## SOCIO-ECONOMIC APPENDIX

## INTRODUCTION

This appendix provides socioeconomic and flood risk management analysis in support of the feasibility study for the Leon Creek Watershed in Bexar County, Texas.

## Purpose

The purpose of the socioeconomic analysis is to describe the socioeconomic characteristics of the study area under both without-project (existing and future conditions) and with-project (alternatives) conditions, and to identify those characteristics that can have an impact on plan formulation, evaluation, and selection of a recommended plan. Socioeconomic characteristics include but are not limited to population, demographics, per capita income, employment, land use, economic activity and development, and public safety and welfare. The socioeconomic analysis is used as part of the flood damage and cost reduction analysis, environmental impact analysis, social justice, and recreation analysis.

The purpose of the flood damage and cost analysis is to quantify expected flood damages and costs that occur under without-project (existing and future) conditions and with-project conditions (alternatives formulated to reduce expected flood damages and costs). The without-project damages and costs are compared to the residual damages and costs expected to occur under with-project conditions (alternatives), the difference being the economic (monetary) benefit attributable to the alternative.

## Study Area

The project study area is defined as the Leon Creek Watershed including its tributaries located in northwestern Bexar County, Texas. The watershed extends from the northwestern boundary of the county to the creek's confluence with the Medina River southwest of San Antonio. The watershed's total drainage area consists of approximately 238 square miles. In addition to the mainstem of Leon Creek, the watershed includes several major tributaries including Babcock Creek, Helotes Creek, Huesta Creek, French Creek, Culebra Creek, Chimenea Creek, Los Reyes Creek, Ranch Creek, Huebner Creek, Slick Ranch Creek, Westwood Village Creek, Indian Creek, Government Canyon Creek, Wildcat Canyon Creek, Pecan Creek, Comanche Creek, and their tributaries. The watershed also defines the hydrological study area for this project.

For socioeconomic analysis, the study area is defined as Bexar County, and where data is available, the census block groups contained by the 500-year floodplains of the streams. In addition to
unincorporated parts of the county, this study area includes all or portions of San Antonio, Leon Valley, Grey Forest, and Helotes.

For flood damage analysis, the study area is defined as the 500-year floodplain around Leon Creek and its tributaries. On the next page, Figure A-1 shows the watershed and 500-year floodplain.

## STUDY AREA DEMOGRAPHICS

The socioeconomic characteristics of the study area are important to understand in the process of alternative formulation and making choices among the alternatives. This section provides a narrative of the socioeconomic makeup of the study area and surrounding county.

## Population

According to the Bureau of the Census, the population of Bexar County in 2010 was 1,392,931, which represented growth of 23 percent from 2000. In the study area, the 2010 population was 340,133 , an increase of 43 percent from 2000. In 2000, the study area's population accounted for approximately 20 percent of total population for Bexar County. Table A-1 compares population characteristics of the study area and Bexar County.

Table A-1. County and Study Area Population by Sex and Race or Hispanic Origin

| Population | Bexar County |  |  |  | Study Area |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2000 |  | 2010 |  | 2000 |  | 2010 |  |
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total | 1,392,931 |  | 1,714,773 |  | 238,448 |  | 340,133 |  |
| Male | 677,541 | 48.6 | 840,840 | 49.0 | 117,379 | 49.2 | 167,959 | 49.4 |
| Female | 715,390 | 51.4 | 873,933 | 51.0 | 121,069 | 50.8 | 172,174 | 50.6 |
| White | 959,122 | 68.9 | 1,250,252 | 72.9 | 164,477 | 69.0 | 252,324 | 74.2 |
| Black | 100,025 | 7.2 | 128,892 | 7.5 | 14,397 | 6.0 | 19,903 | 5.9 |
| Asian, Hawaiian, Pacific Islander | 23,889 | 1.7 | 44,089 | 2.6 | 5,866 | 2.5 | 12,107 | 3.6 |
| Other | 247,979 | 17.8 | 217,389 | 12.7 | 42,100 | 17.7 | 40,270 | 11.8 |
| American Indian | 11,193 | 0.8 | 14,475 | 0.8 | 1,726 | . 7 | 2,451 | 0.7 |
| Two or More Races | 50,723 | 3.6 | 59,676 | 3.5 | 9,883 | 4.1 | 12,455 | 3.7 |
| Hispanic Origin | 757,033 | 54.3 | 1,006,958 | 58.7 | 122,503 | 51.4 | 194,188 | 57.1 |

In terms of race and ethnicity, the study area's 2010 composition was similar to the overall county population. In both geographies, the largest race component was the White population, with 72.9 percent of the county's population and 74.2 percent of the study. The second largest component was Some Other Race, with 12.7 percent of the county's population and 11.8 percent of the study area population. About 59 percent of the county's population identified themselves as of Hispanic Origin, and in the study area, 57 percent.


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Figure A-1. Leon Creek Watershed

Although projections are not available for the study area, we can get an idea of the potential growth by examining the state and county population projections. As urbanization continues to occur outward from San Antonio, much of the growth will be in areas within the Leon Creek Watershed.

Figure A-2 shows the projected percent population growth for Texas and Bexar County for 2015 through 2050, as calculated from year 2010 population figures. Over this 40 -year period, the state's population is expected grow by 64 percent, while the county's growth over the same period is projected to be about 57 percent.


Figure A-2. Population Growth from 2015 to 2050
Source: U.S. Department of Commerce, Bureau of the Census

## Housing

Table A-2 provides housing characteristics from the 2010 Census for the county and study area.
Table A-2. County and Study Area Housing Statistics

| Housing Characteristic | Bexar County | Study Area |
| :--- | ---: | ---: |
| Total Units | 662,872 | 119,723 |
| Occupied Units | 608,931 | 113,171 |
| Vacant Units | 53,941 | 6,552 |
| Owner Occupied | 368,638 | 75,843 |
| Renter Occupied | 240,293 | 37,328 |
| Owner Occupied (Percent of Total Occupied) | $60.5 \%$ | $67.0 \%$ |
| Renter Occupied (Percent of Total Occupied) | $39.5 \%$ | $33.0 \%$ |
| Vacancy Rate | $8.1 \%$ | $5.4 \%$ |

Source: U.S. Department of Commerce, Bureau of the Census

- In Bexar County, there were 662,872 housing units. In the study area, there were 119,723 housing units, 18 percent of the county's total.
- In the county, 8.1 percent of the units were vacant compared to 5.4 percent in the study area.
- Of the occupied units, 60.5 percent were owner-occupied in the county, while 67.0 percent were such in the study area.


## Education

Figure A-3 shows the education attainment in the population ages 25 years and older, based on the 2000 Census for the county and study area. Current ( 2010 Census) values were not available for the study area, therefore 2000 data was used.


Figure A-3. Education Attainment, Bexar County and Study Area
Source: U.S. Department of Commerce, Bureau of the Census
In percentage terms, the study area showed a higher level of education attainment than the county overall. Among the county's population, 24 percent of the population's highest attainment was a high school diploma or GED; 23 percent of the population had less than a high school diploma or GED; and 53 percent had some education beyond the high school level, with 29 percent having some level of college degree. Comparatively, in the study area, only 14 percent had less than a high school degree or GED; 22 percent had only a high school degree or GED; and 64 percent had education beyond high school with 37 percent receiving some level of college degree.

## Employment

Although more current data is not available at the study area level, Table A-3 provides 2012 labor force characteristics for Texas, Bexar County, and San Antonio.

Table A-3. 2012 Labor Force

| Labor Force Characteristic | Texas | Bexar County | San Antonio |
| :--- | :---: | :---: | :---: |
| Total | $12,597,465$ | 815,285 | 628,882 |
| Employed | $11,742,600$ | 731,612 | 588,290 |
| Unemployed | 854,865 | 53,673 | 40,592 |
| Unemployment Rate | $6.8 \%$ | $6.6 \%$ | $6.5 \%$ |

Source: Texas Workforce Commission
In 2012, the county labor force was 815,285 . The labor force in San Antonio was 628,882 , which accounts for 77.1 percent of the total county labor force. Unemployment rates were similar in the county and city, at 6.6 and 6.5 percent, respectively. These rates were slightly lower than the state's unemployment rate of 6.8 percent.

Table A-4 presents civilian employment by North American Industry Classification System (NAICS) sector for the county and study area from the 2005-2009 American Community Survey.

Table A-4. 2005-2009 ACS Civilian Employment by NAICS Sector

| Sector | Bexar County |  | Study Area |  |
| :--- | ---: | :---: | ---: | :---: |
|  | Number | Percent | Number | Percent |
| Total | 700,217 | 100.0 | 140,265 | 100.0 |
| Agricultural, Forestry, Fishing, and Hunting | 2,172 | 0.3 | 335 | 0.2 |
| Mining | 2,087 | 0.3 | 362 | 0.3 |
| Construction | 58,120 | 8.3 | 9,572 | 6.8 |
| Manufacturing | 42,702 | 6.1 | 7,703 | 5.5 |
| Wholesale Trade | 23,064 | 3.3 | 3,741 | 2.7 |
| Retail Trade | 83,274 | 11.9 | 16,067 | 11.5 |
| Transportation and Warehousing | 27,004 | 3.9 | 4,162 | 3.0 |
| Utilities | 5,869 | 0.8 | 1,010 | 0.7 |
| Information | 18,070 | 2.6 | 3,948 | 2.8 |
| Finance and Insurance | 51,620 | 7.4 | 14,876 | 10.6 |
| Real Estate, Rental and Leasing | 16,197 | 2.3 | 2,398 | 1.7 |
| Professional, Scientific Services | 40,115 | 5.7 | 8,204 | 5.8 |
| Management of Companies and Enterprises | 703 | 0.1 | 150 | 0.1 |
| Administrative, Support, Waste Management, | 33,700 | 4.8 | 5,829 | 4.2 |
| and Remediation Services |  |  |  |  |
| Educational Services | 65,710 | 9.4 | 14,293 | 10.2 |
| Health Care and Social Assistance | 87,878 | 12.6 | 19,052 | 13.6 |
| Arts, Entertainment, and Recreation | 10,274 | 1.5 | 2,425 | 1.7 |
| Accommodation and Food Services | 59,311 | 8.5 | 11,182 | 8 |
| Other Services (except Public Administration) | 35,820 | 5.1 | 6,236 | 4.4 |
| Public Administration | 36,527 | 5.2 | 8,722 | 6.2 |

Comparison of the percent of total employment for each sector shows that the study area's employment composition was almost identical to the county overall. The largest sectors for employment are health care and social assistance, retail trade, and educational services and finance and insurance. This indicates that the area's economy was service-sector driven.

Table A-55 provides establishment data from the 2012 ESRI Community Analyst for Bexar County and the study area. Consistent with the employment data, the number of establishments was highest in the service-producing sectors for both the county and study area. The largest sector was retail services followed by health care and social assistance.

