142 | 428020 | 4146541 | 428009 | 4146564 | 1949 | 2013 | 0.34 | -0.06 | 0.03 | 0.06 | 0.01 | 0.01 | 6 |
| VCR | 3143 | 427977 | 4146516 | 427962 | 4146540 | 1949 | 2013 | 0.57 | -0.16 | 0.00 | 0.06 | -0.04 | 0.09 | 6 |
| VCR | 3144 | 427937 | 4146489 | 427920 | 4146509 | 1949 | 2013 | 0.36 | -0.10 | 0.00 | 0.06 | -0.02 | 0.08 | 6 |
| VCR | 3145 | 427900 | 4146456 | 427882 | 4146471 | 1949 | 2013 | 0.05 | -0.05 | -0.03 | 0.06 | -0.03 | 0.76 | 6 |
| VCR | 3146 | 427872 | 4146415 | 427851 | 4146429 | 1949 | 2013 | -0.16 | -0.05 | -0.07 | 0.06 | -0.06 | 0.91 | 6 |
| VCR | 3147 | 427853 | 4146369 | 427830 | 4146383 | 1949 | 2013 | 0.09 | -0.11 | -0.06 | 0.06 | -0.08 | 0.81 | 6 |
| VCR | 3148 | 427840 | 4146321 | 427813 | 4146336 | 1949 | 2013 | -0.38 | -0.09 | -0.15 | 0.06 | -0.14 | 0.88 | 6 |
| VCR | 3149 | 427819 | 4146276 | 427792 | 4146292 | 1949 | 2013 | 0.02 | -0.19 | -0.14 | 0.06 | -0.15 | 0.95 | 6 |
| VCR | 3150 | 427575 | 4145961 | 427541 | 4145981 | 1949 | 2013 | -1.28 | 0.35 | -0.01 | 0.06 | 0.09 | 0.08 | 6 |
| VCR | 3151 | 427564 | 4145913 | 427524 | 4145928 | 1949 | 2013 | -1.25 | 0.42 | 0.05 | 0.06 | 0.15 | 0.20 | 6 |
| VCR | 3152 | 427556 | 4145864 | 427517 | 4145870 | 1949 | 2013 | -1.26 | 0.27 | -0.06 | 0.06 | 0.03 | 0.01 | 6 |
| VCR | 3153 | 427551 | 4145816 | 427520 | 4145813 | 1949 | 2013 | -0.59 | 0.20 | 0.03 | 0.06 | 0.08 | 0.22 | 6 |
| VCR | 3154 | 427560 | 4145770 | 427526 | 4145765 | 1949 | 2013 | -0.91 | 0.11 | -0.12 | 0.06 | -0.06 | 0.09 | 6 |
| VCR | 3155 | 427566 | 4145722 | 427535 | 4145712 | 1949 | 2013 | -0.82 | 0.11 | -0.09 | 0.06 | -0.04 | 0.06 | 6 |
| VCR | 3156 | 427589 | 4145682 | 427527 | 4145663 | 1949 | 2013 | 0.25 | -0.16 | -0.07 | 0.06 | -0.09 | 0.61 | 6 |
| VCR | 3157 | 427626 | 4145664 | 427526 | 4145652 | 1949 | 2013 | -2.89 | 0.31 | -0.39 | 0.06 | -0.21 | 0.11 | 6 |
| VCR | 3158 | 427629 | 4145617 | 427574 | 4145615 | 1949 | 2013 | -0.77 | NA | NA | 0.27 | -0.77 | 0.00 | 6 |
| VCR | 3159 | 427608 | 4145573 | 427550 | 4145574 | 1949 | 2013 | -1.36 | -0.32 | -0.54 | 0.06 | -0.48 | 0.87 | 6 |
| VCR | 3160 | 427610 | 4145524 | 427563 | 4145530 | 1949 | 2013 | -0.51 | 0.01 | -0.11 | 0.06 | -0.08 | 0.40 | 6 |
| VCR | 3161 | 427605 | 4145475 | 427570 | 4145481 | 1949 | 2013 | -0.99 | 0.14 | -0.11 | 0.06 | -0.04 | 0.04 | 6 |
| VCR | 3162 | 427595 | 4145426 | 427565 | 4145432 | 1949 | 2013 | -0.69 | 0.05 | -0.11 | 0.06 | -0.07 | 0.21 | 6 |
| VCR | 3163 | 427600 | 4145378 | 427580 | 4145378 | 1949 | 2013 | NA | NA | 0.01 | 0.06 | 0.01 | 0.00 | 6 |
| VCR | 3164 | 427932 | 4144902 | 427878 | 4144822 | 1949 | 2013 | 3.73 | 0.47 | 1.03 | 0.06 | 0.85 | 0.77 | 6 |
| VCR | 3165 | 427937 | 4144860 | 427892 | 4144808 | 1949 | 2013 | 2.73 | 0.21 | 0.64 | 0.06 | 0.50 | 0.66 | 6 |
| VCR | 3166 | 427936 | 4144810 | 427905 | 4144782 | 1949 | 2013 | 0.70 | 0.19 | 0.28 | 0.06 | 0.25 | 0.92 | 6 |
| VCR | 3167 | 427958 | 4144767 | 427928 | 4144745 | 1949 | 2013 | 0.21 | 0.27 | 0.26 | 0.06 | 0.27 | 1.00 | 6 |
| VCR | 3168 | 427991 | 4144730 | 427964 | 4144709 | 1949 | 2013 | 0.05 | 0.21 | 0.18 | 0.06 | 0.19 | 0.99 | 6 |
| VCR | 3169 | 428026 | 4144694 | 428002 | 4144670 | 1949 | 2013 | -1.09 | 0.23 | 0.01 | 0.06 | 0.08 | 0.15 | 6 |
| VCR | 3170 | 428069 | 4144669 | 428047 | 4144645 | 1949 | 2013 | -0.89 | 0.23 | 0.04 | 0.06 | 0.10 | 0.27 | 6 |
| VCR | 3171 | 428112 | 4144643 | 428089 | 4144614 | 1949 | 2013 | -0.59 | 0.29 | 0.14 | 0.06 | 0.19 | 0.69 | 6 |
| VCR | 3172 | 428152 | 4144614 | 428130 | 4144579 | 1949 | 2013 | -1.16 | 0.40 | 0.13 | 0.06 | 0.22 | 0.49 | 6 |
| VCR | 3173 | 428193 | 4144586 | 428173 | 4144551 | 1949 | 2013 | -1.81 | 0.28 | -0.07 | 0.06 | 0.04 | 0.02 | 6 |
| VCR | 3174 | 428237 | 4144563 | 428217 | 4144527 | 1949 | 2013 | -1.93 | 0.06 | -0.28 | 0.06 | -0.17 | 0.26 | 6 |
| VCR | 3175 | 428280 | 4144538 | 428255 | 4144500 | 1949 | 2013 | -2.31 | 0.08 | -0.33 | 0.06 | -0.20 | 0.25 | 6 |
| VCR | 3176 | 428324 | 4144515 | 428293 | 4144478 | 1949 | 2013 | -2.55 | -0.02 | -0.45 | 0.06 | -0.32 | 0.44 | 6 |
| VCR | 3177 | 428355 | 4144477 | 428326 | 4144456 | 1949 | 2013 | -1.44 | 0.28 | -0.01 | 0.06 | 0.08 | 0.09 | 6 |
| VCR | 3178 | 428383 | 4144436 | 428350 | 4144429 | 1949 | 2013 | -1.21 | 0.15 | -0.08 | 0.06 | -0.01 | 0.00 | 6 |
| VCR | 3179 | 428385 | 4144389 | 428347 | 4144392 | 1949 | 2013 | 1.20 | 0.08 | 0.27 | 0.06 | 0.21 | 0.63 | 6 |
| VCR | 3180 | 428375 | 4144342 | 428324 | 4144363 | 1949 | 2013 | 1.20 | 0.32 | 0.47 | 0.06 | 0.42 | 0.92 | 6 |
| VCR | 3181 | 428350 | 4144257 | 428295 | 4144304 | 1949 | 2013 | -1.24 | 0.79 | 0.44 | 0.06 | 0.55 | 0.78 | 6 |
| VCR | 3182 | 428381 | 4144219 | 428286 | 4144298 | 1949 | 2013 | -1.54 | 1.19 | 0.73 | 0.06 | 0.88 | 0.83 | 6 |
| VCR | 3183 | 428413 | 4144185 | 428290 | 4144302 | 1949 | 2013 | -1.17 | 2.66 | 2.00 | 0.06 | 2.21 | 0.94 | 6 |
| VCR | 3184 | 428439 | 4144145 | 428274 | 4144277 | 1949 | 2013 | -0.70 | 3.32 | 2.64 | 0.06 | 2.85 | 0.96 | 6 |
| VCR | 3185 | 428467 | 4144107 | 428254 | 4144252 | 1949 | 2013 | 0.97 | 4.17 | 3.62 | 0.06 | 3.79 | 0.99 | 6 |
| VCR | 3186 | 428428 | 4144102 | 428235 | 4144218 | 1949 | 2013 | 1.38 | 3.35 | 3.01 | 0.06 | 3.12 | 0.99 | 6 |
| VCR | 3187 | 428331 | 4144109 | 428212 | 4144172 | 1949 | 2013 | 1.79 | -0.02 | 0.29 | 0.06 | 0.19 | 0.36 | 6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 3188 | 428287 | 4144127 | 428207 | 4144168 | 1949 | 2013 | 2.13 | -0.25 | 0.15 | 0.06 | 0.02 | 0.01 | 6 |
| VCR | 3189 | 428294 | 4144172 | 428232 | 4144211 | 1949 | 2013 | 0.87 | 0.40 | 0.48 | 0.06 | 0.46 | 0.98 | 6 |
| VCR | 3190 | 428272 | 4144176 | 428231 | 4144205 | 1949 | 2013 | 0.78 | 0.40 | 0.47 | 0.06 | 0.45 | 0.99 | 6 |
| VCR | 3191 | 428239 | 4144141 | 428201 | 4144164 | 1949 | 2013 | 2.05 | -0.27 | 0.13 | 0.06 | 0.00 | 0.00 | 6 |
| VCR | 3192 | 428196 | 4144117 | 428163 | 4144136 | 1949 | 2013 | 1.17 | -0.27 | -0.02 | 0.06 | -0.10 | 0.19 | 6 |
| VCR | 3193 | 428163 | 4144084 | 428139 | 4144098 | 1949 | 2013 | -0.64 | 0.12 | -0.01 | 0.06 | 0.03 | 0.08 | 6 |
| VCR | 3194 | 428139 | 4144040 | 428115 | 4144051 | 1949 | 2013 | -0.52 | 0.07 | -0.03 | 0.06 | 0.00 | 0.00 | 6 |
| VCR | 3195 | 428108 | 4144001 | 428077 | 4144005 | 1949 | 2013 | -0.89 | 0.19 | 0.01 | 0.06 | 0.06 | 0.15 | 6 |
| VCR | 3196 | 428090 | 4143955 | 428049 | 4143955 | 1949 | 2013 | -1.48 | 0.38 | 0.07 | 0.06 | 0.17 | 0.29 | 6 |
| VCR | 3197 | 428106 | 4143916 | 428052 | 4143917 | 1949 | 2013 | -1.46 | 0.45 | 0.12 | 0.06 | 0.23 | 0.41 | 6 |
| VCR | 3198 | 428148 | 4143895 | 428051 | 4143912 | 1949 | 2013 | -1.06 | 0.49 | 0.23 | 0.06 | 0.31 | 0.66 | 6 |
| VCR | 3199 | 428131 | 4143866 | 428057 | 4143891 | 1949 | 2013 | 0.14 | -0.41 | -0.31 | 0.06 | -0.34 | 0.95 | 6 |
| VCR | 3200 | 428085 | 4143850 | 428058 | 4143867 | 1949 | 2013 | -0.91 | -0.01 | -0.16 | 0.06 | -0.11 | 0.44 | 6 |
| VCR | 3201 | 428048 | 4143818 | 428019 | 4143838 | 1949 | 2013 | -1.30 | 0.00 | -0.22 | 0.06 | -0.15 | 0.39 | 6 |
| VCR | 3202 | 428015 | 4143781 | 427981 | 4143802 | 1949 | 2013 | -1.78 | 0.08 | -0.24 | 0.06 | -0.14 | 0.22 | 6 |
| VCR | 3203 | 427985 | 4143741 | 427950 | 4143755 | 1949 | 2013 | -1.45 | -0.03 | -0.27 | 0.06 | -0.20 | 0.48 | 6 |
| VCR | 3204 | 427980 | 4143693 | 427942 | 4143706 | 1949 | 2013 | -1.54 | -0.03 | -0.28 | 0.06 | -0.20 | 0.47 | 6 |
| VCR | 3205 | 427995 | 4143646 | 427947 | 4143660 | 1949 | 2013 | -2.29 | -0.09 | -0.46 | 0.06 | -0.34 | 0.54 | 6 |
| VCR | 3206 | 427955 | 4143619 | 427915 | 4143631 | 1949 | 2013 | -1.40 | -0.07 | -0.30 | 0.06 | -0.22 | 0.58 | 6 |
| VCR | 3207 | 427934 | 4143575 | 427889 | 4143598 | 1949 | 2013 | -2.25 | 0.08 | -0.32 | 0.06 | -0.19 | 0.25 | 6 |
| VCR | 3208 | 427950 | 4143530 | 427889 | 4143575 | 1949 | 2013 | -4.17 | -0.14 | -0.82 | 0.06 | -0.61 | 0.52 | 6 |
| VCR | 3209 | 427906 | 4143512 | 427861 | 4143534 | 1949 | 2013 | -2.13 | 0.00 | -0.36 | 0.06 | -0.24 | 0.39 | 6 |
| VCR | 3210 | 427861 | 4143489 | 427825 | 4143511 | 1949 | 2013 | -1.87 | -0.03 | -0.34 | 0.06 | -0.24 | 0.46 | 6 |
| VCR | 3211 | 427844 | 4143443 | 427793 | 4143471 | 1949 | 2013 | -2.34 | -0.23 | -0.59 | 0.06 | -0.47 | 0.71 | 6 |
| VCR | 3212 | 427816 | 4143402 | 427776 | 4143421 | 1949 | 2013 | -2.17 | 0.03 | -0.35 | 0.06 | -0.23 | 0.35 | 6 |
| VCR | 3213 | 427825 | 4143356 | 427767 | 4143384 | 1949 | 2013 | -3.57 | 0.18 | -0.46 | 0.06 | -0.26 | 0.19 | 6 |
| VCR | 3214 | 427802 | 4143327 | 427771 | 4143351 | 1949 | 2013 | -1.12 | -0.09 | -0.26 | 0.06 | -0.21 | 0.67 | 6 |
| VCR | 3215 | 427757 | 4143306 | 427724 | 4143326 | 1949 | 2013 | -1.27 | 0.01 | -0.21 | 0.06 | -0.14 | 0.36 | 6 |
| VCR | 3216 | 427717 | 4143277 | 427681 | 4143300 | 1949 | 2013 | -2.01 | 0.04 | -0.31 | 0.06 | -0.20 | 0.32 | 6 |
| VCR | 3217 | 427686 | 4143239 | 427654 | 4143260 | 1949 | 2013 | -1.40 | -0.05 | -0.28 | 0.06 | -0.20 | 0.53 | 6 |
| VCR | 3218 | 427697 | 4143192 | 427651 | 4143227 | 1949 | 2013 | -2.10 | 0.09 | -0.28 | 0.06 | -0.16 | 0.22 | 6 |
| VCR | 3219 | 427688 | 4143152 | 427647 | 4143177 | 1949 | 2013 | -1.64 | -0.14 | -0.40 | 0.06 | -0.32 | 0.69 | 6 |
| VCR | 3220 | 427639 | 4143145 | 427608 | 4143174 | 1949 | 2013 | -1.60 | 0.20 | -0.11 | 0.06 | -0.01 | 0.00 | 6 |
| VCR | 3221 | 427595 | 4143125 | 427573 | 4143153 | 1949 | 2013 | -1.23 | 0.01 | -0.20 | 0.06 | -0.14 | 0.38 | 6 |
| VCR | 3222 | 427564 | 4143087 | 427540 | 4143116 | 1949 | 2013 | -1.50 | -0.02 | -0.27 | 0.06 | -0.19 | 0.46 | 6 |
| VCR | 3223 | 427525 | 4143056 | 427502 | 4143076 | 1949 | 2013 | -0.96 | 0.01 | -0.16 | 0.06 | -0.10 | 0.36 | 6 |
| VCR | 3224 | 427490 | 4143021 | 427467 | 4143036 | 1949 | 2013 | -0.55 | 0.08 | -0.02 | 0.06 | 0.01 | 0.01 | 6 |
| VCR | 3225 | 427458 | 4142983 | 427432 | 4142996 | 1949 | 2013 | -0.61 | -0.04 | -0.14 | 0.06 | -0.11 | 0.65 | 6 |
| VCR | 3226 | 427450 | 4142937 | 427419 | 4142952 | 1949 | 2013 | -0.94 | 0.04 | -0.13 | 0.06 | -0.07 | 0.22 | 6 |
| VCR | 3227 | 427449 | 4142888 | 427418 | 4142912 | 1949 | 2013 | -0.64 | -0.15 | -0.23 | 0.06 | -0.21 | 0.90 | 6 |
| VCR | 3228 | 427455 | 4142848 | 427383 | 4142900 | 1949 | 2013 | 2.75 | -0.47 | 0.08 | 0.06 | -0.09 | 0.04 | 6 |
| VCR | 3229 | 427406 | 4142855 | 427378 | 4142886 | 1949 | 2013 | 0.44 | -0.18 | -0.07 | 0.06 | -0.11 | 0.60 | 6 |
| VCR | 3230 | 427367 | 4142839 | 427344 | 4142867 | 1949 | 2013 | -1.48 | 0.13 | -0.15 | 0.06 | -0.06 | 0.06 | 6 |
| VCR | 3231 | 427330 | 4142806 | 427295 | 4142817 | 1949 | 2013 | -1.33 | 0.13 | -0.12 | 0.06 | -0.04 | 0.03 | 6 |
| VCR | 3232 | 427341 | 4142779 | 427262 | 4142775 | 1949 | 2013 | -5.08 | 0.13 | -0.76 | 0.06 | -0.48 | 0.29 | 6 |
| VCR | 3233 | 427384 | 4142757 | 427351 | 4142721 | 1949 | 2013 | -2.12 | -0.09 | -0.44 | 0.06 | -0.32 | 0.56 | 6 |
| VCR | 3234 | 427392 | 4142710 | 427327 | 4142677 | 1949 | 2013 | -2.34 | 0.08 | -0.33 | 0.06 | -0.20 | 0.26 | 6 |
| VCR | 3235 | 427385 | 4142675 | 427327 | 4142673 | 1949 | 2013 | -2.11 | 0.07 | -0.30 | 0.06 | -0.18 | 0.26 | 6 |
| VCR | 3236 | 427408 | 4142636 | 427326 | 4142632 | 1949 | 2013 | -3.63 | 1.15 | 0.33 | 0.06 | 0.59 | 0.43 | 6 |
| VCR | 3237 | 427411 | 4142587 | 427287 | 4142543 | 1949 | 2013 | -5.02 | 1.72 | 0.57 | 0.06 | 0.93 | 0.48 | 6 |
| VCR | 3238 | 427394 | 4142541 | 427304 | 4142509 | 1949 | 2013 | -1.99 | 1.60 | 0.98 | 0.06 | 1.18 | 0.84 | 6 |
| VCR | 3239 | 427383 | 4142494 | 427340 | 4142481 | 1949 | 2013 | NA | 0.42 | NA | 0.08 | 0.42 | 0.00 | 6 |
| VCR | 3240 | 427407 | 4142452 | 427386 | 4142447 | 1949 | 2013 | NA | 0.01 | NA | 0.08 | 0.01 | 0.00 | 6 |
| VCR | 3241 | 427439 | 4142416 | 427378 | 4142422 | 1949 | 2013 | NA | 0.07 | NA | 0.08 | 0.07 | 0.00 | 6 |
| VCR | 3242 | 427427 | 4142375 | 427351 | 4142394 | 1949 | 2013 | -1.70 | 0.88 | 0.44 | 0.06 | 0.58 | 0.71 | 6 |
| VCR | 3243 | 427382 | 4142364 | 427337 | 4142379 | 1949 | 2013 | -2.44 | 0.05 | -0.38 | 0.06 | -0.24 | 0.31 | 6 |
| VCR | 3244 | 427397 | 4142280 | 427335 | 4142291 | 1949 | 2013 | -0.05 | -0.71 | -0.60 | 0.06 | -0.63 | 0.98 | 6 |
| VCR | 3245 | 427385 | 4142236 | 427328 | 4142239 | 1949 | 2013 | -2.27 | -0.12 | -0.48 | 0.06 | -0.37 | 0.59 | 6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 3246 | 427361 | 4142196 | 427320 | 4142198 | 1949 | 2013 | -0.35 | -0.31 | -0.31 | 0.06 | -0.31 | 1.00 | 6 |
| VCR | 3247 | 427375 | 4142149 | 427311 | 4142148 | 1949 | 2013 | -3.78 | -0.03 | -0.67 | 0.06 | -0.47 | 0.43 | 6 |
| VCR | 3248 | 427383 | 4142101 | 427319 | 4142094 | 1949 | 2013 | -1.45 | -0.54 | -0.69 | 0.06 | -0.64 | 0.96 | 6 |
| VCR | 3249 | 427401 | 4142055 | 427327 | 4142040 | 1949 | 2013 | -0.93 | -0.85 | -0.86 | 0.06 | -0.86 | 1.00 | 6 |
| VCR | 3250 | 427421 | 4142009 | 427348 | 4141985 | 1949 | 2013 | -1.63 | -0.75 | -0.90 | 0.06 | -0.85 | 0.98 | 6 |
| VCR | 3251 | 427435 | 4141962 | 427359 | 4141935 | 1949 | 2013 | -2.80 | -0.36 | -0.77 | 0.06 | -0.64 | 0.77 | 6 |
| VCR | 3252 | 427470 | 4141945 | 427368 | 4141911 | 1949 | 2013 | -1.82 | -0.25 | -0.52 | 0.06 | -0.44 | 0.79 | 6 |
| VCR | 3253 | 427518 | 4141943 | 427391 | 4141882 | 1949 | 2013 | -0.60 | 2.20 | 1.73 | 0.06 | 1.88 | 0.96 | 6 |
| VCR | 3254 | 427557 | 4141912 | 427384 | 4141794 | 1949 | 2013 | -1.10 | 3.49 | 2.70 | 0.06 | 2.95 | 0.95 | 6 |
| VCR | 3255 | 427569 | 4141864 | 427426 | 4141749 | 1949 | 2013 | -0.63 | 2.72 | 2.15 | 0.06 | 2.33 | 0.96 | 6 |
| VCR | 3256 | 427553 | 4141818 | 427458 | 4141731 | 1949 | 2013 | -1.50 | 1.46 | 0.96 | 0.06 | 1.12 | 0.88 | 6 |
| VCR | 3257 | 427525 | 4141778 | 427482 | 4141716 | 1949 | 2013 | -1.03 | 0.22 | 0.00 | 0.06 | 0.07 | 0.14 | 6 |
| VCR | 3258 | 427510 | 4141735 | 427484 | 4141701 | 1949 | 2013 | -0.89 | -0.15 | -0.28 | 0.06 | -0.24 | 0.84 | 6 |
| VCR | 3259 | 427554 | 4141713 | 427498 | 4141661 | 1949 | 2013 | -0.28 | -1.00 | -0.88 | 0.06 | -0.92 | 0.99 | 6 |
| VCR | 3260 | 427583 | 4141672 | 427532 | 4141645 | 1949 | 2013 | -1.74 | -0.22 | -0.48 | 0.06 | -0.40 | 0.77 | 6 |
| VCR | 3261 | 427587 | 4141623 | 427534 | 4141579 | 1949 | 2013 | -1.64 | 0.35 | 0.01 | 0.06 | 0.12 | 0.16 | 6 |
| VCR | 3262 | 427615 | 4141593 | 427546 | 4141612 | 1949 | 2013 | -1.49 | 1.39 | 0.90 | 0.06 | 1.06 | 0.87 | 6 |
| VCR | 3263 | 427646 | 4141555 | 427599 | 4141426 | 1949 | 2013 | 0.96 | 2.25 | 2.03 | 0.06 | 2.10 | 0.99 | 6 |
| VCR | 3264 | 427692 | 4141557 | 427696 | 4141443 | 1949 | 2013 | 0.98 | 1.55 | 1.45 | 0.06 | 1.48 | 1.00 | 6 |
| VCR | 3265 | 427739 | 4141572 | 427765 | 4141490 | 1949 | 2013 | 1.42 | 0.93 | 1.02 | 0.06 | 0.99 | 1.00 | 6 |
| VCR | 3266 | 427786 | 4141571 | 427811 | 4141499 | 1949 | 2013 | 1.37 | 0.78 | 0.88 | 0.06 | 0.85 | 0.99 | 6 |
| VCR | 3267 | 427833 | 4141588 | 427858 | 4141517 | 1949 | 2013 | 0.93 | 0.85 | 0.86 | 0.06 | 0.86 | 1.00 | 6 |
| VCR | 3268 | 427932 | 4141660 | 427954 | 4141607 | 1949 | 2013 | -1.89 | 0.65 | 0.22 | 0.06 | 0.36 | 0.49 | 6 |
| VCR | 3269 | 427973 | 4141682 | 428002 | 4141607 | 1949 | 2013 | -4.85 | 0.92 | -0.06 | 0.06 | 0.25 | 0.08 | 6 |
| VCR | 3270 | 428014 | 4141708 | 428038 | 4141651 | 1949 | 2013 | 0.54 | -0.77 | -0.55 | 0.06 | -0.62 | 0.92 | 6 |
| VCR | 3271 | 428054 | 4141734 | 428086 | 4141653 | 1949 | 2013 | -1.05 | -1.04 | -1.04 | 0.06 | -1.04 | 1.00 | 6 |
| VCR | 3272 | 428103 | 4141747 | 428120 | 4141663 | 1949 | 2013 | -1.35 | -0.96 | -1.02 | 0.06 | -1.00 | 1.00 | 6 |
| VCR | 3273 | 428147 | 4141769 | 428160 | 4141684 | 1949 | 2013 | -2.06 | -0.77 | -0.99 | 0.06 | -0.92 | 0.96 | 6 |
| VCR | 3274 | 428191 | 4141794 | 428199 | 4141694 | 1949 | 2013 | -1.38 | -1.19 | -1.23 | 0.06 | -1.22 | 1.00 | 6 |
| VCR | 3275 | 428228 | 4141826 | 428212 | 4141693 | 1949 | 2013 | -3.44 | -1.35 | -1.71 | 0.06 | -1.59 | 0.97 | 6 |
| VCR | 3276 | 428274 | 4141845 | 428224 | 4141690 | 1949 | 2013 | -8.22 | -0.98 | -2.21 | 0.06 | -1.82 | 0.76 | 6 |
| VCR | 3277 | 428317 | 4141827 | 428237 | 4141684 | 1949 | 2013 | -5.68 | -1.50 | -2.21 | 0.06 | -1.99 | 0.92 | 6 |
| VCR | 3278 | 428321 | 4141779 | 428236 | 4141684 | 1949 | 2013 | -3.25 | -1.16 | -1.52 | 0.06 | -1.41 | 0.96 | 6 |
| VCR | 3279 | 428328 | 4141733 | 428246 | 4141676 | 1949 | 2013 | -0.93 | -1.23 | -1.18 | 0.06 | -1.20 | 1.00 | 6 |
| VCR | 3280 | 428329 | 4141685 | 428255 | 4141652 | 1949 | 2013 | -0.01 | -1.07 | -0.89 | 0.06 | -0.95 | 0.98 | 6 |
| VCR | 3281 | 428341 | 4141638 | 428257 | 4141618 | 1949 | 2013 | -0.84 | -1.07 | -1.04 | 0.06 | -1.05 | 1.00 | 6 |
| VCR | 3282 | 428360 | 4141593 | 428264 | 4141576 | 1949 | 2013 | -3.44 | -0.72 | -1.19 | 0.06 | -1.04 | 0.88 | 6 |
| VCR | 3283 | 428390 | 4141554 | 428267 | 4141511 | 1949 | 2013 | -6.09 | -0.83 | -1.73 | 0.06 | -1.45 | 0.79 | 6 |
| VCR | 3284 | 428418 | 4141514 | 428292 | 4141447 | 1949 | 2013 | -8.28 | -0.60 | -1.91 | 0.06 | -1.50 | 0.65 | 6 |
| VCR | 3285 | 428448 | 4141474 | 428316 | 4141391 | 1949 | 2013 | -9.04 | -0.71 | -2.13 | 0.06 | -1.68 | 0.67 | 6 |
| VCR | 3286 | 428479 | 4141436 | 428379 | 4141348 | 1949 | 2013 | -7.29 | -0.61 | -1.75 | 0.06 | -1.39 | 0.68 | 6 |
| VCR | 3287 | 428504 | 4141393 | 428407 | 4141308 | 1949 | 2013 | -5.88 | -0.83 | -1.69 | 0.06 | -1.42 | 0.79 | 6 |
| VCR | 3288 | 428529 | 4141350 | 428440 | 4141280 | 1949 | 2013 | -5.03 | -0.71 | -1.45 | 0.06 | -1.21 | 0.79 | 6 |
| VCR | 3289 | 428548 | 4141304 | 428463 | 4141246 | 1949 | 2013 | -4.04 | -0.71 | -1.28 | 0.06 | -1.10 | 0.84 | 6 |
| VCR | 3290 | 428571 | 4141263 | 428494 | 4141207 | 1949 | 2013 | -0.40 | -1.23 | -1.09 | 0.06 | -1.13 | 0.99 | 6 |
| VCR | 3291 | 428590 | 4141218 | 428532 | 4141182 | 1949 | 2013 | -0.76 | -0.73 | -0.74 | 0.06 | -0.74 | 1.00 | 6 |
| VCR | 3292 | 428614 | 4141174 | 428554 | 4141132 | 1949 | 2013 | -2.03 | -0.59 | -0.83 | 0.06 | -0.75 | 0.93 | 6 |
| VCR | 3293 | 428633 | 4141129 | 428570 | 4141090 | 1949 | 2013 | -0.24 | -0.95 | -0.83 | 0.06 | -0.87 | 0.99 | 6 |
| VCR | 3294 | 428656 | 4141084 | 428596 | 4141039 | 1949 | 2013 | -0.62 | -0.90 | -0.85 | 0.06 | -0.87 | 1.00 | 6 |
| VCR | 3295 | 428675 | 4141038 | 428625 | 4141004 | 1949 | 2013 | -0.45 | -0.58 | -0.56 | 0.06 | -0.56 | 1.00 | 6 |
| VCR | 3296 | 428697 | 4140993 | 428654 | 4140960 | 1949 | 2013 | -0.38 | -0.56 | -0.53 | 0.06 | -0.54 | 1.00 | 6 |
| VCR | 3297 | 428721 | 4140950 | 428686 | 4140925 | 1949 | 2013 | -1.52 | -0.11 | -0.35 | 0.06 | -0.27 | 0.64 | 6 |
| VCR | 3298 | 428745 | 4140907 | 428718 | 4140890 | 1949 | 2013 | -0.90 | -0.01 | -0.16 | 0.06 | -0.11 | 0.43 | 6 |
| VCR | 3299 | 428781 | 4140816 | 428758 | 4140806 | 1949 | 2013 | -0.49 | 0.06 | -0.03 | 0.06 | 0.00 | 0.00 | 6 |
| VCR | 3300 | 428799 | 4140770 | 428773 | 4140760 | 1949 | 2013 | -0.66 | 0.10 | -0.03 | 0.06 | 0.01 | 0.01 | 6 |
| VCR | 3301 | 428816 | 4140723 | 428792 | 4140713 | 1949 | 2013 | -0.58 | 0.05 | -0.06 | 0.06 | -0.02 | 0.07 | 6 |
| VCR | 3302 | 428832 | 4140676 | 428811 | 4140666 | 1949 | 2013 | -0.12 | 0.05 | 0.02 | 0.06 | 0.03 | 0.58 | 6 |
| VCR | 3303 | 428855 | 4140631 | 428835 | 4140618 | 1949 | 2013 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 1.00 | 6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 3304 | 428919 | 4140558 | 428898 | 4140541 | 1949 | 2013 | -0.33 | 0.14 | 0.06 | 0.06 | 0.09 | 0.63 | 6 |
| VCR | 3305 | 428952 | 4140520 | 428934 | 4140506 | 1949 | 2013 | -0.12 | 0.04 | 0.02 | 0.06 | 0.03 | 0.54 | 6 |
| VCR | 3306 | 428982 | 4140484 | 428958 | 4140462 | 1949 | 2013 | -0.34 | NA | NA | 0.37 | -0.34 | 0.00 | 6 |
| VCR | 3307 | 429023 | 4140457 | 429006 | 4140440 | 1949 | 2013 | -0.39 | 0.08 | 0.00 | 0.06 | 0.03 | 0.13 | 6 |
| VCR | 3308 | 429066 | 4140430 | 429047 | 4140413 | 1949 | 2013 | -0.12 | 0.10 | 0.06 | 0.06 | 0.07 | 0.85 | 6 |
| VCR | 3309 | 429109 | 4140405 | 429093 | 4140383 | 1949 | 2013 | 0.57 | -0.02 | 0.08 | 0.06 | 0.05 | 0.27 | 6 |
| VCR | 3310 | 429151 | 4140381 | 429137 | 4140356 | 1949 | 2013 | 0.80 | 0.00 | 0.13 | 0.06 | 0.09 | 0.38 | 6 |
| VCR | 3311 | 429199 | 4140365 | 429181 | 4140333 | 1949 | 2013 | 0.97 | 0.12 | 0.26 | 0.06 | 0.22 | 0.76 | 6 |
| VCR | 3312 | 429248 | 4140356 | 429228 | 4140313 | 1949 | 2013 | 0.88 | 0.32 | 0.42 | 0.06 | 0.39 | 0.96 | 6 |
| VCR | 3313 | 429297 | 4140352 | 429278 | 4140293 | 1949 | 2013 | 1.01 | 0.57 | 0.64 | 0.06 | 0.62 | 0.99 | 6 |
| VCR | 3314 | 429345 | 4140349 | 429325 | 4140278 | 1949 | 2013 | 1.31 | 0.74 | 0.84 | 0.06 | 0.81 | 0.99 | 6 |
| VCR | 3315 | 429392 | 4140348 | 429373 | 4140266 | 1949 | 2013 | 1.57 | 0.90 | 1.01 | 0.06 | 0.98 | 0.99 | 6 |
| VCR | 3316 | 429440 | 4140340 | 429425 | 4140256 | 1949 | 2013 | 1.36 | 0.95 | 1.02 | 0.06 | 1.00 | 1.00 | 6 |
| VCR | 3317 | 429489 | 4140330 | 429476 | 4140241 | 1949 | 2013 | 2.02 | 0.88 | 1.07 | 0.06 | 1.01 | 0.97 | 6 |
| VCR | 3318 | 429534 | 4140313 | 429515 | 4140233 | 1949 | 2013 | 1.70 | 0.81 | 0.97 | 0.06 | 0.92 | 0.98 | 6 |
| VCR | 3319 | 429579 | 4140293 | 429548 | 4140220 | 1949 | 2013 | 1.61 | 0.77 | 0.91 | 0.06 | 0.87 | 0.98 | 6 |
| VCR | 3320 | 429608 | 4140254 | 429579 | 4140212 | 1949 | 2013 | 0.12 | 0.52 | 0.45 | 0.06 | 0.48 | 0.99 | 6 |
| VCR | 3321 | 429634 | 4140211 | 429604 | 4140185 | 1949 | 2013 | -1.16 | 0.37 | 0.10 | 0.06 | 0.19 | 0.42 | 6 |
| VCR | 3322 | 429661 | 4140170 | 429624 | 4140150 | 1949 | 2013 | -2.05 | 0.11 | -0.26 | 0.06 | -0.14 | 0.17 | 6 |
| VCR | 3323 | 429681 | 4140125 | 429636 | 4140108 | 1949 | 2013 | -2.28 | -0.05 | -0.43 | 0.06 | -0.31 | 0.49 | 6 |
| VCR | 3324 | 429693 | 4140078 | 429650 | 4140065 | 1949 | 2013 | -1.72 | -0.11 | -0.38 | 0.06 | -0.30 | 0.62 | 6 |
| VCR | 3325 | 429708 | 4140031 | 429663 | 4140017 | 1949 | 2013 | -2.08 | -0.08 | -0.42 | 0.06 | -0.31 | 0.54 | 6 |
| VCR | 3326 | 429731 | 4139989 | 429675 | 4139972 | 1949 | 2013 | -2.75 | -0.15 | -0.59 | 0.06 | -0.45 | 0.59 | 6 |
| VCR | 3327 | 429739 | 4139942 | 429689 | 4139925 | 1949 | 2013 | -2.60 | -0.09 | -0.52 | 0.06 | -0.38 | 0.53 | 6 |
| VCR | 3328 | 429749 | 4139896 | 429704 | 4139880 | 1949 | 2013 | -2.32 | -0.02 | -0.41 | 0.06 | -0.29 | 0.44 | 6 |
| VCR | 3329 | 429762 | 4139851 | 429713 | 4139832 | 1949 | 2013 | -2.85 | 0.02 | -0.47 | 0.06 | -0.32 | 0.38 | 6 |
| VCR | 3330 | 429775 | 4139808 | 429724 | 4139795 | 1949 | 2013 | -2.76 | 0.01 | -0.46 | 0.06 | -0.31 | 0.39 | 6 |
| VCR | 3331 | 429792 | 4139764 | 429737 | 4139757 | 1949 | 2013 | -3.10 | 0.00 | -0.53 | 0.06 | -0.36 | 0.40 | 6 |
| VCR | 3332 | 429814 | 4139722 | 429741 | 4139727 | 1949 | 2013 | -3.11 | -0.30 | -0.78 | 0.06 | -0.63 | 0.71 | 6 |
| VCR | 3333 | 429852 | 4139691 | 429738 | 4139721 | 1949 | 2013 | -5.56 | -0.58 | -1.43 | 0.06 | -1.16 | 0.72 | 6 |
| VCR | 3334 | 429857 | 4139645 | 429731 | 4139710 | 1949 | 2013 | -5.90 | -1.08 | -1.90 | 0.06 | -1.64 | 0.85 | 6 |
| VCR | 3335 | 429828 | 4139606 | 429711 | 4139680 | 1949 | 2013 | -4.78 | -1.23 | -1.84 | 0.06 | -1.65 | 0.91 | 6 |
| VCR | 3336 | 429794 | 4139570 | 429687 | 4139651 | 1949 | 2013 | -3.19 | -1.50 | -1.78 | 0.06 | -1.69 | 0.98 | 6 |
| VCR | 3337 | 429749 | 4139550 | 429669 | 4139622 | 1949 | 2013 | -0.34 | -1.47 | -1.27 | 0.06 | -1.34 | 0.99 | 6 |
| VCR | 3338 | 429703 | 4139545 | 429654 | 4139598 | 1949 | 2013 | 0.67 | -0.65 | -0.42 | 0.06 | -0.50 | 0.87 | 6 |