Table A-5. 2012 Establishments by NAICS Sector

|  | Bexar County |  | Study Area |  |
| :--- | ---: | ---: | ---: | ---: |
| Sector | Number | Percent | Number | Percent |
| Total Establishments | 87,347 | 100.0 | 13,851 | 100.0 |
| Agricultural, Forestry, Fishing | 808 | 0.9 | 116 | 0.8 |
| Mining | 229 | 0.3 | 10 | 0.1 |
| Utilities | 64 | 0.1 | 10 | 0.1 |
| Construction | 7,294 | 8.4 | 1,274 | 9.2 |
| Manufacturing | 2,663 | 3.0 | 413 | 3.0 |
| Wholesale Trade | 3,851 | 4.4 | 599 | 4.3 |
| Retail Trade | 10,446 | 12.0 | 1,722 | 12.4 |
| Transportation and Warehousing | 2,076 | 2.4 | 346 | 2.5 |
| Information | 1,617 | 1.9 | 274 | 2.0 |
| Finance and Insurance | 3,800 | 4.4 | 485 | 3.5 |
| Real Estate | 3,832 | 4.4 | 603 | 4.4 |
| Professional, Scientific Services | 11,467 | 13.1 | 1,705 | 12.3 |
| Management of Companies and Enterprises | 246 | 0.3 | 42 | 0.3 |
| Administrative, Support, Waste Management, | 15,769 | 18.1 | 2,852 | 20.6 |
| and Remediation Services |  |  |  |  |
| Educational Services | 1,492 | 1.7 | 259 | 1.9 |
| Health Care and Social Assistance | 6,366 | 7.3 | 827 | 6.0 |
| Arts, Entertainment, and Recreation | 1,553 | 1.8 | 265 | 1.9 |
| Accommodation and Food Services | 4,410 | 5.0 | 623 | 4.5 |
| Other Services (except Public Administration) | 8,704 | 10.0 | 1,335 | 9.6 |
| Public Administration | 660 | 0.8 | 101 | 0.7 |

Source: ESRI Community Analyst

## Income

Per capita income for Bexar County in 2012 was $\$ 23,024$. The study area had a slightly higher per capita income at $\$ 23,636$.

Table A-6 compares the study area's median household income to that of the county. The study area shows a higher median household income of $\$ 53,413$ relative to the county's median household income of $\$ 44,718$.

Table A-6. 2012 Household Income

| Household Characteristic | Bexar County | Study Area |
| :--- | ---: | ---: |
| Total Households | 608,931 | 113,171 |
| Median Income | 44,718 | 53,413 |

Source: U.S. Department of Commerce, Bureau of the Census
Table A-37 displays the poverty characteristics of the Bexar County population, based on 2005-2009 American Household Survey data. In the study area, 12.6 percent of the population was below the poverty level, which is lower than in the county, where 16.0 percent of the population was below the poverty level over the 2005-2009 period..

Table A-3. Poverty Status

| Population Characteristic | Bexar County | Study Area |
| :--- | :---: | :---: |
| Total Households | 540,332 | 98,730 |
| Total Above Poverty Level | 453,675 | 86,300 |
| Total Below Poverty Level | 86,657 | 12,430 |
| Percent Above Poverty Level | $84.0 \%$ | $87.4 \%$ |
| Percent Below Poverty Level | $16.0 \%$ | $12.6 \%$ |

Source: U.S. Department of Commerce, Bureau of the Census

## Environmental Justice

In accordance with Executive Order 12898, "Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations," data was compiled to help assess the potential impacts to minority and low-income populations within the study area. Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations and policies. To meet this goal, the population's racial and ethnic makeup and incomes will be looked up for the project areas and compared to the county level data to see if there is a significantly larger minority or low income areas that may need additional attention. If such areas are found, outreach will be offered through public meetings to ensure these populations are well informed of any proposed project.

On the following pages, Tables A-11 and A-12 examine the study area population and income, respectively, at the most detailed levels possible.

Table A-4. Distribution of Population by Race/Ethnicity per Census Block Group

| Census Block Group | Total Population | Race / Ethnicity (percent) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | White | Hispanic | Black | American Indian | Asian and Pacific Islander | Other |
| 151900.2 | 1,227 | 13.0 | 86.3 | 0.0 | 0.7 | 0.0 | 0.0 |
| 152000.1 | 715 | 14.0 | 79.3 | 2.2 | 0.0 | 3.1 | 1.4 |
| 152100.2 | 1,972 | 15.8 | 81.4 | 0.0 | 0.9 | 0.0 | 1.9 |
| 160900.7 | 1,565 | 2.9 | 93.4 | 1.2 | 0.0 | 2.5 | 0.0 |
| 161000.1 | 1,432 | 8.3 | 91.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 161000.3 | 527 | 11.2 | 88.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 161100.2 | 1,137 | 1.7 | 98.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 161100.3 | 1,698 | 0.5 | 99.1 | 0.0 | 0.0 | 0.5 | 0.0 |
| 161100.5 | 1,737 | 3.7 | 95.7 | 0.0 | 0.0 | 0.0 | 0.6 |
| 161100.6 | 849 | 0.0 | 94.1 | 0.0 | 0.0 | 5.9 | 0.0 |
| 161200.1 | 984 | 6.6 | 89.3 | 0.9 | 1.2 | 0.0 | 1.9 |
| 161200.2 | 1,008 | 30.3 | 69.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 161301.1 | 184 | 29.9 | 70.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 161301.3 | 3,497 | 4.9 | 90.4 | 4.4 | 0.0 | 0.0 | 0.3 |
| 161301.4 | 2,414 | 4.2 | 89.9 | 3.5 | 0.0 | 0.0 | 2.4 |
| 161301.5 | 2,451 | 5.4 | 89.0 | 0.7 | 1.3 | 1.5 | 2.1 |
| 161302.1 | 4,458 | 9.2 | 84.7 | 2.8 | 0.0 | 0.9 | 2.5 |
| 161401.1 | 7,511 | 59.0 | 14.1 | 18.3 | 0.6 | 4.2 | 3.8 |
| 161402.1 | 1,939 | 57.0 | 17.8 | 19.0 | 0.1 | 2.0 | 4.1 |
| 161501.3 | 1,070 | 33.3 | 47.4 | 14.2 | 0.0 | 5.1 | 0.0 |
| 161501.4 | 1,235 | 6.5 | 85.2 | 7.1 | 0.0 | 0.4 | 0.8 |
| 161502.1 | 1,097 | 14.9 | 83.1 | 1.2 | 0.0 | 0.0 | 0.7 |
| 161502.2 | 2,403 | 12.7 | 79.9 | 7.5 | 0.0 | 0.0 | 0.0 |
| 161502.5 | 1,154 | 27.9 | 65.1 | 7.0 | 0.0 | 0.0 | 0.0 |
| 161600.1 | 1,349 | 26.3 | 63.6 | 7.4 | 0.0 | 0.0 | 2.7 |
| 161600.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 171600.1 | 1,235 | 0.6 | 84.9 | 14.4 | 0.0 | 0.0 | 0.0 |
| 171600.2 | 1,840 | 4.3 | 93.3 | 1.3 | 0.0 | 1.1 | 0.0 |
| 171600.3 | 1,002 | 1.5 | 98.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 171600.4 | 1,974 | 4.2 | 90.4 | 3.5 | 0.0 | 1.9 | 0.0 |
| 171700.1 | 1,978 | 8.0 | 84.4 | 7.2 | 0.0 | 0.4 | 0.0 |
| 171700.2 | 1,306 | 21.6 | 73.7 | 0.9 | 0.0 | 3.8 | 0.0 |
| 171700.3 | 1,017 | 14.2 | 77.7 | 4.0 | 0.0 | 0.0 | 4.1 |
| 171700.4 | 1,033 | 24.4 | 60.7 | 10.8 | 0.0 | 0.0 | 4.1 |
| 171700.6 | 909 | 18.6 | 56.0 | 14.6 | 0.0 | 9.8 | 1.0 |
| 171700.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 171801.3 | 1,421 | 21.0 | 69.5 | 6.3 | 0.0 | 0.0 | 3.2 |
| 171802.3 | 1,474 | 10.5 | 83.7 | 3.4 | 0.0 | 1.4 | 0.9 |
| 171902.1 | 2,861 | 33.9 | 45.7 | 13.1 | 0.0 | 2.2 | 5.0 |
| 171906.1 | 4,292 | 40.2 | 42.7 | 11.6 | 0.3 | 3.0 | 2.3 |
| 171911.1 | 2,577 | 35.9 | 47.1 | 6.8 | 0.0 | 8.5 | 1.6 |
| 171911.4 | 6,950 | 26.4 | 52.7 | 15.0 | 0.3 | 2.1 | 3.4 |


| Census Block Group | Total Population | Race / Ethnicity (percent) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | White | Hispanic | Black | American Indian | Asian and Pacific Islander | Other |
| 171912.1 | 3,993 | 25.2 | 57.4 | 9.8 | 0.1 | 4.9 | 2.6 |
| 172001.1 | 8,788 | 54.0 | 34.4 | 6.3 | 0.4 | 3.4 | 1.5 |
| 181401.3 | 2,518 | 47.5 | 38.6 | 5.9 | 0.0 | 4.8 | 3.2 |
| 181401.4 | 938 | 61.9 | 28.5 | 8.7 | 0.0 | 0.0 | 0.9 |
| 181503.1 | 4,552 | 51.9 | 37.9 | 4.7 | 0.0 | 3.3 | 2.2 |
| 181505.1 | 1,102 | 44.4 | 52.2 | 0.0 | 0.0 | 1.9 | 1.5 |
| 181506.1 | 687 | 54.3 | 35.4 | 6.1 | 0.0 | 2.6 | 1.6 |
| 181506.2 | 1,305 | 59.8 | 32.6 | 2.1 | 0.0 | 4.3 | 1.1 |
| 181602.1 | 816 | 30.0 | 62.3 | 5.0 | 0.0 | 2.7 | 0.0 |
| 181701.1 | 1,722 | 52.9 | 37.9 | 4.4 | 0.0 | 2.9 | 1.9 |
| 181701.2 | 100 | 51.0 | 44.0 | 0.0 | 0.0 | 5.0 | 0.0 |
| 181703.1 | 2,001 | 67.6 | 24.2 | 2.6 | 0.0 | 5.5 | 0.0 |
| 181703.2 | 1,322 | 55.4 | 38.8 | 5.3 | 0.0 | 0.5 | 0.0 |
| 181704.1 | 809 | 52.4 | 45.9 | 1.7 | 0.0 | 0.0 | 0.0 |
| 181704.2 | 1,601 | 49.0 | 42.6 | 2.4 | 0.0 | 2.8 | 3.1 |
| 181704.3 | 1,862 | 32.2 | 54.4 | 3.2 | 0.0 | 4.4 | 5.8 |
| 181704.4 | 963 | 12.4 | 82.1 | 0.0 | 0.0 | 0.7 | 4.8 |
| 181705.1 | 1,288 | 41.8 | 41.5 | 11.0 | 0.0 | 5.1 | 0.6 |
| 181705.2 | 350 | 67.4 | 32.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 181705.3 | 555 | 28.1 | 58.0 | 9.7 | 0.0 | 4.1 | 0.0 |
| 181706.1 | 1,832 | 30.3 | 56.9 | 7.9 | 0.0 | 1.4 | 3.5 |
| 181706.2 | 2,037 | 29.0 | 59.9 | 8.2 | 0.6 | 2.3 | 0.0 |
| 181706.3 | 2,242 | 28.2 | 50.3 | 11.5 | 0.0 | 5.8 | 4.2 |
| 181711.1 | 4,737 | 43.9 | 41.1 | 8.3 | 0.2 | 5.3 | 1.2 |
| 181712.1 | 1,926 | 48.2 | 43.8 | 3.3 | 0.0 | 0.3 | 4.4 |
| 181712.2 | 1,637 | 52.0 | 35.6 | 6.2 | 0.0 | 4.3 | 1.9 |
| 181713.1 | 1,748 | 47.8 | 41.9 | 10.1 | 0.0 | 0.3 | 0.0 |
| 181713.2 | 1,452 | 44.0 | 41.3 | 4.6 | 0.0 | 5.4 | 4.8 |
| 181713.3 | 2,183 | 55.2 | 36.4 | 2.9 | 0.5 | 2.8 | 2.2 |
| 181713.4 | 1,692 | 28.7 | 56.9 | 12.6 | 0.0 | 0.4 | 1.5 |
| 181714.1 | 6,105 | 41.2 | 45.7 | 8.7 | 0.1 | 2.4 | 1.8 |
| 181714.2 | 1,520 | 58.0 | 34.4 | 6.1 | 0.0 | 0.5 | 1.0 |
| 181714.3 | 3,664 | 39.2 | 50.7 | 5.5 | 0.0 | 4.6 | 0.0 |
| 181715.1 | 5,287 | 34.2 | 56.3 | 4.6 | 0.8 | 1.4 | 2.8 |
| 181715.2 | 1,420 | 26.9 | 59.0 | 9.8 | 0.0 | 4.3 | 0.0 |
| 181716.1 | 7,301 | 32.0 | 60.2 | 4.1 | 0.0 | 1.1 | 2.6 |
| 181717.1 | 2,890 | 45.1 | 39.6 | 11.6 | 0.7 | 2.8 | 0.3 |
| 181717.3 | 3,394 | 42.9 | 41.7 | 10.8 | 0.0 | 2.3 | 2.4 |
| 181717.4 | 1,012 | 52.2 | 28.4 | 6.6 | 2.3 | 1.2 | 9.4 |
| 181719.1 | 5,367 | 49.1 | 40.1 | 6.8 | 0.0 | 2.5 | 1.5 |
| 181801.1 | 1,677 | 64.2 | 21.6 | 1.9 | 0.0 | 7.5 | 4.8 |
| 181803.1 | 1,754 | 48.0 | 38.2 | 4.7 | 1.1 | 6.6 | 1.4 |
| 181803.2 | 3,680 | 51.2 | 43.0 | 2.9 | 1.7 | 0.4 | 0.8 |
| 181803.3 | 1,134 | 57.0 | 20.4 | 0.0 | 0.0 | 20.6 | 2.0 |
| 181806.1 | 1,686 | 33.2 | 50.7 | 7.4 | 0.0 | 5.3 | 3.4 |


| Census Block Group | Total Population | Race / Ethnicity (percent) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | White | Hispanic | Black | American Indian | Asian and Pacific Islander | Other |
| 181806.2 | 469 | 61.8 | 10.7 | 17.1 | 0.0 | 10.4 | 0.0 |
| 181806.3 | 2,522 | 53.3 | 40.5 | 2.3 | 0.0 | 3.0 | 0.9 |
| 181807.1 | 6,820 | 55.1 | 33.7 | 3.4 | 1.1 | 4.2 | 2.6 |
| 181808.1 | 970 | 38.9 | 44.3 | 6.1 | 0.7 | 0.0 | 10.0 |
| 181809.1 | 1,962 | 45.8 | 47.1 | 4.7 | 0.0 | 2.4 | 0.0 |
| 181809.2 | 1,292 | 48.1 | 39.7 | 7.8 | 0.0 | 0.0 | 4.4 |
| 181809.3 | 1,185 | 58.7 | 35.9 | 2.4 | 0.0 | 3.0 | 0.0 |
| 181809.4 | 1,166 | 30.1 | 56.3 | 3.6 | 0.0 | 2.3 | 7.7 |
| 181810.1 | 2,434 | 51.1 | 35.3 | 3.2 | 0.9 | 8.4 | 1.2 |
| 181810.3 | 953 | 33.4 | 50.9 | 12.9 | 0.0 | 2.8 | 0.0 |
| 181810.4 | 1,748 | 53.1 | 37.3 | 4.0 | 0.3 | 5.2 | 0.0 |
| 181811.1 | 3,480 | 61.2 | 33.0 | 0.3 | 0.0 | 3.3 | 2.2 |
| 181812.1 | 1,639 | 67.2 | 26.7 | 1.8 | 0.0 | 3.3 | 1.0 |
| 181812.2 | 9,922 | 49.6 | 37.8 | 5.0 | 0.3 | 4.3 | 2.9 |
| 181900.1 | 1,139 | 72.2 | 20.7 | 3.6 | 0.0 | 3.5 | 0.0 |
| 181900.2 | 1,164 | 62.7 | 29.8 | 3.3 | 0.0 | 4.2 | 0.0 |
| 181900.3 | 2,556 | 57.7 | 28.8 | 4.7 | 0.5 | 4.7 | 3.7 |
| 182000.1 | 1,900 | 76.4 | 20.2 | 0.2 | 0.6 | 1.2 | 1.5 |
| 182000.2 | 1,968 | 64.9 | 26.6 | 1.1 | 0.1 | 4.7 | 2.6 |
| 182101.1 | 4,196 | 89.8 | 7.7 | 1.8 | 0.0 | 0.0 | 0.6 |
| 182102.1 | 3,313 | 83.2 | 15.1 | 0.0 | 1.0 | 0.0 | 0.8 |
| 182103.1 | 1,751 | 76.1 | 23.2 | 0.0 | 0.0 | 0.7 | 0.0 |
| 182104.1 | 3,180 | 72.8 | 25.3 | 0.4 | 0.0 | 0.6 | 1.0 |
| 191803.1 | 2,170 | 67.2 | 28.8 | 0.0 | 0.0 | 1.6 | 2.3 |
| 191803.2 | 96 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Source: U.S. Department of Commerce, Bureau of the Census
Of the 112 census block groups that intersect the study area, 110 had reported populations.

- Seventy-one of the 110 census block groups had populations that are 50 percent or more minority with regard to race and Hispanic origin. That represents 65 percent of the census block groups with reported population.
- For the study area as a whole, 59.2 percent of the population is minority. Of the 110 census block groups, 53 had total minority populations greater than 59.2 percent.
- In Bexar County, 64.4 percent of the population is minority. Of the 110 census block groups in the study area, 46 had total minority populations greater than 64.4 percent.

To identify areas within the study area where income levels could warrant further actions with regard to environmental justice, the population below poverty levels from the 2000 Census for census block groups in the 500-year floodplain were compared to the population of Bexar County.

Table A-5 provides a summary of populations below and above the poverty level for each of the 112 census block groups that intersect the 500-year floodplain, as well as for the city of San Antonio, Bexar County, State of Texas, and United States.

Table A-5. Populations Below and Above Poverty Level by Census Block Group
Bold = Census Block Group with below-poverty-level ratios higher than Bexar County's 15.9 percent

| Geographic Area | Total Population from Which Poverty is Determined | Income Below Poverty |  | Income Above Poverty |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Population | Percent | Population | Percent |
| U.S. | 273,882,232 | 33,899,812 | 12.4 | 239,982,420 | 87.6 |
| Texas | 20,287,300 | 3,117,609 | 15.4 | 17,169,691 | 84.6 |
| Bexar County | 1,359,271 | 215,736 | 15.9 | 1,143,535 | 84.1 |
| San Antonio | 1,122,736 | 193,731 | 17.3 | 929,005 | 82.7 |
| 480291519002 | 1,219 | 437 | 35.8 | 782 | 64.2 |
| 480291520001 | 535 | 227 | 42.4 | 308 | 57.6 |
| 480291521002 | 1,961 | 218 | 11.1 | 1,743 | 88.9 |
| 480291609007 | 1,542 | 495 | 32.1 | 1,047 | 67.9 |
| 480291610001 | 1,432 | 584 | 40.8 | 848 | 59.2 |
| 480291610003 | 527 | 95 | 18.0 | 432 | 82.0 |
| 480291611002 | 1,137 | 287 | 25.2 | 850 | 74.8 |
| 480291611003 | 1,698 | 371 | 21.8 | 1,327 | 78.2 |
| 480291611005 | 1,737 | 401 | 23.1 | 1,336 | 76.9 |
| 480291611006 | 849 | 140 | 16.5 | 709 | 83.5 |
| 480291612001 | 984 | 43 | 4.4 | 941 | 95.6 |
| 480291612002 | 1,008 | 357 | 35.4 | 651 | 64.6 |
| 480291613011 | 184 | 71 | 38.6 | 113 | 61.4 |
| 480291613013 | 3,473 | 1,482 | 42.7 | 1,991 | 57.3 |
| 480291613014 | 2,414 | 798 | 33.1 | 1,616 | 66.9 |
| 480291613015 | 2,444 | 753 | 30.8 | 1,691 | 69.2 |
| 480291613021 | 4,450 | 1,175 | 26.4 | 3,275 | 73.6 |
| 480291614011 | 994 | 76 | 7.6 | 918 | 92.4 |
| 480291614021 | 1,408 | 84 | 6.0 | 1,324 | 94.0 |
| 480291615013 | 1,036 | 155 | 15.0 | 881 | 85.0 |
| 480291615014 | 1,235 | 417 | 33.8 | 818 | 66.2 |
| 480291615021 | 1,097 | 346 | 31.5 | 751 | 68.5 |
| 480291615022 | 2,401 | 873 | 36.4 | 1,528 | 63.6 |
| 480291615025 | 1,148 | 65 | 5.7 | 1,083 | 94.3 |
| 480291616001 | 1,327 | 223 | 16.8 | 1,104 | 83.2 |
| 480291616003 | 0 | 0 | 0.0 | 0 | 0.0 |
| 480291716001 | 1,235 | 431 | 34.9 | 804 | 65.1 |
| 480291716002 | 1,825 | 504 | 27.6 | 1,321 | 72.4 |
| 480291716003 | 981 | 309 | 31.5 | 672 | 68.5 |
| 480291716004 | 1,955 | 702 | 35.9 | 1,253 | 64.1 |
| 480291717001 | 1,978 | 611 | 30.9 | 1,367 | 69.1 |
| 480291717002 | 1,306 | 294 | 22.5 | 1,012 | 77.5 |
| 480291717003 | 1,013 | 149 | 14.7 | 864 | 85.3 |
| 480291717004 | 1,033 | 141 | 13.6 | 892 | 86.4 |
| 480291717006 | 892 | 234 | 26.2 | 658 | 73.8 |
| 480291717007 | 0 | 0 | 0.0 | 0 | 0.0 |
| 480291718013 | 1,421 | 431 | 30.3 | 990 | 69.7 |