| VCR | 3339 | 429658 | 4139550 | 429635 | 4139582 | 1949 | 2013 | -1.71 | -0.01 | -0.30 | 0.06 | -0.21 | 0.43 | 6 |
| VCR | 3340 | 429618 | 4139520 | 429601 | 4139542 | 1949 | 2013 | -0.12 | -0.12 | -0.12 | 0.06 | -0.12 | 1.00 | 6 |
| VCR | 3341 | 429576 | 4139495 | 429557 | 4139525 | 1949 | 2013 | -1.40 | 0.10 | -0.15 | 0.06 | -0.07 | 0.10 | 6 |
| VCR | 3342 | 429557 | 4139450 | 429526 | 4139506 | 1949 | 2013 | -3.65 | 0.20 | -0.46 | 0.06 | -0.25 | 0.17 | 6 |
| VCR | 3343 | 429534 | 4139408 | 429507 | 4139461 | 1949 | 2013 | NA | -0.40 | NA | 0.08 | -0.40 | 0.00 | 6 |
| VCR | 3344 | 429456 | 4139354 | 429422 | 4139435 | 1949 | 2013 | -2.39 | -0.78 | -1.06 | 0.06 | -0.97 | 0.95 | 6 |
| VCR | 3345 | 429407 | 4139358 | 429378 | 4139424 | 1949 | 2013 | -1.65 | -0.64 | -0.81 | 0.06 | -0.76 | 0.96 | 6 |
| VCR | 3346 | 429358 | 4139353 | 429341 | 4139400 | 1949 | 2013 | -0.64 | -0.43 | -0.47 | 0.06 | -0.46 | 1.00 | 6 |
| VCR | 3347 | 429310 | 4139343 | 429296 | 4139387 | 1949 | 2013 | -0.89 | -0.29 | -0.39 | 0.06 | -0.36 | 0.95 | 6 |
| VCR | 3348 | 429260 | 4139343 | 429254 | 4139378 | 1949 | 2013 | -0.61 | -0.16 | -0.23 | 0.06 | -0.21 | 0.91 | 6 |
| VCR | 3349 | 429210 | 4139342 | 429207 | 4139373 | 1949 | 2013 | -0.49 | -0.11 | -0.18 | 0.06 | -0.16 | 0.89 | 6 |
| VCR | 3350 | 429160 | 4139335 | 429164 | 4139375 | 1949 | 2013 | -1.15 | -0.11 | -0.29 | 0.06 | -0.23 | 0.71 | 6 |
| VCR | 3351 | 429112 | 4139344 | 429116 | 4139375 | 1949 | 2013 | -0.09 | -0.18 | -0.16 | 0.06 | -0.17 | 0.99 | 6 |
| VCR | 3352 | 429064 | 4139335 | 429071 | 4139386 | 1949 | 2013 | -0.63 | -0.47 | -0.50 | 0.06 | -0.49 | 1.00 | 6 |
| VCR | 3353 | 429019 | 4139354 | 429026 | 4139395 | 1949 | 2013 | -0.48 | -0.29 | -0.32 | 0.06 | -0.31 | 0.99 | 6 |
| VCR | 3354 | 428971 | 4139357 | 428976 | 4139402 | 1949 | 2013 | -1.13 | -0.23 | -0.39 | 0.06 | -0.34 | 0.87 | 6 |
| VCR | 3355 | 428923 | 4139344 | 428922 | 4139409 | 1949 | 2013 | -0.80 | -0.64 | -0.67 | 0.06 | -0.66 | 1.00 | 6 |
| VCR | 3356 | 428876 | 4139346 | 428873 | 4139416 | 1949 | 2013 | -1.03 | -0.55 | -0.63 | 0.06 | -0.60 | 0.99 | 6 |
| VCR | 3357 | 428832 | 4139362 | 428828 | 4139405 | 1949 | 2013 | -0.89 | -0.25 | -0.36 | 0.06 | -0.33 | 0.93 | 6 |
| VCR | 3358 | 428787 | 4139344 | 428782 | 4139399 | 1949 | 2013 | 0.65 | -0.67 | -0.44 | 0.06 | -0.51 | 0.88 | 6 |
| VCR | 3359 | 428739 | 4139341 | 428736 | 4139399 | 1949 | 2013 | -1.22 | -0.45 | -0.58 | 0.06 | -0.54 | 0.96 | 6 |
| VCR | 3360 | 428692 | 4139324 | 428688 | 4139402 | 1949 | 2013 | -0.44 | -0.98 | -0.89 | 0.06 | -0.92 | 0.99 | 6 |
| VCR | 3361 | 428644 | 4139333 | 428639 | 4139413 | 1949 | 2013 | -2.99 | -0.50 | -0.93 | 0.06 | -0.79 | 0.83 | 6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 3362 | 428599 | 4139316 | 428601 | 4139414 | 1949 | 2013 | -2.38 | -0.92 | -1.17 | 0.06 | -1.09 | 0.96 | 6 |
| VCR | 3363 | 428552 | 4139298 | 428557 | 4139401 | 1949 | 2013 | -2.61 | -1.02 | -1.30 | 0.06 | -1.21 | 0.97 | 6 |
| VCR | 3364 | 428503 | 4139295 | 428495 | 4139409 | 1949 | 2013 | -4.43 | -0.76 | -1.39 | 0.06 | -1.19 | 0.84 | 6 |
| VCR | 3365 | 428468 | 4139328 | 428458 | 4139438 | 1949 | 2013 | -3.42 | -0.89 | -1.32 | 0.06 | -1.18 | 0.91 | 6 |
| VCR | 3366 | 428423 | 4139345 | 428406 | 4139447 | 1949 | 2013 | NA | -0.96 | NA | 0.08 | -0.96 | 0.00 | 6 |
| VCR | 3367 | 428377 | 4139335 | 428357 | 4139412 | 1949 | 2013 | -0.04 | -1.10 | -0.92 | 0.06 | -0.98 | 0.98 | 6 |
| VCR | 3368 | 428330 | 4139322 | 428304 | 4139390 | 1949 | 2013 | 0.39 | -0.88 | -0.66 | 0.06 | -0.73 | 0.94 | 6 |
| VCR | 3369 | 428283 | 4139326 | 428265 | 4139377 | 1949 | 2013 | -0.69 | -0.50 | -0.53 | 0.06 | -0.52 | 1.00 | 6 |
| VCR | 3370 | 428245 | 4139296 | 428220 | 4139363 | 1949 | 2013 | -1.35 | -0.66 | -0.78 | 0.06 | -0.74 | 0.98 | 6 |
| VCR | 3371 | 428201 | 4139292 | 428182 | 4139345 | 1949 | 2013 | -1.16 | -0.38 | -0.51 | 0.06 | -0.47 | 0.95 | 6 |
| VCR | 3372 | 428103 | 4139255 | 428093 | 4139297 | 1949 | 2013 | -1.10 | -0.20 | -0.35 | 0.08 | -0.30 | 0.85 | 6 |
| VCR | 3373 | 428056 | 4139268 | 428050 | 4139301 | 1949 | 2013 | -0.80 | -0.06 | -0.19 | 0.08 | -0.15 | 0.67 | 6 |
| VCR | 3374 | 428010 | 4139278 | 428012 | 4139303 | 1949 | 2013 | -0.35 | 0.07 | 0.00 | 0.08 | 0.02 | 0.10 | 6 |
| VCR | 3375 | 427961 | 4139272 | 427968 | 4139313 | 1949 | 2013 | -0.47 | 0.39 | 0.24 | 0.08 | 0.29 | 0.85 | 6 |
| VCR | 3376 | 427911 | 4139273 | 427931 | 4139331 | 1949 | 2013 | 0.15 | 0.70 | 0.61 | 0.08 | 0.64 | 0.98 | 6 |
| VCR | 3377 | 427863 | 4139284 | 427893 | 4139354 | 1949 | 2013 | NA | 0.91 | NA | 0.10 | 0.91 | 0.00 | 6 |
| VCR | 3378 | 427815 | 4139297 | 427848 | 4139370 | 1949 | 2013 | 0.10 | 1.10 | 0.93 | 0.08 | 0.98 | 0.98 | 6 |
| VCR | 3379 | 427768 | 4139313 | 427811 | 4139401 | 1949 | 2013 | 0.49 | 1.37 | 1.22 | 0.08 | 1.27 | 0.99 | 6 |
| VCR | 3380 | 427516 | 4139216 | 427488 | 4139241 | 1949 | 2013 | -1.14 | 0.33 | 0.08 | 0.06 | 0.16 | 0.36 | 6 |
| VCR | 3381 | 427483 | 4139181 | 427459 | 4139196 | 1949 | 2013 | -0.51 | -0.05 | -0.13 | 0.06 | -0.10 | 0.71 | 6 |
| VCR | 3382 | 427449 | 4139145 | 427429 | 4139163 | 1949 | 2013 | -0.64 | 0.06 | -0.06 | 0.06 | -0.02 | 0.04 | 6 |
| VCR | 3383 | 427411 | 4139112 | 427394 | 4139128 | 1949 | 2013 | -0.22 | -0.01 | -0.04 | 0.06 | -0.03 | 0.53 | 6 |
| VCR | 3384 | 427371 | 4139082 | 427353 | 4139100 | 1949 | 2013 | -0.07 | -0.08 | -0.08 | 0.06 | -0.08 | 1.00 | 6 |
| VCR | 3385 | 427334 | 4139049 | 427317 | 4139071 | 1949 | 2013 | -0.28 | -0.08 | -0.12 | 0.06 | -0.11 | 0.93 | 6 |
| VCR | 3386 | 427296 | 4139016 | 427281 | 4139038 | 1949 | 2013 | -0.10 | -0.09 | -0.09 | 0.06 | -0.09 | 1.00 | 6 |
| VCR | 3387 | 427260 | 4138983 | 427246 | 4139011 | 1949 | 2013 | -0.14 | -0.18 | -0.17 | 0.06 | -0.17 | 1.00 | 6 |
| VCR | 3388 | 427220 | 4138952 | 427216 | 4138987 | 1949 | 2013 | -0.24 | -0.16 | -0.17 | 0.06 | -0.17 | 1.00 | 6 |
| VCR | 3389 | 427179 | 4138925 | 427188 | 4138991 | 1949 | 2013 | -0.61 | -0.62 | -0.62 | 0.06 | -0.62 | 1.00 | 6 |
| VCR | 3390 | 427135 | 4138926 | 427165 | 4139011 | 1949 | 2013 | -1.34 | -0.94 | -1.01 | 0.06 | -0.99 | 1.00 | 6 |
| VCR | 3391 | 427109 | 4138965 | 427140 | 4139026 | 1949 | 2013 | -1.29 | -0.66 | -0.77 | 0.06 | -0.73 | 0.99 | 6 |
| VCR | 3392 | 427075 | 4139001 | 427102 | 4139044 | 1949 | 2013 | -1.02 | -0.32 | -0.44 | 0.06 | -0.40 | 0.94 | 6 |
| VCR | 3393 | 427035 | 4139025 | 427053 | 4139056 | 1949 | 2013 | 0.16 | -0.22 | -0.15 | 0.06 | -0.17 | 0.91 | 6 |
| VCR | 3394 | 426994 | 4139054 | 427005 | 4139078 | 1949 | 2013 | -0.51 | 0.11 | 0.00 | 0.06 | 0.04 | 0.15 | 6 |
| VCR | 3395 | 426950 | 4139076 | 426959 | 4139101 | 1949 | 2013 | 0.27 | -0.13 | -0.06 | 0.06 | -0.08 | 0.67 | 6 |
| VCR | 3396 | 426914 | 4139061 | 426921 | 4139104 | 1949 | 2013 | -0.36 | 0.00 | -0.07 | 0.06 | -0.05 | 0.45 | 6 |
| VCR | 3397 | 426885 | 4139022 | 426864 | 4139101 | 1949 | 2013 | NA | NA | 0.94 | 0.06 | 0.94 | 0.00 | 6 |
| VCR | 3398 | 426846 | 4138991 | 426807 | 4139057 | 1949 | 2013 | 0.39 | 0.97 | 0.87 | 0.06 | 0.90 | 0.99 | 6 |
| VCR | 3399 | 426811 | 4138956 | 426768 | 4139022 | 1949 | 2013 | -0.81 | 1.10 | 0.77 | 0.06 | 0.88 | 0.91 | 6 |
| VCR | 3400 | 426772 | 4138925 | 426742 | 4138970 | 1949 | 2013 | -0.18 | 0.59 | 0.45 | 0.06 | 0.50 | 0.95 | 6 |
| VCR | 3401 | 426726 | 4138905 | 426698 | 4138967 | 1949 | 2013 | 0.05 | 0.63 | 0.53 | 0.06 | 0.56 | 0.98 | 6 |
| VCR | 3402 | 426677 | 4138897 | 426668 | 4138957 | 1949 | 2013 | 0.56 | 0.65 | 0.64 | 0.06 | 0.64 | 1.00 | 6 |
| VCR | 3403 | 426627 | 4138902 | 426626 | 4138962 | 1949 | 2013 | 0.50 | 0.64 | 0.61 | 0.06 | 0.62 | 1.00 | 6 |
| VCR | 3404 | 426578 | 4138910 | 426581 | 4138968 | 1949 | 2013 | 0.49 | 0.60 | 0.58 | 0.06 | 0.59 | 1.00 | 6 |
| VCR | 3405 | 426530 | 4138922 | 426536 | 4138970 | 1949 | 2013 | 0.70 | 0.39 | 0.44 | 0.06 | 0.42 | 0.99 | 6 |
| VCR | 3406 | 426484 | 4138942 | 426487 | 4138972 | 1949 | 2013 | 0.12 | 0.17 | 0.16 | 0.06 | 0.16 | 1.00 | 6 |
| VCR | 3407 | 426436 | 4138954 | 426438 | 4138979 | 1949 | 2013 | 0.38 | -0.02 | 0.05 | 0.06 | 0.02 | 0.16 | 6 |
| VCR | 3408 | 426387 | 4138960 | 426388 | 4138989 | 1949 | 2013 | 0.02 | -0.16 | -0.13 | 0.06 | -0.14 | 0.97 | 6 |
| VCR | 3409 | 426337 | 4138961 | 426336 | 4138989 | 1949 | 2013 | -0.05 | -0.14 | -0.13 | 0.06 | -0.13 | 0.99 | 6 |
| VCR | 3410 | 426287 | 4138955 | 426282 | 4138981 | 1949 | 2013 | -0.07 | -0.12 | -0.11 | 0.06 | -0.12 | 1.00 | 6 |
| VCR | 3411 | 426241 | 4138937 | 426231 | 4138967 | 1949 | 2013 | -0.39 | -0.15 | -0.19 | 0.06 | -0.18 | 0.96 | 6 |
| VCR | 3412 | 426196 | 4138916 | 426183 | 4138946 | 1949 | 2013 | -0.63 | -0.11 | -0.20 | 0.06 | -0.17 | 0.85 | 6 |
| VCR | 3413 | 426153 | 4138892 | 426142 | 4138921 | 1949 | 2013 | -0.70 | -0.06 | -0.17 | 0.06 | -0.14 | 0.69 | 6 |
| VCR | 3414 | 426112 | 4138864 | 426101 | 4138896 | 1949 | 2013 | -0.85 | -0.09 | -0.22 | 0.06 | -0.18 | 0.73 | 6 |
| VCR | 3415 | 426067 | 4138847 | 426060 | 4138875 | 1949 | 2013 | -0.22 | 0.15 | 0.09 | 0.06 | 0.11 | 0.81 | 6 |
| VCR | 3416 | 426023 | 4138824 | 426021 | 4138875 | 1949 | 2013 | -0.04 | 0.57 | 0.47 | 0.06 | 0.50 | 0.97 | 6 |
| VCR | 3417 | 425974 | 4138814 | 425995 | 4138871 | 1949 | 2013 | -0.44 | 0.73 | 0.53 | 0.06 | 0.60 | 0.93 | 6 |
| VCR | 3418 | 425929 | 4138833 | 425958 | 4138866 | 1949 | 2013 | -0.69 | 0.32 | 0.15 | 0.06 | 0.20 | 0.66 | 6 |
| VCR | 3419 | 425922 | 4138881 | 425960 | 4138899 | 1949 | 2013 | 1.14 | -0.03 | 0.17 | 0.06 | 0.11 | 0.30 | 6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VCR | 3420 | 425935 | 4138928 | 425962 | 4138934 | 1949 | 2013 | -0.64 | 0.11 | -0.02 | 0.06 | 0.02 | 0.04 | 6 |
| VCR | 3421 | 425929 | 4138977 | 425959 | 4138980 | 1949 | 2013 | -0.72 | -0.03 | -0.15 | 0.06 | -0.11 | 0.55 | 6 |
| VCR | 3422 | 425914 | 4139023 | 425955 | 4139028 | 1949 | 2013 | -0.92 | 0.34 | 0.12 | 0.06 | 0.19 | 0.53 | 6 |
| VCR | 3423 | 425885 | 4139064 | 425943 | 4139066 | 1949 | 2013 | -0.89 | 0.58 | 0.33 | 0.06 | 0.41 | 0.79 | 6 |
| VCR | 3424 | 425867 | 4139108 | 425942 | 4139118 | 1949 | 2013 | 0.36 | NA | NA | 0.37 | 0.36 | 0.00 | 6 |
| VCR | 3425 | 425848 | 4139153 | 425945 | 4139171 | 1949 | 2013 | 0.23 | 1.43 | 1.23 | 0.06 | 1.29 | 0.98 | 6 |
| VCR | 3426 | 425839 | 4139202 | 425934 | 4139241 | 1949 | 2013 | -0.77 | 1.53 | 1.13 | 0.06 | 1.26 | 0.94 | 6 |
| VCR | 3427 | 425810 | 4139237 | 425879 | 4139316 | 1949 | 2013 | 0.19 | 1.50 | 1.28 | 0.06 | 1.35 | 0.98 | 6 |
| VCR | 3428 | 425808 | 4139286 | 425815 | 4139351 | 1949 | 2013 | -1.07 | 0.76 | 0.45 | 0.06 | 0.55 | 0.81 | 6 |
| VCR | 3429 | 425727 | 4139253 | 425717 | 4139283 | 1949 | 2013 | -0.72 | 0.10 | -0.04 | 0.06 | 0.00 | 0.00 | 6 |
| VCR | 3430 | 425692 | 4139218 | 425673 | 4139262 | 1949 | 2013 | -1.83 | 0.05 | -0.27 | 0.06 | -0.17 | 0.29 | 6 |
| VCR | 3431 | 425646 | 4139199 | 425618 | 4139292 | 1949 | 2013 | -2.78 | 0.25 | -0.27 | 0.06 | -0.10 | 0.05 | 6 |
| VCR | 3432 | 425608 | 4139173 | 425588 | 4139268 | 1949 | 2013 | -3.80 | -0.67 | -1.21 | 0.06 | -1.04 | 0.84 | 6 |
| VCR | 3433 | 425562 | 4139153 | 425542 | 4139255 | 1949 | 2013 | -4.62 | -0.62 | -1.30 | 0.06 | -1.08 | 0.78 | 6 |
| VCR | 3434 | 425516 | 4139134 | 425483 | 4139225 | 1949 | 2013 | -4.08 | -0.59 | -1.19 | 0.06 | -1.00 | 0.80 | 6 |
| VCR | 3435 | 425493 | 4139099 | 425454 | 4139222 | 1949 | 2013 | -6.51 | -0.68 | -1.68 | 0.06 | -1.36 | 0.73 | 6 |
| VCR | 3436 | 425466 | 4139123 | 425451 | 4139221 | 1949 | 2013 | -3.87 | -0.69 | -1.23 | 0.06 | -1.06 | 0.85 | 6 |
| VCR | 3437 | 425420 | 4139108 | 425403 | 4139205 | 1949 | 2013 | -1.95 | -1.06 | -1.21 | 0.06 | -1.16 | 0.99 | 6 |
| VCR | 3438 | 425372 | 4139112 | 425355 | 4139232 | 1949 | 2013 | -2.35 | -1.38 | -1.55 | 0.06 | -1.49 | 0.99 | 6 |
| VCR | 3439 | 425327 | 4139115 | 425329 | 4139226 | 1949 | 2013 | -2.90 | -1.03 | -1.35 | 0.06 | -1.25 | 0.96 | 6 |
| VCR | 3440 | 425279 | 4139116 | 425297 | 4139215 | 1949 | 2013 | -2.30 | -1.01 | -1.23 | 0.06 | -1.16 | 0.98 | 6 |
| VCR | 3441 | 425236 | 4139139 | 425262 | 4139220 | 1949 | 2013 | -2.28 | -0.73 | -1.00 | 0.06 | -0.91 | 0.94 | 6 |
| VCR | 3442 | 425206 | 4139178 | 425242 | 4139231 | 1949 | 2013 | -1.90 | -0.43 | -0.68 | 0.06 | -0.60 | 0.89 | 6 |
| VCR | 3443 | 425177 | 4139218 | 425221 | 4139259 | 1949 | 2013 | -1.11 | -0.50 | -0.61 | 0.06 | -0.57 | 0.98 | 6 |
| VCR | 3444 | 425132 | 4139237 | 425200 | 4139294 | 1949 | 2013 | -2.11 | -0.82 | -1.04 | 0.06 | -0.97 | 0.96 | 6 |
| VCR | 3445 | 425116 | 4139279 | 425176 | 4139342 | 1949 | 2013 | -1.51 | -0.83 | -0.94 | 0.06 | -0.91 | 0.99 | 6 |
| VCR | 3446 | 425080 | 4139292 | 425139 | 4139365 | 1949 | 2013 | -1.98 | -0.96 | -1.14 | 0.06 | -1.08 | 0.98 | 6 |
| VCR | 3447 | 425036 | 4139278 | 425111 | 4139386 | 1949 | 2013 | -2.48 | -1.22 | -1.44 | 0.06 | -1.37 | 0.98 | 6 |
| VCR | 3448 | 424988 | 4139270 | 425069 | 4139388 | 1949 | 2013 | -3.15 | -1.60 | -1.86 | 0.06 | -1.78 | 0.98 | 6 |
| VCR | 3449 | 424950 | 4139298 | 425045 | 4139393 | 1949 | 2013 | -2.37 | -1.66 | -1.78 | 0.06 | -1.75 | 1.00 | 6 |
| PIE | 3450 | 350736 | 4736090 | 350705 | 4736081 | 1938 | 2013 | -0.07 | -0.10 | -0.08 | 0.05 | -0.03 | 0.10 | 2 |
| PIE | 3451 | 350714 | 4736046 | 350689 | 4736036 | 1938 | 2013 | 0.04 | -0.05 | 0.00 | 0.05 | 0.04 | 0.95 | 2 |
| PIE | 3452 | 350720 | 4735998 | 350699 | 4735989 | 1938 | 2013 | 0.04 | -0.06 | -0.01 | 0.05 | -0.03 | 0.79 | 2 |
| PIE | 3453 | 350767 | 4735987 | 350742 | 4735962 | 1938 | 2013 | 0.03 | -0.09 | -0.03 | 0.05 | -0.06 | 0.59 | 2 |
| PIE | 3454 | 350810 | 4735964 | 350799 | 4735942 | 1938 | 2013 | 0.04 | -0.11 | -0.03 | 0.05 | 0.05 | 0.93 | 2 |
| PIE | 3455 | 350853 | 4735941 | 350849 | 4735916 | 1938 | 2013 | -0.14 | 0.07 | -0.03 | 0.05 | 0.04 | 0.40 | 2 |
| PIE | 3456 | 350901 | 4735930 | 350905 | 4735907 | 1938 | 2013 | -0.18 | 0.12 | -0.03 | 0.05 | 0.03 | 0.99 | 2 |
| PIE | 3457 | 350946 | 4735945 | 350959 | 4735926 | 1938 | 2013 | -0.16 | 0.05 | -0.06 | 0.05 | -0.03 | 0.42 | 2 |
| PIE | 3458 | 350961 | 4735988 | 350984 | 4735972 | 1938 | 2013 | -0.11 | -0.01 | -0.06 | 0.05 | -0.05 | 0.91 | 2 |
| PIE | 3459 | 350961 | 4736038 | 350981 | 4736025 | 1938 | 2013 | -0.23 | 0.11 | -0.06 | 0.05 | -0.01 | 0.70 | 2 |
| PIE | 3460 | 350975 | 4736086 | 350992 | 4736068 | 1938 | 2013 | -0.23 | -0.07 | -0.15 | 0.05 | -0.04 | 0.72 | 2 |
| PIE | 3461 | 351011 | 4736118 | 351015 | 4736092 | 1938 | 2013 | 0.01 | -0.16 | -0.08 | 0.05 | 0.04 | 0.28 | 2 |
| PIE | 3462 | 351057 | 4736103 | 351049 | 4736060 | 1938 | 2013 | -0.13 | -0.05 | -0.09 | 0.05 | -0.08 | 0.49 | 2 |
| PIE | 3463 | 351080 | 4736059 | 351068 | 4736035 | 1938 | 2013 | -0.19 | 0.12 | -0.03 | 0.05 | -0.02 | 0.08 | 2 |
| PIE | 3464 | 351119 | 4736029 | 351103 | 4736011 | 1938 | 2013 | 0.06 | 0.03 | 0.04 | 0.05 | -0.01 | 0.03 | 2 |
| PIE | 3465 | 351167 | 4736014 | 351143 | 4735998 | 1938 | 2013 | -0.06 | 0.00 | -0.03 | 0.05 | -0.03 | 0.36 | 2 |
| PIE | 3466 | 351196 | 4735975 | 351173 | 4735969 | 1938 | 2013 | -0.16 | 0.03 | -0.06 | 0.05 | -0.01 | 0.07 | 2 |
| PIE | 3467 | 351188 | 4735927 | 351147 | 4735928 | 1938 | 2013 | 0.03 | 0.07 | 0.05 | 0.05 | -0.02 | 0.01 | 2 |
| PIE | 3468 | 351155 | 4735890 | 351122 | 4735897 | 1938 | 2013 | -0.05 | 0.12 | 0.04 | 0.05 | -0.08 | 0.23 | 2 |
| PIE | 3469 | 351134 | 4735846 | 351106 | 4735861 | 1938 | 2013 | 0.04 | 0.03 | 0.03 | 0.05 | -0.12 | 0.63 | 2 |
| PIE | 3470 | 351131 | 4735796 | 351102 | 4735816 | 1938 | 2013 | -0.08 | 0.03 | -0.03 | 0.05 | -0.10 | 0.49 | 2 |
| PIE | 3471 | 351107 | 4735755 | 351076 | 4735775 | 1938 | 2013 | -0.07 | -0.02 | -0.05 | 0.05 | -0.08 | 0.72 | 2 |
| PIE | 3472 | 351062 | 4735736 | 351040 | 4735752 | 1938 | 2013 | -0.02 | 0.00 | -0.01 | 0.05 | -0.05 | 0.44 | 2 |
| PIE | 3473 | 351022 | 4735707 | 351002 | 4735724 | 1938 | 2013 | -0.08 | 0.00 | -0.04 | 0.05 | -0.08 | 0.78 | 2 |
| PIE | 3474 | 350996 | 4735665 | 350975 | 4735680 | 1938 | 2013 | -0.08 | 0.16 | 0.04 | 0.05 | -0.04 | 0.49 | 2 |
| PIE | 3475 | 350981 | 4735619 | 350956 | 4735632 | 1938 | 2013 | -0.23 | 0.06 | -0.08 | 0.10 | -0.12 | 0.00 | 2 |
| PIE | 3476 | 350986 | 4735609 | 351033 | 4735607 | 1938 | 2013 | -0.17 | -1.19 | -0.74 | 0.11 | 0.31 | 0.00 | 2 |
| PIE | 3477 | 350768 | 4735573 | 351017 | 4735621 | 1938 | 2013 | -0.06 | -0.87 | -0.52 | 0.05 | 0.11 | 0.58 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 3478 | 350867 | 4735581 | 351018 | 4735627 | 1938 | 2013 | -0.33 | -1.07 | -0.74 | 0.05 | 0.10 | 0.59 | 2 |
| PIE | 3479 | 350992 | 4735659 | 351025 | 4735644 | 1938 | 2013 | 0.85 | -1.35 | -0.38 | 0.05 | 0.14 | 0.43 | 2 |
| PIE | 3480 | 351018 | 4735701 | 351042 | 4735683 | 1938 | 2013 | 0.03 | 0.12 | 0.08 | 0.05 | 0.08 | 0.49 | 2 |
| PIE | 3481 | 351055 | 4735733 | 351096 | 4735693 | 1938 | 2013 | -0.07 | 0.16 | 0.06 | 0.05 | -0.02 | 0.13 | 2 |
| PIE | 3482 | 351099 | 4735754 | 351135 | 4735723 | 1938 | 2013 | -0.12 | 0.20 | 0.06 | 0.05 | -0.05 | 0.37 | 2 |
| PIE | 3483 | 350618 | 4735563 | 351150 | 4735742 | 1938 | 2013 | -0.10 | -1.13 | -0.68 | 0.05 | 0.11 | 0.64 | 2 |
| PIE | 3484 | 351132 | 4735789 | 351161 | 4735770 | 1938 | 2013 | -0.21 | 0.17 | 0.00 | 0.05 | 0.17 | 0.72 | 2 |
| PIE | 3485 | 351136 | 4735838 | 351162 | 4735826 | 1938 | 2013 | 0.00 | 0.07 | 0.04 | 0.05 | 0.07 | 0.86 | 2 |
| PIE | 3486 | 351150 | 4735885 | 351176 | 4735876 | 1938 | 2013 | -0.03 | -0.05 | -0.04 | 0.05 | 0.01 | 0.01 | 2 |
| PIE | 3487 | 351182 | 4735923 | 351212 | 4735920 | 1938 | 2013 | -0.11 | 0.01 | -0.05 | 0.05 | -0.09 | 0.85 | 2 |
| PIE | 3488 | 351196 | 4735969 | 351220 | 4735973 | 1938 | 2013 | -0.08 | -0.04 | -0.06 | 0.05 | -0.05 | 1.00 | 2 |
| PIE | 3489 | 350568 | 4735559 | 351199 | 4736016 | 1938 | 2013 | -0.31 | -0.55 | -0.45 | 0.05 | -0.06 | 0.96 | 2 |
| PIE | 3490 | 351170 | 4736010 | 351193 | 4736023 | 1938 | 2013 | 0.25 | -0.03 | 0.11 | 0.05 | -0.08 | 1.00 | 2 |
| PIE | 3491 | 351123 | 4736027 | 351145 | 4736047 | 1938 | 2013 | 0.28 | -0.05 | 0.11 | 0.05 | -0.06 | 0.77 | 2 |
| PIE | 3492 | 351080 | 4736051 | 351092 | 4736072 | 1938 | 2013 | 0.25 | -0.04 | 0.10 | 0.05 | -0.02 | 0.16 | 2 |
| PIE | 3493 | 351052 | 4736091 | 351058 | 4736122 | 1938 | 2013 | 0.31 | NA | NA | 0.05 | -0.09 | 0.65 | 2 |
| PIE | 3494 | 351008 | 4736107 | 351000 | 4736134 | 1938 | 2013 | 0.43 | -0.13 | 0.14 | 0.05 | -0.08 | 0.99 | 2 |
| PIE | 3495 | 350978 | 4736072 | 350960 | 4736088 | 1938 | 2013 | 0.23 | -0.06 | 0.08 | 0.05 | 0.00 | 0.02 | 2 |
| PIE | 3496 | 350966 | 4736024 | 350945 | 4736037 | 1938 | 2013 | -0.09 | 0.05 | -0.02 | 0.05 | -0.01 | 0.14 | 2 |
| PIE | 3497 | 350971 | 4735975 | 350945 | 4735992 | 1938 | 2013 | 0.06 | -0.15 | -0.05 | 0.05 | -0.03 | 0.45 | 2 |
| PIE | 3498 | 350946 | 4735933 | 350933 | 4735953 | 1938 | 2013 | 0.36 | -0.01 | 0.17 | 0.05 | -0.04 | 0.41 | 2 |
| PIE | 3499 | 350899 | 4735922 | 350895 | 4735949 | 1938 | 2013 | 0.13 | 0.02 | 0.07 | 0.05 | -0.03 | 0.22 | 2 |
| PIE | 3500 | 350850 | 4735930 | 350854 | 4735957 | 1938 | 2013 | 0.18 | -0.15 | 0.01 | 0.05 | -0.02 | 0.07 | 2 |
| PIE | 3501 | 350806 | 4735951 | 350817 | 4735977 | 1938 | 2013 | -0.02 | -0.14 | -0.08 | 0.05 | -0.05 | 0.45 | 2 |
| PIE | 3502 | 350518 | 4735555 | 350791 | 4735994 | 1938 | 2013 | -0.18 | -0.42 | -0.31 | 0.05 | -0.05 | 0.66 | 2 |
| PIE | 3503 | 350765 | 4735977 | 350781 | 4735998 | 1938 | 2013 | -0.05 | -0.05 | -0.05 | 0.05 | -0.06 | 0.80 | 2 |
| PIE | 3504 | 350717 | 4735987 | 350745 | 4736004 | 1938 | 2013 | -0.08 | -0.08 | -0.08 | 0.05 | -0.06 | 0.26 | 2 |
| PIE | 3505 | 350704 | 4736032 | 350737 | 4736054 | 1938 | 2013 | 0.00 | -0.11 | -0.06 | 0.05 | -0.15 | 0.90 | 2 |
| PIE | 3506 | 350721 | 4736078 | 350755 | 4736104 | 1938 | 2013 | 0.07 | -0.11 | -0.02 | 0.05 | -0.08 | 0.72 | 2 |
| PIE | 3507 | 350723 | 4736123 | 350737 | 4736146 | 1938 | 2013 | 0.03 | -0.20 | -0.09 | 0.05 | -0.09 | 0.93 | 2 |
| PIE | 3508 | 348827 | 4734800 | 348852 | 4734816 | 1938 | 2013 | -0.28 | 0.03 | -0.11 | 0.06 | -0.10 | 0.56 | 2 |
| PIE | 3509 | 348797 | 4734838 | 348821 | 4734855 | 1938 | 2013 | -0.29 | 0.11 | -0.07 | 0.06 | -0.06 | 0.21 | 2 |
| PIE | 3510 | 348763 | 4734875 | 348792 | 4734890 | 1938 | 2013 | -0.38 | 0.12 | -0.10 | 0.06 | -0.09 | 0.29 | 2 |
| PIE | 3511 | 348739 | 4734918 | 348769 | 4734928 | 1938 | 2013 | -0.35 | 0.13 | -0.08 | 0.06 | -0.07 | 0.22 | 2 |
| PIE | 3512 | 348731 | 4734967 | 348768 | 4734985 | 1938 | 2013 | -0.44 | 0.05 | -0.17 | 0.06 | -0.16 | 0.56 | 2 |
| PIE | 3513 | 348744 | 4735014 | 348773 | 4735037 | 1938 | 2013 | -0.14 | -0.20 | -0.17 | 0.06 | -0.18 | 0.99 | 2 |
| PIE | 3514 | 348715 | 4735051 | 348737 | 4735080 | 1938 | 2013 | -0.34 | -0.09 | -0.20 | 0.06 | -0.20 | 0.89 | 2 |
| PIE | 3515 | 348666 | 4735052 | 348674 | 4735087 | 1938 | 2013 | -0.48 | 0.08 | -0.17 | 0.06 | -0.15 | 0.49 | 2 |
| PIE | 3516 | 348620 | 4735044 | 348612 | 4735078 | 1938 | 2013 | -0.45 | 0.11 | -0.13 | 0.06 | -0.12 | 0.37 | 2 |
| PIE | 3517 | 348571 | 4735050 | 348558 | 4735081 | 1938 | 2013 | -0.34 | 0.07 | -0.11 | 0.06 | -0.10 | 0.44 | 2 |
| PIE | 3518 | 348527 | 4735035 | 348510 | 4735066 | 1938 | 2013 | NA | 0.17 | NA | 0.10 | 0.17 | 0.00 | 2 |
| PIE | 3519 | 348512 | 4734988 | 348492 | 4735015 | 1938 | 2013 | -0.39 | 0.08 | -0.12 | 0.06 | -0.12 | 0.43 | 2 |
| PIE | 3520 | 348470 | 4734962 | 348444 | 4734989 | 1938 | 2013 | -0.50 | 0.25 | -0.08 | 0.06 | -0.07 | 0.09 | 2 |
| PIE | 3521 | 348428 | 4734937 | 348411 | 4734959 | 1938 | 2013 | -0.21 | 0.11 | -0.03 | 0.06 | -0.03 | 0.08 | 2 |
| PIE | 3522 | 348393 | 4734903 | 348374 | 4734928 | 1938 | 2013 | -0.33 | 0.12 | -0.08 | 0.06 | -0.07 | 0.23 | 2 |
| PIE | 3523 | 348357 | 4734871 | 348338 | 4734893 | 1938 | 2013 | -0.24 | 0.19 | 0.00 | 0.06 | 0.01 | 0.01 | 2 |
| PIE | 3524 | 348318 | 4734844 | 348304 | 4734867 | 1938 | 2013 | -0.21 | 0.13 | -0.02 | 0.06 | -0.02 | 0.03 | 2 |
| PIE | 3525 | 348276 | 4734818 | 348269 | 4734843 | 1938 | 2013 | -0.16 | -0.02 | -0.08 | 0.06 | -0.08 | 0.80 | 2 |
| PIE | 3526 | 348238 | 4734788 | 348243 | 4734829 | 1938 | 2013 | -0.62 | 0.20 | -0.16 | 0.06 | -0.14 | 0.28 | 2 |
| PIE | 3527 | 348283 | 4734829 | 348285 | 4734805 | 1938 | 2013 | -0.16 | -0.02 | -0.08 | 0.06 | -0.01 | 0.02 | 2 |
| PIE | 3528 | 348321 | 4734860 | 348331 | 4734833 | 1938 | 2013 | -0.17 | 0.07 | -0.03 | 0.06 | 0.07 | 0.35 | 2 |
| PIE | 3529 | 348361 | 4734889 | 348374 | 4734863 | 1938 | 2013 | 0.10 | -0.08 | 0.00 | 0.06 | -0.03 | 0.06 | 2 |
| PIE | 3530 | 348400 | 4734918 | 348414 | 4734897 | 1938 | 2013 | 0.27 | -0.07 | 0.08 | 0.06 | -0.03 | 0.17 | 2 |
| PIE | 3531 | 348435 | 4734953 | 348456 | 4734934 | 1938 | 2013 | 0.18 | -0.18 | -0.02 | 0.06 | -0.01 | 0.00 | 2 |
| PIE | 3532 | 348480 | 4734976 | 348495 | 4734958 | 1938 | 2013 | 0.10 | -0.12 | -0.02 | 0.06 | -0.03 | 0.33 | 2 |
| PIE | 3533 | 348515 | 4735011 | 348531 | 4734983 | 1938 | 2013 | 0.23 | -0.18 | 0.00 | 0.06 | -0.08 | 0.39 | 2 |
| PIE | 3534 | 348538 | 4735052 | 348545 | 4735031 | 1938 | 2013 | 0.06 | -0.09 | -0.03 | 0.06 | 0.02 | 0.81 | 2 |