| Geographic Area | Total Population from Which Poverty is Determined | Income Below Poverty |  | Income Above Poverty |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Population | Percent | Population | Percent |
| 480291718023 | 1,474 | 448 | 30.4 | 1,026 | 69.6 |
| 480291719021 | 2,851 | 272 | 9.5 | 2,579 | 90.5 |
| 480291719061 | 4,274 | 72 | 1.7 | 4,202 | 98.3 |
| 480291719111 | 2,568 | 136 | 5.3 | 2,432 | 94.7 |
| 480291719114 | 6,944 | 384 | 5.5 | 6,560 | 94.5 |
| 480291719121 | 3,968 | 151 | 3.8 | 3,817 | 96.2 |
| 480291720011 | 8,783 | 476 | 5.4 | 8,307 | 94.6 |
| 480291814013 | 2,400 | 382 | 15.9 | 2,018 | 84.1 |
| 480291814014 | 795 | 119 | 15.0 | 676 | 85.0 |
| 480291815031 | 4,443 | 552 | 12.4 | 3,891 | 87.6 |
| 480291815051 | 1,102 | 58 | 5.3 | 1,044 | 94.7 |
| 480291815061 | 687 | 82 | 11.9 | 605 | 88.1 |
| 480291815062 | 1,305 | 157 | 12.0 | 1,148 | 88.0 |
| 480291816021 | 816 | 204 | 25.0 | 612 | 75.0 |
| 480291817011 | 1,656 | 20 | 1.2 | 1,636 | 98.8 |
| 480291817012 | 100 | 0 | 0.0 | 100 | 100.0 |
| 480291817031 | 2,001 | 159 | 7.9 | 1,842 | 92.1 |
| 480291817032 | 1,322 | 120 | 9.1 | 1,202 | 90.9 |
| 480291817041 | 809 | 26 | 3.2 | 783 | 96.8 |
| 480291817042 | 1,592 | 90 | 5.7 | 1,502 | 94.3 |
| 480291817043 | 1,862 | 306 | 16.4 | 1,556 | 83.6 |
| 480291817044 | 963 | 131 | 13.6 | 832 | 86.4 |
| 480291817051 | 1,288 | 52 | 4.0 | 1,236 | 96.0 |
| 480291817052 | 291 | 0 | 0.0 | 291 | 100.0 |
| 480291817053 | 555 | 40 | 7.2 | 515 | 92.8 |
| 480291817061 | 1,829 | 216 | 11.8 | 1,613 | 88.2 |
| 480291817062 | 2,037 | 263 | 12.9 | 1,774 | 87.1 |
| 480291817063 | 2,242 | 41 | 1.8 | 2,201 | 98.2 |
| 480291817111 | 4,737 | 41 | 0.9 | 4,696 | 99.1 |
| 480291817121 | 1,918 | 0 | 0.0 | 1,918 | 100.0 |
| 480291817122 | 1,523 | 85 | 5.6 | 1,438 | 94.4 |
| 480291817131 | 1,748 | 0 | 0.0 | 1,748 | 100.0 |
| 480291817132 | 1,452 | 39 | 2.7 | 1,413 | 97.3 |
| 480291817133 | 2,158 | 66 | 3.1 | 2,092 | 96.9 |
| 480291817134 | 1,685 | 611 | 36.3 | 1,074 | 63.7 |
| 480291817141 | 6,095 | 113 | 1.9 | 5,982 | 98.1 |
| 480291817142 | 1,520 | 17 | 1.1 | 1,503 | 98.9 |
| 480291817143 | 3,642 | 201 | 5.5 | 3,441 | 94.5 |
| 480291817151 | 5,280 | 406 | 7.7 | 4,874 | 92.3 |
| 480291817152 | 1,420 | 104 | 7.3 | 1,316 | 92.7 |
| 480291817161 | 7,266 | 748 | 10.3 | 6,518 | 89.7 |
| 480291817171 | 2,873 | 94 | 3.3 | 2,779 | 96.7 |
| 480291817173 | 3,394 | 85 | 2.5 | 3,309 | 97.5 |
| 480291817174 | 1,012 | 0 | 0.0 | 1,012 | 100.0 |
| 480291817191 | 5,367 | 78 | 1.5 | 5,289 | 98.5 |
| 480291818011 | 1,677 | 26 | 1.6 | 1,651 | 98.4 |
| 480291818031 | 1,754 | 74 | 4.2 | 1,680 | 95.8 |
| 480291818032 | 3,680 | 452 | 12.3 | 3,228 | 87.7 |


| Geographic Area | Total Population from Which Poverty is Determined | Income Below Poverty |  | Income Above Poverty |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Population | Percent | Population | Percent |
| 480291818033 | 1,134 | 101 | 8.9 | 1,033 | 91.1 |
| 480291818061 | 1,223 | 894 | 73.1 | 329 | 26.9 |
| 480291818062 | 469 | 57 | 12.2 | 412 | 87.8 |
| 480291818063 | 2,522 | 377 | 14.9 | 2,145 | 85.1 |
| 480291818071 | 6,790 | 418 | 6.2 | 6,372 | 93.8 |
| 480291818081 | 970 | 210 | 21.6 | 760 | 78.4 |
| 480291818091 | 1,962 | 161 | 8.2 | 1,801 | 91.8 |
| 480291818092 | 1,281 | 175 | 13.7 | 1,106 | 86.3 |
| 480291818093 | 1,185 | 74 | 6.2 | 1,111 | 93.8 |
| 480291818094 | 1,166 | 46 | 3.9 | 1,120 | 96.1 |
| 480291818101 | 2,434 | 38 | 1.6 | 2,396 | 98.4 |
| 480291818103 | 953 | 18 | 1.9 | 935 | 98.1 |
| 480291818104 | 1,748 | 192 | 11.0 | 1,556 | 89.0 |
| 480291818111 | 3,466 | 272 | 7.8 | 3,194 | 92.2 |
| 480291818121 | 1,639 | 62 | 3.8 | 1,577 | 96.2 |
| 480291818122 | 9,849 | 438 | 4.4 | 9,411 | 95.6 |
| 480291819001 | 1,122 | 12 | 1.1 | 1,110 | 98.9 |
| 480291819002 | 1,153 | 84 | 7.3 | 1,069 | 92.7 |
| 480291819003 | 2,556 | 661 | 25.9 | 1,895 | 74.1 |
| 480291820001 | 1,900 | 29 | 1.5 | 1,871 | 98.5 |
| 480291820002 | 1,968 | 51 | 2.6 | 1,917 | 97.4 |
| 480291821011 | 4,196 | 39 | 0.9 | 4,157 | 99.1 |
| 480291821021 | 3,313 | 127 | 3.8 | 3,186 | 96.2 |
| 480291821031 | 1,751 | 68 | 3.9 | 1,683 | 96.1 |
| 480291821041 | 3,178 | 57 | 1.8 | 3,121 | 98.2 |
| 480291918031 | 2,170 | 48 | 2.2 | 2,122 | 97.8 |
| 480291918032 | 96 | 0 | 0.0 | 96 | 100.0 |

Source: U.S. Department of Commerce, Bureau of the Census
On the next page, Figure A-3 shows the census block groups with ratios greater than 15.9 percent of population below the poverty level.

- In the U.S. overall, 12.4 percent of the 2000 population recorded was below the poverty level.
- In Texas and Bexar County, the ratios were 15.4 and 15.9 percent, respectively.
- Within the city of San Antonio, 17.3 percent of the population was below the poverty level.

Given that the study area comprises areas both inside and outside the city limits of San Antonio, the value for Bexar County was chosen for comparison to identify which block groups might have income sensitive areas. Of the 112 census block groups, 35 had ratios of population below the poverty level that are greater than the 15.9 percent for Bexar County. This represents 31 percent of the census block groups, but only 7.1 percent of the total population in all of the study area, or 16,764 persons. (These block groups are bold in Table A-12, page A-12.) One block group, 1818.061, had more than half of its population below the poverty level, with 73.1 percent.

After comparing population and income data from the census blocks within the project area, there were no areas where minority populations would be effected in any greater way than the overall populations. However one census block group, 1818,061 was significantly higher with regards to below poverty level incomes, and as such, may require additional actions through public meetings to ensure this sub-population is aware of any impacts of a project should a project take place in that immediate area.


Figure A-3. Areas of Concern for Environmental Justice (EJ)

## WITHOUT-PROJECT FLOOD DAMAGES AND COSTS

## Overview

Key to alternative formulation is an understanding of the monetary damages caused by flooding and the number and makeup of damaged structures. This section provides the analysis of the number of structures in the floodplain, presents damages to these structures by frequency event under existing conditions, expected annual damages by damage reach, and a preliminary comparison of with- and without-project equivalent annual damages for initial alternatives.

## Methodology

The theoretical computation of flood damages is relatively simple. It is based on the depth of flooding for various flood events (exceedance probabilities), and a relationship between the depth of flooding and the estimated damages based on a percentage of the structure and content value or value of privately owned vehicles (POV). The nomenclature used in this appendix to describe the relative risk reflects the actual probability, rather than the average recurrence interval, of flood events. For example, the commonly used term "100-year frequency flood," meaning that flood which stands a one-percent chance of being equaled or exceeded in any given one-year period, will hereafter be known as the "1-percent annual exceedance probability (AEP) flood." Damages to the various structures, accumulated by frequency of events, produce a frequency-damage function. Using this frequency-damage data, an integration process calculates estimates of expected annual damages. This involves aggregating the multiplication of the mean damage between each pair of flood events by the difference in exceedance probabilities. This is then repeated for the range of flood events in each damage category.

## Hydrologic Engineering Center - Flood Damage Assessment Program

The Hydrologic Engineering Center - Flood Damage Assessment (HEC-FDA) software program is used to compute flood damages under without- and with-project conditions. The program integrates hydrologic, hydraulic, and floodplain characteristics through application of a Monte Carlo simulation method, and computes single event damages and expected annual damages (EAD), while accounting for uncertainty in the values of structures and contents. Damage susceptibility factors used by the program to estimate flood damages include: number and type of structures, structure and content values, elevation where the structure begins to sustain measurable damages, and flood depth-topercent damage relationship.