| PIE | 3535 | 348585 | 4735050 | 348591 | 4735023 | 1938 | 2013 | 0.13 | -0.23 | -0.07 | 0.06 | -0.01 | 0.00 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 3536 | 348683 | 4735059 | 348666 | 4735033 | 1938 | 2013 | 0.05 | 0.01 | 0.02 | 0.06 | 0.00 | 0.00 | 2 |
| PIE | 3537 | 348732 | 4735052 | 348710 | 4735029 | 1938 | 2013 | 0.20 | -0.16 | 0.00 | 0.06 | 0.12 | 0.56 | 2 |
| PIE | 3538 | 348740 | 4735007 | 348707 | 4734986 | 1938 | 2013 | 0.14 | -0.11 | 0.00 | 0.06 | 0.04 | 0.09 | 2 |
| PIE | 3539 | 348728 | 4734959 | 348705 | 4734950 | 1938 | 2013 | -0.09 | 0.27 | 0.11 | 0.06 | 0.03 | 0.15 | 2 |
| PIE | 3540 | 348744 | 4734912 | 348724 | 4734905 | 1938 | 2013 | -0.21 | 0.22 | 0.03 | 0.06 | 0.01 | 0.99 | 2 |
| PIE | 3541 | 348771 | 4734870 | 348749 | 4734860 | 1938 | 2013 | -0.10 | 0.11 | 0.02 | 0.06 | 0.03 | 0.67 | 2 |
| PIE | 3542 | 348803 | 4734832 | 348781 | 4734817 | 1938 | 2013 | 0.01 | 0.01 | 0.01 | 0.06 | 0.09 | 0.89 | 2 |
| PIE | 3543 | 348830 | 4734792 | 348809 | 4734775 | 1938 | 2013 | -0.01 | 0.07 | 0.03 | 0.06 | 0.05 | 0.54 | 2 |
| PIE | 3544 | 350235 | 4734639 | 350224 | 4734617 | 1938 | 2013 | -0.03 | -0.28 | -0.16 | 0.05 | 0.06 | 0.98 | 2 |
| PIE | 3545 | 350282 | 4734625 | 350277 | 4734602 | 1938 | 2013 | -0.01 | -0.16 | -0.09 | 0.05 | 0.04 | 0.91 | 2 |
| PIE | 3546 | 350306 | 4734586 | 350275 | 4734589 | 1938 | 2013 | -0.24 | -0.25 | -0.24 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3547 | 350268 | 4734557 | 350261 | 4734586 | 1938 | 2013 | -0.05 | -0.01 | -0.03 | 0.05 | 0.03 | 0.07 | 2 |
| PIE | 3548 | 350219 | 4734549 | 350174 | 4734556 | 1938 | 2013 | -0.07 | 0.03 | -0.02 | 0.05 | 0.14 | 0.45 | 2 |
| PIE | 3549 | 350209 | 4734508 | 350171 | 4734507 | 1938 | 2013 | -0.05 | 0.02 | -0.01 | 0.05 | 0.14 | 0.53 | 2 |
| PIE | 3550 | 350253 | 4734489 | 350244 | 4734464 | 1938 | 2013 | -0.05 | 0.05 | 0.00 | 0.05 | 0.03 | 0.12 | 2 |
| PIE | 3551 | 350292 | 4734459 | 350262 | 4734455 | 1938 | 2013 | -0.02 | -0.05 | -0.03 | 0.05 | 0.08 | 0.50 | 2 |
| PIE | 3552 | 350286 | 4734413 | 350249 | 4734430 | 1938 | 2013 | -0.08 | 0.00 | -0.04 | 0.05 | 0.11 | 0.20 | 2 |
| PIE | 3553 | 350247 | 4734384 | 350228 | 4734414 | 1938 | 2013 | 0.15 | -0.11 | 0.02 | 0.05 | 0.09 | 0.23 | 2 |
| PIE | 3554 | 350202 | 4734363 | 350200 | 4734395 | 1938 | 2013 | 0.25 | -0.39 | -0.08 | 0.05 | 0.03 | 0.03 | 2 |
| PIE | 3555 | 350157 | 4734380 | 350157 | 4734423 | 1938 | 2013 | 0.32 | -0.20 | 0.05 | 0.05 | -0.11 | 0.73 | 2 |
| PIE | 3556 | 350123 | 4734416 | 350120 | 4734449 | 1938 | 2013 | -0.25 | -0.12 | -0.18 | 0.05 | -0.02 | 0.20 | 2 |
| PIE | 3557 | 350082 | 4734419 | 350076 | 4734447 | 1938 | 2013 | -0.36 | 0.02 | -0.16 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3558 | 350089 | 4734373 | 350063 | 4734368 | 1938 | 2013 | NA | NA | -0.14 | 0.05 | 0.02 | 0.04 | 2 |
| PIE | 3559 | 350075 | 4734423 | 350098 | 4734406 | 1938 | 2013 | -0.29 | -0.57 | -0.43 | 0.05 | 0.01 | 0.01 | 2 |
| PIE | 3560 | 350119 | 4734429 | 350123 | 4734398 | 1938 | 2013 | -0.15 | -0.55 | -0.36 | 0.05 | 0.00 | 0.02 | 2 |
| PIE | 3561 | 350155 | 4734394 | 350155 | 4734361 | 1938 | 2013 | -0.19 | -0.47 | -0.33 | 0.05 | 0.01 | 0.01 | 2 |
| PIE | 3562 | 350196 | 4734373 | 350197 | 4734346 | 1938 | 2013 | -0.01 | -0.30 | -0.16 | 0.05 | -0.04 | 0.21 | 2 |
| PIE | 3563 | 350242 | 4734390 | 350256 | 4734365 | 1938 | 2013 | 0.02 | -0.30 | -0.14 | 0.05 | -0.08 | 0.45 | 2 |
| PIE | 3564 | 350286 | 4734414 | 350308 | 4734404 | 1938 | 2013 | 0.01 | -0.33 | -0.17 | 0.05 | 0.01 | 0.06 | 2 |
| PIE | 3565 | 350287 | 4734461 | 350311 | 4734465 | 1938 | 2013 | -0.14 | -0.45 | -0.30 | 0.05 | -0.05 | 0.97 | 2 |
| PIE | 3566 | 350246 | 4734487 | 350297 | 4734493 | 1938 | 2013 | -0.32 | -0.79 | -0.56 | 0.05 | -0.06 | 0.10 | 2 |
| PIE | 3567 | 350207 | 4734515 | 350229 | 4734526 | 1938 | 2013 | -0.87 | -1.53 | -1.20 | 0.05 | -0.05 | 0.98 | 2 |
| PIE | 3568 | 350223 | 4734555 | 350232 | 4734527 | 1938 | 2013 | -0.79 | -1.70 | -1.25 | 0.05 | 0.04 | 0.10 | 2 |
| PIE | 3569 | 350273 | 4734554 | 350324 | 4734541 | 1938 | 2013 | -0.41 | -0.23 | -0.32 | 0.05 | -0.01 | 0.00 | 2 |
| PIE | 3570 | 350309 | 4734582 | 350334 | 4734574 | 1938 | 2013 | -0.20 | -0.08 | -0.14 | 0.05 | 0.07 | 0.80 | 2 |
| PIE | 3571 | 350289 | 4734624 | 350327 | 4734618 | 1938 | 2013 | -0.14 | -0.02 | -0.08 | 0.05 | -0.01 | 0.00 | 2 |
| PIE | 3572 | 350247 | 4734650 | 350281 | 4734660 | 1938 | 2013 | -0.10 | -0.01 | -0.05 | 0.05 | -0.19 | 0.00 | 2 |
| PIE | 3573 | 348672 | 4732771 | 348665 | 4732748 | 1938 | 2013 | 0.03 | -0.02 | 0.01 | 0.06 | -0.01 | 0.02 | 2 |
| PIE | 3574 | 348626 | 4732789 | 348628 | 4732764 | 1938 | 2013 | -0.03 | -0.01 | -0.02 | 0.06 | 0.06 | 0.99 | 2 |
| PIE | 3575 | 348579 | 4732775 | 348592 | 4732758 | 1938 | 2013 | -0.07 | -0.09 | -0.08 | 0.06 | 0.01 | 0.13 | 2 |
| PIE | 3576 | 348559 | 4732731 | 348581 | 4732723 | 1938 | 2013 | -0.03 | -0.10 | -0.07 | 0.06 | -0.02 | 0.92 | 2 |
| PIE | 3577 | 348567 | 4732682 | 348593 | 4732685 | 1938 | 2013 | -0.11 | -0.10 | -0.10 | 0.06 | -0.08 | 0.99 | 2 |
| PIE | 3578 | 348590 | 4732637 | 348613 | 4732649 | 1938 | 2013 | -0.06 | -0.12 | -0.09 | 0.06 | -0.07 | 0.93 | 2 |
| PIE | 3579 | 348619 | 4732597 | 348646 | 4732610 | 1938 | 2013 | -0.11 | -0.02 | -0.06 | 0.06 | -0.10 | 1.00 | 2 |
| PIE | 3580 | 348653 | 4732560 | 348678 | 4732570 | 1938 | 2013 | -0.11 | -0.06 | -0.08 | 0.06 | -0.10 | 0.97 | 2 |
| PIE | 3581 | 348669 | 4732514 | 348694 | 4732516 | 1938 | 2013 | -0.15 | 0.05 | -0.04 | 0.06 | -0.06 | 0.84 | 2 |
| PIE | 3582 | 348654 | 4732469 | 348679 | 4732459 | 1938 | 2013 | -0.04 | -0.04 | -0.04 | 0.06 | -0.08 | 0.97 | 2 |
| PIE | 3583 | 348631 | 4732425 | 348646 | 4732405 | 1938 | 2013 | -0.13 | -0.06 | -0.09 | 0.06 | -0.04 | 0.28 | 2 |
| PIE | 3584 | 348593 | 4732393 | 348596 | 4732369 | 1938 | 2013 | -0.26 | 0.20 | 0.00 | 0.06 | -0.04 | 1.00 | 2 |
| PIE | 3585 | 348546 | 4732405 | 348541 | 4732378 | 1938 | 2013 | -0.15 | 0.18 | 0.03 | 0.06 | -0.09 | 0.96 | 2 |
| PIE | 3586 | 348505 | 4732432 | 348499 | 4732398 | 1938 | 2013 | -0.25 | 0.10 | -0.05 | 0.06 | 0.01 | 0.00 | 2 |
| PIE | 3587 | 348468 | 4732463 | 348471 | 4732433 | 1938 | 2013 | -0.21 | 0.00 | -0.09 | 0.06 | 0.04 | 0.15 | 2 |
| PIE | 3588 | 348424 | 4732446 | 348440 | 4732413 | 1938 | 2013 | -0.30 | 0.03 | -0.11 | 0.06 | -0.05 | 0.18 | 2 |
| PIE | 3589 | 348410 | 4732399 | 348428 | 4732368 | 1938 | 2013 | -0.25 | 0.10 | -0.06 | 0.06 | -0.09 | 0.70 | 2 |
| PIE | 3590 | 348387 | 4732358 | 348399 | 4732330 | 1938 | 2013 | -0.25 | -0.02 | -0.12 | 0.06 | -0.11 | 0.58 | 2 |
| PIE | 3591 | 348347 | 4732383 | 348342 | 4732354 | 1938 | 2013 | -0.28 | -0.10 | -0.18 | 0.06 | -0.05 | 0.19 | 2 |
| PIE | 3592 | 348303 | 4732406 | 348281 | 4732387 | 1938 | 2013 | -0.45 | -0.11 | -0.26 | 0.06 | -0.12 | 0.78 | 2 |
| PIE | 3593 | 348301 | 4732452 | 348264 | 4732433 | 1938 | 2013 | -0.28 | 0.13 | -0.05 | 0.06 | -0.17 | 0.92 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 3594 | 348326 | 4732494 | 348274 | 4732464 | 1938 | 2013 | -0.30 | 0.07 | -0.09 | 0.06 | -0.25 | 0.88 | 2 |
| PIE | 3595 | 348298 | 4732533 | 348279 | 4732511 | 1938 | 2013 | -0.22 | -0.07 | -0.14 | 0.06 | -0.04 | 0.11 | 2 |
| PIE | 3596 | 348254 | 4732552 | 348250 | 4732522 | 1938 | 2013 | -0.20 | 0.26 | 0.06 | 0.06 | -0.08 | 0.38 | 2 |
| PIE | 3597 | 348209 | 4732534 | 348203 | 4732500 | 1938 | 2013 | -0.19 | 0.03 | -0.07 | 0.06 | -0.14 | 0.92 | 2 |
| PIE | 3598 | 348163 | 4732514 | 348153 | 4732475 | 1938 | 2013 | -0.11 | 0.09 | 0.00 | 0.06 | 0.07 | 0.22 | 2 |
| PIE | 3599 | 348127 | 4732515 | 348113 | 4732487 | 1938 | 2013 | 0.07 | -0.11 | -0.03 | 0.06 | -0.06 | 0.49 | 2 |
| PIE | 3600 | 348110 | 4732561 | 348088 | 4732551 | 1938 | 2013 | 0.04 | -0.19 | -0.09 | 0.06 | 0.01 | 0.01 | 2 |
| PIE | 3601 | 348101 | 4732560 | 348120 | 4732575 | 1938 | 2013 | 0.16 | -0.31 | -0.10 | 0.06 | -0.03 | 0.29 | 2 |
| PIE | 3602 | 348119 | 4732514 | 348131 | 4732557 | 1938 | 2013 | -0.06 | -0.16 | -0.11 | 0.06 | -0.09 | 0.66 | 2 |
| PIE | 3603 | 348156 | 4732492 | 348162 | 4732532 | 1938 | 2013 | 0.02 | -0.17 | -0.08 | 0.06 | -0.11 | 0.41 | 2 |
| PIE | 3604 | 348196 | 4732521 | 348200 | 4732554 | 1938 | 2013 | 0.07 | -0.14 | -0.05 | 0.06 | -0.12 | 0.94 | 2 |
| PIE | 3605 | 348241 | 4732541 | 348245 | 4732570 | 1938 | 2013 | 0.06 | -0.12 | -0.04 | 0.06 | -0.09 | 0.73 | 2 |
| PIE | 3606 | 348286 | 4732533 | 348303 | 4732554 | 1938 | 2013 | -0.07 | 0.09 | 0.02 | 0.06 | -0.05 | 0.40 | 2 |
| PIE | 3607 | 348315 | 4732494 | 348337 | 4732507 | 1938 | 2013 | -0.05 | -0.09 | -0.07 | 0.06 | -0.04 | 0.40 | 2 |
| PIE | 3608 | 348292 | 4732450 | 348312 | 4732437 | 1938 | 2013 | -0.13 | -0.09 | -0.11 | 0.06 | 0.02 | 0.20 | 2 |
| PIE | 3609 | 348292 | 4732404 | 348312 | 4732419 | 1938 | 2013 | 0.08 | -0.23 | -0.09 | 0.06 | -0.07 | 0.98 | 2 |
| PIE | 3610 | 348332 | 4732377 | 348344 | 4732403 | 1938 | 2013 | -0.01 | 0.00 | 0.00 | 0.06 | -0.11 | 0.99 | 2 |
| PIE | 3611 | 348375 | 4732354 | 348367 | 4732391 | 1938 | 2013 | 0.06 | -0.14 | -0.05 | 0.06 | -0.10 | 0.56 | 2 |
| PIE | 3612 | 348411 | 4732384 | 348393 | 4732393 | 1938 | 2013 | 0.06 | -0.16 | -0.06 | 0.06 | 0.00 | 0.04 | 2 |
| PIE | 3613 | 348425 | 4732432 | 348416 | 4732469 | 1938 | 2013 | NA | -0.07 | NA | 0.06 | -0.05 | 0.48 | 2 |
| PIE | 3614 | 348458 | 4732461 | 348453 | 4732487 | 1938 | 2013 | 0.17 | -0.10 | 0.02 | 0.06 | -0.07 | 0.54 | 2 |
| PIE | 3615 | 348501 | 4732440 | 348502 | 4732472 | 1938 | 2013 | 0.05 | -0.07 | -0.02 | 0.10 | -0.07 | 0.00 | 2 |
| PIE | 3616 | 348535 | 4732406 | 348537 | 4732433 | 1938 | 2013 | 0.12 | -0.08 | 0.01 | 0.06 | 0.01 | 0.03 | 2 |
| PIE | 3617 | 348584 | 4732400 | 348579 | 4732423 | 1938 | 2013 | -0.03 | 0.01 | -0.01 | 0.06 | -0.02 | 0.22 | 2 |
| PIE | 3618 | 348625 | 4732427 | 348609 | 4732445 | 1938 | 2013 | 0.08 | 0.03 | 0.05 | 0.06 | 0.00 | 0.01 | 2 |
| PIE | 3619 | 348650 | 4732470 | 348630 | 4732476 | 1938 | 2013 | -0.16 | 0.04 | -0.04 | 0.06 | -0.01 | 0.29 | 2 |
| PIE | 3620 | 348661 | 4732518 | 348638 | 4732515 | 1938 | 2013 | -0.03 | -0.04 | -0.04 | 0.06 | 0.05 | 0.94 | 2 |
| PIE | 3621 | 348644 | 4732564 | 348620 | 4732555 | 1938 | 2013 | -0.15 | 0.10 | -0.01 | 0.06 | -0.04 | 0.33 | 2 |
| PIE | 3622 | 348609 | 4732600 | 348589 | 4732588 | 1938 | 2013 | -0.16 | 0.01 | -0.07 | 0.06 | -0.04 | 1.00 | 2 |
| PIE | 3623 | 348582 | 4732641 | 348561 | 4732629 | 1938 | 2013 | -0.08 | -0.02 | -0.05 | 0.06 | -0.01 | 0.01 | 2 |
| PIE | 3624 | 348559 | 4732685 | 348534 | 4732678 | 1938 | 2013 | -0.05 | -0.10 | -0.08 | 0.06 | -0.06 | 0.64 | 2 |
| PIE | 3625 | 348542 | 4732731 | 348517 | 4732735 | 1938 | 2013 | 0.02 | -0.18 | -0.10 | 0.06 | -0.05 | 0.88 | 2 |
| PIE | 3626 | 348552 | 4732777 | 348533 | 4732794 | 1938 | 2013 | -0.12 | -0.04 | -0.08 | 0.06 | -0.08 | 0.98 | 2 |
| PIE | 3627 | 348595 | 4732801 | 348584 | 4732826 | 1938 | 2013 | -0.06 | NA | NA | 0.06 | -0.10 | 0.76 | 2 |
| PIE | 3628 | 348643 | 4732796 | 348653 | 4732820 | 1938 | 2013 | 0.13 | -0.04 | 0.04 | 0.06 | -0.07 | 0.93 | 2 |
| PIE | 3629 | 348688 | 4732776 | 348684 | 4732805 | 1938 | 2013 | -0.10 | -0.02 | -0.06 | 0.13 | -0.06 | 0.00 | 2 |
| PIE | 3630 | 348677 | 4732835 | 348698 | 4732836 | 1938 | 2013 | -0.03 | -0.04 | -0.04 | 0.05 | 0.02 | 0.77 | 2 |
| PIE | 3631 | 348682 | 4732884 | 348707 | 4732882 | 1938 | 2013 | 0.14 | -0.19 | -0.03 | 0.05 | 0.05 | 0.93 | 2 |
| PIE | 3632 | 348695 | 4732928 | 348721 | 4732932 | 1938 | 2013 | 0.45 | -0.38 | 0.03 | 0.05 | 0.03 | 0.67 | 2 |
| PIE | 3633 | 348690 | 4732974 | 348721 | 4732983 | 1938 | 2013 | 0.31 | NA | NA | 0.05 | 0.02 | 0.03 | 2 |
| PIE | 3634 | 348649 | 4733003 | 348684 | 4733019 | 1938 | 2013 | -0.22 | 0.11 | -0.05 | 0.05 | -0.03 | 0.02 | 2 |
| PIE | 3635 | 348612 | 4733036 | 348643 | 4733056 | 1938 | 2013 | NA | NA | -0.02 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3636 | 348591 | 4733081 | 348625 | 4733101 | 1938 | 2013 | -0.35 | 0.33 | 0.00 | 0.05 | 0.07 | 0.09 | 2 |
| PIE | 3637 | 348578 | 4733128 | 348614 | 4733148 | 1938 | 2013 | -0.10 | 0.17 | 0.04 | 0.05 | 0.07 | 0.06 | 2 |
| PIE | 3638 | 348555 | 4733172 | 348591 | 4733188 | 1938 | 2013 | -0.54 | 0.30 | -0.11 | 0.05 | -0.01 | 0.00 | 2 |
| PIE | 3639 | 348527 | 4733211 | 348565 | 4733224 | 1938 | 2013 | -0.41 | 0.37 | -0.01 | 0.05 | 0.03 | 0.02 | 2 |
| PIE | 3640 | 348499 | 4733251 | 348544 | 4733255 | 1938 | 2013 | -0.16 | 0.12 | -0.02 | 0.05 | 0.06 | 0.03 | 2 |
| PIE | 3641 | 348503 | 4733301 | 348541 | 4733289 | 1938 | 2013 | -0.16 | 0.06 | -0.05 | 0.05 | 0.04 | 0.02 | 2 |
| PIE | 3642 | 348532 | 4733340 | 348560 | 4733319 | 1938 | 2013 | -0.17 | 0.11 | -0.02 | 0.05 | -0.02 | 0.01 | 2 |
| PIE | 3643 | 348683 | 4733479 | 348649 | 4733463 | 1938 | 2013 | -0.05 | -0.01 | -0.03 | 0.05 | 0.03 | 0.01 | 2 |
| PIE | 3644 | 348694 | 4733432 | 348652 | 4733435 | 1938 | 2013 | -0.13 | 0.01 | -0.06 | 0.05 | 0.05 | 0.02 | 2 |
| PIE | 3645 | 348673 | 4733386 | 348637 | 4733398 | 1938 | 2013 | -0.07 | -0.03 | -0.05 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3646 | 348660 | 4733339 | 348632 | 4733359 | 1938 | 2013 | -0.10 | 0.04 | -0.03 | 0.05 | -0.11 | 0.99 | 2 |
| PIE | 3647 | 348616 | 4733319 | 348589 | 4733334 | 1938 | 2013 | -0.05 | 0.04 | -0.01 | 0.05 | -0.05 | 0.74 | 2 |
| PIE | 3648 | 348569 | 4733302 | 348541 | 4733311 | 1938 | 2013 | 0.00 | 0.05 | 0.03 | 0.05 | -0.03 | 0.25 | 2 |
| PIE | 3649 | 348563 | 4733257 | 348522 | 4733258 | 1938 | 2013 | 0.17 | -0.07 | 0.05 | 0.05 | -0.05 | 0.04 | 2 |
| PIE | 3650 | 348590 | 4733215 | 348557 | 4733207 | 1938 | 2013 | -0.11 | 0.17 | 0.03 | 0.05 | 0.03 | 0.03 | 2 |
| PIE | 3651 | 348624 | 4733179 | 348590 | 4733159 | 1938 | 2013 | -0.07 | -0.09 | -0.08 | 0.05 | 0.05 | 0.04 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 3652 | 348644 | 4733134 | 348608 | 4733110 | 1938 | 2013 | 0.16 | -0.21 | -0.03 | 0.05 | 0.05 | 0.03 | 2 |
| PIE | 3653 | 348657 | 4733086 | 348625 | 4733064 | 1938 | 2013 | -0.08 | -0.09 | -0.08 | 0.05 | 0.04 | 0.03 | 2 |
| PIE | 3654 | 348686 | 4733045 | 348655 | 4733030 | 1938 | 2013 | -0.07 | -0.05 | -0.06 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3655 | 348726 | 4733017 | 348697 | 4733003 | 1938 | 2013 | -0.21 | 0.09 | -0.06 | 0.05 | -0.06 | 0.18 | 2 |
| PIE | 3656 | 348749 | 4732973 | 348723 | 4732967 | 1938 | 2013 | -0.05 | -0.15 | -0.10 | 0.05 | -0.04 | 0.18 | 2 |
| PIE | 3657 | 348753 | 4732924 | 348726 | 4732921 | 1938 | 2013 | -0.10 | -0.14 | -0.12 | 0.05 | 0.04 | 0.31 | 2 |
| PIE | 3658 | 348734 | 4732878 | 348709 | 4732875 | 1938 | 2013 | -0.07 | -0.14 | -0.11 | 0.05 | 0.02 | 0.44 | 2 |
| PIE | 3659 | 348726 | 4732830 | 348703 | 4732824 | 1938 | 2013 | 0.11 | -0.15 | -0.02 | 0.05 | 0.00 | 0.01 | 2 |
| PIE | 3660 | 348837 | 4732699 | 348815 | 4732710 | 1938 | 2013 | 0.16 | -0.01 | 0.07 | 0.11 | -0.06 | 0.00 | 2 |
| PIE | 3661 | 348837 | 4732700 | 348815 | 4732710 | 1938 | 2013 | 0.25 | -0.17 | 0.03 | 0.11 | -0.06 | 0.00 | 2 |
| PIE | 3662 | 348846 | 4732747 | 348831 | 4732763 | 1938 | 2013 | 0.14 | -0.11 | 0.01 | 0.05 | -0.02 | 1.00 | 2 |
| PIE | 3663 | 348890 | 4732769 | 348872 | 4732784 | 1938 | 2013 | 0.00 | -0.06 | -0.03 | 0.05 | 0.02 | 0.97 | 2 |
| PIE | 3664 | 348936 | 4732762 | 348925 | 4732782 | 1938 | 2013 | -0.04 | 0.02 | -0.01 | 0.05 | 0.02 | 0.69 | 2 |
| PIE | 3665 | 348954 | 4732806 | 348931 | 4732806 | 1938 | 2013 | 0.02 | -0.03 | 0.00 | 0.05 | 0.03 | 0.61 | 2 |
| PIE | 3666 | 348939 | 4732851 | 348926 | 4732827 | 1938 | 2013 | 0.16 | -0.23 | -0.04 | 0.05 | 0.05 | 0.27 | 2 |
| PIE | 3667 | 348849 | 4732713 | 348829 | 4732714 | 1938 | 2013 | 0.39 | -0.45 | -0.04 | 0.05 | 0.01 | 0.92 | 2 |
| PIE | 3668 | 348878 | 4732743 | 348852 | 4732761 | 1938 | 2013 | 0.05 | -0.14 | -0.05 | 0.05 | 0.04 | 0.51 | 2 |
| PIE | 3669 | 348922 | 4732745 | 348880 | 4732774 | 1938 | 2013 | 0.08 | -0.20 | -0.06 | 0.05 | 0.03 | 0.11 | 2 |
| PIE | 3670 | 348958 | 4732773 | 348938 | 4732783 | 1938 | 2013 | 0.08 | -0.08 | 0.00 | 0.05 | 0.03 | 1.00 | 2 |
| PIE | 3671 | 348966 | 4732822 | 348942 | 4732815 | 1938 | 2013 | 0.05 | -0.06 | -0.01 | 0.05 | 0.04 | 0.53 | 2 |
| PIE | 3672 | 348941 | 4732862 | 348930 | 4732840 | 1938 | 2013 | 0.03 | -0.01 | 0.01 | 0.05 | -0.02 | 0.13 | 2 |
| PIE | 3673 | 349321 | 4732915 | 349326 | 4732939 | 1938 | 2013 | -0.06 | -0.03 | -0.05 | 0.05 | 0.01 | 0.06 | 2 |
| PIE | 3674 | 349274 | 4732929 | 349291 | 4732945 | 1938 | 2013 | -0.16 | 0.22 | 0.04 | 0.05 | -0.01 | 0.26 | 2 |
| PIE | 3675 | 349233 | 4732956 | 349261 | 4732981 | 1938 | 2013 | -0.51 | 0.45 | -0.02 | 0.05 | -0.02 | 0.01 | 2 |
| PIE | 3676 | 349206 | 4732997 | 349242 | 4733025 | 1938 | 2013 | 0.01 | 0.13 | 0.07 | 0.05 | 0.08 | 0.07 | 2 |
| PIE | 3677 | 349195 | 4733044 | 349230 | 4733069 | 1938 | 2013 | 0.13 | -0.13 | 0.00 | 0.05 | 0.07 | 0.06 | 2 |
| PIE | 3678 | 349175 | 4733090 | 349200 | 4733110 | 1938 | 2013 | NA | NA | -0.19 | 0.05 | 0.06 | 0.15 | 2 |
| PIE | 3679 | 349135 | 4733118 | 349162 | 4733141 | 1938 | 2013 | -0.04 | 0.24 | 0.10 | 0.05 | 0.02 | 0.01 | 2 |
| PIE | 3680 | 349122 | 4733165 | 349156 | 4733197 | 1938 | 2013 | -0.22 | 0.36 | 0.08 | 0.05 | 0.01 | 0.00 | 2 |
| PIE | 3681 | 349094 | 4733198 | 349130 | 4733215 | 1938 | 2013 | 0.01 | 0.17 | 0.09 | 0.05 | -0.03 | 0.01 | 2 |
| PIE | 3682 | 349148 | 4733211 | 349132 | 4733191 | 1938 | 2013 | 0.04 | -0.03 | 0.00 | 0.05 | 0.04 | 0.41 | 2 |
| PIE | 3683 | 349179 | 4733178 | 349134 | 4733147 | 1938 | 2013 | 0.13 | -0.11 | 0.01 | 0.05 | 0.08 | 0.04 | 2 |
| PIE | 3684 | 349188 | 4733136 | 349157 | 4733120 | 1938 | 2013 | -0.18 | 0.09 | -0.04 | 0.05 | 0.05 | 0.31 | 2 |
| PIE | 3685 | 349229 | 4733109 | 349191 | 4733092 | 1938 | 2013 | -0.23 | 0.07 | -0.08 | 0.05 | 0.06 | 0.04 | 2 |
| PIE | 3686 | 349250 | 4733065 | 349213 | 4733034 | 1938 | 2013 | -0.08 | 0.09 | 0.01 | 0.05 | 0.04 | 0.01 | 2 |
| PIE | 3687 | 349265 | 4733017 | 349231 | 4732983 | 1938 | 2013 | -0.07 | -0.04 | -0.05 | 0.05 | 0.04 | 0.02 | 2 |
| PIE | 3688 | 349285 | 4732973 | 349276 | 4732943 | 1938 | 2013 | 0.27 | -0.38 | -0.06 | 0.05 | 0.01 | 0.01 | 2 |
| PIE | 3689 | 349373 | 4733002 | 349332 | 4733011 | 1938 | 2013 | 0.02 | -0.02 | 0.00 | 0.05 | -0.04 | 0.02 | 2 |
| PIE | 3690 | 349399 | 4733044 | 349371 | 4733061 | 1938 | 2013 | -0.17 | 0.18 | 0.01 | 0.05 | -0.01 | 0.00 | 2 |
| PIE | 3691 | 349442 | 4733069 | 349413 | 4733093 | 1938 | 2013 | -0.20 | 0.26 | 0.03 | 0.05 | -0.04 | 0.04 | 2 |
| PIE | 3692 | 349486 | 4733093 | 349454 | 4733115 | 1938 | 2013 | -0.29 | 0.24 | -0.02 | 0.05 | -0.01 | 0.00 | 2 |
| PIE | 3693 | 349525 | 4733123 | 349482 | 4733138 | 1938 | 2013 | -0.20 | 0.20 | 0.01 | 0.05 | -0.03 | 0.01 | 2 |
| PIE | 3694 | 349474 | 4733117 | 349513 | 4733096 | 1938 | 2013 | -0.23 | 0.15 | -0.03 | 0.05 | -0.07 | 0.07 | 2 |
| PIE | 3695 | 349438 | 4733083 | 349470 | 4733061 | 1938 | 2013 | 0.08 | -0.09 | 0.00 | 0.05 | -0.03 | 0.01 | 2 |
| PIE | 3696 | 349394 | 4733061 | 349427 | 4733035 | 1938 | 2013 | 0.06 | -0.12 | -0.04 | 0.05 | 0.05 | 0.03 | 2 |
| PIE | 3697 | 349362 | 4733022 | 349402 | 4733005 | 1938 | 2013 | 0.24 | -0.27 | -0.02 | 0.05 | 0.02 | 0.00 | 2 |
| PIE | 3698 | 349729 | 4732853 | 349747 | 4732873 | 1938 | 2013 | 0.39 | -0.19 | 0.09 | 0.05 | 0.08 | 0.97 | 2 |
| PIE | 3699 | 349708 | 4732899 | 349725 | 4732910 | 1938 | 2013 | 0.30 | -0.23 | 0.03 | 0.05 | -0.01 | 0.51 | 2 |
| PIE | 3700 | 349694 | 4732947 | 349721 | 4732967 | 1938 | 2013 | 0.01 | -0.22 | -0.11 | 0.05 | -0.01 | 0.40 | 2 |
| PIE | 3701 | 349679 | 4732992 | 349701 | 4733005 | 1938 | 2013 | 0.06 | -0.09 | -0.02 | 0.05 | -0.02 | 0.06 | 2 |
| PIE | 3702 | 349638 | 4733018 | 349666 | 4733030 | 1938 | 2013 | 0.15 | -0.14 | 0.00 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3703 | 349600 | 4733051 | 349634 | 4733059 | 1938 | 2013 | 0.18 | -0.14 | 0.02 | 0.05 | 0.01 | 0.01 | 2 |
| PIE | 3704 | 349591 | 4733097 | 349646 | 4733104 | 1938 | 2013 | 0.35 | -0.09 | 0.13 | 0.05 | 0.02 | 0.00 | 2 |
| PIE | 3705 | 349617 | 4733139 | 349663 | 4733140 | 1938 | 2013 | 0.14 | -0.13 | 0.00 | 0.05 | 0.01 | 0.00 | 2 |
| PIE | 3706 | 349630 | 4733144 | 349666 | 4733150 | 1938 | 2013 | 0.50 | -0.26 | 0.11 | 0.05 | -0.05 | 0.00 | 2 |
| PIE | 3707 | 349605 | 4733101 | 349669 | 4733124 | 1938 | 2013 | 0.22 | -0.05 | 0.08 | 0.05 | -0.01 | 0.00 | 2 |
| PIE | 3708 | 349612 | 4733055 | 349646 | 4733075 | 1938 | 2013 | -0.11 | 0.15 | 0.03 | 0.05 | -0.08 | 0.13 | 2 |
| PIE | 3709 | 349651 | 4733024 | 349686 | 4733038 | 1938 | 2013 | 0.39 | -0.09 | 0.15 | 0.05 | -0.12 | 0.65 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 3710 | 349695 | 4733004 | 349720 | 4733020 | 1938 | 2013 | 0.40 | -0.12 | 0.14 | 0.05 | -0.06 | 0.29 | 2 |
| PIE | 3711 | 349715 | 4732959 | 349749 | 4732983 | 1938 | 2013 | 0.25 | -0.17 | 0.04 | 0.05 | -0.07 | 0.09 | 2 |
| PIE | 3712 | 349723 | 4732910 | 349746 | 4732924 | 1938 | 2013 | 0.13 | -0.13 | 0.00 | 0.05 | -0.08 | 0.86 | 2 |
| PIE | 3713 | 349750 | 4732869 | 349770 | 4732884 | 1938 | 2013 | 0.02 | 0.06 | 0.04 | 0.05 | -0.06 | 0.75 | 2 |
| PIE | 3714 | 349822 | 4732852 | 349804 | 4732874 | 1938 | 2013 | -0.31 | 0.23 | -0.04 | 0.05 | -0.11 | 1.00 | 2 |
| PIE | 3715 | 349861 | 4732883 | 349851 | 4732910 | 1938 | 2013 | -0.24 | 0.32 | 0.05 | 0.05 | -0.11 | 0.99 | 2 |
| PIE | 3716 | 349903 | 4732908 | 349899 | 4732931 | 1938 | 2013 | -0.30 | 0.29 | 0.01 | 0.05 | -0.04 | 0.99 | 2 |
| PIE | 3717 | 349953 | 4732906 | 349951 | 4732928 | 1938 | 2013 | -0.24 | 0.06 | -0.09 | 0.05 | 0.01 | 0.99 | 2 |
| PIE | 3718 | 350001 | 4732894 | 350000 | 4732916 | 1938 | 2013 | 0.09 | -0.21 | -0.06 | 0.05 | -0.02 | 0.99 | 2 |
| PIE | 3719 | 350051 | 4732894 | 350047 | 4732915 | 1938 | 2013 | 0.00 | -0.02 | -0.01 | 0.05 | -0.01 | 0.90 | 2 |
| PIE | 3720 | 350100 | 4732901 | 350085 | 4732927 | 1938 | 2013 | -0.32 | 0.23 | -0.04 | 0.05 | 0.02 | 0.02 | 2 |
| PIE | 3721 | 350138 | 4732932 | 350118 | 4732948 | 1938 | 2013 | -0.34 | 0.20 | -0.06 | 0.05 | -0.03 | 0.18 | 2 |
| PIE | 3722 | 350151 | 4732980 | 350127 | 4732988 | 1938 | 2013 | -0.16 | 0.16 | 0.01 | 0.05 | 0.02 | 0.11 | 2 |
| PIE | 3723 | 350155 | 4733029 | 350128 | 4733030 | 1938 | 2013 | -0.18 | 0.17 | 0.00 | 0.05 | 0.03 | 0.14 | 2 |
| PIE | 3724 | 350148 | 4733079 | 350123 | 4733078 | 1938 | 2013 | -0.35 | 0.15 | -0.09 | 0.05 | 0.06 | 0.83 | 2 |
| PIE | 3725 | 350131 | 4733126 | 350103 | 4733127 | 1938 | 2013 | -0.32 | 0.21 | -0.05 | 0.05 | 0.07 | 0.72 | 2 |
| PIE | 3726 | 350128 | 4733174 | 350104 | 4733174 | 1938 | 2013 | -0.16 | 0.06 | -0.05 | 0.05 | 0.04 | 0.82 | 2 |
| PIE | 3727 | 350154 | 4733216 | 350126 | 4733213 | 1938 | 2013 | -0.01 | -0.04 | -0.03 | 0.05 | -0.03 | 0.88 | 2 |
| PIE | 3728 | 350159 | 4733264 | 350137 | 4733258 | 1938 | 2013 | 0.17 | -0.04 | 0.06 | 0.05 | 0.04 | 0.89 | 2 |
| PIE | 3729 | 350133 | 4733305 | 350113 | 4733288 | 1938 | 2013 | 0.15 | -0.13 | 0.01 | 0.05 | 0.05 | 0.48 | 2 |
| PIE | 3730 | 350092 | 4733332 | 350082 | 4733309 | 1938 | 2013 | -0.17 | 0.02 | -0.07 | 0.05 | 0.06 | 0.98 | 2 |
| PIE | 3731 | 350043 | 4733339 | 350044 | 4733315 | 1938 | 2013 | 0.08 | 0.00 | 0.04 | 0.05 | 0.01 | 0.02 | 2 |
| PIE | 3732 | 349995 | 4733326 | 350005 | 4733307 | 1938 | 2013 | -0.10 | 0.08 | -0.01 | 0.05 | 0.02 | 0.82 | 2 |
| PIE | 3733 | 349958 | 4733294 | 349972 | 4733276 | 1938 | 2013 | -0.18 | 0.08 | -0.05 | 0.05 | -0.02 | 0.47 | 2 |
| PIE | 3734 | 349931 | 4733252 | 349949 | 4733228 | 1938 | 2013 | -0.15 | 0.27 | 0.06 | 0.05 | -0.08 | 0.89 | 2 |
| PIE | 3735 | 349911 | 4733206 | 349922 | 4733180 | 1938 | 2013 | -0.27 | 0.07 | -0.09 | 0.05 | -0.07 | 0.66 | 2 |
| PIE | 3736 | 349865 | 4733193 | 349860 | 4733167 | 1938 | 2013 | -0.17 | 0.11 | -0.02 | 0.05 | -0.07 | 0.68 | 2 |
| PIE | 3737 | 349835 | 4733225 | 349803 | 4733212 | 1938 | 2013 | -0.14 | 0.04 | -0.05 | 0.05 | -0.05 | 0.08 | 2 |
| PIE | 3738 | 349842 | 4733272 | 349817 | 4733275 | 1938 | 2013 | -0.14 | 0.02 | -0.06 | 0.05 | 0.05 | 0.98 | 2 |
| PIE | 3739 | 349866 | 4733316 | 349842 | 4733323 | 1938 | 2013 | 0.13 | -0.04 | 0.04 | 0.05 | 0.03 | 0.31 | 2 |
| PIE | 3740 | 349892 | 4733359 | 349868 | 4733363 | 1938 | 2013 | 0.09 | -0.11 | -0.02 | 0.05 | 0.01 | 0.11 | 2 |
| PIE | 3741 | 349910 | 4733405 | 349885 | 4733400 | 1938 | 2013 | 0.15 | -0.13 | 0.00 | 0.05 | -0.01 | 0.03 | 2 |
| PIE | 3742 | 349894 | 4733451 | 349871 | 4733436 | 1938 | 2013 | 0.26 | -0.25 | 0.00 | 0.05 | -0.01 | 0.01 | 2 |
| PIE | 3743 | 349858 | 4733485 | 349844 | 4733462 | 1938 | 2013 | 0.22 | -0.17 | 0.02 | 0.05 | -0.02 | 0.08 | 2 |
| PIE | 3744 | 349810 | 4733496 | 349804 | 4733470 | 1938 | 2013 | 0.16 | -0.18 | -0.01 | 0.05 | -0.05 | 0.33 | 2 |
| PIE | 3745 | 349760 | 4733489 | 349760 | 4733463 | 1938 | 2013 | 0.24 | -0.12 | 0.05 | 0.05 | -0.02 | 0.04 | 2 |
| PIE | 3746 | 349710 | 4733492 | 349712 | 4733457 | 1938 | 2013 | 0.07 | -0.22 | -0.08 | 0.05 | -0.01 | 0.00 | 2 |
| PIE | 3747 | 349661 | 4733487 | 349651 | 4733443 | 1938 | 2013 | 0.04 | -0.22 | -0.09 | 0.05 | -0.11 | 0.17 | 2 |
| PIE | 3748 | 349615 | 4733470 | 349605 | 4733444 | 1938 | 2013 | -0.01 | -0.15 | -0.08 | 0.05 | 0.04 | 0.20 | 2 |
| PIE | 3749 | 349538 | 4733569 | 349546 | 4733532 | 1938 | 2013 | 0.11 | -0.22 | -0.06 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3750 | 349559 | 4733523 | 349574 | 4733565 | 1938 | 2013 | 0.07 | -0.17 | -0.05 | 0.05 | -0.02 | 0.00 | 2 |
| PIE | 3751 | 349572 | 4733477 | 349599 | 4733488 | 1938 | 2013 | 0.15 | -0.15 | 0.00 | 0.05 | -0.05 | 0.20 | 2 |
| PIE | 3752 | 349616 | 4733457 | 349630 | 4733490 | 1938 | 2013 | 0.14 | -0.09 | 0.02 | 0.11 | 0.31 | 0.00 | 2 |
| PIE | 3753 | 349665 | 4733462 | 349669 | 4733501 | 1938 | 2013 | 0.11 | -0.17 | -0.04 | 0.05 | 0.02 | 0.01 | 2 |
| PIE | 3754 | 349712 | 4733479 | 349709 | 4733506 | 1938 | 2013 | 0.09 | -0.16 | -0.03 | 0.05 | -0.03 | 0.08 | 2 |
| PIE | 3755 | 349762 | 4733480 | 349762 | 4733503 | 1938 | 2013 | 0.09 | -0.18 | -0.05 | 0.05 | -0.04 | 0.99 | 2 |
| PIE | 3756 | 349812 | 4733483 | 349820 | 4733510 | 1938 | 2013 | 0.20 | -0.19 | 0.00 | 0.05 | -0.02 | 0.09 | 2 |
| PIE | 3757 | 349858 | 4733469 | 349876 | 4733492 | 1938 | 2013 | 0.30 | -0.15 | 0.07 | 0.05 | -0.11 | 0.96 | 2 |
| PIE | 3758 | 349891 | 4733435 | 349918 | 4733446 | 1938 | 2013 | 0.35 | -0.19 | 0.07 | 0.05 | -0.12 | 0.99 | 2 |
| PIE | 3759 | 349897 | 4733386 | 349925 | 4733384 | 1938 | 2013 | 0.06 | -0.02 | 0.02 | 0.05 | -0.10 | 0.93 | 2 |
| PIE | 3760 | 349872 | 4733343 | 349899 | 4733332 | 1938 | 2013 | 0.00 | 0.06 | 0.03 | 0.05 | -0.06 | 0.32 | 2 |
| PIE | 3761 | 349848 | 4733300 | 349870 | 4733290 | 1938 | 2013 | 0.10 | -0.12 | -0.01 | 0.05 | -0.06 | 0.99 | 2 |
| PIE | 3762 | 349824 | 4733256 | 349851 | 4733253 | 1938 | 2013 | 0.01 | -0.19 | -0.09 | 0.05 | -0.08 | 1.00 | 2 |
| PIE | 3763 | 349827 | 4733208 | 349853 | 4733220 | 1938 | 2013 | 0.09 | -0.13 | -0.02 | 0.05 | -0.03 | 0.07 | 2 |
| PIE | 3764 | 349868 | 4733183 | 349871 | 4733209 | 1938 | 2013 | 0.19 | -0.10 | 0.04 | 0.05 | -0.08 | 0.99 | 2 |
| PIE | 3765 | 349914 | 4733200 | 349902 | 4733225 | 1938 | 2013 | NA | NA | 0.05 | 0.05 | 0.03 | 0.15 | 2 |
| PIE | 3766 | 349933 | 4733245 | 349915 | 4733268 | 1938 | 2013 | -0.02 | -0.13 | -0.08 | 0.05 | 0.05 | 0.31 | 2 |
| PIE | 3767 | 349955 | 4733289 | 349940 | 4733308 | 1938 | 2013 | 0.02 | -0.14 | -0.06 | 0.05 | 0.03 | 0.72 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 3768 | 349986 | 4733327 | 349976 | 4733346 | 1938 | 2013 | -0.02 | -0.11 | -0.07 | 0.05 | -0.01 | 0.05 | 2 |
| PIE | 3769 | 350033 | 4733338 | 350031 | 4733362 | 1938 | 2013 | -0.17 | 0.05 | -0.06 | 0.05 | -0.03 | 0.33 | 2 |
| PIE | 3770 | 350083 | 4733336 | 350090 | 4733359 | 1938 | 2013 | -0.23 | 0.06 | -0.09 | 0.05 | -0.05 | 0.93 | 2 |
| PIE | 3771 | 350125 | 4733309 | 350141 | 4733328 | 1938 | 2013 | -0.53 | 0.14 | -0.19 | 0.05 | -0.06 | 0.66 | 2 |
| PIE | 3772 | 350159 | 4733275 | 350180 | 4733283 | 1938 | 2013 | -0.56 | 0.15 | -0.20 | 0.05 | -0.03 | 0.87 | 2 |
| PIE | 3773 | 350170 | 4733228 | 350198 | 4733234 | 1938 | 2013 | -0.73 | 0.18 | -0.26 | 0.05 | 0.07 | 0.69 | 2 |
| PIE | 3774 | 350149 | 4733183 | 350191 | 4733189 | 1938 | 2013 | -0.85 | 0.11 | -0.36 | 0.05 | 0.03 | 0.06 | 2 |
| PIE | 3775 | 350136 | 4733138 | 350162 | 4733140 | 1938 | 2013 | -0.34 | -0.25 | -0.30 | 0.05 | 0.01 | 0.02 | 2 |
| PIE | 3776 | 350158 | 4733093 | 350181 | 4733095 | 1938 | 2013 | -0.14 | -0.08 | -0.11 | 0.05 | -0.03 | 0.71 | 2 |
| PIE | 3777 | 350168 | 4733045 | 350190 | 4733048 | 1938 | 2013 | 0.00 | -0.11 | -0.06 | 0.05 | -0.01 | 0.30 | 2 |
| PIE | 3778 | 350168 | 4732995 | 350189 | 4732992 | 1938 | 2013 | -0.17 | 0.07 | -0.05 | 0.05 | 0.00 | 0.01 | 2 |
| PIE | 3779 | 350150 | 4732949 | 350176 | 4732934 | 1938 | 2013 | -0.12 | 0.01 | -0.06 | 0.05 | -0.04 | 0.12 | 2 |
| PIE | 3780 | 350114 | 4732915 | 350136 | 4732884 | 1938 | 2013 | -0.09 | -0.12 | -0.10 | 0.05 | -0.04 | 0.03 | 2 |
| PIE | 3781 | 350072 | 4732890 | 350079 | 4732866 | 1938 | 2013 | -0.02 | -0.13 | -0.08 | 0.05 | -0.05 | 0.42 | 2 |
| PIE | 3782 | 350022 | 4732890 | 350023 | 4732862 | 1938 | 2013 | -0.22 | -0.63 | -0.43 | 0.05 | -0.06 | 0.37 | 2 |
| PIE | 3783 | 349972 | 4732895 | 349973 | 4732871 | 1938 | 2013 | -0.48 | -0.79 | -0.64 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3784 | 349922 | 4732901 | 349926 | 4732878 | 1938 | 2013 | 0.08 | -0.86 | -0.40 | 0.05 | -0.01 | 0.05 | 2 |
| PIE | 3785 | 349874 | 4732890 | 349884 | 4732870 | 1938 | 2013 | -0.15 | -0.11 | -0.13 | 0.05 | 0.01 | 0.56 | 2 |
| PIE | 3786 | 349832 | 4732864 | 349852 | 4732846 | 1938 | 2013 | -0.09 | 0.14 | 0.03 | 0.05 | 0.09 | 0.79 | 2 |
| PIE | 3787 | 350295 | 4733718 | 350291 | 4733755 | 1938 | 2013 | 0.29 | -0.21 | 0.01 | 0.06 | -0.04 | 0.04 | 2 |
| PIE | 3788 | 350248 | 4733729 | 350248 | 4733763 | 1938 | 2013 | 0.48 | -0.40 | -0.01 | 0.06 | -0.04 | 0.15 | 2 |
| PIE | 3789 | 350166 | 4733771 | 350163 | 4733794 | 1938 | 2013 | 0.42 | -0.38 | -0.03 | 0.06 | -0.03 | 0.60 | 2 |
| PIE | 3790 | 350117 | 4733765 | 350102 | 4733784 | 1938 | 2013 | 0.17 | -0.20 | -0.04 | 0.06 | -0.03 | 0.89 | 2 |
| PIE | 3791 | 350087 | 4733734 | 350065 | 4733742 | 1938 | 2013 | 0.02 | -0.06 | -0.03 | 0.06 | -0.03 | 0.53 | 2 |
| PIE | 3792 | 350087 | 4733687 | 350068 | 4733677 | 1938 | 2013 | -0.01 | -0.05 | -0.03 | 0.06 | 0.00 | 0.59 | 2 |
| PIE | 3793 | 350113 | 4733645 | 350082 | 4733653 | 1938 | 2013 | 0.03 | -0.07 | -0.03 | 0.06 | 0.05 | 0.42 | 2 |
| PIE | 3794 | 350106 | 4733601 | 350087 | 4733617 | 1938 | 2013 | -0.01 | 0.00 | -0.01 | 0.06 | 0.02 | 0.25 | 2 |
| PIE | 3795 | 350058 | 4733592 | 350061 | 4733614 | 1938 | 2013 | -0.07 | 0.13 | 0.04 | 0.06 | 0.01 | 0.05 | 2 |
| PIE | 3796 | 350016 | 4733616 | 350030 | 4733638 | 1938 | 2013 | 0.10 | -0.03 | 0.02 | 0.06 | -0.02 | 0.39 | 2 |
| PIE | 3797 | 349996 | 4733661 | 350015 | 4733672 | 1938 | 2013 | 0.06 | -0.03 | 0.01 | 0.06 | -0.03 | 0.79 | 2 |
| PIE | 3798 | 349975 | 4733706 | 349999 | 4733708 | 1938 | 2013 | 0.04 | -0.07 | -0.02 | 0.06 | -0.02 | 0.74 | 2 |
| PIE | 3799 | 349960 | 4733752 | 349985 | 4733745 | 1938 | 2013 | 0.00 | -0.06 | -0.03 | 0.06 | -0.08 | 0.96 | 2 |
| PIE | 3800 | 349978 | 4733724 | 349956 | 4733718 | 1938 | 2013 | 0.00 | -0.04 | -0.02 | 0.06 | 0.02 | 0.17 | 2 |
| PIE | 3801 | 350003 | 4733680 | 349978 | 4733670 | 1938 | 2013 | -0.11 | -0.06 | -0.08 | 0.06 | 0.06 | 0.46 | 2 |
| PIE | 3802 | 350022 | 4733634 | 350002 | 4733609 | 1938 | 2013 | -0.06 | 0.07 | 0.01 | 0.06 | 0.07 | 0.25 | 2 |
| PIE | 3803 | 350052 | 4733599 | 350047 | 4733572 | 1938 | 2013 | -0.07 | 0.15 | 0.05 | 0.06 | 0.02 | 0.03 | 2 |
| PIE | 3804 | 350100 | 4733610 | 350120 | 4733595 | 1938 | 2013 | -0.17 | 0.24 | 0.06 | 0.06 | -0.03 | 0.42 | 2 |
| PIE | 3805 | 350096 | 4733652 | 350133 | 4733638 | 1938 | 2013 | -0.19 | 0.17 | 0.01 | 0.06 | -0.12 | 0.93 | 2 |
| PIE | 3806 | 350071 | 4733694 | 350104 | 4733683 | 1938 | 2013 | -0.10 | 0.02 | -0.03 | 0.06 | -0.03 | 0.27 | 2 |
| PIE | 3807 | 350077 | 4733743 | 350100 | 4733733 | 1938 | 2013 | -0.05 | -0.17 | -0.12 | 0.06 | -0.05 | 0.68 | 2 |
| PIE | 3808 | 350113 | 4733773 | 350130 | 4733748 | 1938 | 2013 | -0.15 | 0.05 | -0.04 | 0.06 | -0.02 | 0.04 | 2 |
| PIE | 3809 | 350163 | 4733778 | 350165 | 4733755 | 1938 | 2013 | -0.12 | 0.00 | -0.05 | 0.06 | -0.02 | 0.16 | 2 |
| PIE | 3810 | 350211 | 4733767 | 350207 | 4733732 | 1938 | 2013 | -0.22 | 0.12 | -0.03 | 0.06 | 0.07 | 0.75 | 2 |
| PIE | 3811 | 350246 | 4733733 | 350245 | 4733703 | 1938 | 2013 | -0.09 | 0.04 | -0.02 | 0.06 | 0.02 | 0.24 | 2 |
| PIE | 3812 | 349778 | 4732260 | 349783 | 4732286 | 1938 | 2013 | -0.15 | 0.10 | -0.02 | 0.05 | -0.02 | 0.07 | 2 |
| PIE | 3813 | 349735 | 4732285 | 349736 | 4732313 | 1938 | 2013 | -0.11 | 0.08 | -0.01 | 0.05 | -0.02 | 0.46 | 2 |
| PIE | 3814 | 349692 | 4732311 | 349695 | 4732335 | 1938 | 2013 | -0.10 | 0.04 | -0.03 | 0.05 | -0.05 | 1.00 | 2 |
| PIE | 3815 | 349645 | 4732325 | 349644 | 4732351 | 1938 | 2013 | 0.07 | -0.09 | -0.01 | 0.05 | -0.07 | 0.93 | 2 |
| PIE | 3816 | 349596 | 4732317 | 349589 | 4732342 | 1938 | 2013 | 0.41 | -0.42 | -0.02 | 0.05 | -0.08 | 0.76 | 2 |
| PIE | 3817 | 349552 | 4732295 | 349544 | 4732319 | 1938 | 2013 | 0.18 | -0.32 | -0.08 | 0.05 | -0.05 | 0.99 | 2 |
| PIE | 3818 | 349513 | 4732264 | 349507 | 4732288 | 1938 | 2013 | 0.04 | -0.27 | -0.11 | 0.05 | -0.04 | 0.92 | 2 |
| PIE | 3819 | 349467 | 4732249 | 349464 | 4732270 | 1938 | 2013 | 0.08 | -0.27 | -0.10 | 0.05 | -0.01 | 0.60 | 2 |
| PIE | 3820 | 349418 | 4732258 | 349416 | 4732282 | 1938 | 2013 | -0.17 | 0.00 | -0.08 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3821 | 349370 | 4732274 | 349373 | 4732296 | 1938 | 2013 | -0.15 | 0.05 | -0.05 | 0.05 | -0.02 | 0.67 | 2 |
| PIE | 3822 | 349321 | 4732276 | 349312 | 4732299 | 1938 | 2013 | -0.15 | -0.01 | -0.08 | 0.05 | -0.06 | 0.96 | 2 |
| PIE | 3823 | 349335 | 4732287 | 349335 | 4732265 | 1938 | 2013 | -0.12 | 0.03 | -0.04 | 0.05 | -0.03 | 0.99 | 2 |
| PIE | 3824 | 349384 | 4732280 | 349381 | 4732256 | 1938 | 2013 | NA | -0.12 | NA | 0.05 | -0.04 | 0.72 | 2 |
| PIE | 3825 | 349429 | 4732260 | 349427 | 4732233 | 1938 | 2013 | 0.13 | -0.16 | -0.02 | 0.05 | -0.01 | 0.01 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 3826 | 349477 | 4732249 | 349479 | 4732227 | 1938 | 2013 | 0.02 | -0.06 | -0.02 | 0.05 | -0.02 | 0.35 | 2 |
| PIE | 3827 | 349523 | 4732267 | 349528 | 4732242 | 1938 | 2013 | -0.05 | -0.04 | -0.05 | 0.05 | -0.01 | 0.04 | 2 |
| PIE | 3828 | 349563 | 4732298 | 349570 | 4732269 | 1938 | 2013 | -0.11 | -0.04 | -0.07 | 0.05 | -0.04 | 0.27 | 2 |
| PIE | 3829 | 349607 | 4732320 | 349610 | 4732294 | 1938 | 2013 | -0.15 | 0.00 | -0.08 | 0.05 | 0.02 | 0.07 | 2 |
| PIE | 3830 | 349656 | 4732313 | 349652 | 4732288 | 1938 | 2013 | -0.06 | -0.04 | -0.05 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3831 | 349696 | 4732284 | 349689 | 4732261 | 1938 | 2013 | -0.02 | -0.06 | -0.04 | 0.05 | -0.02 | 0.88 | 2 |
| PIE | 3832 | 349738 | 4732260 | 349731 | 4732233 | 1938 | 2013 | -0.02 | 0.00 | -0.01 | 0.05 | -0.07 | 1.00 | 2 |
| PIE | 3833 | 349783 | 4732242 | 349782 | 4732215 | 1938 | 2013 | 0.07 | -0.07 | 0.00 | 0.05 | -0.03 | 0.10 | 2 |
| PIE | 3834 | 349831 | 4732250 | 349840 | 4732218 | 1938 | 2013 | 0.00 | -0.04 | -0.02 | 0.05 | -0.03 | 0.02 | 2 |
| PIE | 3835 | 349869 | 4732280 | 349889 | 4732261 | 1938 | 2013 | -0.08 | -0.04 | -0.06 | 0.05 | -0.08 | 0.56 | 2 |
| PIE | 3836 | 347848 | 4731505 | 347830 | 4731486 | 1938 | 2013 | 1.67 | -0.33 | 0.55 | 0.06 | 0.08 | 0.90 | 2 |
| PIE | 3837 | 347876 | 4731463 | 347854 | 4731449 | 1938 | 2013 | 1.88 | -0.37 | 0.62 | 0.06 | 0.06 | 0.47 | 2 |
| PIE | 3838 | 347898 | 4731419 | 347870 | 4731412 | 1938 | 2013 | 1.66 | -0.29 | 0.57 | 0.06 | 0.07 | 0.36 | 2 |
| PIE | 3839 | 347903 | 4731369 | 347876 | 4731373 | 1938 | 2013 | 1.37 | -0.45 | 0.35 | 0.06 | 0.01 | 0.01 | 2 |
| PIE | 3840 | 347888 | 4731322 | 347868 | 4731332 | 1938 | 2013 | -0.43 | -0.60 | -0.52 | 0.06 | 0.04 | 0.77 | 2 |
| PIE | 3841 | 347856 | 4731285 | 347845 | 4731305 | 1938 | 2013 | 0.56 | -0.81 | -0.21 | 0.06 | -0.04 | 0.98 | 2 |
| PIE | 3842 | 349505 | 4731552 | 349484 | 4731559 | 1938 | 2013 | -0.15 | -0.02 | -0.09 | 0.05 | -0.02 | 0.66 | 2 |
| PIE | 3843 | 349504 | 4731503 | 349482 | 4731516 | 1938 | 2013 | -0.14 | 0.05 | -0.04 | 0.05 | -0.06 | 0.86 | 2 |
| PIE | 3844 | 349485 | 4731457 | 349466 | 4731474 | 1938 | 2013 | -0.19 | 0.09 | -0.05 | 0.05 | -0.05 | 0.99 | 2 |
| PIE | 3845 | 349453 | 4731420 | 349440 | 4731442 | 1938 | 2013 | -0.19 | 0.11 | -0.04 | 0.05 | -0.02 | 0.09 | 2 |
| PIE | 3846 | 349455 | 4731434 | 349469 | 4731414 | 1938 | 2013 | 0.14 | -0.36 | -0.11 | 0.05 | -0.04 | 0.86 | 2 |
| PIE | 3847 | 349482 | 4731474 | 349498 | 4731458 | 1938 | 2013 | -0.11 | -0.08 | -0.10 | 0.05 | -0.02 | 0.91 | 2 |
| PIE | 3848 | 349498 | 4731520 | 349519 | 4731507 | 1938 | 2013 | -0.31 | 0.25 | -0.02 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3849 | 349505 | 4731568 | 349530 | 4731558 | 1938 | 2013 | -0.17 | -0.01 | -0.09 | 0.05 | -0.02 | 0.43 | 2 |
| PIE | 3850 | 350051 | 4731776 | 350016 | 4731772 | 1938 | 2013 | 0.06 | -0.07 | -0.01 | 0.05 | -0.15 | 0.50 | 2 |
| PIE | 3851 | 350049 | 4731726 | 350026 | 4731732 | 1938 | 2013 | 0.07 | -0.06 | 0.00 | 0.05 | -0.03 | 0.45 | 2 |
| PIE | 3852 | 350039 | 4731677 | 350015 | 4731695 | 1938 | 2013 | 0.05 | 0.01 | 0.03 | 0.05 | 0.04 | 0.12 | 2 |
| PIE | 3853 | 350006 | 4731641 | 349992 | 4731662 | 1938 | 2013 | 0.04 | 0.00 | 0.02 | 0.05 | -0.06 | 0.82 | 2 |
| PIE | 3854 | 349957 | 4731639 | 349936 | 4731671 | 1938 | 2013 | -0.11 | -0.10 | -0.11 | 0.05 | -0.13 | 0.98 | 2 |
| PIE | 3855 | 349909 | 4731648 | 349892 | 4731669 | 1938 | 2013 | 0.03 | -0.02 | 0.00 | 0.05 | -0.07 | 0.75 | 2 |
| PIE | 3856 | 349882 | 4731611 | 349857 | 4731630 | 1938 | 2013 | 0.01 | 0.00 | 0.01 | 0.05 | -0.11 | 0.85 | 2 |
| PIE | 3857 | 349885 | 4731561 | 349855 | 4731573 | 1938 | 2013 | -0.05 | 0.00 | -0.02 | 0.05 | -0.09 | 0.60 | 2 |
| PIE | 3858 | 349871 | 4731515 | 349844 | 4731521 | 1938 | 2013 | 0.16 | -0.25 | -0.05 | 0.05 | -0.09 | 1.00 | 2 |
| PIE | 3859 | 349852 | 4731469 | 349822 | 4731470 | 1938 | 2013 | 0.07 | -0.13 | -0.03 | 0.05 | -0.10 | 0.93 | 2 |
| PIE | 3860 | 349829 | 4731425 | 349790 | 4731418 | 1938 | 2013 | -0.05 | -0.07 | -0.06 | 0.05 | -0.14 | 0.89 | 2 |
| PIE | 3861 | 349833 | 4731386 | 349825 | 4731361 | 1938 | 2013 | 0.13 | -0.07 | 0.03 | 0.05 | -0.07 | 0.97 | 2 |
| PIE | 3862 | 349848 | 4731371 | 349859 | 4731391 | 1938 | 2013 | -0.04 | -0.21 | -0.13 | 0.05 | 0.02 | 0.33 | 2 |
| PIE | 3863 | 349811 | 4731402 | 349836 | 4731411 | 1938 | 2013 | 0.11 | -0.39 | -0.14 | 0.05 | 0.07 | 0.90 | 2 |
| PIE | 3864 | 349832 | 4731445 | 349864 | 4731449 | 1938 | 2013 | 0.03 | -0.08 | -0.03 | 0.05 | 0.01 | 0.00 | 2 |
| PIE | 3865 | 349855 | 4731488 | 349881 | 4731487 | 1938 | 2013 | 0.23 | -0.14 | 0.04 | 0.05 | 0.03 | 0.16 | 2 |
| PIE | 3866 | 349879 | 4731530 | 349904 | 4731525 | 1938 | 2013 | -0.01 | -0.12 | -0.06 | 0.05 | 0.07 | 0.73 | 2 |
| PIE | 3867 | 349887 | 4731576 | 349913 | 4731566 | 1938 | 2013 | -0.17 | -0.10 | -0.13 | 0.05 | -0.02 | 0.10 | 2 |
| PIE | 3868 | 349889 | 4731625 | 349908 | 4731606 | 1938 | 2013 | 0.00 | -0.14 | -0.07 | 0.05 | 0.03 | 0.98 | 2 |
| PIE | 3869 | 349931 | 4731641 | 349921 | 4731619 | 1938 | 2013 | -0.03 | -0.19 | -0.11 | 0.05 | -0.05 | 0.65 | 2 |
| PIE | 3870 | 349976 | 4731627 | 349990 | 4731602 | 1938 | 2013 | 0.04 | -0.21 | -0.09 | 0.05 | -0.05 | 0.63 | 2 |
| PIE | 3871 | 350021 | 4731640 | 350035 | 4731618 | 1938 | 2013 | -0.10 | -0.09 | -0.09 | 0.05 | -0.03 | 0.16 | 2 |
| PIE | 3872 | 350048 | 4731682 | 350066 | 4731668 | 1938 | 2013 | -0.15 | -0.06 | -0.10 | 0.05 | -0.02 | 0.56 | 2 |
| PIE | 3873 | 350060 | 4731730 | 350087 | 4731714 | 1938 | 2013 | -0.23 | -0.06 | -0.14 | 0.05 | 0.13 | 0.97 | 2 |
| PIE | 3874 | 350067 | 4731779 | 350088 | 4731773 | 1938 | 2013 | -0.05 | -0.10 | -0.07 | 0.05 | -0.03 | 0.98 | 2 |
| PIE | 3875 | 350324 | 4731640 | 350335 | 4731666 | 1938 | 2013 | -0.03 | 0.07 | 0.02 | 0.05 | -0.08 | 1.00 | 2 |
| PIE | 3876 | 350281 | 4731642 | 350263 | 4731664 | 1938 | 2013 | 0.12 | 0.03 | 0.07 | 0.05 | -0.11 | 1.00 | 2 |
| PIE | 3877 | 350248 | 4731606 | 350226 | 4731617 | 1938 | 2013 | 0.17 | -0.15 | 0.01 | 0.05 | -0.06 | 0.97 | 2 |
| PIE | 3878 | 350254 | 4731557 | 350218 | 4731557 | 1938 | 2013 | 0.15 | -0.08 | 0.03 | 0.05 | -0.20 | 1.00 | 2 |
| PIE | 3879 | 350257 | 4731508 | 350224 | 4731501 | 1938 | 2013 | 0.15 | 0.00 | 0.07 | 0.05 | -0.17 | 0.99 | 2 |
| PIE | 3880 | 350256 | 4731458 | 350223 | 4731450 | 1938 | 2013 | -0.14 | 0.09 | -0.02 | 0.05 | -0.16 | 0.83 | 2 |
| PIE | 3881 | 350270 | 4731410 | 350242 | 4731408 | 1938 | 2013 | 0.02 | 0.04 | 0.03 | 0.05 | -0.09 | 0.82 | 2 |
| PIE | 3882 | 350295 | 4731380 | 350254 | 4731379 | 1938 | 2013 | 0.02 | -0.11 | -0.05 | 0.05 | -0.24 | 1.00 | 2 |
| PIE | 3883 | 350295 | 4731376 | 350315 | 4731386 | 1938 | 2013 | 0.02 | -0.12 | -0.05 | 0.05 | -0.03 | 0.88 | 2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 3884 | 350265 | 4731416 | 350287 | 4731424 | 1938 | 2013 | 0.08 | -0.12 | -0.02 | 0.05 | -0.02 | 0.27 | 2 |
| PIE | 3885 | 350250 | 4731463 | 350272 | 4731470 | 1938 | 2013 | 0.01 | -0.05 | -0.02 | 0.05 | -0.01 | 0.30 | 2 |
| PIE | 3886 | 350253 | 4731513 | 350275 | 4731516 | 1938 | 2013 | 0.17 | 0.09 | 0.13 | 0.05 | 0.00 | 0.00 | 2 |
| PIE | 3887 | 350247 | 4731563 | 350271 | 4731560 | 1938 | 2013 | -0.03 | -0.02 | -0.03 | 0.05 | -0.03 | 0.93 | 2 |
| PIE | 3888 | 350244 | 4731612 | 350265 | 4731600 | 1938 | 2013 | -0.08 | -0.09 | -0.08 | 0.05 | -0.04 | 0.78 | 2 |
| PIE | 3889 | 350275 | 4731650 | 350288 | 4731628 | 1938 | 2013 | -0.12 | -0.10 | -0.11 | 0.05 | 0.02 | 0.05 | 2 |
| PIE | 3890 | 350323 | 4731652 | 350332 | 4731608 | 1938 | 2013 | -0.04 | -0.07 | -0.06 | 0.05 | -0.08 | 0.15 | 2 |
| PIE | 3891 | 350366 | 4731628 | 350365 | 4731595 | 1938 | 2013 | -0.20 | -0.20 | -0.20 | 0.05 | 0.05 | 0.11 | 2 |
| PIE | 3892 | 350412 | 4731632 | 350407 | 4731596 | 1938 | 2013 | -0.20 | -0.13 | -0.17 | 0.05 | -0.18 | 0.96 | 2 |
| PIE | 3893 | 350802 | 4734897 | 350826 | 4734917 | 1938 | 2013 | -0.33 | 0.29 | 0.02 | 0.06 | 0.03 | 0.02 | 3 |
| PIE | 3894 | 350759 | 4734922 | 350788 | 4734960 | 1938 | 2013 | -0.87 | 0.31 | -0.20 | 0.06 | -0.18 | 0.23 | 3 |
| PIE | 3895 | 350713 | 4734941 | 350732 | 4735002 | 1938 | 2013 | -1.31 | 0.37 | -0.37 | 0.06 | -0.33 | 0.33 | 3 |
| PIE | 3896 | 350666 | 4734938 | 350665 | 4735009 | 1938 | 2013 | -1.51 | 0.42 | -0.43 | 0.06 | -0.39 | 0.34 | 3 |
| PIE | 3897 | 350617 | 4734933 | 350597 | 4734987 | 1938 | 2013 | -1.06 | 0.33 | -0.28 | 0.06 | -0.25 | 0.29 | 3 |
| PIE | 3898 | 350568 | 4734931 | 350544 | 4734961 | 1938 | 2013 | -0.54 | 0.35 | -0.04 | 0.06 | -0.02 | 0.01 | 3 |
| PIE | 3899 | 350534 | 4734897 | 350517 | 4734918 | 1938 | 2013 | -0.16 | 0.06 | -0.04 | 0.06 | -0.03 | 0.24 | 3 |
| PIE | 3900 | 350513 | 4734852 | 350498 | 4734875 | 1938 | 2013 | -0.12 | 0.07 | -0.01 | 0.06 | -0.01 | 0.03 | 3 |
| PIE | 3901 | 350481 | 4734815 | 350470 | 4734840 | 1938 | 2013 | -0.20 | 0.14 | -0.01 | 0.06 | 0.00 | 0.00 | 3 |
| PIE | 3902 | 350434 | 4734806 | 350426 | 4734835 | 1938 | 2013 | -0.27 | 0.11 | -0.06 | 0.06 | -0.05 | 0.18 | 3 |
| PIE | 3903 | 350384 | 4734807 | 350377 | 4734843 | 1938 | 2013 | -0.50 | 0.23 | -0.09 | 0.06 | -0.08 | 0.12 | 3 |
| PIE | 3904 | 350334 | 4734801 | 350321 | 4734842 | 1938 | 2013 | -0.68 | 0.40 | -0.07 | 0.06 | -0.05 | 0.03 | 3 |
| PIE | 3905 | 350288 | 4734785 | 350281 | 4734826 | 1938 | 2013 | -0.62 | 0.38 | -0.06 | 0.06 | -0.04 | 0.02 | 3 |
| PIE | 3906 | 350245 | 4734761 | 350245 | 4734798 | 1938 | 2013 | -0.33 | 0.22 | -0.02 | 0.06 | -0.01 | 0.00 | 3 |
| PIE | 3907 | 350199 | 4734757 | 350214 | 4734789 | 1938 | 2013 | -0.25 | -0.10 | -0.17 | 0.06 | -0.16 | 0.93 | 3 |
| PIE | 3908 | 350178 | 4734801 | 350207 | 4734819 | 1938 | 2013 | -0.11 | -0.20 | -0.16 | 0.06 | -0.16 | 0.97 | 3 |
| PIE | 3909 | 350168 | 4734850 | 350201 | 4734857 | 1938 | 2013 | 0.14 | -0.33 | -0.13 | 0.06 | -0.13 | 0.50 | 3 |
| PIE | 3910 | 350170 | 4734900 | 350202 | 4734901 | 1938 | 2013 | 0.19 | -0.29 | -0.08 | 0.06 | -0.09 | 0.29 | 3 |
| PIE | 3911 | 350179 | 4734949 | 350205 | 4734950 | 1938 | 2013 | -0.02 | -0.11 | -0.07 | 0.06 | -0.07 | 0.87 | 3 |
| PIE | 3912 | 350183 | 4734998 | 350208 | 4735001 | 1938 | 2013 | 0.03 | -0.11 | -0.05 | 0.06 | -0.05 | 0.65 | 3 |
| PIE | 3913 | 350173 | 4735047 | 350194 | 4735052 | 1938 | 2013 | 0.00 | -0.02 | -0.01 | 0.06 | -0.01 | 0.81 | 3 |
| PIE | 3914 | 350152 | 4735090 | 350180 | 4735102 | 1938 | 2013 | -0.30 | -0.02 | -0.14 | 0.06 | -0.13 | 0.74 | 3 |
| PIE | 3915 | 350132 | 4735135 | 350152 | 4735152 | 1938 | 2013 | -0.14 | -0.03 | -0.08 | 0.06 | -0.08 | 0.85 | 3 |
| PIE | 3916 | 350098 | 4735172 | 350113 | 4735192 | 1938 | 2013 | -0.16 | 0.03 | -0.05 | 0.06 | -0.05 | 0.43 | 3 |
| PIE | 3917 | 350056 | 4735198 | 350064 | 4735223 | 1938 | 2013 | -0.20 | 0.00 | -0.09 | 0.06 | -0.08 | 0.67 | 3 |
| PIE | 3918 | 350007 | 4735206 | 350004 | 4735236 | 1938 | 2013 | -0.29 | 0.15 | -0.04 | 0.06 | -0.04 | 0.08 | 3 |
| PIE | 3919 | 349961 | 4735188 | 349947 | 4735213 | 1938 | 2013 | -0.28 | 0.09 | -0.07 | 0.06 | -0.06 | 0.27 | 3 |
| PIE | 3920 | 349934 | 4735151 | 349910 | 4735172 | 1938 | 2013 | -0.26 | 0.09 | -0.06 | 0.06 | -0.06 | 0.24 | 3 |
| PIE | 3921 | 349915 | 4735105 | 349894 | 4735117 | 1938 | 2013 | -0.11 | 0.01 | -0.04 | 0.06 | -0.04 | 0.59 | 3 |
| PIE | 3922 | 349897 | 4735059 | 349878 | 4735070 | 1938 | 2013 | -0.06 | 0.00 | -0.03 | 0.06 | -0.03 | 0.73 | 3 |
| PIE | 3923 | 349876 | 4735014 | 349860 | 4735029 | 1938 | 2013 | 0.01 | -0.04 | -0.02 | 0.06 | -0.02 | 0.71 | 3 |
| PIE | 3924 | 349842 | 4734978 | 349824 | 4735000 | 1938 | 2013 | -0.06 | -0.15 | -0.11 | 0.06 | -0.11 | 0.95 | 3 |
| PIE | 3925 | 349796 | 4734958 | 349783 | 4734983 | 1938 | 2013 | 0.00 | -0.19 | -0.10 | 0.06 | -0.11 | 0.79 | 3 |
| PIE | 3926 | 349749 | 4734941 | 349740 | 4734965 | 1938 | 2013 | 0.03 | -0.13 | -0.06 | 0.06 | -0.06 | 0.63 | 3 |
| PIE | 3927 | 349702 | 4734926 | 349688 | 4734948 | 1938 | 2013 | -0.01 | -0.13 | -0.08 | 0.06 | -0.08 | 0.86 | 3 |