## Inventory of Floodplain Structures

An inventory of properties lying within the limits of the $0.2 \%$ AEP (500-year) floodplain was conducted to determine the number and type of structures, values of structures and contents, and ground and finished floor elevations (elevation where water enters the structure). Structures were
initially identified and digitized in GIS using digital orthoquads as base maps. A field survey was then conducted to determine condition and quality of the structures, number of floors, construction materials (roofing and exterior walls) and to identify the first floor elevation. Square footage was acquired from the appraisal district databases. In addition, the survey identified the applicable relationship of flood depth to percent damage for each structure type. Last, the number of POVs susceptible to flood was estimated. The following paragraphs describe each inventory item in detail.

- Depreciated Structure Value/Replacement Cost. Structure values were obtained from the Bexar County Appraisal District to use as a base value. To accurately reflect replacement cost less depreciation to the existing structures in compliance with ER-1105-2-101, values for a sample of nine commercial structures were calculated using Marshall and Swift cost estimating software, based on the information collected during a field survey. This sample represents 10 percent of residential and commercial structures in the study area. Characteristics were collected in the field included exterior wall construction, roofing materials, condition and quality. These values along with square footage take from the appraisal information were entered into the Marshall \& Swift software along with zip codes to determine the depreciated replace value. A ratio between the Marshall Swift valued sample structures and their appraisal values was then calculated to adjust all structures in the database. Residential structures including multi-family were also adjusted, based on a 10 -percent sample of one- and two-story structures. Replacement cost is the cost of physically replacing (reconstructing) the structure. Depreciation accounts for deterioration that occurred prior to flooding and variations in remaining useful life of the structure. Premanufacture homes were classified as mobile residence because of similar construction and finished floor elevations. In the presentation of data that follows, this would make mobile residence values seem higher than the atypical mobile residence.

Structure values for single- and multi-family residential were adjusted upward by 28.6 percent; commercial properties were adjusted upward by 11.2 percent. This adjustment was also applied to mobile residences. Values per square footage for public structures were based on the applicable estimates produced by Marshall and Swift. Uncertainty distributions associated with estimating the depth to percent damage functions, structure values, content ratios, and first flood stage are used to develop the total aggregated stage-damage uncertainty function by damage categories for each damage reach.

- Content Value. Content values for residential structures were not specifically collected. Residential content values are embedded in the depth to percent damage relationship (see "Depth to Percent Damage Relationships"). For non-residential structures, personal business property obtained from the county appraisal district database was used, when available. These values represent values of equipment and inventory. Where personal business property was not available, estimates based on structure value and occupancy type are incorporated into the non-residential depth damage functions used by the Fort Worth District.
- Ground and First Floor Elevations. Topographic maps compiled from aerial photography served as base maps to identify flood prone properties and estimate ground elevations. First floor elevations were visually inspected for each structure. For each Monte Carlo simulation, the first floor stage with uncertainty is computed from the first floor stage, uncertainty distribution, and
uncertainty parameters. The uncertainty parameters are the same units as for the first floor stage. The uncertainty in the first floor stage is modeled using the normal distribution with a standard deviation of 0.5 foot.
- Depth to Percent Damage Relationships. Flood depth to percent damage relationships relate the depth of flooding relative to the structure first floor to the dollar amount of flood damages as a percent of the estimated structure value. For residential structure types, these relationships were compiled by the USACE Institute of Water Resources (IWR), based on data collected from flooding events in various parts of the United States between 1996 and 2001. Damage relationships for commercial and public structures also reflect the results of analyses of historical data collected from major flood events across the United States, and were supplemented based on the findings of subsequent economic field surveys of floodplain properties in the Fort Worth District, considering such factors as the design of the structure and nature of the structure contents. As described in EM 1110-2-1619—Risk-Based Analysis for Flood Damage Reduction Studies, there are risks and uncertanties associated to the parameters including valuation, elevation and depth-damage percentages. Uncertainties can rise form analytical errors in assigning these paramters or from the uncertaintiy of exact values when, for instance, assigning content valuation. To address uncertainties, standard devations are used in the Monte Carlo simulations, where higher values of standard devation are used where the uncertanties of the parameters are greater. The uncertainty associated with residential structures and contents is modeled using a normal distribution with a standard deviation of 5 percent. Commercial and public structures are similarly modeled with a standard deviation of 10 percent. These values are the default values used in HECFDA and are used in the Forth Worth District flood risk management studies unless a greater uncertainty of the parameter values is determined to exist and a larger standard deviation warranted.
- Privately Owned Vehicles. Damages for automobiles were estimated based on the average number of vehicles per residence characteristic of the study area and the probability of their being present at the time of a flood. An analysis was made of registered motor vehicles per occupied housing unit for counties within Metropolitan Statistical Areas (MSA) in Texas, using data from the U.S. Census and the Texas State Department of Highways and Public Transportation. The number of registered vehicles per occupied housing unit in the MSA clusters around a mean value of 2.48. Given that not all registered motor vehicles are associated with private residences and some housing units are unoccupied, an average of 2.0 vehicles per residence is assumed for this analysis. It is anticipated that 1.5 of these would be present during non-work hours ( 128 hours per week) and 0.5 present during work hours ( 40 hours per week). Therefore, the expected number of vehicles present at any given time that a flood might occur is derived as follows:

$$
\begin{gathered}
((128 / 168) * 1.5)+((40 / 168) * 0.5) \\
\text { or } 1.26 \text { vehicles per residence }
\end{gathered}
$$

Values for vehicles associated with single-family homes as well as multi-family and mobile residences were based on the national average price of new and used vehicles as reported by the U.S. Bureau of Transportation Statistics (BTS). Prices for new vehicles are calculated by subtracting CNW Marketing Research vehicle leasing data from Bureau of Economic Analysis
data that combines sales and leases. Used car sales data is derived from sales from franchised dealers, independent dealers, and casual sales. The average new and used sales price also includes leased vehicles. The most recent price reported by BTS is $\$ 12,774$. Under the assumption that a family's purchase of a vehicle is a function of income, this average price can be adjusted down to the Census block level based on Census Bureau data for median family income. From the 2000 U.S. Census, the median household income is $\$ 41,994$ nationally. Median household income for the census blocks that intersect the study area ranges from $\$ 19,069$ to $\$ 109,424$. This translates into valuation for vehicles located at residential structures within the study area of $\$ 7,800$ to $\$ 44,759$. The value represents the valuation of 1.26 vehicles at each structure. Thefore, the value of an individual vehicle would range from $\$ 6,190$ to $\$ 35,523$.

## Hydrology and Hydraulic Characteristics

## Flood Profiles and Probability of Flood Events

A range of without-project water surface profiles were developed. They include the 50, 20, 10, 4, 2, 1, 0.4 , and $0.2 \%$ AEP flood events (or the $2-, 5-, 10-, 25-, 50$-, 100 -, 250 -, and 500 -year floods, respectively). The profiles were used to delineate the floodplain (and damage) limits and to determine the relationship of damageable properties to both elevation and frequency of flood occurrence. As mentioned earlier, the computation of flood damages is based on the depth of flooding for various flood events and a relationship between the depth of flooding and the estimated damages based on a percentage of the structure and contents value or vehicle value.

## Flood Profile Stationing

This study adopts stations along the stream, denoted as feet above the mouth of the stream. Stationing is attached to structures by assigning the structure to the closest cross-section.

## Damage Reaches

The PDT divided the study area into 35 damage reaches, based on the locations of confluences of Leon Creek with its tributaries and of major road crossings. The mainstem of Leon Creek was divided into seven economic damage reaches; Culebra Creek was divided into two reaches; and the remaining 26 tributaries were each defined as a single reach.

For Leon Creek, the reaches are defined as follows:

- Reach 1 - Confluence of Leon Creek with Medina River to downstream of State Highway 16
- Reach 2 - Downstream of State Highway 16 to downstream of the Jet Engine Test Cell Facility located at Kelly USA (formerly Kelly Air Force Base)
- Reach 3 - Downstream of the Test Cell Facility to just upstream of SW Military Drive (During preliminary alternative formulation, this reach was divided to segregate structures protected by a levee alternative. Reach 3L indicates structures behind the levee, reach 3R represents structures not protected by the levee.)
- Reach 4 - Upstream of SW Military Drive to just upstream of confluence with Huebner Creek
- Reach 5 - Upstream of confluence with Huebner Creek to upstream of Babcock Road (During preliminary alternative formulation, this reach was divided so segregate structures protected by a levee alternative. Reach 5L indicates structures behind the levee, reach 5R represents structures not protected by the levee.)
- Reach 6 - Upstream of Babcock Road to upstream of I-10
- Reach 7 - Upstream of I-10 to end of study

For Culebra Creek, the reaches were defined as:

- Reach 1 - Confluence of Culebra Creek with Leon Creek to downstream of Loop 1604
- Reach 2 - Downstream of Loop 1604 to end of study

On page A-22, Figure A-4 provides a geographic representation of the economic reaches.

## Value of Floodplain Properties

On page A-23, Table A-6 provides the number, valuation, and structure type for each of the single event categories for each reach in the study area. Valuations for each occupancy category include structure and contents. The table shows that the $0.2 \%$ AEP floodplain contains 4,630 structures valued at $\$ 1,157,588,000$. The structures are composed of 3,757 ( $81.1 \%$ ) single-family structures, 56 (1.2\%) multi-family residential structures, 193 (4.2\%) mobile homes, 513 (11\%) commercial structures, and 111 (2.4\%) public structures.

For single family residences, a typical structure was of frame construction with brick veneer or hardboard siding and built on slab on grade foundations with no basements. Commercial properties were evenly distributed among concrete block construction and metal frame buildings with metal siding, and typically slab on grade foundations.

Total valuation of single-family residential structures is estimated at $\$ 812,722,000$ (70.2\%); for multifamily residential, the valuation is $\$ 72,029,000$ (6.2\%); for mobile homes, the valuation was $\$ 4,797,000$ ( $0.4 \%$ ); for commercial structures, $\$ 248,559,000$ (21.5\%); and for public structures, valuation is $\$ 19,481,000$ (1.7\%).

In addition to structures in the $0.2 \%$ AEP, there are an estimated 4,133 privately owned automobiles with a total valuation of $\$ 81,768,000$. See Table A-8 on page A-42.