| PIE | 3928 | 349659 | 4734900 | 349646 | 4734920 | 1938 | 2013 | -0.12 | 0.01 | -0.05 | 0.06 | -0.05 | 0.60 | 3 |
| PIE | 3929 | 349617 | 4734875 | 349608 | 4734898 | 1938 | 2013 | -0.08 | -0.03 | -0.05 | 0.06 | -0.05 | 0.93 | 3 |
| PIE | 3930 | 349587 | 4734836 | 349584 | 4734866 | 1938 | 2013 | -0.09 | -0.03 | -0.06 | 0.06 | -0.05 | 0.91 | 3 |
| PIE | 3931 | 349544 | 4734836 | 349556 | 4734871 | 1938 | 2013 | -0.19 | -0.20 | -0.20 | 0.06 | -0.20 | 1.00 | 3 |
| PIE | 3932 | 349517 | 4734876 | 349536 | 4734903 | 1938 | 2013 | -0.14 | -0.11 | -0.12 | 0.06 | -0.12 | 1.00 | 3 |
| PIE | 3933 | 349490 | 4734917 | 349510 | 4734940 | 1938 | 2013 | -0.10 | -0.10 | -0.10 | 0.06 | -0.10 | 1.00 | 3 |
| PIE | 3934 | 349454 | 4734949 | 349466 | 4734972 | 1938 | 2013 | -0.06 | -0.08 | -0.07 | 0.06 | -0.07 | 1.00 | 3 |
| PIE | 3935 | 349409 | 4734960 | 349413 | 4734989 | 1938 | 2013 | 0.05 | -0.22 | -0.10 | 0.06 | -0.11 | 0.67 | 3 |
| PIE | 3936 | 349360 | 4734950 | 349349 | 4734981 | 1938 | 2013 | 0.28 | -0.29 | -0.04 | 0.06 | -0.05 | 0.10 | 3 |
| PIE | 3937 | 349307 | 4734877 | 349281 | 4734891 | 1938 | 2013 | -0.17 | -0.07 | -0.12 | 0.06 | -0.11 | 0.93 | 3 |
| PIE | 3938 | 349285 | 4734832 | 349261 | 4734844 | 1938 | 2013 | -0.04 | -0.12 | -0.09 | 0.06 | -0.09 | 0.93 | 3 |
| PIE | 3939 | 349269 | 4734784 | 349248 | 4734802 | 1938 | 2013 | 0.03 | -0.17 | -0.08 | 0.06 | -0.09 | 0.70 | 3 |
| PIE | 3940 | 349234 | 4734751 | 349219 | 4734774 | 1938 | 2013 | -0.02 | -0.17 | -0.10 | 0.06 | -0.11 | 0.85 | 3 |
| PIE | 3941 | 349184 | 4734747 | 349177 | 4734772 | 1938 | 2013 | 0.03 | -0.13 | -0.06 | 0.06 | -0.06 | 0.64 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 3942 | 349135 | 4734756 | 349131 | 4734781 | 1938 | 2013 | -0.04 | -0.09 | -0.07 | 0.06 | -0.07 | 0.96 | 3 |
| PIE | 3943 | 349085 | 4734759 | 349081 | 4734783 | 1938 | 2013 | 0.00 | -0.10 | -0.06 | 0.06 | -0.06 | 0.80 | 3 |
| PIE | 3944 | 348998 | 4734716 | 348992 | 4734741 | 1938 | 2013 | -0.09 | -0.01 | -0.05 | 0.06 | -0.05 | 0.81 | 3 |
| PIE | 3945 | 348960 | 4734683 | 348958 | 4734713 | 1938 | 2013 | -0.05 | -0.10 | -0.08 | 0.06 | -0.08 | 0.97 | 3 |
| PIE | 3946 | 348914 | 4734682 | 348922 | 4734708 | 1938 | 2013 | -0.22 | 0.12 | -0.03 | 0.06 | -0.02 | 0.04 | 3 |
| PIE | 3947 | 348877 | 4734713 | 348895 | 4734739 | 1938 | 2013 | -0.29 | -0.02 | -0.14 | 0.06 | -0.13 | 0.74 | 3 |
| PIE | 3948 | 348854 | 4734758 | 348874 | 4734775 | 1938 | 2013 | -0.16 | 0.00 | -0.07 | 0.06 | -0.07 | 0.69 | 3 |
| PIE | 3949 | 348844 | 4734744 | 348822 | 4734723 | 1938 | 2013 | 0.16 | 0.04 | 0.09 | 0.06 | 0.12 | 0.78 | 3 |
| PIE | 3950 | 348872 | 4734702 | 348859 | 4734683 | 1938 | 2013 | 0.15 | -0.02 | 0.05 | 0.06 | 0.04 | 0.66 | 3 |
| PIE | 3951 | 348911 | 4734671 | 348907 | 4734648 | 1938 | 2013 | 0.25 | 0.03 | 0.12 | 0.06 | 0.00 | 0.00 | 3 |
| PIE | 3952 | 348959 | 4734670 | 348962 | 4734643 | 1938 | 2013 | 0.10 | 0.00 | 0.04 | 0.06 | 0.05 | 0.29 | 3 |
| PIE | 3953 | 349001 | 4734697 | 349008 | 4734672 | 1938 | 2013 | 0.09 | -0.06 | 0.00 | 0.06 | 0.03 | 0.24 | 3 |
| PIE | 3954 | 349043 | 4734724 | 349051 | 4734699 | 1938 | 2013 | 0.21 | -0.07 | 0.06 | 0.06 | 0.05 | 0.31 | 3 |
| PIE | 3955 | 349091 | 4734740 | 349095 | 4734719 | 1938 | 2013 | 0.13 | -0.05 | 0.03 | 0.06 | -0.01 | 0.26 | 3 |
| PIE | 3956 | 349140 | 4734739 | 349144 | 4734712 | 1938 | 2013 | 0.18 | -0.05 | 0.05 | 0.06 | 0.06 | 0.79 | 3 |
| PIE | 3957 | 349189 | 4734727 | 349193 | 4734703 | 1938 | 2013 | -0.03 | 0.01 | -0.01 | 0.06 | 0.06 | 0.98 | 3 |
| PIE | 3958 | 349238 | 4734730 | 349247 | 4734709 | 1938 | 2013 | 0.12 | 0.01 | 0.06 | 0.06 | 0.04 | 0.62 | 3 |
| PIE | 3959 | 349277 | 4734760 | 349293 | 4734741 | 1938 | 2013 | 0.04 | 0.07 | 0.06 | 0.06 | -0.06 | 0.97 | 3 |
| PIE | 3960 | 349297 | 4734805 | 349322 | 4734787 | 1938 | 2013 | -0.02 | 0.08 | 0.03 | 0.06 | -0.12 | 0.99 | 3 |
| PIE | 3961 | 349312 | 4734853 | 349339 | 4734835 | 1938 | 2013 | -0.07 | -0.04 | -0.06 | 0.06 | -0.13 | 0.62 | 3 |
| PIE | 3962 | 349340 | 4734894 | 349362 | 4734872 | 1938 | 2013 | -0.15 | -0.11 | -0.13 | 0.06 | -0.08 | 0.29 | 3 |
| PIE | 3963 | 349382 | 4734921 | 349391 | 4734898 | 1938 | 2013 | 0.08 | -0.27 | -0.12 | 0.06 | -0.05 | 0.51 | 3 |
| PIE | 3964 | 349430 | 4734931 | 349424 | 4734904 | 1938 | 2013 | 0.17 | -0.26 | -0.07 | 0.06 | 0.09 | 1.00 | 3 |
| PIE | 3965 | 349464 | 4734898 | 349447 | 4734877 | 1938 | 2013 | 0.05 | -0.11 | -0.04 | 0.06 | 0.03 | 0.89 | 3 |
| PIE | 3966 | 349482 | 4734851 | 349460 | 4734833 | 1938 | 2013 | 0.08 | 0.10 | 0.09 | 0.06 | 0.07 | 0.44 | 3 |
| PIE | 3967 | 349506 | 4734809 | 349487 | 4734788 | 1938 | 2013 | 0.01 | 0.05 | 0.03 | 0.06 | -0.01 | 0.00 | 3 |
| PIE | 3968 | 349550 | 4734785 | 349534 | 4734746 | 1938 | 2013 | 0.22 | -0.04 | 0.07 | 0.06 | -0.01 | 0.00 | 3 |
| PIE | 3969 | 349583 | 4734750 | 349588 | 4734710 | 1938 | 2013 | -0.28 | 0.19 | -0.01 | 0.06 | -0.01 | 0.00 | 3 |
| PIE | 3970 | 349620 | 4734773 | 349638 | 4734743 | 1938 | 2013 | -0.65 | 0.45 | -0.03 | 0.06 | -0.08 | 0.16 | 3 |
| PIE | 3971 | 349648 | 4734814 | 349671 | 4734787 | 1938 | 2013 | -0.35 | 0.24 | -0.02 | 0.06 | -0.04 | 0.03 | 3 |
| PIE | 3972 | 349663 | 4734861 | 349687 | 4734852 | 1938 | 2013 | -0.46 | 0.19 | -0.09 | 0.06 | -0.06 | 0.59 | 3 |
| PIE | 3973 | 349699 | 4734894 | 349710 | 4734871 | 1938 | 2013 | -0.44 | 0.26 | -0.05 | 0.06 | -0.04 | 0.40 | 3 |
| PIE | 3974 | 349747 | 4734892 | 349758 | 4734858 | 1938 | 2013 | -0.17 | 0.01 | -0.07 | 0.06 | 0.02 | 0.04 | 3 |
| PIE | 3975 | 349793 | 4734891 | 349799 | 4734867 | 1938 | 2013 | -0.16 | 0.04 | -0.05 | 0.06 | -0.02 | 0.12 | 3 |
| PIE | 3976 | 349840 | 4734905 | 349848 | 4734886 | 1938 | 2013 | -0.20 | 0.19 | 0.02 | 0.06 | -0.01 | 0.95 | 3 |
| PIE | 3977 | 349878 | 4734937 | 349892 | 4734919 | 1938 | 2013 | -0.14 | 0.06 | -0.02 | 0.06 | 0.02 | 0.45 | 3 |
| PIE | 3978 | 349914 | 4734970 | 349930 | 4734955 | 1938 | 2013 | -0.01 | -0.02 | -0.01 | 0.06 | -0.02 | 0.93 | 3 |
| PIE | 3979 | 349939 | 4735013 | 349960 | 4734997 | 1938 | 2013 | -0.03 | 0.06 | 0.02 | 0.06 | -0.09 | 0.91 | 3 |
| PIE | 3980 | 349964 | 4735056 | 349985 | 4735040 | 1938 | 2013 | -0.04 | -0.01 | -0.02 | 0.06 | -0.05 | 0.38 | 3 |
| PIE | 3981 | 349990 | 4735099 | 350008 | 4735078 | 1938 | 2013 | -0.03 | -0.13 | -0.09 | 0.06 | -0.09 | 0.98 | 3 |
| PIE | 3982 | 350030 | 4735128 | 350038 | 4735101 | 1938 | 2013 | 0.08 | -0.14 | -0.05 | 0.06 | -0.10 | 0.93 | 3 |
| PIE | 3983 | 350078 | 4735138 | 350071 | 4735116 | 1938 | 2013 | -0.11 | -0.07 | -0.09 | 0.06 | -0.03 | 0.40 | 3 |
| PIE | 3984 | 350118 | 4735115 | 350086 | 4735091 | 1938 | 2013 | -0.04 | -0.14 | -0.10 | 0.06 | -0.07 | 0.28 | 3 |
| PIE | 3985 | 350121 | 4735066 | 350093 | 4735059 | 1938 | 2013 | -0.10 | 0.02 | -0.03 | 0.06 | -0.05 | 0.20 | 3 |
| PIE | 3986 | 350110 | 4735018 | 350087 | 4735019 | 1938 | 2013 | -0.31 | 0.10 | -0.08 | 0.06 | -0.02 | 0.29 | 3 |
| PIE | 3987 | 350095 | 4734970 | 350074 | 4734974 | 1938 | 2013 | -0.23 | 0.09 | -0.05 | 0.06 | 0.01 | 0.20 | 3 |
| PIE | 3988 | 350077 | 4734924 | 350051 | 4734927 | 1938 | 2013 | 0.04 | -0.06 | -0.02 | 0.06 | -0.01 | 0.03 | 3 |
| PIE | 3989 | 350061 | 4734877 | 350034 | 4734878 | 1938 | 2013 | 0.03 | -0.01 | 0.01 | 0.06 | -0.03 | 0.14 | 3 |
| PIE | 3990 | 350053 | 4734828 | 350025 | 4734822 | 1938 | 2013 | 0.14 | -0.12 | -0.01 | 0.06 | -0.09 | 0.61 | 3 |
| PIE | 3991 | 350045 | 4734781 | 350024 | 4734769 | 1938 | 2013 | 0.12 | -0.14 | -0.02 | 0.06 | -0.01 | 0.05 | 3 |
| PIE | 3992 | 350110 | 4734725 | 350095 | 4734706 | 1938 | 2013 | 0.06 | -0.19 | -0.08 | 0.06 | 0.01 | 0.03 | 3 |
| PIE | 3993 | 350152 | 4734700 | 350140 | 4734670 | 1938 | 2013 | -0.06 | 0.03 | -0.01 | 0.06 | -0.01 | 0.00 | 3 |
| PIE | 3994 | 350198 | 4734682 | 350189 | 4734654 | 1938 | 2013 | -0.12 | 0.11 | 0.01 | 0.10 | 0.23 | 0.00 | 3 |
| PIE | 3995 | 350288 | 4734698 | 350290 | 4734669 | 1938 | 2013 | -0.37 | 0.25 | -0.02 | 0.06 | -0.12 | 0.90 | 3 |
| PIE | 3996 | 350334 | 4734716 | 350338 | 4734690 | 1938 | 2013 | NA | 0.23 | NA | 0.06 | -0.08 | 0.99 | 3 |
| PIE | 3997 | 350382 | 4734728 | 350386 | 4734704 | 1938 | 2013 | -0.20 | -0.06 | -0.12 | 0.06 | -0.04 | 0.38 | 3 |
| PIE | 3998 | 350432 | 4734733 | 350436 | 4734706 | 1938 | 2013 | -0.07 | -0.09 | -0.08 | 0.06 | 0.00 | 0.00 | 3 |
| PIE | 3999 | 350481 | 4734731 | 350484 | 4734706 | 1938 | 2013 | 0.06 | -0.10 | -0.03 | 0.06 | -0.06 | 0.67 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4000 | 350531 | 4734732 | 350535 | 4734708 | 1938 | 2013 | 0.22 | -0.15 | 0.01 | 0.06 | -0.02 | 0.09 | 3 |
| PIE | 4001 | 350576 | 4734746 | 350583 | 4734720 | 1938 | 2013 | -0.15 | 0.00 | -0.06 | 0.06 | -0.02 | 0.04 | 3 |
| PIE | 4002 | 350621 | 4734766 | 350630 | 4734741 | 1938 | 2013 | -0.12 | 0.06 | -0.02 | 0.06 | -0.07 | 0.64 | 3 |
| PIE | 4003 | 350665 | 4734781 | 350675 | 4734750 | 1938 | 2013 | -0.18 | 0.10 | -0.02 | 0.06 | -0.18 | 0.85 | 3 |
| PIE | 4004 | 350711 | 4734800 | 350729 | 4734770 | 1938 | 2013 | -0.19 | 0.01 | -0.08 | 0.06 | -0.21 | 0.93 | 3 |
| PIE | 4005 | 350754 | 4734810 | 350756 | 4734779 | 1938 | 2013 | -0.02 | -0.29 | -0.17 | 0.06 | -0.15 | 0.77 | 3 |
| PIE | 4006 | 351460 | 4733087 | 351364 | 4733136 | 1938 | 2013 | -0.59 | -0.63 | -0.61 | 0.06 | -0.70 | 0.98 | 3 |
| PIE | 4007 | 351417 | 4733067 | 351364 | 4733151 | 1938 | 2013 | -0.41 | -0.59 | -0.51 | 0.06 | -0.41 | 0.83 | 3 |
| PIE | 4008 | 351394 | 4733024 | 351365 | 4733138 | 1938 | 2013 | -0.52 | -0.84 | -0.70 | 0.06 | -0.71 | 0.86 | 3 |
| PIE | 4009 | 351363 | 4733006 | 351384 | 4733106 | 1938 | 2013 | -0.03 | -0.69 | -0.40 | 0.06 | -0.88 | 1.00 | 3 |
| PIE | 4010 | 351346 | 4733053 | 351388 | 4733109 | 1938 | 2013 | -0.11 | -1.14 | -0.69 | 0.06 | -0.46 | 1.00 | 3 |
| PIE | 4011 | 351335 | 4733101 | 351376 | 4733120 | 1938 | 2013 | -0.80 | -0.94 | -0.88 | 0.06 | -0.24 | 0.92 | 3 |
| PIE | 4012 | 351331 | 4733151 | 351362 | 4733155 | 1938 | 2013 | -0.52 | -0.41 | -0.46 | 0.06 | -0.14 | 0.64 | 3 |
| PIE | 4013 | 351328 | 4733200 | 351383 | 4733208 | 1938 | 2013 | -0.39 | -0.13 | -0.25 | 0.06 | -0.07 | 0.94 | 3 |
| PIE | 4014 | 351312 | 4733246 | 351361 | 4733256 | 1938 | 2013 | -0.36 | 0.02 | -0.15 | 0.06 | 0.28 | 0.47 | 3 |
| PIE | 4015 | 351300 | 4733291 | 351336 | 4733302 | 1938 | 2013 | -0.03 | -0.09 | -0.06 | 0.06 | -0.22 | 0.97 | 3 |
| PIE | 4016 | 351278 | 4733336 | 351302 | 4733352 | 1938 | 2013 | 0.88 | -0.16 | 0.30 | 0.06 | -0.11 | 0.82 | 3 |
| PIE | 4017 | 351253 | 4733378 | 351277 | 4733399 | 1938 | 2013 | -0.30 | -0.17 | -0.22 | 0.13 | -0.34 | 0.00 | 3 |
| PIE | 4018 | 351218 | 4733413 | 351236 | 4733435 | 1938 | 2013 | -0.21 | -0.03 | -0.11 | 0.06 | -0.10 | 0.82 | 3 |
| PIE | 4019 | 351174 | 4733435 | 351186 | 4733461 | 1938 | 2013 | -0.34 | NA | NA | 0.13 | -0.28 | 0.00 | 3 |
| PIE | 4020 | 351132 | 4733449 | 351139 | 4733479 | 1938 | 2013 | -0.20 | -0.03 | -0.11 | 0.06 | -0.14 | 0.84 | 3 |
| PIE | 4021 | 351083 | 4733454 | 351082 | 4733479 | 1938 | 2013 | -0.28 | NA | NA | 0.06 | -0.05 | 0.44 | 3 |
| PIE | 4022 | 351035 | 4733445 | 351029 | 4733474 | 1938 | 2013 | -0.26 | -0.05 | -0.14 | 0.06 | -0.05 | 0.13 | 3 |
| PIE | 4023 | 350990 | 4733425 | 350980 | 4733450 | 1938 | 2013 | -0.15 | 0.03 | -0.05 | 0.06 | -0.07 | 0.57 | 3 |
| PIE | 4024 | 350946 | 4733402 | 350937 | 4733421 | 1938 | 2013 | -0.30 | 0.13 | -0.05 | 0.06 | -0.01 | 0.87 | 3 |
| PIE | 4025 | 350903 | 4733376 | 350894 | 4733398 | 1938 | 2013 | 0.05 | -0.15 | -0.06 | 0.06 | -0.04 | 0.98 | 3 |
| PIE | 4026 | 350858 | 4733356 | 350853 | 4733382 | 1938 | 2013 | 0.00 | -0.02 | -0.01 | 0.06 | -0.06 | 0.45 | 3 |
| PIE | 4027 | 350809 | 4733344 | 350813 | 4733372 | 1938 | 2013 | -0.03 | -0.04 | -0.04 | 0.06 | -0.11 | 0.94 | 3 |
| PIE | 4028 | 350762 | 4733355 | 350775 | 4733384 | 1938 | 2013 | -0.21 | 0.04 | -0.07 | 0.06 | -0.12 | 0.61 | 3 |
| PIE | 4029 | 350739 | 4733398 | 350757 | 4733424 | 1938 | 2013 | -0.16 | -0.07 | -0.11 | 0.06 | -0.05 | 0.96 | 3 |
| PIE | 4030 | 350719 | 4733443 | 350733 | 4733458 | 1938 | 2013 | -0.31 | 0.02 | -0.13 | 0.06 | -0.01 | 1.00 | 3 |
| PIE | 4031 | 350678 | 4733470 | 350698 | 4733485 | 1938 | 2013 | -0.07 | -0.03 | -0.05 | 0.06 | -0.06 | 0.98 | 3 |
| PIE | 4032 | 350640 | 4733502 | 350666 | 4733518 | 1938 | 2013 | -0.01 | -0.01 | -0.01 | 0.06 | -0.06 | 0.27 | 3 |
| PIE | 4033 | 350613 | 4733543 | 350643 | 4733554 | 1938 | 2013 | -0.08 | -0.05 | -0.06 | 0.06 | -0.03 | 0.02 | 3 |
| PIE | 4034 | 350619 | 4733592 | 350641 | 4733598 | 1938 | 2013 | 0.14 | -0.20 | -0.05 | 0.06 | 0.00 | 0.05 | 3 |
| PIE | 4035 | 350622 | 4733642 | 350649 | 4733647 | 1938 | 2013 | 0.32 | -0.28 | -0.01 | 0.06 | -0.05 | 0.33 | 3 |
| PIE | 4036 | 350606 | 4733687 | 350630 | 4733697 | 1938 | 2013 | 0.03 | -0.02 | 0.00 | 0.06 | -0.06 | 0.59 | 3 |
| PIE | 4037 | 350588 | 4733733 | 350607 | 4733748 | 1938 | 2013 | 0.09 | -0.15 | -0.04 | 0.06 | -0.04 | 0.41 | 3 |
| PIE | 4038 | 350548 | 4733763 | 350568 | 4733792 | 1938 | 2013 | -0.16 | 0.01 | -0.06 | 0.06 | -0.13 | 0.46 | 3 |
| PIE | 4039 | 350508 | 4733790 | 350516 | 4733816 | 1938 | 2013 | 0.06 | -0.11 | -0.04 | 0.06 | -0.10 | 0.98 | 3 |
| PIE | 4040 | 350463 | 4733808 | 350463 | 4733833 | 1938 | 2013 | 0.15 | -0.33 | -0.12 | 0.06 | -0.05 | 0.47 | 3 |
| PIE | 4041 | 350413 | 4733803 | 350408 | 4733830 | 1938 | 2013 | -0.12 | -0.08 | -0.10 | 0.06 | -0.04 | 0.20 | 3 |
| PIE | 4042 | 350370 | 4733780 | 350361 | 4733810 | 1938 | 2013 | 0.06 | -0.13 | -0.05 | 0.06 | 0.00 | 0.00 | 3 |
| PIE | 4043 | 350338 | 4733743 | 350328 | 4733784 | 1938 | 2013 | 0.13 | -0.17 | -0.04 | 0.06 | -0.03 | 0.01 | 3 |
| PIE | 4044 | 350332 | 4733740 | 350338 | 4733713 | 1938 | 2013 | -0.01 | 0.14 | 0.07 | 0.06 | 0.01 | 0.08 | 3 |
| PIE | 4045 | 350369 | 4733773 | 350377 | 4733749 | 1938 | 2013 | -0.06 | 0.09 | 0.02 | 0.06 | -0.06 | 0.72 | 3 |
| PIE | 4046 | 350414 | 4733794 | 350419 | 4733771 | 1938 | 2013 | 0.10 | -0.05 | 0.02 | 0.06 | 0.01 | 0.06 | 3 |
| PIE | 4047 | 350464 | 4733796 | 350462 | 4733772 | 1938 | 2013 | -0.13 | 0.00 | -0.06 | 0.06 | 0.00 | 0.00 | 3 |
| PIE | 4048 | 350512 | 4733782 | 350502 | 4733761 | 1938 | 2013 | -0.10 | 0.10 | 0.01 | 0.06 | -0.02 | 0.13 | 3 |
| PIE | 4049 | 350555 | 4733757 | 350539 | 4733741 | 1938 | 2013 | -0.12 | 0.09 | 0.00 | 0.06 | -0.01 | 0.07 | 3 |
| PIE | 4050 | 350585 | 4733718 | 350564 | 4733708 | 1938 | 2013 | -0.12 | 0.05 | -0.02 | 0.06 | -0.04 | 0.94 | 3 |
| PIE | 4051 | 350596 | 4733669 | 350572 | 4733664 | 1938 | 2013 | -0.06 | 0.03 | -0.01 | 0.06 | -0.04 | 0.41 | 3 |
| PIE | 4052 | 350600 | 4733619 | 350575 | 4733614 | 1938 | 2013 | -0.05 | -0.02 | -0.04 | 0.06 | -0.03 | 0.14 | 3 |
| PIE | 4053 | 350601 | 4733570 | 350576 | 4733564 | 1938 | 2013 | 0.06 | -0.12 | -0.04 | 0.06 | -0.08 | 0.78 | 3 |
| PIE | 4054 | 350612 | 4733521 | 350588 | 4733512 | 1938 | 2013 | 0.11 | -0.12 | -0.02 | 0.06 | -0.05 | 0.39 | 3 |
| PIE | 4055 | 350636 | 4733478 | 350617 | 4733467 | 1938 | 2013 | 0.01 | -0.13 | -0.07 | 0.06 | -0.03 | 0.77 | 3 |
| PIE | 4056 | 350668 | 4733439 | 350650 | 4733424 | 1938 | 2013 | 0.08 | -0.15 | -0.05 | 0.06 | -0.01 | 0.11 | 3 |
| PIE | 4057 | 350673 | 4733390 | 350654 | 4733371 | 1938 | 2013 | 0.00 | -0.05 | -0.03 | 0.06 | -0.04 | 0.30 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4058 | 350712 | 4733363 | 350693 | 4733338 | 1938 | 2013 | 0.05 | -0.05 | -0.01 | 0.06 | -0.04 | 0.07 | 3 |
| PIE | 4059 | 350754 | 4733338 | 350745 | 4733319 | 1938 | 2013 | 0.09 | -0.14 | -0.04 | 0.06 | -0.01 | 0.94 | 3 |
| PIE | 4060 | 350802 | 4733323 | 350798 | 4733298 | 1938 | 2013 | 0.25 | -0.25 | -0.03 | 0.06 | 0.01 | 0.01 | 3 |
| PIE | 4061 | 350851 | 4733325 | 350852 | 4733300 | 1938 | 2013 | -0.02 | -0.01 | -0.01 | 0.06 | -0.01 | 0.03 | 3 |
| PIE | 4062 | 350901 | 4733330 | 350908 | 4733306 | 1938 | 2013 | -0.15 | 0.12 | 0.00 | 0.06 | 0.00 | 0.00 | 3 |
| PIE | 4063 | 350941 | 4733359 | 350953 | 4733332 | 1938 | 2013 | -0.15 | 0.09 | -0.02 | 0.06 | -0.10 | 0.94 | 3 |
| PIE | 4064 | 350984 | 4733384 | 350995 | 4733358 | 1938 | 2013 | -0.14 | 0.10 | 0.00 | 0.06 | -0.08 | 0.43 | 3 |
| PIE | 4065 | 351027 | 4733410 | 351034 | 4733378 | 1938 | 2013 | -0.15 | -0.06 | -0.10 | 0.06 | -0.06 | 0.13 | 3 |
| PIE | 4066 | 351075 | 4733420 | 351075 | 4733397 | 1938 | 2013 | -0.26 | 0.05 | -0.08 | 0.06 | 0.04 | 0.77 | 3 |
| PIE | 4067 | 351125 | 4733420 | 351116 | 4733391 | 1938 | 2013 | -0.39 | 0.18 | -0.07 | 0.06 | 0.15 | 0.93 | 3 |
| PIE | 4068 | 351168 | 4733395 | 351152 | 4733372 | 1938 | 2013 | 0.00 | 0.07 | 0.04 | 0.06 | 0.10 | 0.93 | 3 |
| PIE | 4069 | 351204 | 4733361 | 351188 | 4733345 | 1938 | 2013 | 0.06 | 0.21 | 0.15 | 0.06 | 0.00 | 0.01 | 3 |
| PIE | 4070 | 351235 | 4733323 | 351214 | 4733306 | 1938 | 2013 | 0.16 | 0.06 | 0.11 | 0.06 | -0.05 | 0.82 | 3 |
| PIE | 4071 | 351256 | 4733277 | 351235 | 4733266 | 1938 | 2013 | 0.09 | -0.08 | 0.00 | 0.06 | -0.05 | 0.99 | 3 |
| PIE | 4072 | 351273 | 4733231 | 351253 | 4733224 | 1938 | 2013 | -0.09 | -0.01 | -0.05 | 0.06 | -0.01 | 0.32 | 3 |
| PIE | 4073 | 351291 | 4733185 | 351264 | 4733180 | 1938 | 2013 | -0.06 | -0.04 | -0.05 | 0.06 | -0.11 | 0.99 | 3 |
| PIE | 4074 | 351302 | 4733137 | 351269 | 4733135 | 1938 | 2013 | 0.01 | -0.02 | -0.01 | 0.06 | -0.09 | 0.66 | 3 |
| PIE | 4075 | 351307 | 4733088 | 351276 | 4733091 | 1938 | 2013 | -0.09 | -0.12 | -0.11 | 0.06 | -0.12 | 0.77 | 3 |
| PIE | 4076 | 351332 | 4733045 | 351280 | 4733049 | 1938 | 2013 | 0.04 | -0.19 | -0.09 | 0.06 | -0.13 | 0.15 | 3 |
| PIE | 4077 | 351334 | 4732996 | 351295 | 4733004 | 1938 | 2013 | 0.01 | -0.22 | -0.11 | 0.06 | -0.15 | 0.34 | 3 |
| PIE | 4078 | 349398 | 4732548 | 349413 | 4732522 | 1938 | 2013 | -0.14 | -0.05 | -0.09 | 0.06 | -0.13 | 0.94 | 3 |
| PIE | 4079 | 349363 | 4732516 | 349390 | 4732487 | 1938 | 2013 | -0.26 | 0.09 | -0.06 | 0.06 | -0.13 | 0.88 | 3 |
| PIE | 4080 | 349359 | 4732471 | 349381 | 4732453 | 1938 | 2013 | 0.02 | 0.08 | 0.05 | 0.06 | -0.09 | 0.91 | 3 |
| PIE | 4081 | 349342 | 4732424 | 349365 | 4732407 | 1938 | 2013 | -0.09 | 0.14 | 0.04 | 0.06 | -0.06 | 0.26 | 3 |
| PIE | 4082 | 349319 | 4732381 | 349335 | 4732363 | 1938 | 2013 | 0.13 | -0.08 | 0.01 | 0.06 | 0.05 | 0.89 | 3 |
| PIE | 4083 | 349282 | 4732348 | 349296 | 4732327 | 1938 | 2013 | 0.06 | 0.05 | 0.06 | 0.06 | 0.05 | 0.32 | 3 |
| PIE | 4084 | 349235 | 4732335 | 349243 | 4732310 | 1938 | 2013 | -0.05 | NA | NA | 0.06 | 0.01 | 0.01 | 3 |
| PIE | 4085 | 349189 | 4732319 | 349192 | 4732295 | 1938 | 2013 | -0.50 | 0.53 | 0.08 | 0.06 | 0.06 | 1.00 | 3 |
| PIE | 4086 | 349145 | 4732310 | 349141 | 4732275 | 1938 | 2013 | -0.22 | 0.32 | 0.08 | 0.13 | -0.05 | 0.00 | 3 |
| PIE | 4087 | 349098 | 4732318 | 349090 | 4732276 | 1938 | 2013 | -0.18 | 0.12 | -0.01 | 0.06 | 0.10 | 0.11 | 3 |
| PIE | 4088 | 349049 | 4732324 | 349045 | 4732289 | 1938 | 2013 | -0.01 | -0.02 | -0.02 | 0.06 | 0.09 | 0.27 | 3 |
| PIE | 4089 | 349001 | 4732336 | 349002 | 4732309 | 1938 | 2013 | -0.13 | 0.13 | 0.02 | 0.06 | -0.01 | 0.01 | 3 |
| PIE | 4090 | 348953 | 4732323 | 348957 | 4732301 | 1938 | 2013 | -0.11 | -0.02 | -0.06 | 0.06 | -0.02 | 0.90 | 3 |
| PIE | 4091 | 348909 | 4732301 | 348920 | 4732278 | 1938 | 2013 | -0.18 | -0.07 | -0.12 | 0.06 | 0.02 | 0.08 | 3 |
| PIE | 4092 | 348868 | 4732272 | 348884 | 4732253 | 1938 | 2013 | -0.08 | -0.23 | -0.16 | 0.06 | -0.06 | 0.86 | 3 |
| PIE | 4093 | 348829 | 4732241 | 348852 | 4732224 | 1938 | 2013 | 0.14 | -0.02 | 0.05 | 0.06 | -0.11 | 0.92 | 3 |
| PIE | 4094 | 348807 | 4732197 | 348834 | 4732180 | 1938 | 2013 | 0.00 | -0.04 | -0.02 | 0.06 | -0.17 | 0.94 | 3 |
| PIE | 4095 | 348793 | 4732149 | 348816 | 4732137 | 1938 | 2013 | -0.08 | -0.04 | -0.06 | 0.06 | 0.05 | 0.54 | 3 |
| PIE | 4096 | 348758 | 4732118 | 348778 | 4732107 | 1938 | 2013 | -0.16 | 0.07 | -0.03 | 0.06 | -0.02 | 0.75 | 3 |
| PIE | 4097 | 348736 | 4732074 | 348755 | 4732059 | 1938 | 2013 | -0.05 | -0.03 | -0.04 | 0.06 | -0.06 | 0.97 | 3 |
| PIE | 4098 | 348698 | 4732041 | 348714 | 4732021 | 1938 | 2013 | -0.05 | 0.03 | 0.00 | 0.06 | -0.03 | 0.14 | 3 |
| PIE | 4099 | 348662 | 4732008 | 348669 | 4731986 | 1938 | 2013 | -0.05 | 0.01 | -0.02 | 0.06 | -0.04 | 0.98 | 3 |
| PIE | 4100 | 348615 | 4731990 | 348616 | 4731968 | 1938 | 2013 | -0.12 | 0.10 | 0.00 | 0.06 | 0.00 | 0.01 | 3 |
| PIE | 4101 | 348570 | 4732002 | 348564 | 4731978 | 1938 | 2013 | -0.55 | 0.17 | -0.14 | 0.06 | -0.02 | 0.53 | 3 |
| PIE | 4102 | 348529 | 4732029 | 348518 | 4732008 | 1938 | 2013 | -0.50 | 0.23 | -0.09 | 0.06 | 0.01 | 0.01 | 3 |
| PIE | 4103 | 348493 | 4732064 | 348473 | 4732032 | 1938 | 2013 | -0.26 | 0.14 | -0.04 | 0.06 | -0.13 | 0.28 | 3 |
| PIE | 4104 | 348454 | 4732094 | 348439 | 4732060 | 1938 | 2013 | 0.05 | -0.02 | 0.01 | 0.06 | -0.08 | 0.12 | 3 |
| PIE | 4105 | 348407 | 4732111 | 348402 | 4732083 | 1938 | 2013 | 0.08 | -0.13 | -0.04 | 0.06 | -0.03 | 0.06 | 3 |
| PIE | 4106 | 348358 | 4732115 | 348359 | 4732093 | 1938 | 2013 | 0.01 | -0.11 | -0.06 | 0.06 | 0.01 | 0.10 | 3 |
| PIE | 4107 | 348311 | 4732100 | 348320 | 4732075 | 1938 | 2013 | 0.05 | -0.13 | -0.05 | 0.06 | -0.04 | 0.30 | 3 |
| PIE | 4108 | 348272 | 4732069 | 348285 | 4732047 | 1938 | 2013 | 0.03 | -0.01 | 0.01 | 0.06 | -0.06 | 0.78 | 3 |
| PIE | 4109 | 348236 | 4732034 | 348252 | 4732015 | 1938 | 2013 | -0.07 | -0.08 | -0.08 | 0.06 | -0.05 | 0.53 | 3 |
| PIE | 4110 | 348202 | 4731997 | 348216 | 4731981 | 1938 | 2013 | -0.10 | -0.09 | -0.09 | 0.06 | 0.01 | 0.41 | 3 |
| PIE | 4111 | 348165 | 4731964 | 348182 | 4731944 | 1938 | 2013 | -0.10 | -0.09 | -0.09 | 0.06 | -0.08 | 1.00 | 3 |
| PIE | 4112 | 348129 | 4731930 | 348145 | 4731908 | 1938 | 2013 | 0.13 | -0.07 | 0.02 | 0.06 | -0.09 | 1.00 | 3 |
| PIE | 4113 | 348089 | 4731901 | 348104 | 4731878 | 1938 | 2013 | 0.35 | -0.23 | 0.02 | 0.06 | -0.09 | 1.00 | 3 |
| PIE | 4114 | 348043 | 4731883 | 348059 | 4731863 | 1938 | 2013 | 0.09 | -0.20 | -0.07 | 0.06 | 0.01 | 0.06 | 3 |
| PIE | 4115 | 347994 | 4731871 | 348025 | 4731849 | 1938 | 2013 | 0.02 | -0.13 | -0.06 | 0.06 | 0.01 | 0.00 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4116 | 347964 | 4731833 | 347992 | 4731827 | 1938 | 2013 | 0.06 | -0.16 | -0.06 | 0.06 | -0.07 | 0.45 | 3 |
| PIE | 4117 | 347983 | 4731789 | 348016 | 4731792 | 1938 | 2013 | -0.04 | -0.19 | -0.12 | 0.06 | -0.07 | 0.70 | 3 |
| PIE | 4118 | 348017 | 4731752 | 348043 | 4731758 | 1938 | 2013 | -0.01 | -0.18 | -0.11 | 0.06 | -0.07 | 0.55 | 3 |
| PIE | 4119 | 348034 | 4731707 | 348063 | 4731709 | 1938 | 2013 | -0.16 | -0.06 | -0.11 | 0.06 | -0.13 | 0.89 | 3 |
| PIE | 4120 | 348029 | 4731658 | 348055 | 4731646 | 1938 | 2013 | -0.03 | -0.02 | -0.03 | 0.06 | -0.11 | 0.84 | 3 |
| PIE | 4121 | 347989 | 4731628 | 348007 | 4731607 | 1938 | 2013 | -0.04 | 0.05 | 0.01 | 0.06 | -0.10 | 0.93 | 3 |
| PIE | 4122 | 347944 | 4731610 | 347952 | 4731588 | 1938 | 2013 | -0.11 | -0.02 | -0.06 | 0.06 | -0.03 | 0.99 | 3 |
| PIE | 4123 | 347896 | 4731620 | 347900 | 4731597 | 1938 | 2013 | -0.01 | NA | NA | 0.06 | 0.01 | 0.18 | 3 |
| PIE | 4124 | 347847 | 4731615 | 347849 | 4731591 | 1938 | 2013 | -0.07 | -0.06 | -0.06 | 0.06 | -0.06 | 0.86 | 3 |
| PIE | 4125 | 347810 | 4731622 | 347794 | 4731642 | 1938 | 2013 | 0.08 | -0.04 | 0.01 | 0.13 | -0.01 | 0.00 | 3 |
| PIE | 4126 | 347819 | 4731626 | 347810 | 4731649 | 1938 | 2013 | 0.13 | -0.13 | -0.02 | 0.06 | -0.06 | 1.00 | 3 |
| PIE | 4127 | 347861 | 4731634 | 347854 | 4731663 | 1938 | 2013 | 0.05 | NA | NA | 0.06 | 0.01 | 0.04 | 3 |
| PIE | 4128 | 347910 | 4731627 | 347903 | 4731653 | 1938 | 2013 | 0.10 | -0.05 | 0.02 | 0.06 | -0.02 | 0.07 | 3 |
| PIE | 4129 | 347958 | 4731636 | 347947 | 4731658 | 1938 | 2013 | -0.08 | -0.02 | -0.05 | 0.13 | 0.05 | 0.00 | 3 |
| PIE | 4130 | 348001 | 4731660 | 347981 | 4731673 | 1938 | 2013 | 0.00 | -0.04 | -0.02 | 0.06 | 0.02 | 0.11 | 3 |
| PIE | 4131 | 348019 | 4731705 | 347995 | 4731706 | 1938 | 2013 | -0.24 | NA | NA | 0.06 | -0.05 | 0.87 | 3 |
| PIE | 4132 | 347992 | 4731745 | 347964 | 4731741 | 1938 | 2013 | -0.17 | -0.11 | -0.14 | 0.06 | -0.02 | 0.86 | 3 |
| PIE | 4133 | 347961 | 4731784 | 347928 | 4731779 | 1938 | 2013 | -0.06 | 0.00 | -0.02 | 0.13 | -0.24 | 0.00 | 3 |
| PIE | 4134 | 347955 | 4731832 | 347925 | 4731836 | 1938 | 2013 | 0.14 | -0.07 | 0.02 | 0.06 | -0.14 | 0.98 | 3 |
| PIE | 4135 | 347972 | 4731879 | 347954 | 4731891 | 1938 | 2013 | -0.08 | -0.09 | -0.09 | 0.06 | -0.02 | 0.68 | 3 |
| PIE | 4136 | 348014 | 4731905 | 347998 | 4731925 | 1938 | 2013 | 0.03 | -0.12 | -0.05 | 0.06 | 0.02 | 0.09 | 3 |
| PIE | 4137 | 348063 | 4731912 | 348045 | 4731938 | 1938 | 2013 | -0.05 | -0.01 | -0.03 | 0.06 | -0.09 | 1.00 | 3 |
| PIE | 4138 | 348102 | 4731940 | 348087 | 4731960 | 1938 | 2013 | -0.06 | -0.13 | -0.10 | 0.06 | -0.06 | 0.62 | 3 |
| PIE | 4139 | 348136 | 4731977 | 348120 | 4731992 | 1938 | 2013 | -0.10 | -0.03 | -0.06 | 0.06 | -0.03 | 0.90 | 3 |
| PIE | 4140 | 348166 | 4732017 | 348144 | 4732035 | 1938 | 2013 | -0.09 | -0.08 | -0.09 | 0.06 | -0.10 | 0.96 | 3 |
| PIE | 4141 | 348194 | 4732058 | 348174 | 4732073 | 1938 | 2013 | -0.03 | -0.20 | -0.12 | 0.06 | -0.06 | 0.91 | 3 |
| PIE | 4142 | 348232 | 4732090 | 348212 | 4732110 | 1938 | 2013 | -0.25 | -0.03 | -0.13 | 0.06 | -0.09 | 1.00 | 3 |
| PIE | 4143 | 348272 | 4732119 | 348256 | 4732143 | 1938 | 2013 | -0.07 | -0.16 | -0.12 | 0.06 | -0.13 | 0.87 | 3 |
| PIE | 4144 | 348316 | 4732143 | 348304 | 4732171 | 1938 | 2013 | -0.16 | -0.06 | -0.11 | 0.06 | -0.12 | 0.78 | 3 |
| PIE | 4145 | 348361 | 4732160 | 348354 | 4732188 | 1938 | 2013 | -0.20 | -0.12 | -0.15 | 0.06 | -0.13 | 0.96 | 3 |
| PIE | 4146 | 348411 | 4732166 | 348410 | 4732194 | 1938 | 2013 | -0.08 | -0.14 | -0.11 | 0.06 | -0.11 | 0.94 | 3 |
| PIE | 4147 | 348460 | 4732157 | 348463 | 4732188 | 1938 | 2013 | -0.13 | -0.35 | -0.25 | 0.06 | -0.15 | 0.98 | 3 |
| PIE | 4148 | 348503 | 4732132 | 348509 | 4732163 | 1938 | 2013 | -0.15 | -0.36 | -0.27 | 0.06 | -0.11 | 0.98 | 3 |
| PIE | 4149 | 348543 | 4732102 | 348548 | 4732143 | 1938 | 2013 | -0.22 | -0.12 | -0.16 | 0.06 | -0.26 | 0.95 | 3 |
| PIE | 4150 | 348586 | 4732079 | 348582 | 4732121 | 1938 | 2013 | -0.26 | -0.17 | -0.21 | 0.06 | -0.27 | 0.95 | 3 |
| PIE | 4151 | 348634 | 4732081 | 348619 | 4732110 | 1938 | 2013 | -0.21 | -0.25 | -0.23 | 0.06 | -0.16 | 0.97 | 3 |
| PIE | 4152 | 348667 | 4732119 | 348641 | 4732148 | 1938 | 2013 | -0.32 | -0.04 | -0.16 | 0.06 | -0.21 | 0.99 | 3 |
| PIE | 4153 | 348682 | 4732166 | 348651 | 4732190 | 1938 | 2013 | -0.17 | 0.03 | -0.06 | 0.06 | -0.23 | 1.00 | 3 |
| PIE | 4154 | 348701 | 4732211 | 348674 | 4732230 | 1938 | 2013 | -0.08 | -0.03 | -0.05 | 0.06 | -0.16 | 0.79 | 3 |
| PIE | 4155 | 348731 | 4732251 | 348712 | 4732268 | 1938 | 2013 | -0.19 | 0.02 | -0.08 | 0.06 | -0.06 | 0.50 | 3 |
| PIE | 4156 | 348765 | 4732288 | 348749 | 4732306 | 1938 | 2013 | -0.05 | -0.06 | -0.06 | 0.06 | -0.05 | 0.92 | 3 |
| PIE | 4157 | 348805 | 4732318 | 348789 | 4732339 | 1938 | 2013 | 0.04 | -0.13 | -0.06 | 0.06 | -0.07 | 0.60 | 3 |
| PIE | 4158 | 348844 | 4732348 | 348831 | 4732369 | 1938 | 2013 | -0.03 | -0.20 | -0.13 | 0.06 | -0.06 | 0.99 | 3 |
| PIE | 4159 | 348889 | 4732370 | 348878 | 4732393 | 1938 | 2013 | -0.16 | -0.10 | -0.12 | 0.06 | -0.06 | 0.61 | 3 |
| PIE | 4160 | 348935 | 4732388 | 348926 | 4732416 | 1938 | 2013 | -0.16 | -0.22 | -0.19 | 0.06 | -0.13 | 0.88 | 3 |
| PIE | 4161 | 348984 | 4732399 | 348978 | 4732428 | 1938 | 2013 | -0.27 | -0.21 | -0.23 | 0.06 | -0.12 | 0.98 | 3 |
| PIE | 4162 | 349033 | 4732401 | 349030 | 4732435 | 1938 | 2013 | -0.19 | -0.19 | -0.19 | 0.06 | -0.19 | 0.99 | 3 |
| PIE | 4163 | 349083 | 4732397 | 349075 | 4732434 | 1938 | 2013 | -0.04 | -0.10 | -0.07 | 0.06 | -0.23 | 1.00 | 3 |
| PIE | 4164 | 349133 | 4732396 | 349119 | 4732430 | 1938 | 2013 | -0.13 | -0.01 | -0.07 | 0.06 | -0.19 | 1.00 | 3 |
| PIE | 4165 | 349170 | 4732423 | 349155 | 4732449 | 1938 | 2013 | -0.02 | -0.11 | -0.07 | 0.06 | -0.07 | 0.96 | 3 |
| PIE | 4166 | 349192 | 4732467 | 349175 | 4732486 | 1938 | 2013 | 0.10 | -0.20 | -0.07 | 0.06 | -0.06 | 0.79 | 3 |
| PIE | 4167 | 349223 | 4732506 | 349203 | 4732521 | 1938 | 2013 | -0.23 | -0.25 | -0.24 | 0.06 | -0.07 | 0.89 | 3 |
| PIE | 4168 | 349261 | 4732539 | 349237 | 4732554 | 1938 | 2013 | -0.25 | -0.30 | -0.28 | 0.06 | -0.07 | 0.43 | 3 |
| PIE | 4169 | 349294 | 4732577 | 349259 | 4732591 | 1938 | 2013 | 0.66 | -0.82 | -0.17 | 0.06 | -0.24 | 1.00 | 3 |
| PIE | 4170 | 349311 | 4732623 | 349271 | 4732632 | 1938 | 2013 | 0.82 | -0.83 | -0.11 | 0.06 | -0.28 | 1.00 | 3 |
| PIE | 4171 | 349332 | 4732668 | 349272 | 4732650 | 1938 | 2013 | 0.13 | -0.01 | 0.05 | 0.06 | -0.20 | 0.18 | 3 |
| PIE | 4172 | 349297 | 4732710 | 349265 | 4732663 | 1938 | 2013 | 0.07 | -0.17 | -0.07 | 0.06 | -0.14 | 0.08 | 3 |
| PIE | 4173 | 349249 | 4732722 | 349241 | 4732695 | 1938 | 2013 | 0.07 | -0.07 | -0.01 | 0.06 | 0.05 | 0.57 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4174 | 349199 | 4732725 | 349202 | 4732698 | 1938 | 2013 | -0.11 | 0.03 | -0.03 | 0.06 | -0.07 | 0.52 | 3 |
| PIE | 4175 | 349158 | 4732699 | 349168 | 4732677 | 1938 | 2013 | -0.10 | 0.06 | -0.01 | 0.06 | -0.01 | 0.08 | 3 |
| PIE | 4176 | 349122 | 4732665 | 349135 | 4732645 | 1938 | 2013 | -0.02 | 0.09 | 0.04 | 0.06 | -0.03 | 0.29 | 3 |
| PIE | 4177 | 349085 | 4732632 | 349097 | 4732612 | 1938 | 2013 | -0.20 | 0.12 | -0.02 | 0.06 | 0.00 | 0.01 | 3 |
| PIE | 4178 | 349043 | 4732605 | 349053 | 4732583 | 1938 | 2013 | -0.25 | 0.15 | -0.03 | 0.06 | 0.05 | 0.69 | 3 |
| PIE | 4179 | 348997 | 4732588 | 349002 | 4732562 | 1938 | 2013 | -0.29 | 0.07 | -0.09 | 0.06 | -0.01 | 0.03 | 3 |
| PIE | 4180 | 348948 | 4732581 | 348946 | 4732552 | 1938 | 2013 | -0.09 | 0.04 | -0.02 | 0.06 | -0.02 | 0.02 | 3 |
| PIE | 4181 | 348899 | 4732590 | 348889 | 4732562 | 1938 | 2013 | -0.01 | 0.03 | 0.01 | 0.06 | -0.08 | 0.40 | 3 |
| PIE | 4182 | 348853 | 4732608 | 348841 | 4732588 | 1938 | 2013 | -0.15 | 0.02 | -0.05 | 0.06 | -0.01 | 0.15 | 3 |
| PIE | 4183 | 348822 | 4732644 | 348807 | 4732626 | 1938 | 2013 | -0.04 | -0.01 | -0.02 | 0.06 | 0.01 | 0.54 | 3 |
| PIE | 4184 | 348791 | 4732683 | 348774 | 4732664 | 1938 | 2013 | -0.08 | 0.04 | -0.02 | 0.06 | -0.05 | 0.51 | 3 |
| PIE | 4185 | 348752 | 4732713 | 348738 | 4732697 | 1938 | 2013 | -0.10 | 0.06 | -0.01 | 0.06 | -0.02 | 0.81 | 3 |
| PIE | 4186 | 348713 | 4732744 | 348701 | 4732724 | 1938 | 2013 | 0.07 | 0.05 | 0.06 | 0.06 | -0.01 | 0.16 | 3 |
| PIE | 4187 | 348743 | 4732767 | 348756 | 4732788 | 1938 | 2013 | 0.06 | -0.18 | -0.07 | 0.06 | 0.03 | 0.35 | 3 |
| PIE | 4188 | 348779 | 4732732 | 348793 | 4732752 | 1938 | 2013 | 0.01 | -0.09 | -0.04 | 0.06 | -0.05 | 0.87 | 3 |
| PIE | 4189 | 348813 | 4732696 | 348829 | 4732719 | 1938 | 2013 | -0.13 | -0.09 | -0.11 | 0.06 | -0.08 | 0.55 | 3 |
| PIE | 4190 | 348845 | 4732658 | 348857 | 4732680 | 1938 | 2013 | 0.11 | -0.37 | -0.16 | 0.06 | -0.04 | 0.70 | 3 |
| PIE | 4191 | 348879 | 4732622 | 348888 | 4732650 | 1938 | 2013 | 0.19 | -0.46 | -0.17 | 0.06 | -0.11 | 0.99 | 3 |
| PIE | 4192 | 348924 | 4732602 | 348929 | 4732637 | 1938 | 2013 | 0.03 | -0.25 | -0.13 | 0.06 | -0.17 | 0.61 | 3 |
| PIE | 4193 | 348974 | 4732604 | 348967 | 4732642 | 1938 | 2013 | -0.08 | -0.14 | -0.12 | 0.06 | -0.19 | 0.50 | 3 |
| PIE | 4194 | 349018 | 4732625 | 349005 | 4732653 | 1938 | 2013 | -0.21 | 0.01 | -0.09 | 0.06 | -0.14 | 0.75 | 3 |
| PIE | 4195 | 349059 | 4732654 | 349042 | 4732678 | 1938 | 2013 | 0.07 | NA | NA | 0.06 | -0.12 | 0.98 | 3 |
| PIE | 4196 | 349088 | 4732695 | 349071 | 4732719 | 1938 | 2013 | -0.03 | -0.10 | -0.07 | 0.06 | -0.08 | 0.62 | 3 |
| PIE | 4197 | 349118 | 4732733 | 349105 | 4732758 | 1938 | 2013 | -0.17 | -0.09 | -0.12 | 0.13 | 0.07 | 0.00 | 3 |
| PIE | 4198 | 349165 | 4732750 | 349159 | 4732774 | 1938 | 2013 | -0.24 | 0.08 | -0.06 | 0.06 | -0.07 | 0.94 | 3 |
| PIE | 4199 | 349214 | 4732750 | 349214 | 4732780 | 1938 | 2013 | -0.24 | -0.05 | -0.13 | 0.06 | -0.12 | 0.96 | 3 |
| PIE | 4200 | 349263 | 4732741 | 349267 | 4732769 | 1938 | 2013 | -0.24 | -0.17 | -0.20 | 0.06 | -0.06 | 0.28 | 3 |
| PIE | 4201 | 349309 | 4732721 | 349312 | 4732751 | 1938 | 2013 | -0.40 | -0.16 | -0.26 | 0.06 | -0.13 | 0.84 | 3 |
| PIE | 4202 | 349380 | 4732861 | 349342 | 4732851 | 1938 | 2013 | -0.28 | 0.16 | -0.05 | 0.05 | -0.04 | 0.20 | 3 |
| PIE | 4203 | 349377 | 4732909 | 349345 | 4732908 | 1938 | 2013 | -0.33 | 0.26 | -0.03 | 0.05 | -0.03 | 0.89 | 3 |
| PIE | 4204 | 349360 | 4732955 | 349299 | 4732956 | 1938 | 2013 | -0.05 | 0.12 | 0.04 | 0.11 | 0.10 | 0.00 | 3 |
| PIE | 4205 | 349350 | 4732975 | 349392 | 4732971 | 1938 | 2013 | -0.11 | -0.10 | -0.11 | 0.05 | 0.03 | 0.01 | 3 |
| PIE | 4206 | 349373 | 4732931 | 349401 | 4732931 | 1938 | 2013 | -0.11 | 0.01 | -0.04 | 0.05 | -0.08 | 0.94 | 3 |
| PIE | 4207 | 349386 | 4732846 | 349411 | 4732851 | 1938 | 2013 | 0.29 | -0.17 | 0.05 | 0.05 | 0.02 | 0.09 | 3 |
| PIE | 4208 | 349774 | 4732738 | 349741 | 4732751 | 1938 | 2013 | 0.04 | 0.07 | 0.06 | 0.05 | -0.08 | 0.20 | 3 |
| PIE | 4209 | 349778 | 4732788 | 349744 | 4732808 | 1938 | 2013 | -0.08 | -0.02 | -0.05 | 0.05 | -0.09 | 0.19 | 3 |
| PIE | 4210 | 349800 | 4732826 | 349834 | 4732819 | 1938 | 2013 | -0.17 | 0.11 | -0.03 | 0.05 | 0.08 | 0.19 | 3 |
| PIE | 4211 | 349803 | 4732778 | 349832 | 4732787 | 1938 | 2013 | -0.30 | 0.13 | -0.08 | 0.05 | 0.10 | 0.61 | 3 |
| PIE | 4212 | 349916 | 4731909 | 349890 | 4731916 | 1938 | 2013 | -0.04 | -0.03 | -0.03 | 0.05 | -0.07 | 0.72 | 3 |
| PIE | 4213 | 349903 | 4731861 | 349878 | 4731883 | 1938 | 2013 | 0.00 | -0.08 | -0.04 | 0.05 | -0.12 | 1.00 | 3 |
| PIE | 4214 | 349882 | 4731816 | 349860 | 4731846 | 1938 | 2013 | 0.14 | -0.14 | 0.00 | 0.05 | -0.17 | 0.65 | 3 |
| PIE | 4215 | 349840 | 4731794 | 349832 | 4731827 | 1938 | 2013 | 0.03 | -0.07 | -0.02 | 0.05 | -0.09 | 0.84 | 3 |
| PIE | 4216 | 349804 | 4731825 | 349806 | 4731861 | 1938 | 2013 | 0.11 | -0.12 | -0.01 | 0.05 | -0.04 | 0.40 | 3 |
| PIE | 4217 | 349762 | 4731848 | 349765 | 4731875 | 1938 | 2013 | 0.07 | -0.15 | -0.04 | 0.05 | -0.05 | 0.25 | 3 |
| PIE | 4218 | 349712 | 4731845 | 349712 | 4731872 | 1938 | 2013 | 0.15 | -0.10 | 0.02 | 0.05 | -0.04 | 0.15 | 3 |
| PIE | 4219 | 349668 | 4731828 | 349666 | 4731867 | 1938 | 2013 | 0.12 | -0.10 | 0.00 | 0.05 | -0.11 | 0.38 | 3 |
| PIE | 4220 | 349629 | 4731798 | 349625 | 4731835 | 1938 | 2013 | -0.01 | -0.04 | -0.02 | 0.05 | -0.10 | 0.99 | 3 |
| PIE | 4221 | 349581 | 4731806 | 349571 | 4731841 | 1938 | 2013 | -0.07 | -0.06 | -0.07 | 0.05 | -0.02 | 0.02 | 3 |
| PIE | 4222 | 349532 | 4731808 | 349519 | 4731832 | 1938 | 2013 | 0.12 | -0.16 | -0.03 | 0.05 | -0.09 | 0.79 | 3 |
| PIE | 4223 | 349493 | 4731780 | 349468 | 4731800 | 1938 | 2013 | 0.31 | -0.34 | -0.02 | 0.05 | -0.10 | 0.47 | 3 |
| PIE | 4224 | 349471 | 4731737 | 349443 | 4731737 | 1938 | 2013 | 0.04 | -0.19 | -0.07 | 0.05 | -0.10 | 1.00 | 3 |
| PIE | 4225 | 349502 | 4731704 | 349463 | 4731694 | 1938 | 2013 | -0.15 | 0.00 | -0.07 | 0.05 | -0.06 | 0.28 | 3 |
| PIE | 4226 | 349544 | 4731679 | 349518 | 4731672 | 1938 | 2013 | -0.11 | -0.13 | -0.12 | 0.05 | -0.06 | 0.86 | 3 |
| PIE | 4227 | 349556 | 4731632 | 349528 | 4731627 | 1938 | 2013 | 0.05 | -0.38 | -0.17 | 0.05 | -0.09 | 0.90 | 3 |
| PIE | 4228 | 349540 | 4731602 | 349568 | 4731598 | 1938 | 2013 | -0.30 | 0.08 | -0.10 | 0.05 | -0.09 | 0.82 | 3 |
| PIE | 4229 | 349545 | 4731651 | 349573 | 4731654 | 1938 | 2013 | -0.09 | -0.10 | -0.10 | 0.05 | -0.11 | 0.94 | 3 |
| PIE | 4230 | 349520 | 4731691 | 349559 | 4731696 | 1938 | 2013 | 0.10 | -0.20 | -0.05 | 0.05 | -0.14 | 0.97 | 3 |
| PIE | 4231 | 349476 | 4731712 | 349492 | 4731732 | 1938 | 2013 | -0.02 | -0.10 | -0.06 | 0.05 | -0.04 | 0.38 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4232 | 349470 | 4731758 | 349495 | 4731752 | 1938 | 2013 | -0.15 | -0.04 | -0.09 | 0.05 | -0.02 | 0.18 | 3 |
| PIE | 4233 | 349502 | 4731797 | 349516 | 4731778 | 1938 | 2013 | -0.04 | 0.00 | -0.02 | 0.05 | -0.01 | 0.04 | 3 |
| PIE | 4234 | 349547 | 4731815 | 349558 | 4731790 | 1938 | 2013 | -0.02 | -0.10 | -0.06 | 0.05 | 0.00 | 0.00 | 3 |
| PIE | 4235 | 349595 | 4731801 | 349605 | 4731771 | 1938 | 2013 | -0.04 | -0.06 | -0.05 | 0.05 | 0.03 | 0.86 | 3 |
| PIE | 4236 | 349641 | 4731800 | 349641 | 4731775 | 1938 | 2013 | -0.15 | 0.10 | -0.02 | 0.05 | 0.02 | 0.79 | 3 |
| PIE | 4237 | 349678 | 4731832 | 349668 | 4731793 | 1938 | 2013 | -0.07 | -0.01 | -0.04 | 0.05 | -0.10 | 1.00 | 3 |
| PIE | 4238 | 349722 | 4731823 | 349707 | 4731809 | 1938 | 2013 | -0.01 | -0.03 | -0.02 | 0.05 | 0.00 | 0.11 | 3 |
| PIE | 4239 | 349739 | 4731777 | 349734 | 4731737 | 1938 | 2013 | -0.08 | 0.07 | 0.00 | 0.05 | 0.01 | 0.79 | 3 |
| PIE | 4240 | 349769 | 4731742 | 349766 | 4731720 | 1938 | 2013 | 0.02 | -0.05 | -0.02 | 0.05 | -0.02 | 0.70 | 3 |
| PIE | 4241 | 349813 | 4731750 | 349824 | 4731719 | 1938 | 2013 | -0.17 | -0.02 | -0.09 | 0.05 | -0.05 | 0.16 | 3 |
| PIE | 4242 | 349855 | 4731775 | 349875 | 4731756 | 1938 | 2013 | -0.15 | -0.06 | -0.11 | 0.05 | -0.03 | 0.22 | 3 |
| PIE | 4243 | 349888 | 4731810 | 349909 | 4731797 | 1938 | 2013 | -0.19 | -0.10 | -0.14 | 0.05 | -0.06 | 0.99 | 3 |
| PIE | 4244 | 349909 | 4731854 | 349928 | 4731836 | 1938 | 2013 | -0.13 | 0.04 | -0.04 | 0.05 | 0.03 | 0.19 | 3 |
| PIE | 4245 | 349921 | 4731902 | 349941 | 4731875 | 1938 | 2013 | 0.06 | -0.10 | -0.02 | 0.05 | -0.13 | 0.87 | 3 |
| PIE | 4246 | 351327 | 4732082 | 351409 | 4732126 | 1938 | 2013 | 0.31 | -0.84 | -0.34 | 0.06 | -0.72 | 0.87 | 4 |
| PIE | 4247 | 351304 | 4732126 | 351387 | 4732172 | 1938 | 2013 | 0.45 | -0.57 | -0.12 | 0.06 | -0.73 | 0.91 | 4 |
| PIE | 4248 | 351288 | 4732172 | 351360 | 4732207 | 1938 | 2013 | -1.30 | -0.30 | -0.74 | 0.06 | 0.10 | 0.37 | 4 |
| PIE | 4249 | 351329 | 4732162 | 351378 | 4732178 | 1938 | 2013 | -1.20 | -0.39 | -0.75 | 0.06 | 0.14 | 0.13 | 4 |
| PIE | 4250 | 351323 | 4732208 | 351359 | 4732212 | 1938 | 2013 | 0.36 | -0.09 | 0.11 | 0.06 | 0.63 | 0.65 | 4 |
| PIE | 4251 | 351293 | 4732247 | 351384 | 4732301 | 1938 | 2013 | 0.89 | -0.40 | 0.17 | 0.06 | 1.10 | 0.71 | 4 |
| PIE | 4252 | 351257 | 4732272 | 351265 | 4732324 | 1938 | 2013 | 1.59 | -0.06 | 0.67 | 0.13 | 1.81 | 0.00 | 4 |
| PIE | 4253 | 351215 | 4732291 | 351275 | 4732324 | 1938 | 2013 | 2.52 | 0.06 | 1.14 | 0.06 | -0.53 | 0.96 | 4 |
| PIE | 4254 | 351188 | 4732332 | 351219 | 4732367 | 1938 | 2013 | 1.81 | NA | NA | 0.06 | -0.34 | 0.95 | 4 |
| PIE | 4255 | 351178 | 4732380 | 351206 | 4732398 | 1938 | 2013 | -0.75 | -0.37 | -0.54 | 0.06 | -0.07 | 0.58 | 4 |
| PIE | 4256 | 351117 | 4732448 | 351145 | 4732460 | 1938 | 2013 | -0.50 | -0.22 | -0.34 | 0.13 | -0.01 | 0.00 | 4 |
| PIE | 4257 | 351084 | 4732485 | 351109 | 4732507 | 1938 | 2013 | 0.05 | -0.15 | -0.06 | 0.06 | -0.17 | 0.69 | 4 |
| PIE | 4258 | 351052 | 4732523 | 351077 | 4732538 | 1938 | 2013 | -0.01 | NA | NA | 0.06 | -0.06 | 0.21 | 4 |
| PIE | 4259 | 351021 | 4732559 | 351042 | 4732581 | 1938 | 2013 | 0.06 | -0.34 | -0.16 | 0.06 | -0.07 | 0.30 | 4 |
| PIE | 4260 | 350942 | 4732601 | 350963 | 4732635 | 1938 | 2013 | -0.30 | 0.11 | -0.07 | 0.06 | -0.18 | 0.46 | 4 |
| PIE | 4261 | 350906 | 4732635 | 350922 | 4732653 | 1938 | 2013 | -0.28 | 0.09 | -0.07 | 0.06 | -0.04 | 0.80 | 4 |
| PIE | 4262 | 350872 | 4732672 | 350886 | 4732695 | 1938 | 2013 | -0.58 | 0.11 | -0.19 | 0.06 | 0.07 | 0.98 | 4 |
| PIE | 4263 | 350828 | 4732689 | 350847 | 4732720 | 1938 | 2013 | -0.07 | -0.01 | -0.04 | 0.10 | 0.19 | 0.00 | 4 |
| PIE | 4264 | 350784 | 4732707 | 350802 | 4732734 | 1938 | 2013 | 0.09 | 0.05 | 0.07 | 0.06 | -0.05 | 0.13 | 4 |
| PIE | 4265 | 350738 | 4732724 | 350749 | 4732749 | 1938 | 2013 | NA | 0.19 | NA | 0.06 | -0.08 | 0.60 | 4 |
| PIE | 4266 | 350694 | 4732748 | 350714 | 4732790 | 1938 | 2013 | -0.34 | 0.15 | -0.06 | 0.06 | -0.26 | 0.97 | 4 |
| PIE | 4267 | 350648 | 4732767 | 350662 | 4732794 | 1938 | 2013 | -0.22 | 0.02 | -0.09 | 0.06 | -0.14 | 0.99 | 4 |
| PIE | 4268 | 350601 | 4732784 | 350612 | 4732806 | 1938 | 2013 | -0.16 | -0.33 | -0.26 | 0.06 | -0.05 | 0.73 | 4 |
| PIE | 4269 | 350555 | 4732801 | 350565 | 4732829 | 1938 | 2013 | -0.11 | -0.15 | -0.13 | 0.06 | 0.06 | 0.24 | 4 |
| PIE | 4270 | 350508 | 4732814 | 350518 | 4732845 | 1938 | 2013 | -0.11 | 0.00 | -0.05 | 0.06 | 0.10 | 0.34 | 4 |
| PIE | 4271 | 350462 | 4732831 | 350470 | 4732870 | 1938 | 2013 | -0.16 | 0.22 | 0.05 | 0.06 | -0.05 | 0.04 | 4 |
| PIE | 4272 | 350412 | 4732835 | 350416 | 4732878 | 1938 | 2013 | -0.18 | 0.30 | 0.09 | 0.06 | -0.03 | 0.01 | 4 |
| PIE | 4273 | 350363 | 4732838 | 350361 | 4732885 | 1938 | 2013 | -0.61 | 0.35 | -0.07 | 0.06 | 0.00 | 0.00 | 4 |
| PIE | 4274 | 350313 | 4732833 | 350306 | 4732872 | 1938 | 2013 | -0.69 | 0.44 | -0.05 | 0.06 | -0.02 | 0.01 | 4 |
| PIE | 4275 | 350265 | 4732818 | 350254 | 4732866 | 1938 | 2013 | -0.77 | 0.55 | -0.03 | 0.06 | -0.10 | 0.06 | 4 |
| PIE | 4276 | 350217 | 4732806 | 350205 | 4732849 | 1938 | 2013 | -0.61 | 0.41 | -0.04 | 0.06 | -0.22 | 0.42 | 4 |
| PIE | 4277 | 350168 | 4732798 | 350155 | 4732841 | 1938 | 2013 | -0.90 | 0.48 | -0.13 | 0.06 | -0.09 | 0.06 | 4 |
| PIE | 4278 | 350119 | 4732789 | 350110 | 4732822 | 1938 | 2013 | -0.77 | 0.17 | -0.24 | 0.06 | -0.09 | 0.26 | 4 |
| PIE | 4279 | 350070 | 4732780 | 350062 | 4732812 | 1938 | 2013 | -0.77 | 0.41 | -0.11 | 0.06 | -0.13 | 0.47 | 4 |
| PIE | 4280 | 350023 | 4732768 | 350015 | 4732803 | 1938 | 2013 | -0.42 | 0.14 | -0.11 | 0.06 | -0.20 | 0.93 | 4 |
| PIE | 4281 | 349974 | 4732760 | 349967 | 4732795 | 1938 | 2013 | -0.41 | 0.07 | -0.14 | 0.06 | -0.20 | 0.75 | 4 |
| PIE | 4282 | 349926 | 4732747 | 349917 | 4732787 | 1938 | 2013 | -0.32 | -0.12 | -0.20 | 0.06 | -0.19 | 0.55 | 4 |
| PIE | 4283 | 349876 | 4732742 | 349870 | 4732770 | 1938 | 2013 | 0.04 | -0.36 | -0.19 | 0.06 | -0.11 | 0.93 | 4 |
| PIE | 4284 | 349742 | 4732707 | 349737 | 4732747 | 1938 | 2013 | 0.17 | -0.45 | -0.18 | 0.06 | -0.28 | 0.94 | 4 |
| PIE | 4285 | 349694 | 4732719 | 349692 | 4732752 | 1938 | 2013 | -0.05 | -0.15 | -0.10 | 0.06 | -0.17 | 0.98 | 4 |
| PIE | 4286 | 349645 | 4732727 | 349643 | 4732762 | 1938 | 2013 | -0.13 | -0.38 | -0.27 | 0.06 | -0.20 | 0.96 | 4 |
| PIE | 4287 | 349595 | 4732730 | 349595 | 4732763 | 1938 | 2013 | -0.22 | -0.13 | -0.17 | 0.06 | -0.16 | 0.94 | 4 |
| PIE | 4288 | 349545 | 4732725 | 349544 | 4732760 | 1938 | 2013 | -0.28 | -0.13 | -0.20 | 0.06 | -0.20 | 0.97 | 4 |
| PIE | 4289 | 349496 | 4732717 | 349490 | 4732756 | 1938 | 2013 | -0.25 | -0.10 | -0.17 | 0.06 | -0.26 | 0.93 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4290 | 349446 | 4732716 | 349442 | 4732752 | 1938 | 2013 | -0.26 | -0.15 | -0.20 | 0.06 | -0.20 | 0.99 | 4 |
| PIE | 4291 | 349444 | 4732567 | 349452 | 4732544 | 1938 | 2013 | -0.23 | -0.06 | -0.14 | 0.06 | -0.04 | 0.79 | 4 |
| PIE | 4292 | 349493 | 4732573 | 349497 | 4732545 | 1938 | 2013 | -0.06 | -0.17 | -0.12 | 0.06 | -0.11 | 0.89 | 4 |
| PIE | 4293 | 349543 | 4732571 | 349542 | 4732545 | 1938 | 2013 | -0.08 | -0.01 | -0.04 | 0.06 | -0.07 | 0.78 | 4 |
| PIE | 4294 | 349591 | 4732565 | 349589 | 4732539 | 1938 | 2013 | -0.03 | -0.16 | -0.10 | 0.06 | -0.08 | 0.65 | 4 |
| PIE | 4295 | 349640 | 4732557 | 349637 | 4732529 | 1938 | 2013 | -0.15 | -0.02 | -0.08 | 0.06 | -0.11 | 0.89 | 4 |
| PIE | 4296 | 349690 | 4732550 | 349685 | 4732524 | 1938 | 2013 | -0.19 | 0.01 | -0.08 | 0.06 | -0.06 | 0.47 | 4 |
| PIE | 4297 | 349738 | 4732539 | 349732 | 4732513 | 1938 | 2013 | -0.19 | -0.05 | -0.11 | 0.06 | -0.07 | 0.59 | 4 |
| PIE | 4298 | 349786 | 4732528 | 349778 | 4732503 | 1938 | 2013 | -0.20 | 0.04 | -0.07 | 0.06 | -0.08 | 1.00 | 4 |
| PIE | 4299 | 349834 | 4732520 | 349822 | 4732492 | 1938 | 2013 | -0.20 | 0.02 | -0.08 | 0.06 | -0.13 | 0.98 | 4 |
| PIE | 4300 | 349872 | 4732466 | 349843 | 4732453 | 1938 | 2013 | -0.08 | -0.07 | -0.08 | 0.06 | -0.12 | 0.52 | 4 |
| PIE | 4301 | 349873 | 4732419 | 349841 | 4732421 | 1938 | 2013 | -0.16 | -0.10 | -0.13 | 0.06 | -0.10 | 0.96 | 4 |
| PIE | 4302 | 349841 | 4732382 | 349818 | 4732379 | 1938 | 2013 | -0.17 | -0.15 | -0.16 | 0.13 | 0.01 | 0.00 | 4 |
| PIE | 4303 | 349832 | 4732333 | 349804 | 4732324 | 1938 | 2013 | -0.18 | -0.15 | -0.16 | 0.06 | -0.11 | 1.00 | 4 |
| PIE | 4304 | 349919 | 4732253 | 349895 | 4732259 | 1938 | 2013 | -0.04 | -0.17 | -0.11 | 0.06 | -0.02 | 0.13 | 4 |
| PIE | 4305 | 349897 | 4732208 | 349863 | 4732196 | 1938 | 2013 | -0.03 | -0.24 | -0.15 | 0.06 | -0.12 | 0.80 | 4 |
| PIE | 4306 | 349884 | 4732161 | 349857 | 4732158 | 1938 | 2013 | -0.04 | -0.33 | -0.20 | 0.06 | -0.10 | 0.99 | 4 |
| PIE | 4307 | 349890 | 4732112 | 349857 | 4732104 | 1938 | 2013 | -0.10 | -0.28 | -0.20 | 0.10 | -0.19 | 0.00 | 4 |
| PIE | 4308 | 349914 | 4732069 | 349887 | 4732060 | 1938 | 2013 | -0.01 | -0.21 | -0.13 | 0.06 | -0.11 | 0.79 | 4 |
| PIE | 4309 | 349930 | 4732022 | 349905 | 4732013 | 1938 | 2013 | -0.09 | -0.21 | -0.16 | 0.06 | -0.09 | 0.82 | 4 |
| PIE | 4310 | 349949 | 4731976 | 349926 | 4731970 | 1938 | 2013 | -0.18 | -0.28 | -0.24 | 0.06 | -0.03 | 0.34 | 4 |
| PIE | 4311 | 349991 | 4731889 | 349966 | 4731876 | 1938 | 2013 | -0.18 | -0.17 | -0.18 | 0.06 | -0.06 | 0.25 | 4 |
| PIE | 4312 | 350032 | 4731862 | 350009 | 4731841 | 1938 | 2013 | -0.17 | -0.15 | -0.16 | 0.06 | -0.03 | 0.03 | 4 |
| PIE | 4313 | 350097 | 4731805 | 350081 | 4731774 | 1938 | 2013 | -0.36 | 0.05 | -0.13 | 0.13 | -0.01 | 0.00 | 4 |
| PIE | 4314 | 350146 | 4731806 | 350134 | 4731776 | 1938 | 2013 | -0.15 | -0.07 | -0.10 | 0.06 | -0.04 | 0.07 | 4 |
| PIE | 4315 | 350191 | 4731785 | 350178 | 4731755 | 1938 | 2013 | 0.01 | NA | NA | 0.06 | -0.18 | 0.81 | 4 |
| PIE | 4316 | 350236 | 4731763 | 350218 | 4731735 | 1938 | 2013 | -0.09 | -0.12 | -0.11 | 0.06 | -0.17 | 1.00 | 4 |
| PIE | 4317 | 350275 | 4731732 | 350260 | 4731708 | 1938 | 2013 | -0.13 | 0.06 | -0.02 | 0.06 | -0.12 | 0.92 | 4 |
| PIE | 4318 | 350318 | 4731708 | 350302 | 4731680 | 1938 | 2013 | -0.24 | -0.03 | -0.12 | 0.06 | -0.16 | 0.98 | 4 |
| PIE | 4319 | 350358 | 4731677 | 350346 | 4731651 | 1938 | 2013 | -0.09 | -0.12 | -0.10 | 0.06 | -0.12 | 0.95 | 4 |
| PIE | 4320 | 350496 | 4731642 | 350483 | 4731605 | 1938 | 2013 | NA | -0.19 | NA | 0.06 | -0.25 | 0.72 | 4 |