Figure A-4. Leon Creek Economic Reaches

| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Babcock Trib |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | \$ 0 | 0 | \$ 0 | 2 | \$ 620 | 4 | \$ 959 | 7 | \$ 1,724 | 8 | \$ 1,978 | 11 | \$ 2,810 | 11 | \$2,180 |
| Multi-Family | 2 | 307 | 7 | 1,075 | 7 | 1,075 | 7 | 1,075 | 7 | 1,075 | 7 | 1,075 | 7 | 1,075 | 7 | 1,075 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 6 | 91 | 7 | 101 | 8 | 103 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 602 |
| Total | 2 | 307 | 7 | 1,075 | 9 | 1695 | 11 | 2,035 | 16 | 2,805 | 21 | 3,986 | 25 | 3,986 | 27 | 4,591 |
| Chimenea Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 436 | 1 | 436 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 15 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 2 | 438 | 4 | 451 |
| Culebra Creek 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 6 | 1,371 | 68 | 15,539 | 199 | 48,551 | 360 | 88,724 | 697 | 166,154 | 972 | 227,907 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 1 | 57 | 8 | 617 | 10 | 977 | 19 | 1,678 | 52 | 12,826 | 65 | 18,233 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 207 | 2 | 252 |
| Total | 0 | 0 | 0 | 0 | 7 | 1,428 | 76 | 16,156 | 209 | 49,528 | 379 | 90,401 | 750 | 179,187 | 1,039 | 246,393 |
| Culebra Creek 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 646 | 27 | 6,593 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 517 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 938 | 5 | 1,480 | 11 | 2,162 | 11 | 2,162 | 12 | 4,933 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 938 | 5 | 1,480 | 11 | 1,480 | 14 | 2,808 | 44 | 12,043 |


|  | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reach / Structure Type | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Culebra Creek Trib A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 4 | 861 | 11 | 3,160 | 19 | 5,041 | 32 | 8,054 | 57 | 14,292 | 74 | 18,901 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 4 | 861 | 11 | 3,160 | 19 | 5,041 | 32 | 8,054 | 57 | 14,292 | 74 | 18,901 |
| Culebra Creek Trib C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 1 | 262 | 1 | 262 | 2 | 558 | 4 | 1.130 | 6 | 1,815 | 8 | 2,782 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 1 | 15 | 1 | 15 | 1 | 15 | 1 | 15 | 1 | 15 | 1 | 15 |
| Commercial | 0 | 0 | 2 | 57 | 3 | 169 | 3 | 169 | 5 | 170 | 7 | 199 | 10 | 775 | 12 | 781 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 2 | 57 | 5 | 446 | 5 | 446 | 8 | 743 | 12 | 1,345 | 17 | 2,605 | 21 | 3,578 |
| Culebra Creek Trib E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 520 | 1 | 520 | 2 | 1,011 | 2 | 1,011 | 5 | 2,712 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 3 | 2 | 445 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 520 | 1 | 520 | 3 | 1,014 | 3 | 1,014 | 7 | 3,158 |
| French Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 1 | 632 | 3 | 1,692 | 6 | 2,556 | 8 | 3,397 | 15 | 6,183 | 39 | 14,121 | 78 | 25,774 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 1 | 137 | 1 | 137 | 3 | 720 | 3 | 720 | 4 | 759 | 8 | 10,936 | 10 | 11,232 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 849 | 3 | 2,496 |
| Total | 0 | 0 | 2 | 768 | 4 | 1,829 | 9 | 3,277 | 11 | 4,118 | 19 | 6,942 | 48 | 25,906 | 91 | 39,502 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| French Creek Trib A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Helotes Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 5 | 2,020 | 11 | 3,792 | 30 | 7,207 | 106 | 20,726 | 162 | 31,475 | 233 | 44,257 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 17 | 1,148 | 29 | 2,131 | 39 | 2,973 | 42 | 3,292 | 44 | 3,802 | 53 | 4,625 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 63 | 4 | 63 | 19 | 3,682 |
| Total | 0 | 0 | 0 | 0 | 22 | 3,168 | 40 | 5,924 | 69 | 10,180 | 152 | 24,082 | 210 | 35,340 | 305 | 52,564 |
| Helotes Creek Trib A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 124 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 5 | 576 | 10 | 1,186 | 15 | 2,153 | 16 | 2,158 | 17 | 2,200 | 18 | 2,216 | 18 | 2,216 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 5 | 576 | 10 | 1,186 | 15 | 2,153 | 16 | 2,158 | 17 | 2,200 | 18 | 2,216 | 19 | 2,340 |
| Helotes Creek Trib B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 388 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 388 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Huebner Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 2 | 29 | 10 | 1,461 | 50 | 9,681 | 100 | 18,917 | 170 | 33,728 | 290 | 60,328 | 360 | 75,748 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1,223 | 10 | 10,626 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Commercial | 0 | 0 | 1 | 23 | 2 | 73 | 3 | 220 | 3 | 220 | 5 | 454 | 6 | 464 | 7 | 478 |
| Public | 1 | 88 | 2 | 100 | 5 | 162 | 10 | 237 | 13 | 854 | 15 | 2,428 | 15 | 2,428 | 16 | 2,480 |
| Total | 1 | 88 | 5 | 151 | 63 | 10,138 | 63 | 10,138 | 116 | 19,991 | 343 | 36,610 | 313 | 64,443 | 393 | 89,333 |
| Huebner Creek Trib A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 1 | 112 | 3 | 604 | 7 | 1,910 | 10 | 2,898 | 11 | 3,087 | 12 | 3,235 | 13 | 3,332 | 19 | 5,402 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 1 | 59 | 1 | 59 | 1 | 59 | 2 | 904 | 6 | 4,284 | 7 | 5,204 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | 112 | 3 | 604 | 8 | 1,,969 | 11 | 2,957 | 12 | 3,146 | 14 | 4,139 | 19 | 7,615 | 22 | 9,018 |
| Huesta Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 1 | 147 | 1 | 147 | 1 | 147 | 1 | 147 | 1 | 1,47 | 8 | 2,573 | 19 | 5,402 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 1 | 11 | 6 | 131 | 6 | 131 | 9 | 167 | 28 | 344 | 25 | 447 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 1 | 147 | 2 | 157 | 7 | 277 | 7 | 277 | 10 | 313 | 26 | 2,917 | 44 | 5,849 |
| Indian Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 1 | 16 | 2 | 32 | 5 | 327 | 14 | 1,517 | 46 | 5,770 | 102 | 13,239 | 133 | 17,188 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 2 | 69 | 12 | 135 | 15 | 222 | 18 | 283 | 18 | 283 | 19 | 298 | 23 | 401 | 24 | 457 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 69 | 13 | 151 | 27 | 254 | 23 | 610 | 23 | 1,800 | 65 | 6,069 | 125 | 13,641 | 157 | 17,644 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Leon Creek 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 85 | 1 | 85 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1,401 | 9 | 3,292 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1,486 | 10 | 3,377 |
| Leon Creek 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 4 | 450 | 21 | 2,114 | 32 | 3.103 | 33 | 3,125 | 33 | 3,125 | 34 | 3.269 | 36 | 3,560 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 10 | 109 | 78 | 887 | 116 | 2,717 | 117 | 2,732 | 117 | 2,732 | 117 | 2,732 | 118 | 2,740 |
| Commercial | 0 | 0 | 5 | 57 | 33 | 1,274 | 41 | 1,341 | 43 | 1,457 | 48 | 1,869 | 58 | 2,.734 | 61 | 3,052 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 14 | 3 | 14 | 3 | 14 | 3 | 14 |
| Total | 0 | 0 | 19 | 616 | 132 | 4,275 | 189 | 7,163 | 196 | 7,328 | 201 | 7,739 | 212 | 8,749 | 218 | 9,365 |
| Leon Creek 3L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 4 | 12,087 | 5 | 35,403 | 5 | 35,403 | 5 | 35,403 | 5 | 35,403 | 5 | 35,403 | 6 | 35,567 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 4 | 12,087 | 5 | 35,403 | 5 | 35,403 | 5 | 35,403 | 5 | 35,403 | 5 | 35,403 | 6 | 35,567 |
| Leon Creek 3R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 1 | 20 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 1 | 20 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% A®P |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Leon Creek 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 1 | 1,513 | 2 | 1,652 | 4 | 1,704 | 8 | 2.370 | 22 | 5,006 | 44 | 7,989 | 66 | 10,814 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4774 | 3 | 7,160 | 4 | 9,547 | 5 | 11,934 | 16 | 22,822 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 21 | 6 | 41 | 6 | 41 |
| Commercial | 0 | 0 | 1 | 30 | 4 | 223 | 16 | 1,464 | 23 | 8,824 | 29 | 27,800 | 36 | 35,541 | 43 | 43,968 |
| Public | 1 | 31 | 6 | 717 | 9 | 880 | 19 | 2,145 | 21 | 2,595 | 21 | 2,595 | 21 | 2,595 | 23 | 3,501 |
| Total | 1 | 31 | 8 | 2,260 | 15 | 2,755 | 41 | 10,086 | 55 | 20,951 | 79 | 44,970 | 112 | 58,101 | 154 | 81,147 |
| Leon Creek 5L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1,032 | 78 | 12,277 | 216 | 34,691 | 307 | 49,751 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1,032 | 78 | 12,277 | 216 | 34,691 | 307 | 49,751 |
| Leon Creek 5R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 278 | 13 | 2,438 | 66 | 12,349 | 241 | 51,927 | 727 | 157,107 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 12,927 | 11 | 22,322 | 17 | 35,589 | 17 | 35,589 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 3 | 371 | 13 | 7,477 | 15 | 8,638 | 18 | 8,940 | 24 | 10,685 | 35 | 33622 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 |
| Total | 0 | 0 | 0 | 0 | 3 | 371 | 14 | 7,756 | 34 | 25,004 | 95 | 43,610 | 282 | 98,201 | 782 | 226,318 |
| Leon Creek 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1,028 | 22 | 6,027 | 39 | 11,305 | 62 | 18,608 | 88 | 27,549 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 165 | 13 | 400 | 25 | 630 | 36 | 832 |
| Commercial | 0 | 0 | 3 | 27 | 9 | 257 | 48 | 31,745 | 62 | 34,174 | 75 | 43,845 | 85 | 55,006 | 97 | 57,641 |
| Public | 0 | 0 | 0 | 0 | 4 | 280 | 13 | 1,865 | 16 | 2,496 | 20 | 2,620 | 26 | 2,922 | 28 | 2,991 |
| Total | 0 | 0 | 3 | 27 | 13 | 536 | 83 | 34,638 | 105 | 42,862 | 147 | 58,169 | 198 | 77,166 | 249 | 89,014 |