| PIE | 4321 | 350541 | 4731622 | 350525 | 4731587 | 1938 | 2013 | 0.01 | -0.19 | -0.11 | 0.06 | -0.08 | 0.11 | 4 |
| PIE | 4322 | 350572 | 4731587 | 350546 | 4731550 | 1938 | 2013 | 0.00 | -0.16 | -0.09 | 0.06 | -0.06 | 0.09 | 4 |
| PIE | 4323 | 350602 | 4731552 | 350577 | 4731528 | 1938 | 2013 | 0.05 | -0.09 | -0.03 | 0.06 | -0.08 | 0.17 | 4 |
| PIE | 4324 | 350632 | 4731520 | 350608 | 4731498 | 1938 | 2013 | 0.14 | -0.20 | -0.05 | 0.06 | -0.04 | 0.07 | 4 |
| PIE | 4325 | 350660 | 4731483 | 350637 | 4731463 | 1938 | 2013 | 0.33 | -0.29 | -0.02 | 0.06 | 0.00 | 0.00 | 4 |
| PIE | 4326 | 350694 | 4731448 | 350665 | 4731429 | 1938 | 2013 | -0.01 | NA | NA | 0.06 | -0.12 | 0.41 | 4 |
| PIE | 4327 | 351058 | 4731565 | 351067 | 4731599 | 1938 | 2013 | 0.27 | -0.27 | -0.03 | 0.06 | 0.01 | 0.00 | 4 |
| PIE | 4328 | 351014 | 4731587 | 351033 | 4731615 | 1938 | 2013 | 0.00 | -0.31 | -0.17 | 0.06 | 0.09 | 0.20 | 4 |
| PIE | 4329 | 350971 | 4731614 | 350979 | 4731648 | 1938 | 2013 | -0.15 | -0.19 | -0.17 | 0.06 | -0.04 | 0.05 | 4 |
| PIE | 4330 | 350924 | 4731629 | 350925 | 4731673 | 1938 | 2013 | -0.05 | -0.17 | -0.12 | 0.06 | -0.26 | 0.65 | 4 |
| PIE | 4331 | 350878 | 4731615 | 350870 | 4731662 | 1938 | 2013 | -0.11 | -0.20 | -0.16 | 0.06 | -0.27 | 0.54 | 4 |
| PIE | 4332 | 350839 | 4731584 | 350830 | 4731632 | 1938 | 2013 | -0.06 | -0.16 | -0.12 | 0.06 | -0.25 | 0.55 | 4 |
| PIE | 4333 | 350797 | 4731557 | 350796 | 4731601 | 1938 | 2013 | -0.58 | -0.02 | -0.26 | 0.06 | -0.14 | 0.24 | 4 |
| PIE | 4334 | 350750 | 4731561 | 350765 | 4731621 | 1938 | 2013 | -0.55 | 0.26 | -0.10 | 0.06 | -0.11 | 0.07 | 4 |
| PIE | 4335 | 350725 | 4731604 | 350747 | 4731646 | 1938 | 2013 | -0.49 | 0.25 | -0.08 | 0.06 | -0.25 | 0.60 | 4 |
| PIE | 4336 | 350693 | 4731641 | 350721 | 4731681 | 1938 | 2013 | -0.44 | 0.18 | -0.09 | 0.06 | -0.40 | 0.91 | 4 |
| PIE | 4337 | 350654 | 4731672 | 350677 | 4731703 | 1938 | 2013 | -0.36 | 0.19 | -0.05 | 0.06 | -0.25 | 0.97 | 4 |
| PIE | 4338 | 350615 | 4731702 | 350632 | 4731731 | 1938 | 2013 | -0.21 | 0.16 | 0.00 | 0.06 | -0.17 | 0.87 | 4 |
| PIE | 4339 | 350574 | 4731727 | 350593 | 4731757 | 1938 | 2013 | -0.42 | 0.10 | -0.13 | 0.06 | -0.09 | 0.17 | 4 |
| PIE | 4340 | 350533 | 4731756 | 350553 | 4731790 | 1938 | 2013 | NA | NA | 0.01 | 0.06 | -0.14 | 0.29 | 4 |
| PIE | 4341 | 350489 | 4731779 | 350506 | 4731814 | 1938 | 2013 | 0.44 | -0.17 | 0.10 | 0.06 | -0.13 | 0.24 | 4 |
| PIE | 4342 | 350442 | 4731796 | 350457 | 4731828 | 1938 | 2013 | 0.36 | -0.34 | -0.03 | 0.06 | -0.12 | 0.35 | 4 |
| PIE | 4343 | 350395 | 4731810 | 350403 | 4731837 | 1938 | 2013 | 0.13 | -0.54 | -0.25 | 0.06 | -0.11 | 0.87 | 4 |
| PIE | 4344 | 350347 | 4731821 | 350354 | 4731850 | 1938 | 2013 | 0.24 | -0.64 | -0.25 | 0.06 | -0.13 | 0.97 | 4 |
| PIE | 4345 | 350299 | 4731835 | 350306 | 4731869 | 1938 | 2013 | 0.21 | -0.58 | -0.23 | 0.06 | -0.18 | 1.00 | 4 |
| PIE | 4346 | 350250 | 4731845 | 350259 | 4731875 | 1938 | 2013 | 0.37 | -0.52 | -0.13 | 0.06 | -0.13 | 0.99 | 4 |
| PIE | 4347 | 350201 | 4731855 | 350207 | 4731879 | 1938 | 2013 | 0.70 | -0.70 | -0.08 | 0.06 | -0.06 | 1.00 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4348 | 350157 | 4731877 | 350165 | 4731900 | 1938 | 2013 | 0.17 | -0.54 | -0.23 | 0.13 | -0.05 | 0.00 | 4 |
| PIE | 4349 | 350064 | 4731886 | 350077 | 4731904 | 1938 | 2013 | -0.14 | -0.59 | -0.39 | 0.06 | -0.01 | 0.51 | 4 |
| PIE | 4350 | 350025 | 4731917 | 350041 | 4731935 | 1938 | 2013 | -0.17 | -0.31 | -0.25 | 0.06 | -0.04 | 0.64 | 4 |
| PIE | 4351 | 349994 | 4731956 | 350016 | 4731974 | 1938 | 2013 | -0.03 | -0.27 | -0.16 | 0.06 | -0.09 | 0.64 | 4 |
| PIE | 4352 | 349973 | 4732001 | 349992 | 4732015 | 1938 | 2013 | 0.31 | -0.37 | -0.07 | 0.06 | -0.01 | 0.03 | 4 |
| PIE | 4353 | 349952 | 4732046 | 349969 | 4732059 | 1938 | 2013 | 0.30 | -0.45 | -0.12 | 0.06 | -0.01 | 0.48 | 4 |
| PIE | 4354 | 349929 | 4732090 | 349949 | 4732101 | 1938 | 2013 | 0.34 | -0.47 | -0.11 | 0.06 | -0.03 | 0.60 | 4 |
| PIE | 4355 | 349900 | 4732131 | 349925 | 4732140 | 1938 | 2013 | 0.22 | -0.37 | -0.11 | 0.06 | -0.09 | 0.94 | 4 |
| PIE | 4356 | 349893 | 4732179 | 349935 | 4732196 | 1938 | 2013 | -0.19 | -0.04 | -0.11 | 0.06 | -0.07 | 0.89 | 4 |
| PIE | 4357 | 349921 | 4732268 | 349952 | 4732279 | 1938 | 2013 | -0.09 | -0.17 | -0.13 | 0.06 | -0.17 | 0.86 | 4 |
| PIE | 4358 | 349885 | 4732299 | 349923 | 4732307 | 1938 | 2013 | -0.15 | -0.20 | -0.18 | 0.06 | -0.13 | 0.97 | 4 |
| PIE | 4359 | 349864 | 4732343 | 349887 | 4732346 | 1938 | 2013 | -0.16 | -0.12 | -0.14 | 0.06 | -0.04 | 0.54 | 4 |
| PIE | 4360 | 349885 | 4732386 | 349928 | 4732385 | 1938 | 2013 | -0.06 | -0.07 | -0.06 | 0.06 | -0.18 | 0.90 | 4 |
| PIE | 4361 | 349913 | 4732425 | 349943 | 4732414 | 1938 | 2013 | -0.05 | NA | NA | 0.13 | -0.13 | 0.00 | 4 |
| PIE | 4362 | 349917 | 4732509 | 349949 | 4732492 | 1938 | 2013 | 0.01 | -0.04 | -0.01 | 0.06 | -0.19 | 0.99 | 4 |
| PIE | 4363 | 349964 | 4732452 | 349966 | 4732424 | 1938 | 2013 | 0.02 | -0.09 | -0.04 | 0.06 | -0.10 | 0.73 | 4 |
| PIE | 4364 | 350012 | 4732441 | 350008 | 4732417 | 1938 | 2013 | 0.05 | -0.20 | -0.09 | 0.06 | -0.05 | 0.74 | 4 |
| PIE | 4365 | 350058 | 4732422 | 350050 | 4732399 | 1938 | 2013 | 0.06 | -0.06 | 0.00 | 0.06 | -0.07 | 0.95 | 4 |
| PIE | 4366 | 350103 | 4732401 | 350091 | 4732380 | 1938 | 2013 | -0.03 | 0.01 | -0.01 | 0.06 | -0.03 | 0.43 | 4 |
| PIE | 4367 | 350147 | 4732379 | 350131 | 4732361 | 1938 | 2013 | 0.02 | -0.06 | -0.03 | 0.13 | 0.06 | 0.00 | 4 |
| PIE | 4368 | 350192 | 4732358 | 350173 | 4732341 | 1938 | 2013 | -0.13 | -0.05 | -0.09 | 0.06 | -0.06 | 0.85 | 4 |
| PIE | 4369 | 350232 | 4732283 | 350211 | 4732265 | 1938 | 2013 | -0.02 | -0.11 | -0.07 | 0.06 | -0.11 | 0.89 | 4 |
| PIE | 4370 | 350271 | 4732252 | 350252 | 4732237 | 1938 | 2013 | -0.03 | -0.27 | -0.16 | 0.06 | -0.04 | 1.00 | 4 |
| PIE | 4371 | 350311 | 4732223 | 350295 | 4732205 | 1938 | 2013 | -0.08 | -0.16 | -0.13 | 0.06 | -0.02 | 0.13 | 4 |
| PIE | 4372 | 350355 | 4732200 | 350339 | 4732178 | 1938 | 2013 | 0.03 | -0.09 | -0.04 | 0.06 | -0.06 | 0.39 | 4 |
| PIE | 4373 | 350397 | 4732172 | 350383 | 4732153 | 1938 | 2013 | -0.06 | -0.27 | -0.18 | 0.06 | -0.04 | 1.00 | 4 |
| PIE | 4374 | 350440 | 4732147 | 350420 | 4732118 | 1938 | 2013 | -0.13 | NA | NA | 0.06 | -0.05 | 0.06 | 4 |
| PIE | 4375 | 350483 | 4732121 | 350469 | 4732095 | 1938 | 2013 | -0.14 | -0.22 | -0.19 | 0.06 | -0.11 | 0.62 | 4 |
| PIE | 4376 | 350527 | 4732102 | 350517 | 4732077 | 1938 | 2013 | 0.02 | -0.19 | -0.09 | 0.06 | -0.05 | 0.28 | 4 |
| PIE | 4377 | 350574 | 4732090 | 350567 | 4732067 | 1938 | 2013 | 0.01 | -0.10 | -0.05 | 0.06 | -0.04 | 0.87 | 4 |
| PIE | 4378 | 350623 | 4732089 | 350615 | 4732064 | 1938 | 2013 | -0.03 | -0.09 | -0.07 | 0.06 | -0.06 | 0.41 | 4 |
| PIE | 4379 | 350671 | 4732080 | 350663 | 4732055 | 1938 | 2013 | 0.04 | -0.08 | -0.03 | 0.06 | -0.03 | 0.14 | 4 |
| PIE | 4380 | 350718 | 4732065 | 350709 | 4732043 | 1938 | 2013 | 0.06 | NA | NA | 0.06 | -0.04 | 0.54 | 4 |
| PIE | 4381 | 350764 | 4732045 | 350754 | 4732024 | 1938 | 2013 | -0.01 | -0.09 | -0.06 | 0.06 | -0.01 | 0.10 | 4 |
| PIE | 4382 | 350813 | 4732038 | 350797 | 4732007 | 1938 | 2013 | -0.03 | -0.16 | -0.10 | 0.06 | -0.16 | 0.95 | 4 |
| PIE | 4383 | 350861 | 4732028 | 350847 | 4732004 | 1938 | 2013 | -0.04 | -0.05 | -0.04 | 0.06 | -0.10 | 0.72 | 4 |
| PIE | 4384 | 350905 | 4732011 | 350893 | 4731989 | 1938 | 2013 | 0.09 | -0.10 | -0.02 | 0.06 | -0.03 | 0.27 | 4 |
| PIE | 4385 | 350948 | 4731985 | 350939 | 4731967 | 1938 | 2013 | 0.10 | -0.18 | -0.06 | 0.06 | 0.00 | 0.02 | 4 |
| PIE | 4386 | 350995 | 4731970 | 350981 | 4731946 | 1938 | 2013 | -0.04 | -0.04 | -0.04 | 0.06 | 0.09 | 0.99 | 4 |
| PIE | 4387 | 351039 | 4731948 | 351023 | 4731919 | 1938 | 2013 | -0.49 | 0.26 | -0.07 | 0.13 | 0.41 | 0.00 | 4 |
| PIE | 4388 | 351092 | 4731998 | 351100 | 4732037 | 1938 | 2013 | -0.28 | 0.02 | -0.11 | 0.13 | -0.18 | 0.00 | 4 |
| PIE | 4389 | 351044 | 4732011 | 351053 | 4732044 | 1938 | 2013 | -0.20 | 0.06 | -0.05 | 0.06 | -0.20 | 1.00 | 4 |
| PIE | 4390 | 350998 | 4732031 | 351007 | 4732064 | 1938 | 2013 | -0.08 | -0.02 | -0.05 | 0.06 | -0.19 | 0.79 | 4 |
| PIE | 4391 | 350951 | 4732047 | 350961 | 4732079 | 1938 | 2013 | -0.20 | 0.05 | -0.06 | 0.06 | -0.12 | 0.42 | 4 |
| PIE | 4392 | 350903 | 4732060 | 350912 | 4732092 | 1938 | 2013 | -0.19 | 0.09 | -0.04 | 0.06 | -0.11 | 0.39 | 4 |
| PIE | 4393 | 350855 | 4732073 | 350864 | 4732107 | 1938 | 2013 | -0.12 | 0.02 | -0.04 | 0.06 | 0.04 | 0.04 | 4 |
| PIE | 4394 | 350806 | 4732084 | 350816 | 4732118 | 1938 | 2013 | -0.10 | 0.05 | -0.02 | 0.06 | 0.01 | 0.00 | 4 |
| PIE | 4395 | 350758 | 4732096 | 350769 | 4732130 | 1938 | 2013 | -0.24 | -0.11 | -0.16 | 0.06 | 0.03 | 0.02 | 4 |
| PIE | 4396 | 350711 | 4732113 | 350717 | 4732144 | 1938 | 2013 | -0.23 | -0.01 | -0.10 | 0.06 | 0.00 | 0.00 | 4 |
| PIE | 4397 | 350664 | 4732131 | 350669 | 4732161 | 1938 | 2013 | -0.14 | 0.05 | -0.04 | 0.06 | -0.03 | 0.05 | 4 |
| PIE | 4398 | 350614 | 4732135 | 350618 | 4732169 | 1938 | 2013 | 0.01 | 0.00 | 0.00 | 0.06 | 0.03 | 0.03 | 4 |
| PIE | 4399 | 350565 | 4732136 | 350569 | 4732168 | 1938 | 2013 | 0.11 | 0.08 | 0.09 | 0.06 | -0.02 | 0.01 | 4 |
| PIE | 4400 | 350515 | 4732142 | 350527 | 4732177 | 1938 | 2013 | 0.41 | NA | NA | 0.06 | 0.07 | 0.10 | 4 |
| PIE | 4401 | 350468 | 4732158 | 350486 | 4732183 | 1938 | 2013 | -0.18 | NA | NA | 0.06 | 0.02 | 0.01 | 4 |
| PIE | 4402 | 350436 | 4732241 | 350459 | 4732268 | 1938 | 2013 | -0.20 | -0.19 | -0.20 | 0.06 | -0.11 | 0.35 | 4 |
| PIE | 4403 | 350398 | 4732269 | 350420 | 4732294 | 1938 | 2013 | 0.01 | -0.34 | -0.18 | 0.06 | -0.12 | 0.80 | 4 |
| PIE | 4404 | 350351 | 4732285 | 350365 | 4732314 | 1938 | 2013 | 0.17 | -0.34 | -0.11 | 0.06 | -0.15 | 0.69 | 4 |
| PIE | 4405 | 350306 | 4732306 | 350316 | 4732336 | 1938 | 2013 | 0.17 | -0.31 | -0.10 | 0.06 | -0.09 | 0.39 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4406 | 350263 | 4732333 | 350274 | 4732361 | 1938 | 2013 | 0.45 | -0.25 | 0.05 | 0.13 | -0.10 | 0.00 | 4 |
| PIE | 4407 | 350218 | 4732352 | 350229 | 4732377 | 1938 | 2013 | 0.45 | -0.31 | 0.02 | 0.06 | -0.10 | 0.97 | 4 |
| PIE | 4408 | 350175 | 4732375 | 350185 | 4732399 | 1938 | 2013 | 0.45 | -0.27 | 0.05 | 0.06 | -0.02 | 0.04 | 4 |
| PIE | 4409 | 350131 | 4732397 | 350140 | 4732419 | 1938 | 2013 | 0.34 | -0.25 | 0.01 | 0.06 | -0.05 | 0.82 | 4 |
| PIE | 4410 | 350086 | 4732419 | 350094 | 4732440 | 1938 | 2013 | 0.25 | -0.23 | -0.02 | 0.06 | -0.03 | 0.99 | 4 |
| PIE | 4411 | 350041 | 4732441 | 350048 | 4732462 | 1938 | 2013 | 0.43 | -0.25 | 0.05 | 0.06 | -0.01 | 0.16 | 4 |
| PIE | 4412 | 349992 | 4732449 | 350000 | 4732475 | 1938 | 2013 | 0.37 | -0.30 | 0.00 | 0.06 | -0.04 | 0.15 | 4 |
| PIE | 4413 | 349942 | 4732449 | 349950 | 4732483 | 1938 | 2013 | 0.49 | -0.23 | 0.08 | 0.06 | -0.08 | 0.16 | 4 |
| PIE | 4414 | 349952 | 4732535 | 349966 | 4732508 | 1938 | 2013 | 0.34 | -0.22 | 0.03 | 0.06 | -0.13 | 0.87 | 4 |
| PIE | 4415 | 349993 | 4732559 | 350008 | 4732520 | 1938 | 2013 | 0.20 | -0.34 | -0.10 | 0.06 | -0.30 | 0.97 | 4 |
| PIE | 4416 | 350041 | 4732562 | 350053 | 4732528 | 1938 | 2013 | 0.00 | -0.22 | -0.12 | 0.06 | -0.22 | 1.00 | 4 |
| PIE | 4417 | 350087 | 4732580 | 350100 | 4732540 | 1938 | 2013 | 0.05 | -0.29 | -0.14 | 0.06 | -0.29 | 0.98 | 4 |
| PIE | 4418 | 350131 | 4732603 | 350147 | 4732560 | 1938 | 2013 | 0.14 | -0.26 | -0.08 | 0.06 | -0.36 | 1.00 | 4 |
| PIE | 4419 | 350176 | 4732623 | 350191 | 4732584 | 1938 | 2013 | -0.10 | NA | NA | 0.06 | -0.30 | 0.93 | 4 |
| PIE | 4420 | 350219 | 4732648 | 350234 | 4732603 | 1938 | 2013 | -0.07 | -0.13 | -0.10 | 0.06 | -0.37 | 0.98 | 4 |
| PIE | 4421 | 350267 | 4732655 | 350276 | 4732616 | 1938 | 2013 | 0.15 | -0.14 | -0.01 | 0.06 | -0.26 | 0.98 | 4 |
| PIE | 4422 | 350317 | 4732655 | 350320 | 4732618 | 1938 | 2013 | 0.00 | -0.09 | -0.05 | 0.06 | -0.20 | 0.68 | 4 |
| PIE | 4423 | 350366 | 4732655 | 350366 | 4732619 | 1938 | 2013 | -0.02 | -0.04 | -0.03 | 0.06 | -0.10 | 0.23 | 4 |
| PIE | 4424 | 350415 | 4732650 | 350412 | 4732614 | 1938 | 2013 | 0.05 | -0.06 | -0.01 | 0.06 | -0.09 | 0.15 | 4 |
| PIE | 4425 | 350463 | 4732643 | 350458 | 4732608 | 1938 | 2013 | 0.14 | -0.17 | -0.03 | 0.06 | -0.04 | 0.04 | 4 |
| PIE | 4426 | 350511 | 4732631 | 350505 | 4732600 | 1938 | 2013 | 0.31 | -0.37 | -0.07 | 0.06 | -0.08 | 0.26 | 4 |
| PIE | 4427 | 350560 | 4732624 | 350552 | 4732590 | 1938 | 2013 | -0.24 | -0.06 | -0.14 | 0.06 | -0.09 | 0.22 | 4 |
| PIE | 4428 | 350609 | 4732613 | 350598 | 4732578 | 1938 | 2013 | -0.19 | -0.38 | -0.29 | 0.06 | -0.17 | 0.54 | 4 |
| PIE | 4429 | 350656 | 4732598 | 350646 | 4732567 | 1938 | 2013 | -0.19 | -0.23 | -0.21 | 0.06 | -0.11 | 0.39 | 4 |
| PIE | 4430 | 350701 | 4732576 | 350690 | 4732548 | 1938 | 2013 | -0.37 | -0.24 | -0.30 | 0.06 | -0.07 | 0.25 | 4 |
| PIE | 4431 | 350744 | 4732555 | 350730 | 4732524 | 1938 | 2013 | -0.31 | -0.40 | -0.36 | 0.06 | 0.01 | 0.00 | 4 |
| PIE | 4432 | 350786 | 4732532 | 350773 | 4732507 | 1938 | 2013 | -0.13 | -0.42 | -0.29 | 0.06 | -0.06 | 0.38 | 4 |
| PIE | 4433 | 350830 | 4732509 | 350814 | 4732481 | 1938 | 2013 | -0.26 | -0.45 | -0.37 | 0.06 | -0.16 | 0.76 | 4 |
| PIE | 4434 | 350871 | 4732483 | 350853 | 4732455 | 1938 | 2013 | -0.18 | -0.32 | -0.26 | 0.06 | -0.18 | 0.93 | 4 |
| PIE | 4435 | 350910 | 4732452 | 350889 | 4732424 | 1938 | 2013 | 0.08 | -0.41 | -0.19 | 0.06 | -0.21 | 0.92 | 4 |
| PIE | 4436 | 350949 | 4732421 | 350924 | 4732390 | 1938 | 2013 | 0.27 | -0.37 | -0.09 | 0.06 | -0.26 | 1.00 | 4 |
| PIE | 4437 | 350983 | 4732385 | 350957 | 4732359 | 1938 | 2013 | 0.34 | -0.40 | -0.07 | 0.06 | -0.23 | 1.00 | 4 |
| PIE | 4438 | 351010 | 4732343 | 350980 | 4732323 | 1938 | 2013 | 0.38 | -0.35 | -0.03 | 0.06 | -0.13 | 0.44 | 4 |
| PIE | 4439 | 351043 | 4732306 | 351003 | 4732283 | 1938 | 2013 | 0.19 | -0.27 | -0.07 | 0.06 | 0.13 | 0.15 | 4 |
| PIE | 4440 | 351073 | 4732266 | 351010 | 4732241 | 1938 | 2013 | 0.26 | -0.35 | -0.08 | 0.06 | 0.33 | 0.28 | 4 |
| PIE | 4441 | 351096 | 4732222 | 351023 | 4732203 | 1938 | 2013 | 0.15 | -0.40 | -0.16 | 0.06 | 0.51 | 0.45 | 4 |
| PIE | 4442 | 351114 | 4732175 | 351035 | 4732154 | 1938 | 2013 | 0.17 | -0.31 | -0.10 | 0.06 | 0.57 | 0.45 | 4 |
| PIE | 4443 | 351117 | 4732125 | 351044 | 4732113 | 1938 | 2013 | 0.16 | -0.23 | -0.06 | 0.06 | 0.53 | 0.48 | 4 |
| PIE | 4444 | 351124 | 4732076 | 351057 | 4732077 | 1938 | 2013 | 0.40 | -0.27 | 0.03 | 0.06 | 0.31 | 0.27 | 4 |
| PIE | 4445 | 351137 | 4732028 | 351079 | 4732041 | 1938 | 2013 | 0.10 | -0.18 | -0.06 | 0.06 | -0.52 | 0.99 | 4 |
| PIE | 4446 | 351070 | 4731911 | 351015 | 4731918 | 1938 | 2013 | 0.02 | -0.29 | -0.15 | 0.06 | -0.24 | 0.27 | 4 |
| PIE | 4447 | 351092 | 4731867 | 351047 | 4731863 | 1938 | 2013 | -0.08 | -0.26 | -0.18 | 0.06 | -0.32 | 0.96 | 4 |
| PIE | 4448 | 351114 | 4731823 | 351063 | 4731810 | 1938 | 2013 | -0.09 | -0.30 | -0.21 | 0.06 | -0.45 | 0.98 | 4 |
| PIE | 4449 | 351131 | 4731776 | 351059 | 4731766 | 1938 | 2013 | -0.27 | -0.25 | -0.26 | 0.06 | -0.70 | 0.85 | 4 |
| PIE | 4450 | 351143 | 4731728 | 351085 | 4731725 | 1938 | 2013 | -0.22 | -0.24 | -0.23 | 0.06 | -0.53 | 0.84 | 4 |
| PIE | 4451 | 351155 | 4731680 | 351079 | 4731687 | 1938 | 2013 | 0.17 | -0.34 | -0.12 | 0.06 | -0.76 | 0.93 | 4 |
| PIE | 4452 | 351155 | 4731630 | 351072 | 4731657 | 1938 | 2013 | 0.79 | -0.34 | 0.16 | 0.06 | -0.76 | 0.88 | 4 |
| PIE | 4453 | 351147 | 4731582 | 351078 | 4731614 | 1938 | 2013 | 1.44 | -0.46 | 0.37 | 0.06 | -0.43 | 0.32 | 4 |
| PIE | 4454 | 351541 | 4736172 | 351512 | 4736187 | 1938 | 2013 | -0.11 | NA | NA | 0.13 | -0.11 | 0.00 | 5 |
| PIE | 4455 | 351524 | 4736126 | 351495 | 4736139 | 1938 | 2013 | -0.11 | -0.18 | -0.15 | 0.06 | -0.15 | 0.98 | 5 |
| PIE | 4456 | 351502 | 4736081 | 351477 | 4736093 | 1938 | 2013 | 0.02 | -0.18 | -0.09 | 0.06 | -0.10 | 0.75 | 5 |
| PIE | 4457 | 351478 | 4736037 | 351455 | 4736046 | 1938 | 2013 | 0.16 | -0.12 | 0.00 | 0.06 | 0.00 | 0.00 | 5 |
| PIE | 4458 | 351454 | 4735993 | 351430 | 4736002 | 1938 | 2013 | 0.06 | -0.14 | -0.06 | 0.06 | -0.06 | 0.52 | 5 |
| PIE | 4459 | 351432 | 4735949 | 351399 | 4735957 | 1938 | 2013 | 0.12 | -0.34 | -0.14 | 0.06 | -0.15 | 0.57 | 5 |
| PIE | 4460 | 351415 | 4735902 | 351385 | 4735906 | 1938 | 2013 | 0.28 | -0.16 | 0.03 | 0.06 | 0.02 | 0.03 | 5 |
| PIE | 4461 | 351401 | 4735854 | 351370 | 4735855 | 1938 | 2013 | 0.32 | -0.16 | 0.05 | 0.06 | 0.04 | 0.09 | 5 |
| PIE | 4462 | 351395 | 4735804 | 351369 | 4735807 | 1938 | 2013 | 0.20 | -0.10 | 0.03 | 0.06 | 0.02 | 0.07 | 5 |
| PIE | 4463 | 351394 | 4735754 | 351364 | 4735752 | 1938 | 2013 | 0.31 | -0.13 | 0.06 | 0.06 | 0.05 | 0.16 | 5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4464 | 351399 | 4735706 | 351362 | 4735707 | 1938 | 2013 | 0.01 | -0.32 | -0.18 | 0.06 | -0.18 | 0.79 | 5 |
| PIE | 4465 | 351402 | 4735657 | 351373 | 4735657 | 1938 | 2013 | 0.16 | -0.22 | -0.05 | 0.06 | -0.06 | 0.24 | 5 |
| PIE | 4466 | 351419 | 4735610 | 351385 | 4735607 | 1938 | 2013 | 0.44 | -0.21 | 0.08 | 0.06 | 0.07 | 0.11 | 5 |
| PIE | 4467 | 351436 | 4735563 | 351403 | 4735555 | 1938 | 2013 | 0.38 | -0.19 | 0.06 | 0.06 | 0.05 | 0.10 | 5 |
| PIE | 4468 | 351448 | 4735515 | 351406 | 4735509 | 1938 | 2013 | 0.52 | -0.29 | 0.07 | 0.06 | 0.05 | 0.05 | 5 |
| PIE | 4469 | 351465 | 4735468 | 351431 | 4735462 | 1938 | 2013 | 0.38 | -0.20 | 0.05 | 0.06 | 0.04 | 0.06 | 5 |
| PIE | 4470 | 351471 | 4735419 | 351434 | 4735411 | 1938 | 2013 | 0.18 | NA | NA | 0.13 | 0.18 | 0.00 | 5 |
| PIE | 4471 | 351456 | 4735374 | 351427 | 4735371 | 1938 | 2013 | 0.16 | -0.17 | -0.03 | 0.06 | -0.03 | 0.11 | 5 |
| PIE | 4472 | 351462 | 4735325 | 351423 | 4735331 | 1938 | 2013 | 0.18 | -0.39 | -0.14 | 0.06 | -0.15 | 0.47 | 5 |
| PIE | 4473 | 351460 | 4735276 | 351430 | 4735292 | 1938 | 2013 | -0.07 | -0.25 | -0.17 | 0.06 | -0.17 | 0.92 | 5 |
| PIE | 4474 | 351445 | 4735229 | 351417 | 4735266 | 1938 | 2013 | -0.11 | -0.47 | -0.31 | 0.06 | -0.32 | 0.91 | 5 |
| PIE | 4475 | 351406 | 4735219 | 351400 | 4735267 | 1938 | 2013 | -0.40 | -0.29 | -0.34 | 0.06 | -0.34 | 0.99 | 5 |
| PIE | 4476 | 351364 | 4735234 | 351376 | 4735282 | 1938 | 2013 | -0.53 | -0.20 | -0.34 | 0.06 | -0.34 | 0.93 | 5 |
| PIE | 4477 | 351327 | 4735262 | 351348 | 4735313 | 1938 | 2013 | -0.61 | -0.14 | -0.35 | 0.06 | -0.34 | 0.87 | 5 |
| PIE | 4478 | 351288 | 4735291 | 351321 | 4735342 | 1938 | 2013 | -0.71 | -0.25 | -0.45 | 0.06 | -0.44 | 0.92 | 5 |
| PIE | 4479 | 351247 | 4735313 | 351280 | 4735352 | 1938 | 2013 | -0.59 | -0.20 | -0.37 | 0.06 | -0.36 | 0.91 | 5 |
| PIE | 4480 | 351207 | 4735335 | 351242 | 4735367 | 1938 | 2013 | -0.31 | -0.40 | -0.36 | 0.06 | -0.36 | 1.00 | 5 |
| PIE | 4481 | 351176 | 4735371 | 351207 | 4735397 | 1938 | 2013 | 0.60 | -0.22 | 0.14 | 0.06 | 0.12 | 0.22 | 5 |
| PIE | 4482 | 351140 | 4735405 | 351169 | 4735424 | 1938 | 2013 | 0.41 | -0.12 | 0.11 | 0.06 | 0.10 | 0.32 | 5 |
| PIE | 4483 | 351104 | 4735440 | 351132 | 4735460 | 1938 | 2013 | 0.40 | -0.19 | 0.07 | 0.06 | 0.06 | 0.10 | 5 |
| PIE | 4484 | 351071 | 4735476 | 351103 | 4735501 | 1938 | 2013 | 0.63 | -0.43 | 0.04 | 0.06 | 0.02 | 0.00 | 5 |
| PIE | 4485 | 351043 | 4735517 | 351070 | 4735549 | 1938 | 2013 | 0.65 | -0.48 | 0.01 | 0.06 | -0.01 | 0.00 | 5 |
| PIE | 4486 | 351014 | 4735558 | 351039 | 4735589 | 1938 | 2013 | 0.53 | -0.33 | 0.05 | 0.06 | 0.03 | 0.01 | 5 |
| PIE | 4487 | 350936 | 4735612 | 350952 | 4735643 | 1938 | 2013 | -0.23 | -0.15 | -0.18 | 0.06 | -0.18 | 0.98 | 5 |
| PIE | 4488 | 350899 | 4735644 | 350918 | 4735682 | 1938 | 2013 | -0.55 | -0.10 | -0.30 | 0.06 | -0.29 | 0.84 | 5 |
| PIE | 4489 | 350863 | 4735679 | 350887 | 4735706 | 1938 | 2013 | -0.27 | -0.16 | -0.21 | 0.06 | -0.21 | 0.98 | 5 |
| PIE | 4490 | 350828 | 4735714 | 350848 | 4735739 | 1938 | 2013 | 0.19 | -0.11 | 0.02 | 0.06 | 0.02 | 0.04 | 5 |
| PIE | 4491 | 350796 | 4735752 | 350814 | 4735776 | 1938 | 2013 | 0.14 | -0.23 | -0.07 | 0.06 | -0.07 | 0.35 | 5 |
| PIE | 4492 | 350753 | 4735776 | 350768 | 4735796 | 1938 | 2013 | -0.16 | 0.09 | -0.02 | 0.06 | -0.02 | 0.05 | 5 |
| PIE | 4493 | 350713 | 4735805 | 350726 | 4735826 | 1938 | 2013 | 0.06 | -0.13 | -0.05 | 0.06 | -0.05 | 0.46 | 5 |
| PIE | 4494 | 350668 | 4735827 | 350684 | 4735860 | 1938 | 2013 | 0.45 | -0.39 | -0.02 | 0.06 | -0.04 | 0.02 | 5 |
| PIE | 4495 | 350624 | 4735847 | 350635 | 4735880 | 1938 | 2013 | 0.39 | -0.27 | 0.02 | 0.06 | 0.00 | 0.00 | 5 |
| PIE | 4496 | 350579 | 4735870 | 350593 | 4735897 | 1938 | 2013 | 0.33 | -0.26 | 0.00 | 0.06 | -0.01 | 0.00 | 5 |
| PIE | 4497 | 350532 | 4735886 | 350542 | 4735908 | 1938 | 2013 | 0.04 | -0.07 | -0.02 | 0.06 | -0.02 | 0.39 | 5 |
| PIE | 4498 | 350483 | 4735896 | 350496 | 4735931 | 1938 | 2013 | 0.51 | -0.41 | 0.00 | 0.06 | -0.02 | 0.01 | 5 |
| PIE | 4499 | 350434 | 4735905 | 350443 | 4735947 | 1938 | 2013 | 0.71 | -0.43 | 0.07 | 0.06 | 0.05 | 0.02 | 5 |
| PIE | 4500 | 350384 | 4735906 | 350398 | 4735952 | 1938 | 2013 | 0.84 | -0.60 | 0.04 | 0.06 | 0.01 | 0.00 | 5 |
| PIE | 4501 | 350335 | 4735914 | 350338 | 4735968 | 1938 | 2013 | 1.03 | -0.65 | 0.09 | 0.06 | 0.05 | 0.01 | 5 |
| PIE | 4502 | 350286 | 4735927 | 350288 | 4735971 | 1938 | 2013 | 0.39 | -0.59 | -0.16 | 0.06 | -0.18 | 0.29 | 5 |
| PIE | 4503 | 350238 | 4735931 | 350239 | 4735970 | 1938 | 2013 | 0.28 | -0.44 | -0.12 | 0.06 | -0.14 | 0.32 | 5 |
| PIE | 4504 | 350188 | 4735936 | 350194 | 4735972 | 1938 | 2013 | 0.28 | -0.36 | -0.08 | 0.06 | -0.09 | 0.21 | 5 |
| PIE | 4505 | 350139 | 4735940 | 350142 | 4735975 | 1938 | 2013 | 0.19 | -0.34 | -0.11 | 0.06 | -0.12 | 0.38 | 5 |
| PIE | 4506 | 350090 | 4735948 | 350097 | 4735979 | 1938 | 2013 | -0.35 | 0.03 | -0.14 | 0.06 | -0.13 | 0.61 | 5 |
| PIE | 4507 | 350040 | 4735955 | 350050 | 4735987 | 1938 | 2013 | -0.31 | -0.08 | -0.18 | 0.06 | -0.18 | 0.89 | 5 |
| PIE | 4508 | 349991 | 4735966 | 350001 | 4735995 | 1938 | 2013 | -0.14 | -0.15 | -0.15 | 0.06 | -0.15 | 1.00 | 5 |
| PIE | 4509 | 349943 | 4735979 | 349953 | 4736010 | 1938 | 2013 | -0.06 | -0.24 | -0.16 | 0.06 | -0.17 | 0.92 | 5 |
| PIE | 4510 | 349894 | 4735989 | 349907 | 4736025 | 1938 | 2013 | 0.20 | -0.43 | -0.15 | 0.06 | -0.17 | 0.47 | 5 |
| PIE | 4511 | 349846 | 4736003 | 349861 | 4736042 | 1938 | 2013 | 0.38 | -0.53 | -0.13 | 0.06 | -0.15 | 0.25 | 5 |
| PIE | 4512 | 349799 | 4736020 | 349813 | 4736060 | 1938 | 2013 | 0.36 | -0.55 | -0.15 | 0.06 | -0.17 | 0.30 | 5 |
| PIE | 4513 | 349754 | 4736041 | 349768 | 4736076 | 1938 | 2013 | 0.27 | -0.43 | -0.12 | 0.06 | -0.14 | 0.32 | 5 |
| PIE | 4514 | 349707 | 4736056 | 349719 | 4736095 | 1938 | 2013 | 0.44 | -0.48 | -0.08 | 0.06 | -0.10 | 0.12 | 5 |
| PIE | 4515 | 349659 | 4736072 | 349670 | 4736109 | 1938 | 2013 | 0.40 | -0.44 | -0.07 | 0.06 | -0.09 | 0.12 | 5 |
| PIE | 4516 | 349612 | 4736088 | 349620 | 4736121 | 1938 | 2013 | 0.36 | -0.34 | -0.03 | 0.06 | -0.05 | 0.05 | 5 |
| PIE | 4517 | 349564 | 4736100 | 349570 | 4736134 | 1938 | 2013 | 0.39 | -0.35 | -0.03 | 0.06 | -0.04 | 0.04 | 5 |
| PIE | 4518 | 349516 | 4736114 | 349518 | 4736144 | 1938 | 2013 | 0.16 | -0.23 | -0.06 | 0.06 | -0.06 | 0.24 | 5 |
| PIE | 4519 | 349466 | 4736119 | 349469 | 4736150 | 1938 | 2013 | 0.29 | -0.25 | -0.01 | 0.06 | -0.02 | 0.02 | 5 |
| PIE | 4520 | 349417 | 4736128 | 349419 | 4736159 | 1938 | 2013 | 0.23 | -0.26 | -0.05 | 0.06 | -0.06 | 0.14 | 5 |
| PIE | 4521 | 349367 | 4736135 | 349369 | 4736160 | 1938 | 2013 | 0.08 | -0.12 | -0.03 | 0.06 | -0.03 | 0.26 | 5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4522 | 349317 | 4736135 | 349318 | 4736160 | 1938 | 2013 | 0.08 | -0.12 | -0.03 | 0.06 | -0.04 | 0.27 | 5 |
| PIE | 4523 | 349268 | 4736136 | 349268 | 4736158 | 1938 | 2013 | -0.05 | -0.01 | -0.03 | 0.06 | -0.03 | 0.85 | 5 |
| PIE | 4524 | 349218 | 4736135 | 349217 | 4736156 | 1938 | 2013 | 0.00 | 0.03 | 0.01 | 0.06 | 0.01 | 0.75 | 5 |
| PIE | 4525 | 349169 | 4736134 | 349169 | 4736159 | 1938 | 2013 | -0.13 | 0.08 | -0.01 | 0.06 | -0.01 | 0.02 | 5 |
| PIE | 4526 | 349119 | 4736132 | 349120 | 4736160 | 1938 | 2013 | -0.15 | 0.17 | 0.03 | 0.06 | 0.04 | 0.14 | 5 |
| PIE | 4527 | 349070 | 4736139 | 349073 | 4736168 | 1938 | 2013 | 0.15 | 0.09 | 0.11 | 0.06 | 0.11 | 0.98 | 5 |
| PIE | 4528 | 349022 | 4736148 | 349025 | 4736176 | 1938 | 2013 | 0.13 | 0.10 | 0.12 | 0.06 | 0.11 | 1.00 | 5 |
| PIE | 4529 | 348972 | 4736150 | 348975 | 4736188 | 1938 | 2013 | 0.33 | 0.17 | 0.24 | 0.06 | 0.23 | 0.96 | 5 |
| PIE | 4530 | 348922 | 4736151 | 348921 | 4736206 | 1938 | 2013 | 0.90 | 0.13 | 0.47 | 0.06 | 0.45 | 0.81 | 5 |
| PIE | 4531 | 348874 | 4736142 | 348874 | 4736190 | 1938 | 2013 | 0.12 | 0.46 | 0.31 | 0.06 | 0.32 | 0.92 | 5 |
| PIE | 4532 | 348828 | 4736125 | 348827 | 4736157 | 1938 | 2013 | -0.30 | 0.21 | -0.01 | 0.06 | 0.00 | 0.00 | 5 |
| PIE | 4533 | 348784 | 4736145 | 348782 | 4736174 | 1938 | 2013 | 0.04 | -0.16 | -0.07 | 0.06 | -0.07 | 0.63 | 5 |
| PIE | 4534 | 348735 | 4736151 | 348739 | 4736182 | 1938 | 2013 | -0.19 | -0.12 | -0.15 | 0.06 | -0.15 | 0.98 | 5 |
| PIE | 4535 | 348686 | 4736154 | 348692 | 4736180 | 1938 | 2013 | -0.08 | -0.09 | -0.09 | 0.06 | -0.09 | 1.00 | 5 |
| PIE | 4536 | 348637 | 4736165 | 348646 | 4736190 | 1938 | 2013 | 0.02 | -0.18 | -0.09 | 0.06 | -0.10 | 0.75 | 5 |
| PIE | 4537 | 348590 | 4736183 | 348601 | 4736215 | 1938 | 2013 | 0.07 | -0.32 | -0.15 | 0.06 | -0.16 | 0.67 | 5 |
| PIE | 4538 | 348446 | 4736213 | 348450 | 4736245 | 1938 | 2013 | -0.21 | NA | NA | 0.13 | -0.21 | 0.00 | 5 |
| PIE | 4539 | 348396 | 4736216 | 348394 | 4736249 | 1938 | 2013 | -0.28 | -0.11 | -0.18 | 0.06 | -0.18 | 0.93 | 5 |
| PIE | 4540 | 348346 | 4736213 | 348344 | 4736247 | 1938 | 2013 | -0.31 | -0.08 | -0.18 | 0.06 | -0.17 | 0.87 | 5 |
| PIE | 4541 | 348297 | 4736208 | 348293 | 4736239 | 1938 | 2013 | -0.31 | -0.04 | -0.16 | 0.06 | -0.16 | 0.81 | 5 |
| PIE | 4542 | 348247 | 4736211 | 348245 | 4736237 | 1938 | 2013 | -0.18 | -0.01 | -0.08 | 0.06 | -0.08 | 0.74 | 5 |
| PIE | 4543 | 348197 | 4736210 | 348194 | 4736235 | 1938 | 2013 | -0.16 | 0.03 | -0.05 | 0.06 | -0.05 | 0.44 | 5 |
| PIE | 4544 | 348148 | 4736211 | 348146 | 4736242 | 1938 | 2013 | -0.32 | 0.10 | -0.09 | 0.06 | -0.08 | 0.30 | 5 |
| PIE | 4545 | 348099 | 4736199 | 348096 | 4736232 | 1938 | 2013 | -0.34 | -0.03 | -0.17 | 0.06 | -0.16 | 0.77 | 5 |
| PIE | 4546 | 348049 | 4736194 | 348045 | 4736224 | 1938 | 2013 | -0.30 | 0.03 | -0.11 | 0.06 | -0.11 | 0.56 | 5 |
| PIE | 4547 | 348001 | 4736187 | 347992 | 4736218 | 1938 | 2013 | -0.37 | 0.21 | -0.05 | 0.06 | -0.04 | 0.05 | 5 |
| PIE | 4548 | 347955 | 4736166 | 347943 | 4736199 | 1938 | 2013 | -0.46 | 0.28 | -0.05 | 0.06 | -0.03 | 0.02 | 5 |
| PIE | 4549 | 347913 | 4736139 | 347896 | 4736173 | 1938 | 2013 | -0.55 | 0.34 | -0.05 | 0.06 | -0.03 | 0.02 | 5 |
| PIE | 4550 | 347872 | 4736111 | 347853 | 4736140 | 1938 | 2013 | -0.46 | 0.32 | -0.02 | 0.06 | -0.01 | 0.00 | 5 |
| PIE | 4551 | 347834 | 4736079 | 347810 | 4736113 | 1938 | 2013 | -0.64 | 0.30 | -0.11 | 0.06 | -0.09 | 0.11 | 5 |
| PIE | 4552 | 347794 | 4736051 | 347772 | 4736084 | 1938 | 2013 | -0.61 | 0.23 | -0.14 | 0.06 | -0.12 | 0.20 | 5 |
| PIE | 4553 | 347754 | 4736021 | 347733 | 4736055 | 1938 | 2013 | -0.63 | 0.10 | -0.22 | 0.06 | -0.20 | 0.49 | 5 |
| PIE | 4554 | 347712 | 4735994 | 347689 | 4736032 | 1938 | 2013 | -0.74 | 0.05 | -0.30 | 0.06 | -0.28 | 0.61 | 5 |
| PIE | 4555 | 347667 | 4735973 | 347648 | 4736010 | 1938 | 2013 | -0.68 | 0.10 | -0.24 | 0.06 | -0.23 | 0.51 | 5 |
| PIE | 4556 | 347620 | 4735955 | 347605 | 4735988 | 1938 | 2013 | -0.48 | 0.11 | -0.15 | 0.06 | -0.14 | 0.42 | 5 |
| PIE | 4557 | 347578 | 4735930 | 347561 | 4735970 | 1938 | 2013 | -0.40 | 0.53 | 0.12 | 0.06 | 0.14 | 0.21 | 5 |
| PIE | 4558 | 347532 | 4735924 | 347518 | 4735957 | 1938 | 2013 | -0.40 | 0.33 | 0.01 | 0.06 | 0.02 | 0.01 | 5 |
| PIE | 4559 | 347485 | 4735907 | 347470 | 4735940 | 1938 | 2013 | -0.50 | 0.35 | -0.02 | 0.06 | 0.00 | 0.00 | 5 |
| PIE | 4560 | 347440 | 4735886 | 347418 | 4735917 | 1938 | 2013 | -0.55 | 0.40 | -0.02 | 0.06 | 0.00 | 0.00 | 5 |
| PIE | 4561 | 347397 | 4735861 | 347370 | 4735887 | 1938 | 2013 | -0.51 | 0.38 | -0.01 | 0.06 | 0.01 | 0.00 | 5 |
| PIE | 4562 | 347362 | 4735826 | 347331 | 4735852 | 1938 | 2013 | -0.62 | NA | NA | 0.13 | -0.62 | 0.00 | 5 |
| PIE | 4563 | 347339 | 4735782 | 347305 | 4735810 | 1938 | 2013 | -0.70 | 0.45 | -0.05 | 0.06 | -0.03 | 0.01 | 5 |
| PIE | 4564 | 347379 | 4735390 | 347407 | 4735357 | 1938 | 2013 | 0.33 | -0.55 | -0.17 | 0.06 | -0.18 | 0.35 | 5 |
| PIE | 4565 | 347416 | 4735423 | 347447 | 4735396 | 1938 | 2013 | 0.25 | -0.49 | -0.17 | 0.06 | -0.18 | 0.43 | 5 |
| PIE | 4566 | 347448 | 4735461 | 347481 | 4735441 | 1938 | 2013 | 0.15 | -0.45 | -0.18 | 0.06 | -0.20 | 0.57 | 5 |
| PIE | 4567 | 347470 | 4735506 | 347504 | 4735489 | 1938 | 2013 | 0.19 | -0.42 | -0.15 | 0.06 | -0.16 | 0.46 | 5 |
| PIE | 4568 | 347491 | 4735551 | 347526 | 4735536 | 1938 | 2013 | 0.30 | -0.42 | -0.10 | 0.06 | -0.11 | 0.24 | 5 |
| PIE | 4569 | 347511 | 4735597 | 347547 | 4735584 | 1938 | 2013 | 0.22 | -0.44 | -0.15 | 0.06 | -0.16 | 0.43 | 5 |
| PIE | 4570 | 347526 | 4735644 | 347561 | 4735632 | 1938 | 2013 | 0.28 | -0.39 | -0.09 | 0.06 | -0.11 | 0.24 | 5 |
| PIE | 4571 | 347545 | 4735690 | 347577 | 4735678 | 1938 | 2013 | 0.23 | -0.33 | -0.08 | 0.06 | -0.10 | 0.26 | 5 |
| PIE | 4572 | 347559 | 4735738 | 347592 | 4735726 | 1938 | 2013 | 0.29 | -0.38 | -0.09 | 0.06 | -0.10 | 0.21 | 5 |
| PIE | 4573 | 347577 | 4735785 | 347609 | 4735769 | 1938 | 2013 | 0.37 | -0.38 | -0.05 | 0.06 | -0.06 | 0.09 | 5 |
| PIE | 4574 | 347599 | 4735829 | 347629 | 4735810 | 1938 | 2013 | 0.41 | -0.35 | -0.02 | 0.06 | -0.03 | 0.02 | 5 |
| PIE | 4575 | 347629 | 4735869 | 347654 | 4735847 | 1938 | 2013 | 0.41 | -0.32 | 0.00 | 0.06 | -0.01 | 0.00 | 5 |
| PIE | 4576 | 347664 | 4735905 | 347685 | 4735880 | 1938 | 2013 | 0.41 | -0.25 | 0.04 | 0.06 | 0.03 | 0.02 | 5 |
| PIE | 4577 | 347702 | 4735937 | 347721 | 4735908 | 1938 | 2013 | 0.44 | -0.27 | 0.04 | 0.06 | 0.03 | 0.02 | 5 |
| PIE | 4578 | 347745 | 4735962 | 347767 | 4735928 | 1938 | 2013 | 0.61 | -0.31 | 0.09 | 0.06 | 0.07 | 0.08 | 5 |
| PIE | 4579 | 347791 | 4735983 | 347812 | 4735946 | 1938 | 2013 | 0.69 | -0.39 | 0.08 | 0.06 | 0.06 | 0.04 | 5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4580 | 347835 | 4736006 | 347854 | 4735972 | 1938 | 2013 | 0.58 | -0.30 | 0.09 | 0.06 | 0.07 | 0.08 | 5 |
| PIE | 4581 | 347877 | 4736032 | 347893 | 4736005 | 1938 | 2013 | 0.34 | -0.26 | 0.00 | 0.06 | -0.01 | 0.00 | 5 |
| PIE | 4582 | 347916 | 4736064 | 347933 | 4736029 | 1938 | 2013 | 0.54 | -0.42 | 0.00 | 0.06 | -0.02 | 0.00 | 5 |
| PIE | 4583 | 347959 | 4736088 | 347974 | 4736053 | 1938 | 2013 | 0.55 | -0.42 | 0.01 | 0.06 | -0.01 | 0.00 | 5 |
| PIE | 4584 | 348005 | 4736108 | 348019 | 4736064 | 1938 | 2013 | 0.79 | -0.45 | 0.10 | 0.06 | 0.07 | 0.04 | 5 |
| PIE | 4585 | 348052 | 4736125 | 348064 | 4736074 | 1938 | 2013 | 0.99 | -0.36 | 0.23 | 0.06 | 0.20 | 0.22 | 5 |
| PIE | 4586 | 348101 | 4736136 | 348108 | 4736085 | 1938 | 2013 | 0.97 | -0.33 | 0.24 | 0.06 | 0.22 | 0.26 | 5 |
| PIE | 4587 | 348150 | 4736140 | 348157 | 4736093 | 1938 | 2013 | 0.86 | -0.36 | 0.17 | 0.06 | 0.15 | 0.16 | 5 |
| PIE | 4588 | 348200 | 4736145 | 348205 | 4736095 | 1938 | 2013 | 0.90 | -0.39 | 0.18 | 0.06 | 0.16 | 0.16 | 5 |
| PIE | 4589 | 348250 | 4736149 | 348252 | 4736099 | 1938 | 2013 | 0.91 | -0.47 | 0.14 | 0.06 | 0.11 | 0.07 | 5 |
| PIE | 4590 | 348300 | 4736145 | 348298 | 4736104 | 1938 | 2013 | 0.67 | -0.37 | 0.09 | 0.06 | 0.07 | 0.05 | 5 |
| PIE | 4591 | 348349 | 4736137 | 348345 | 4736103 | 1938 | 2013 | 0.42 | -0.31 | 0.01 | 0.06 | 0.00 | 0.00 | 5 |
| PIE | 4592 | 348397 | 4736124 | 348392 | 4736096 | 1938 | 2013 | 0.27 | -0.19 | 0.01 | 0.06 | 0.00 | 0.00 | 5 |
| PIE | 4593 | 348445 | 4736110 | 348438 | 4736080 | 1938 | 2013 | 0.30 | -0.21 | 0.02 | 0.06 | 0.01 | 0.00 | 5 |
| PIE | 4594 | 348493 | 4736097 | 348485 | 4736066 | 1938 | 2013 | 0.37 | -0.19 | 0.05 | 0.06 | 0.04 | 0.07 | 5 |
| PIE | 4595 | 348543 | 4736090 | 348531 | 4736050 | 1938 | 2013 | 0.66 | -0.25 | 0.15 | 0.06 | 0.13 | 0.20 | 5 |
| PIE | 4596 | 348592 | 4736084 | 348581 | 4736039 | 1938 | 2013 | 0.81 | -0.26 | 0.21 | 0.06 | 0.19 | 0.27 | 5 |
| PIE | 4597 | 348640 | 4736071 | 348630 | 4736028 | 1938 | 2013 | 0.65 | -0.09 | 0.24 | 0.06 | 0.22 | 0.53 | 5 |
| PIE | 4598 | 348683 | 4736051 | 348671 | 4736015 | 1938 | 2013 | 0.04 | 0.39 | 0.23 | 0.06 | 0.24 | 0.86 | 5 |
| PIE | 4599 | 348728 | 4736033 | 348717 | 4735997 | 1938 | 2013 | -0.05 | 0.39 | 0.20 | 0.06 | 0.21 | 0.73 | 5 |
| PIE | 4600 | 348772 | 4736054 | 348756 | 4735977 | 1938 | 2013 | 1.73 | -0.55 | 0.45 | 0.06 | 0.41 | 0.29 | 5 |
| PIE | 4601 | 348820 | 4736048 | 348804 | 4735969 | 1938 | 2013 | 1.57 | 0.23 | 0.82 | 0.06 | 0.79 | 0.81 | 5 |
| PIE | 4602 | 348863 | 4736025 | 348848 | 4735962 | 1938 | 2013 | 1.22 | 0.09 | 0.59 | 0.06 | 0.56 | 0.76 | 5 |
| PIE | 4603 | 348908 | 4736006 | 348902 | 4735964 | 1938 | 2013 | 0.71 | -0.33 | 0.13 | 0.06 | 0.11 | 0.12 | 5 |
| PIE | 4604 | 348958 | 4736001 | 348953 | 4735951 | 1938 | 2013 | 0.92 | -0.37 | 0.19 | 0.06 | 0.17 | 0.18 | 5 |
| PIE | 4605 | 349008 | 4736001 | 349003 | 4735943 | 1938 | 2013 | 1.16 | -0.42 | 0.27 | 0.06 | 0.24 | 0.23 | 5 |
| PIE | 4606 | 349057 | 4735998 | 349054 | 4735941 | 1938 | 2013 | 1.13 | -0.38 | 0.28 | 0.06 | 0.26 | 0.26 | 5 |
| PIE | 4607 | 349106 | 4735998 | 349109 | 4735945 | 1938 | 2013 | 1.00 | -0.33 | 0.26 | 0.06 | 0.23 | 0.28 | 5 |
| PIE | 4608 | 349156 | 4735995 | 349161 | 4735951 | 1938 | 2013 | 0.74 | -0.35 | 0.13 | 0.06 | 0.11 | 0.11 | 5 |
| PIE | 4609 | 349206 | 4735994 | 349212 | 4735956 | 1938 | 2013 | 0.56 | -0.28 | 0.09 | 0.06 | 0.08 | 0.09 | 5 |
| PIE | 4610 | 349256 | 4735995 | 349261 | 4735964 | 1938 | 2013 | 0.35 | -0.21 | 0.04 | 0.06 | 0.03 | 0.03 | 5 |
| PIE | 4611 | 349306 | 4735997 | 349308 | 4735969 | 1938 | 2013 | 0.22 | -0.19 | -0.01 | 0.06 | -0.02 | 0.03 | 5 |
| PIE | 4612 | 349355 | 4736007 | 349356 | 4735980 | 1938 | 2013 | 0.19 | -0.12 | 0.02 | 0.06 | 0.01 | 0.02 | 5 |
| PIE | 4613 | 349403 | 4736003 | 349401 | 4735977 | 1938 | 2013 | 0.12 | -0.11 | -0.01 | 0.06 | -0.01 | 0.05 | 5 |
| PIE | 4614 | 349452 | 4735993 | 349447 | 4735971 | 1938 | 2013 | 0.05 | 0.01 | 0.03 | 0.06 | 0.03 | 0.90 | 5 |
| PIE | 4615 | 349499 | 4735978 | 349490 | 4735950 | 1938 | 2013 | -0.19 | 0.20 | 0.03 | 0.06 | 0.04 | 0.10 | 5 |
| PIE | 4616 | 349542 | 4735953 | 349530 | 4735922 | 1938 | 2013 | -0.33 | -0.04 | -0.17 | 0.06 | -0.16 | 0.79 | 5 |
| PIE | 4617 | 349583 | 4735928 | 349571 | 4735905 | 1938 | 2013 | -0.17 | 0.04 | -0.05 | 0.06 | -0.05 | 0.41 | 5 |
| PIE | 4618 | 349628 | 4735907 | 349615 | 4735880 | 1938 | 2013 | -0.30 | 0.02 | -0.12 | 0.06 | -0.12 | 0.63 | 5 |
| PIE | 4619 | 349671 | 4735882 | 349656 | 4735856 | 1938 | 2013 | -0.23 | -0.06 | -0.13 | 0.06 | -0.13 | 0.88 | 5 |
| PIE | 4620 | 349716 | 4735859 | 349700 | 4735832 | 1938 | 2013 | -0.24 | -0.08 | -0.15 | 0.06 | -0.15 | 0.92 | 5 |
| PIE | 4621 | 349762 | 4735840 | 349746 | 4735808 | 1938 | 2013 | -0.28 | -0.16 | -0.21 | 0.06 | -0.21 | 0.98 | 5 |
| PIE | 4622 | 349802 | 4735814 | 349790 | 4735786 | 1938 | 2013 | -0.13 | -0.17 | -0.15 | 0.06 | -0.15 | 1.00 | 5 |
| PIE | 4623 | 349847 | 4735791 | 349835 | 4735761 | 1938 | 2013 | -0.17 | -0.17 | -0.17 | 0.06 | -0.17 | 1.00 | 5 |
| PIE | 4624 | 349939 | 4735756 | 349929 | 4735724 | 1938 | 2013 | -0.29 | -0.09 | -0.18 | 0.06 | -0.18 | 0.91 | 5 |
| PIE | 4625 | 349987 | 4735741 | 349975 | 4735706 | 1938 | 2013 | -0.29 | -0.18 | -0.23 | 0.06 | -0.22 | 0.98 | 5 |
| PIE | 4626 | 350034 | 4735724 | 350022 | 4735690 | 1938 | 2013 | -0.28 | -0.17 | -0.22 | 0.06 | -0.22 | 0.98 | 5 |
| PIE | 4627 | 350079 | 4735704 | 350070 | 4735673 | 1938 | 2013 | -0.21 | -0.14 | -0.17 | 0.06 | -0.17 | 0.98 | 5 |
| PIE | 4628 | 350127 | 4735692 | 350117 | 4735657 | 1938 | 2013 | -0.11 | -0.31 | -0.22 | 0.06 | -0.22 | 0.94 | 5 |
| PIE | 4629 | 350176 | 4735684 | 350165 | 4735649 | 1938 | 2013 | 0.05 | -0.39 | -0.20 | 0.06 | -0.21 | 0.73 | 5 |
| PIE | 4630 | 350226 | 4735682 | 350213 | 4735642 | 1938 | 2013 | -0.13 | -0.42 | -0.29 | 0.06 | -0.30 | 0.93 | 5 |
| PIE | 4631 | 350275 | 4735674 | 350261 | 4735631 | 1938 | 2013 | -0.11 | -0.50 | -0.33 | 0.06 | -0.34 | 0.91 | 5 |
| PIE | 4632 | 350323 | 4735660 | 350301 | 4735610 | 1938 | 2013 | -0.17 | -0.70 | -0.46 | 0.06 | -0.47 | 0.91 | 5 |
| PIE | 4633 | 350370 | 4735644 | 350341 | 4735586 | 1938 | 2013 | -0.32 | -0.83 | -0.60 | 0.06 | -0.61 | 0.95 | 5 |
| PIE | 4634 | 350415 | 4735622 | 350385 | 4735566 | 1938 | 2013 | -0.34 | -0.78 | -0.59 | 0.06 | -0.60 | 0.96 | 5 |
| PIE | 4635 | 350459 | 4735599 | 350432 | 4735543 | 1938 | 2013 | -0.41 | -0.68 | -0.56 | 0.06 | -0.57 | 0.98 | 5 |
| PIE | 4636 | 350505 | 4735579 | 350468 | 4735525 | 1938 | 2013 | -0.48 | -0.72 | -0.61 | 0.06 | -0.62 | 0.99 | 5 |
| PIE | 4637 | 350545 | 4735550 | 350503 | 4735507 | 1938 | 2013 | -0.19 | -0.80 | -0.53 | 0.06 | -0.55 | 0.91 | 5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4638 | 350563 | 4735504 | 350538 | 4735483 | 1938 | 2013 | -0.04 | -0.19 | -0.13 | 0.06 | -0.13 | 0.91 | 5 |
| PIE | 4639 | 350573 | 4735456 | 350550 | 4735436 | 1938 | 2013 | 0.05 | -0.21 | -0.10 | 0.06 | -0.10 | 0.65 | 5 |
| PIE | 4640 | 350601 | 4735414 | 350577 | 4735398 | 1938 | 2013 | 0.26 | -0.17 | 0.02 | 0.06 | 0.01 | 0.01 | 5 |
| PIE | 4641 | 350643 | 4735388 | 350611 | 4735365 | 1938 | 2013 | 0.41 | -0.06 | 0.14 | 0.06 | 0.14 | 0.50 | 5 |
| PIE | 4642 | 350680 | 4735354 | 350657 | 4735336 | 1938 | 2013 | 0.29 | -0.12 | 0.06 | 0.06 | 0.06 | 0.19 | 5 |
| PIE | 4643 | 350710 | 4735315 | 350688 | 4735299 | 1938 | 2013 | 0.21 | -0.07 | 0.05 | 0.06 | 0.05 | 0.28 | 5 |
| PIE | 4644 | 350737 | 4735273 | 350714 | 4735263 | 1938 | 2013 | 0.16 | -0.10 | 0.01 | 0.06 | 0.01 | 0.01 | 5 |
| PIE | 4645 | 350754 | 4735226 | 350724 | 4735218 | 1938 | 2013 | 0.13 | -0.28 | -0.10 | 0.06 | -0.11 | 0.46 | 5 |
| PIE | 4646 | 350768 | 4735179 | 350733 | 4735171 | 1938 | 2013 | 0.15 | -0.39 | -0.15 | 0.06 | -0.16 | 0.53 | 5 |
| PIE | 4647 | 350781 | 4735132 | 350739 | 4735124 | 1938 | 2013 | -0.15 | -0.41 | -0.29 | 0.06 | -0.30 | 0.94 | 5 |
| PIE | 4648 | 350792 | 4735084 | 350747 | 4735074 | 1938 | 2013 | -0.27 | -0.42 | -0.35 | 0.06 | -0.36 | 0.99 | 5 |
| PIE | 4649 | 350804 | 4735037 | 350760 | 4735023 | 1938 | 2013 | -0.29 | -0.40 | -0.35 | 0.06 | -0.35 | 0.99 | 5 |
| PIE | 4650 | 350824 | 4734992 | 350778 | 4734973 | 1938 | 2013 | -0.42 | -0.37 | -0.39 | 0.06 | -0.39 | 1.00 | 5 |
| PIE | 4651 | 350843 | 4734946 | 350800 | 4734931 | 1938 | 2013 | -0.29 | -0.37 | -0.33 | 0.06 | -0.34 | 1.00 | 5 |
| PIE | 4652 | 350870 | 4734905 | 350828 | 4734893 | 1938 | 2013 | NA | NA | -0.27 | 0.06 | -0.27 | 0.00 | 5 |
| PIE | 4653 | 350796 | 4734771 | 350773 | 4734762 | 1938 | 2013 | -0.09 | -0.29 | -0.20 | 0.06 | -0.03 | 0.35 | 6 |
| PIE | 4654 | 350799 | 4734721 | 350769 | 4734713 | 1938 | 2013 | 0.02 | -0.28 | -0.15 | 0.06 | -0.09 | 0.97 | 6 |
| PIE | 4655 | 350792 | 4734672 | 350767 | 4734667 | 1938 | 2013 | 0.06 | -0.10 | -0.03 | 0.06 | -0.04 | 0.38 | 6 |
| PIE | 4656 | 350796 | 4734623 | 350769 | 4734619 | 1938 | 2013 | -0.06 | -0.11 | -0.09 | 0.06 | -0.08 | 0.98 | 6 |
| PIE | 4657 | 350811 | 4734577 | 350783 | 4734568 | 1938 | 2013 | 0.06 | -0.11 | -0.03 | 0.06 | -0.04 | 0.10 | 6 |
| PIE | 4658 | 350831 | 4734531 | 350790 | 4734516 | 1938 | 2013 | -0.06 | -0.10 | -0.08 | 0.06 | 0.12 | 0.17 | 6 |
| PIE | 4659 | 350847 | 4734485 | 350809 | 4734473 | 1938 | 2013 | 0.20 | -0.21 | -0.03 | 0.06 | 0.04 | 0.03 | 6 |
| PIE | 4660 | 350876 | 4734449 | 350839 | 4734434 | 1938 | 2013 | 0.68 | -0.28 | 0.14 | 0.06 | -0.15 | 0.34 | 6 |
| PIE | 4661 | 350903 | 4734408 | 350862 | 4734395 | 1938 | 2013 | 0.58 | -0.34 | 0.06 | 0.06 | -0.27 | 0.69 | 6 |
| PIE | 4662 | 350911 | 4734359 | 350860 | 4734340 | 1938 | 2013 | 0.29 | -0.47 | -0.14 | 0.06 | -0.41 | 0.68 | 6 |
| PIE | 4663 | 350911 | 4734309 | 350869 | 4734295 | 1938 | 2013 | 0.10 | -0.53 | -0.25 | 0.06 | -0.23 | 0.60 | 6 |
| PIE | 4664 | 350917 | 4734261 | 350876 | 4734248 | 1938 | 2013 | 0.16 | -0.82 | -0.39 | 0.06 | -0.31 | 0.99 | 6 |
| PIE | 4665 | 350943 | 4734219 | 350904 | 4734215 | 1938 | 2013 | 0.15 | -0.51 | -0.22 | 0.06 | -0.26 | 0.99 | 6 |
| PIE | 4666 | 350929 | 4734173 | 350887 | 4734163 | 1938 | 2013 | -0.23 | -0.36 | -0.30 | 0.06 | -0.29 | 0.85 | 6 |
| PIE | 4667 | 350937 | 4734129 | 350899 | 4734123 | 1938 | 2013 | -0.31 | -0.22 | -0.26 | 0.06 | -0.23 | 0.83 | 6 |
| PIE | 4668 | 350939 | 4734080 | 350904 | 4734069 | 1938 | 2013 | -0.04 | -0.48 | -0.28 | 0.06 | -0.23 | 0.88 | 6 |
| PIE | 4669 | 350968 | 4734057 | 350914 | 4734034 | 1938 | 2013 | -0.02 | -0.39 | -0.23 | 0.06 | -0.51 | 1.00 | 6 |
| PIE | 4670 | 350968 | 4734010 | 350933 | 4733994 | 1938 | 2013 | -0.05 | -0.35 | -0.22 | 0.06 | -0.24 | 0.99 | 6 |
| PIE | 4671 | 350985 | 4733968 | 350944 | 4733943 | 1938 | 2013 | -0.47 | -0.55 | -0.51 | 0.06 | -0.34 | 0.96 | 6 |
| PIE | 4672 | 351001 | 4733925 | 350965 | 4733908 | 1938 | 2013 | -0.19 | -0.28 | -0.24 | 0.06 | -0.26 | 0.86 | 6 |
| PIE | 4673 | 351010 | 4733878 | 350964 | 4733864 | 1938 | 2013 | -0.48 | -0.24 | -0.34 | 0.06 | -0.35 | 0.96 | 6 |
| PIE | 4674 | 351029 | 4733833 | 350979 | 4733807 | 1938 | 2013 | -0.48 | -0.10 | -0.27 | 0.06 | -0.34 | 1.00 | 6 |
| PIE | 4675 | 351050 | 4733788 | 351014 | 4733764 | 1938 | 2013 | -0.50 | -0.24 | -0.35 | 0.06 | -0.31 | 1.00 | 6 |
| PIE | 4676 | 351075 | 4733748 | 351057 | 4733706 | 1938 | 2013 | -0.36 | -0.33 | -0.34 | 0.10 | -0.33 | 0.00 | 6 |
| PIE | 4677 | 351106 | 4733710 | 351072 | 4733682 | 1938 | 2013 | -0.29 | -0.33 | -0.31 | 0.06 | -0.31 | 0.93 | 6 |
| PIE | 4678 | 351137 | 4733672 | 351104 | 4733637 | 1938 | 2013 | NA | -0.33 | NA | 0.06 | -0.38 | 1.00 | 6 |
| PIE | 4679 | 351165 | 4733630 | 351126 | 4733599 | 1938 | 2013 | -0.49 | -0.18 | -0.32 | 0.06 | -0.41 | 0.92 | 6 |
| PIE | 4680 | 351201 | 4733598 | 351157 | 4733570 | 1938 | 2013 | -0.36 | -0.39 | -0.38 | 0.06 | -0.42 | 1.00 | 6 |
| PIE | 4681 | 351231 | 4733559 | 351185 | 4733533 | 1938 | 2013 | -0.16 | -0.59 | -0.40 | 0.06 | -0.44 | 0.99 | 6 |
| PIE | 4682 | 351249 | 4733515 | 351202 | 4733480 | 1938 | 2013 | -0.47 | -0.38 | -0.42 | 0.13 | -0.23 | 0.00 | 6 |
| PIE | 4683 | 351274 | 4733473 | 351228 | 4733435 | 1938 | 2013 | -0.55 | -0.37 | -0.45 | 0.06 | -0.43 | 0.93 | 6 |
| PIE | 4684 | 351300 | 4733435 | 351264 | 4733405 | 1938 | 2013 | -0.23 | NA | NA | 0.06 | -0.34 | 0.99 | 6 |
| PIE | 4685 | 351331 | 4733404 | 351294 | 4733370 | 1938 | 2013 | -0.18 | -0.61 | -0.42 | 0.06 | -0.41 | 0.97 | 6 |
| PIE | 4686 | 351357 | 4733363 | 351322 | 4733332 | 1938 | 2013 | -0.27 | -0.39 | -0.34 | 0.06 | -0.23 | 0.59 | 6 |
| PIE | 4687 | 351390 | 4733329 | 351349 | 4733299 | 1938 | 2013 | -0.26 | -0.51 | -0.40 | 0.06 | -0.42 | 0.96 | 6 |
| PIE | 4688 | 351415 | 4733287 | 351365 | 4733254 | 1938 | 2013 | 0.16 | -0.52 | -0.22 | 0.06 | -0.53 | 0.94 | 6 |
| PIE | 4689 | 351429 | 4733242 | 351384 | 4733218 | 1938 | 2013 | -0.24 | -0.55 | -0.42 | 0.06 | -0.42 | 0.96 | 6 |
| PIE | 4690 | 351457 | 4733204 | 351394 | 4733184 | 1938 | 2013 | -0.25 | -0.73 | -0.52 | 0.06 | -0.61 | 1.00 | 6 |
| PIE | 4691 | 351474 | 4733158 | 351413 | 4733160 | 1938 | 2013 | -0.24 | -0.55 | -0.41 | 0.06 | -0.52 | 0.99 | 6 |
| PIE | 4692 | 351454 | 4732046 | 351411 | 4732113 | 1938 | 2013 | 0.50 | -0.58 | -0.11 | 0.06 | -0.63 | 0.62 | 6 |
| PIE | 4693 | 351471 | 4732093 | 351422 | 4732133 | 1938 | 2013 | 0.28 | -0.46 | -0.14 | 0.06 | -0.38 | 0.46 | 6 |
| PIE | 4694 | 351487 | 4732140 | 351438 | 4732164 | 1938 | 2013 | 0.38 | -1.37 | -0.60 | 0.06 | -0.28 | 0.37 | 6 |
| PIE | 4695 | 351506 | 4732186 | 351453 | 4732209 | 1938 | 2013 | 0.46 | -1.00 | -0.36 | 0.06 | -0.19 | 0.13 | 6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIE | 4696 | 351513 | 4732235 | 351453 | 4732256 | 1938 | 2013 | 0.47 | -0.82 | -0.25 | 0.06 | -0.34 | 0.34 | 6 |
| PIE | 4697 | 351513 | 4732283 | 351449 | 4732293 | 1938 | 2013 | 0.78 | -0.89 | -0.15 | 0.06 | -0.44 | 0.53 | 6 |
| PIE | 4698 | 351523 | 4732328 | 351471 | 4732324 | 1938 | 2013 | 0.62 | -1.02 | -0.30 | 0.06 | -0.17 | 0.18 | 6 |
| PIE | 4699 | 351502 | 4732372 | 351459 | 4732371 | 1938 | 2013 | 0.40 | -1.04 | -0.41 | 0.13 | 0.34 | 0.00 | 6 |
| PIE | 4700 | 351488 | 4732418 | 351430 | 4732411 | 1938 | 2013 | 0.59 | -0.73 | -0.15 | 0.06 | -0.28 | 0.31 | 6 |
| PIE | 4701 | 351493 | 4732466 | 351430 | 4732455 | 1938 | 2013 | 0.34 | NA | NA | 0.06 | -0.23 | 0.16 | 6 |
| PIE | 4702 | 351500 | 4732516 | 351443 | 4732510 | 1938 | 2013 | 0.58 | -0.91 | -0.25 | 0.06 | -0.23 | 0.20 | 6 |
| PIE | 4703 | 351496 | 4732565 | 351445 | 4732564 | 1938 | 2013 | 0.85 | -1.01 | -0.19 | 0.06 | -0.20 | 0.22 | 6 |
| PIE | 4704 | 351483 | 4732613 | 351438 | 4732604 | 1938 | 2013 | 0.69 | -0.89 | -0.19 | 0.06 | -0.25 | 0.50 | 6 |
| PIE | 4705 | 351470 | 4732661 | 351424 | 4732647 | 1938 | 2013 | 0.56 | -0.75 | -0.17 | 0.06 | -0.26 | 0.50 | 6 |
| PIE | 4706 | 351454 | 4732707 | 351406 | 4732684 | 1938 | 2013 | 0.27 | -0.63 | -0.23 | 0.06 | -0.29 | 0.44 | 6 |
| PIE | 4707 | 351439 | 4732754 | 351385 | 4732728 | 1938 | 2013 | 0.27 | -0.64 | -0.24 | 0.06 | -0.40 | 0.52 | 6 |
| PIE | 4708 | 351420 | 4732799 | 351355 | 4732769 | 1938 | 2013 | 0.37 | -0.76 | -0.26 | 0.06 | -0.59 | 0.64 | 6 |
| PIE | 4709 | 351400 | 4732844 | 351338 | 4732820 | 1938 | 2013 | 0.38 | -0.95 | -0.37 | 0.06 | -0.43 | 0.57 | 6 |
| PIE | 4710 | 351380 | 4732890 | 351331 | 4732874 | 1938 | 2013 | 0.32 | -1.25 | -0.56 | 0.06 | -0.31 | 0.51 | 6 |
| PIE | 4711 | 351365 | 4732937 | 351302 | 4732922 | 1938 | 2013 | 0.34 | -0.99 | -0.41 | 0.06 | -0.28 | 0.36 | 6 |
| PIE | 4712 | 351342 | 4732980 | 351287 | 4732966 | 1938 | 2013 | 0.32 | -0.77 | -0.29 | 0.06 | -0.36 | 0.55 | 6 |
| PIE | 4713 | 351335 | 4733028 | 351294 | 4733011 | 1938 | 2013 | 0.48 | -0.83 | -0.25 | 0.06 | -0.14 | 0.20 | 6 |