| Reach / Structure Type | 50\% AEP |  | 20\% AFP |  | 10\% AEP |  | 4\% AFP |  | 2\% AFP |  | 1\% AFP |  | 0.4\% AEP |  | 0.2\% AFP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Leon Creek 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 15 | 4,889 | 69 | 25,052 | 118 | 43,189 | 154 | 58,047 | 188 | 71,541 | 210 | 78,444 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 119 | 1 | 119 | 1 | 119 | 1 | 119 |
| Commercial | 0 | 0 | 0 | 0 | 4 | 353 | 7 | 626 | 7 | 626 | 11 | 1,561 | 13 | 1,914 | 15 | 2,940 |
| Public | 0 | 0 | 0 | 0 | 1 | 10 | 2 | 63 | 2 | 63 | 2 | 63 | 2 | 63 | 2 | 63 |
| Total | 0 | 0 | 0 | 0 | 20 | 5,252 | 78 | 25,741 | 128 | 43,997 | 168 | 59,791 | 204 | 73,637 | 228 | 81,565 |
| Leon Trib B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 2,223 | 26 | 3,246 | 59 | 6,082 | 81 | 7,330 | 100 | 8775 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0$ | 0 | $0$ | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 69 | 1 | 69 | 1 | 69 | 1 | 69 | 1 | 69 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 2,293 | 27 | 3,315 | 60 | 6,151 | 82 | 7400 | 101 | 8,844 |
| Leon Trib H |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Leon Trib J |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib K |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 1 | 7 | 3 | 16 | 6 | 33 | 9 | 2,904 | 9 | 2,904 | 9 | 2,904 | 9 | 2,904 | 9 | 2,904 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | 7 | 3 | 16 | 6 | 33 | 9 | 2,904 | 9 | 2,904 | 9 | 2,904 | 9 | 2,904 | 9 | 2,904 |
| Leon Trib L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib M |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Los Reyes Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 102 | 3 | 286 | 5 | 730 | 12 | 4,337 | 16 | 6,094 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 2 | 319 | 2 | 319 | 3 | 327 | 4 | 420 | 6 | 426 | 10 | 796 | 13 | 1,692 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 38 | 1 | 38 |
| Total | 0 | 0 | 2 | 319 | 2 | 319 | 4 | 429 | 7 | 706 | 11 | 1,156 | 23 | 5,171 | 30 | 7,825 |
| Ranch Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Slick Ranch |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 44 | 5,903 | 104 | 14,132 | 140 | 19,031 | 155 | 21,183 | 170 | 23,252 | 209 | 28,641 | 255 | 35,021 |
| Multi-Family | 0 | 0 | 0 | 0 | 1 | 319 | 4 | 1,278 | 5 | 1,597 | 6 | 1,917 | 6 | 1,917 | 6 | 1,917 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 15,327 | 5 | 15,327 | 8 | 16,441 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 44 | 5,903 | 105 | 14,452 | 144 | 20,309 | 160 | 22,780 | 181 | 40,496 | 220 | 45,885 | 269 | 53,378 |
| Slick Ranch Trib B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 1 | 10 | 2 | 62 | 3 | 113 | 3 | 113 | 3 | 113 | 3 | 113 | 3 | 113 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1,670 | 1 | 1,670 | 1 | 1,670 | 1 | 1,670 | 1 | 1,670 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 1 | 10 | 2 | 62 | 4 | 1,784 | 4 | 1,784 | 4 | 1,784 | 4 | 1,784 | 4 | 1,784 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Westwood Village |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 53 | 4 | 131 | 5 | 233 | 7 | 430 | 10 | 659 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 38 | 3 | 320 | 3 | 320 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 53 | 4 | 131 | 7 | 271 | 10 | 750 | 13 | 979 |
| Total Watershed |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 1 | 112 | 58 | 9,303 | 185 | 33,225 | 441 | 92,531 | 783 | 173,806 | 1,390 | 303,204 | 2,487 | 540,673 | 3,757 | 812,722 |
| Multi-Family | 2 | 307 | 7 | 1,075 | 8 | 1,395 | 13 | 7,127 | 21 | 23,760 | 28 | 34,861 | 37 | 51,738 | 56 | 72,029 |
| Mobile Home | 0 | 0 | 10 | 109 | 80 | 913 | 123 | 2,863 | 130 | 3,162 | 144 | 3,453 | 169 | 3,967 | 193 | 4,797 |
| Commercial | 3 | 76 | 43 | 13,508 | 116 | 41,912 | 226 | 90,250 | 272 | 103,164 | 343 | 151,829 | 437 | 200,292 | 513 | 248,559 |
| Public | 2 | 119 | 8 | 817 | 19 | 1,331 | 43 | 4,380 | 56 | 6,092 | 66 | 7,852 | 78 | 10,650 | 111 | 19,481 |
| Grand Total | 8 | 614 | 126 | 24,813 | 408 | 78,775 | 846 | 197,151 | 1,262 | 309,984 | 1,971 | 501,199 | 3,208 | 807,320 | 4,630 | 1,157,588 |

- Babcock Tributary contains 27 total structures with a valuation of $\$ 4,591,000$. These structures comprise 11 (41\%) single-family residential structures, seven (26\%) multi-family residential structures, eight (30\%) commercial structures, and one (4\%) public structure. Single-family structures are valued at $\$ 2,180,000$ (61\%), multi-family structures are valued at $\$ 1,075,000$ (23\%), commercial structures are valued at $\$ 103,000(2 \%)$, and public structures are valued at $\$ 602,000$ (13\%).
- In the Chimenea Creek, there are a total of four structures: one single-family residence valued at $\$ 436,000$ and three commercial structures valued at $\$ 15,000$.
- For reach 1 of Culebra Creek, there were 1,039 structures with a total valuation of $\$ 246,393,000$. The mix of structures is 972 ( $94 \%$ ) single-family residences valued at $\$ 227,907,000$ ( $93 \%$ ); 65 (6\%) commercial structures valued at $\$ 18,233,000(7 \%)$; and two ( $0.2 \%$ ) public structures valued at $\$ 252,000(0.1 \%)$.
- In reach 2 of Culebra Creek, there are 44 structures valued at $\$ 12,043,000$. The mix of structures is 27 (61\%) single-family residences valued at $\$ 6,593,000$ ( $55 \%$ ); 5 ( $11 \%$ ) mobile homes valued at $\$ 517,000(4 \%)$; and 12 ( $27 \%$ ) commercial structures valued at $\$ 4,933,000$ (41\%).
- Culebra Creek Trib A contains 74 structures valued at $\$ 18,901,000$. All of the structures are single-family residential.
- Culebra Creek Trib C contains 21 structures valued at $\$ 3,578,000$ : eight (38\%) are single-family residential valued at $\$ 2,782,000$ ( $78 \%$ ); one (5\%) mobile home valued at $\$ 15,000$ ( $0.4 \%$ ); and 12 (57\%) commercial structures valued at \$781,000 (22\%).
- Culebra Creek Trib E contains seven structures valued at $\$ 3,158,000$. Five ( $71 \%$ ) of the structures are single-family residential valued at $\$ 2,712,000$ ( $86 \%$ ). Two (29\%) of the structures are commercial valued at $\$ 445,000(14 \%)$.
- French Creek contains 91 structures valued at $\$ 39,502,000$. The mix of structures is: 78 ( $86 \%$ ) single-family residential valued at $\$ 25,774,000$ ( $65 \%$ ); 10 ( $11 \%$ ) commercial structures valued at $\$ 11,232,000$ ( $28 \%$ ); and three (3\%) public structures valued at $\$ 2,496,000$ (6\%).
- Helotes Creek contains 305 structures valued at $\$ 52,564,000$. The structure mix is 233 (76\%) single-family residences valued at $\$ 44,257,000$ ( $84 \%$ ); 53 ( $17 \%$ ) commercial structures valued at \$4,625,000 (9\%); and 19 (6\%) public structures valued at \$3,682,000 (7\%).
- Helotes Creek Trib A contains 19 structures valued at $\$ 2,340,000$. The mix of structures is one (5\%) single-family residential valued at $\$ 124,000$ (5\%), and 18 ( $95 \%$ ) commercial structures valued at $\$ 2,216,000(95 \%)$.
- Helotes Creek Trib B contains two single-family structures valued at $\$ 388,000$.
- Huebner Creek contains 393 structures valued at $\$ 89,333,000$. The mix of structures is: 360 (92\%) single-family residences valued at $\$ 75,748,000(85 \%) ; 10(3 \%)$ multi-family residential structures valued at $\$ 10,626,000(12 \%)$; seven ( $2 \%$ ) commercial structures valued at $\$ 478,000(0.5 \%)$; and 16 (4\%) public structures valued at $\$ 2,480,000$ (3\%).
- Huebner Creek Trib A contains 22 structures valued at $\$ 9,018,000$. Fifteen (68\%) of the structures are single-family residential valued at $\$ 3,814,000(42 \%)$; seven ( $32 \%$ ) are commercial structures valued at \$5,204,000 (58\%).
- Huesta Creek contains 44 structures valued at $\$ 5,849,000$. Nineteen ( $43 \%$ ) of the structures are single-family residential valued at $\$ 5,402,000(92 \%)$, and 25 ( $57 \%$ ) of the structures are mobile homes valued at $\$ 447,000$ ( $8 \%$ ).
- Indian Creek contains 157 structures valued at $\$ 17,644,000$. The mix of structures is: 133 (85\%) single-family residential valued at $\$ 17,188,000$ ( $97 \%$ ); and 24 (15\%) commercial structures valued at \$457,000 (3\%).
- Leon Creek 1 contains 10 structures valued at $\$ 3,377,000$. One ( $10 \%$ ) of the structures is a mobile home valued at $\$ 85,000(3 \%)$, and nine ( $90 \%$ ) are public structures valued at $\$ 3,292,000(97 \%)$.
- Leon Creek 2 contains 218 structures valued at $\$ 9,365,000$. The mix of structures is: $36(17 \%)$ single-family residential valued at $\$ 3,560,000$ (38\%); 119 (54\%) mobile homes valued at \$2,740,000 (29\%); 61 (28\%) commercial structures valued at $\$ 3,052,000$ (33\%); three (1\%) public structures valued at $\$ 14,000$ ( $0.1 \%$ ).
- Leon Creek 3 Left contains six commercial structures valued at $\$ 35,567,000$.
- Leon Creek 3 Right contains one public structure valued at $\$ 20,000$.
- Leon Creek 4 contains 154 structures valued at $\$ 81,147,000$. The mix of structures is: 66 (43\%) single-family residential valued at $\$ 10,814,000$ (13\%); 16 (10\%) multi-family residential structures valued at $\$ 22,822,000(28)$; six (4\%) mobile homes valued at $\$ 41,000(0.1 \%) ; 43$ ( $28 \%$ commercial structures valued at $\$ 43,968,000$ (54\%); 23 (15\%) public structures valued at \$3,501,000 (4\%).
- Leon Creek 5 Left contains 307 single family residential structures valued at $\$ 49,751,000$.
- Leon Creek 5 Right contains 782 structures valued at $\$ 226,318,000$. The mix of structure is: 727 (93\%) single-family residential valued at $\$ 157,107,000$ (69\%); 17 (2\%) multi-family structures valued at $\$ 35,589,000(16 \%)$; and 35 (5\%) commercial structures valued at $\$ 33,589,000(15 \%)$.
- Leon Creek 6 contains 249 structures valued at $\$ 89,014,000$. The mix of structures is: 88 (35\%) single-family residences valued at $\$ 27,549,000$ (31\%); 36 (15\%) mobile homes valued at \$832,000 (1\%); 97 (39\%) commercial structures valued at \$57,641,000 (63\%); 28 (11\%) public structures valued at $\$ 2,991,000$ (3\%).
- Leon Creek 7 contains 228 structures valued at $\$ 81,565,000$. The mix of structures is: 210 (92\%) single-family residences valued at $\$ 78,444,000$ ( $96 \%$ ); one ( $0.4 \%$ ) mobile home valued at $\$ 119,000(0.1 \%) ; 15(7 \%)$ commercial structures valued at $\$ 2,940,000$ (4\%); two ( $0.9 \%$ ) public structures valued at $\$ 63,000(0.1 \%)$.
- Leon Trib F contains 101 structures valued at $\$ 8,844,000$. The mix of structures is: 100 ( $99 \%$ ) single-family residences valued at $\$ 8,775,000(99 \%)$ and one (1\%) public structure valued at \$69,000 (1\%).
- Los Reyes Creek contains 30 structures valued at $\$ 7,825,000$. The mix of structures is: 16 ( $53 \%$ ) single-family residences valued at $\$ 6,094,000(78 \%) ; 13(43 \%)$ commercial structures valued at $\$ 1,692,000$ (11\%); and one (3\%) public structure valued at $\$ 38,000$ (.5\%).
- Slick Ranch Creek contains 269 structures valued at $\$ 53,378,000$. The mix of structures: is 255 ( $95 \%$ ) single-family residences valued at $\$ 35,021,000(66 \%)$; six ( $2 \%$ ) multi-family structures valued at $\$ 1,917,000$ (4\%); and eight (3\%) commercial structures valued at \$16,441,000 (31\%).
- Slick Ranch Trib B contains four structures valued at $\$ 1,784,000$. The mix of structures is three ( $75 \%$ ) single-family residences valued at $\$ 113,000$ (6\%); and one ( $25 \%$ ) commercial structure valued at \$1,670,000 (94\%).
- Westwood Village contains 13 structures valued at $\$ 979,000$. The mix of structures is 10 (77\%) single-family residences valued at \$659,000 (67\%), and three (23\%) commercial structures valued at \$320,000 (33\%).

Table A-7 shows the median value of structures and contents by structure category for structures in the database.

Table A-7. Median Value of Structures and Contents (January 2008 Prices - \$000)

|  | Median Value of <br> Structure and <br> Contents |
| :--- | :---: |
| Structure Category | $\$ 209$ |
| Single-Family Residential | 1,094 |
| Mobile Residences | 14 |
| Commercial Structures | 73 |
| Public Structures | 60 |

On the next page, Table A-8 provides the number and valuation for privately owned vehicles per single event category.

Table A-8. Number and Value of Floodplain Privately Owned Vehicles (January 2008 Prices - \$000)

| Reach | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Babcock Trib | 2 | \$139 | 7 | \$ 523 | 9 | \$ 574 | 11 | \$ 609 | 15 | \$ 666 | 17 | \$ 688 | 18 | \$ 698 | 19 | \$ 709 |
| Chimenea Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 27 |
| Culebra Creek 1 | 0 | 0 | 0 | 0 | 8 | 162 | 76 | 1,558 | 216 | 4,424 | 375 | 7,675 | 707 | 14,193 | 1,010 | 20,094 |
| Culebra Creek 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 26 | 6 | 156 | 18 | 469 | 46 | 1,197 |
| Culebra Creek Trib A | 0 | 0 | 0 | 0 | 4 | 95 | 11 | 261 | 19 | 451 | 32 | 762 | 57 | 1,361 | 74 | 1,767 |
| Culebra Creek Trib C | 0 | 0 | 0 | 0 | 2 | 52 | 2 | 52 | 3 | 84 | 5 | 142 | 8 | 226 | 11 | 309 |
| Culebra Creek Trib E | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 32 | 1 | 32 | 2 | 64 | 2 | 64 | 5 | 159 |
| French Creek | 0 | 0 | 1 | 31 | 3 | 88 | 6 | 166 | 6 | 166 | 15 | 404 | 40 | 973 | 78 | 1,896 |
| French Creek Trib A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Helotes Creek | 0 | 0 | 0 | 0 | 4 | 116 | 13 | 377 | 32 | 781 | 107 | 2,168 | 164 | 3,302 | 237 | 4,715 |
| Helotes Creek Trib A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 26 | 1 | 26 |
| Helotes Creek Trib B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 62 |
| Huebner Creek | 0 | 0 | 3 | 47 | 24 | 381 | 69 | 1,003 | 121 | 1,843 | 187 | 3,008 | 303 | 5,228 | 374 | 7,149 |
| Huebner Creek Trib A | 1 | 17 | 4 | 66 | 8 | 132 | 11 | 182 | 12 | 198 | 12 | 198 | 12 | 198 | 14 | 231 |
| Huesta Creek | 0 | 0 | 8 | 201 | 16 | 403 | 24 | 604 | 26 | 654 | 34 | 855 | 49 | 1,250 | 64 | 1,634 |
| Indian Creek | 0 | 0 | 1 | 10 | 2 | 21 | 6 | 68 | 17 | 206 | 49 | 615 | 111 | 1,372 | 143 | 1,751 |
| Leon Creek 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 1 | 13 | 2 | 26 |
| Leon Creek 2 | 0 | 0 | 74 | 585 | 141 | 1,119 | 150 | 1,215 | 150 | 1,215 | 150 | 1,215 | 153 | 1,241 | 155 | 1,267 |
| Leon Creek 3L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Creek 3R | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Creek 4 | 0 | 0 | 2 | 20 | 2 | 20 | 7 | 136 | 15 | 278 | 32 | 513 | 55 | 785 | 90 | 1,526 |
| Leon Creek 5L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 112 | 78 | 1,453 | 216 | 4,024 | 307 | 5,719 |
| Leon Creek 5R | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 25 | 19 | 1,119 | 78 | 2,480 | 259 | 6,633 | 746 | 16,475 |
| Leon Creek 6 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 901 | 48 | 1,597 | 76 | 2,480 | 115 | 3,298 | 145 | 3,821 |
| Leon Creek 7 | 0 | 0 | 0 | 0 | 16 | 489 | 83 | 2,368 | 135 | 3,673 | 167 | 4,522 | 194 | 5,263 | 215 | 5,858 |
| Leon Trib B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 |
| Leon Trib F | 0 | 0 | 0 | 0 | 14 | 138 | 31 | 305 | 60 | 590 | 82 | 807 | 100 | 984 | 102 | 1,004 |
| Leon Trib H | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib J | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib K | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib M | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Los Reyes Creek | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 32 | 3 | 95 | 5 | 159 | 12 | 382 | 16 | 509 |
| Ranch Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Slick Ranch | 0 | 0 | 44 | 601 | 105 | 1,437 | 144 | 2,011 | 160 | 2,239 | 176 | 2,479 | 215 | 3,012 | 261 | 3,654 |
| Slick Ranch Trib B | 0 | 0 | 1 | 20 | 2 | 41 | 3 | 61 | 3 | 61 | 3 | 61 | 3 | 61 | 3 | 61 |
| Westwood Village | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 5 | 49 | 7 | 69 | 7 | 69 | 11 | 108 |
| Total | 3 | \$155 | 145 | \$2,105 | 360 | \$5,237 | 672 | \$11,975 | 1,075 | \$20,617 | 1,696 | \$32,776 | 2,838 | \$54,389 | 4,133 | \$81,768 |

## Single Event Damages

Damages in the floodplain begin to accrue with the 50\% AEP event involving eight structures and damages estimated at $\$ 63,000$.

- With the $10 \%$ AEP, a total of 408 structures receive damages estimated at $\$ 11,510,000$. Singlefamily residential properties make up 45 percent of the structures and 33 percent of the damages. Commercial structures account for 28 percent of the structures and 59 percent of the damages.
- With a $4 \%$ AEP event, 846 structures are projected to receive damages totaling $\$ 31,895,000$. Of these structures, 52 percent are single-family residential and 26 percent, commercial. Singlefamily residential properties make up 34 percent of the total damages, while commercial structures account for 58 percent of the total.
- The $1 \%$ AEP event is projected to generate $\$ 97,178,000$ in damages to 1,971 structures. Seventyone percent of the structures are single-family residential, which accounts for 37 percent the damages. Commercial structures account for 17 percent of the total number of structures and 54 percent of the total damages.
- In the $0.2 \%$ AEP event, 4,629 structures are projected to experience damages totaling $\$ 245,447,000$. Eighty-one percent of the structures are single-family residential and 11 percent are commercial. Single-family residential structures account for 51 percent of the total damages, while commercial structures represent 41 percent of total damages.


## Single Event Damages by Stream and Reach

This section provides summaries of the single event damages projected for each stream / reach, as detailed in Table A-9 on page A-42.

- Babcock Tributary. Damages begin in the 50\% AEP along Babcock Tributary with \$37,000 of damages to two multi-family residential structures. With a $4 \%$ AEP event, damages increase to $\$ 393,000$ to 11 structures; seven multi-family, and four single-family. A $1 \%$ AEP event is estimated to generate $\$ 586,000$ in damage to eight single-family structures, seven multi-family structures, and six commercial structures. The $0.2 \%$ AEP event is projected to cause $\$ 792,000$ of damage to 27 structures: 11 single-family residential, seven multi-family residential, eight commercial, and one public structure.
- Chimenea Creek. Damages begin in the $2 \%$ AEP event, with less than $\$ 1,000$ of damage to one commercial structure. In the $0.2 \%$ AEP event, total damages are expected to be $\$ 35,000$, involving one single-family residential structure and three commercial structures.
- Culebra Creek 1. Damages begin to accrue with the $10 \%$ AEP event totaling $\$ 100,000$, involving six single-family residential structures and one commercial structure. Damages increase significantly in the $4 \%$ AEP event, jumping to $\$ 1,612,000$, involving 68 single-family residential structures and eight commercial structures. The single-family residential structures account for 89 percent of the total damages. With a $1 \%$ AEP event, a total of 379 structures are projected to be
affected with damages of $\$ 10,261,000$. Ninety-five percent of the structures are single-family residential and five percent are commercial. Single-family residential structures account for 96 percent of the damages, and commercial structures, four percent. With the $0.2 \%$ AEP event, 1,039 structures are expected to receive $\$ 40,598,000$ of damage. Ninety-four percent of the structures are single-family residential, which accounts for 91 percent of the total damages.
- Culebra Creek 2. Damages begin with the 4\% AEP event, involving three commercial structures generating $\$ 142,000$ of damage. With the $1 \%$ AEP event, 11 commercial structures are projected to receive $\$ 455,000$ of damage. A $0.2 \%$ AEP event would generate $\$ 1,307,000$ of damage to 44 structures: 27 single-family residential properties accounting for 24 percent of the damages, five mobile homes accounting for six percent of the damages, and 12 commercial structures accounting for 70 percent of the damages.
- Culebra Creek Tributary A. Damages start with the $10 \%$ AEP event, with four single-family residential structures experiencing \$56,000 of damage. With a $4 \%$ AEP event, $\$ 216,000$ of damage is projected to occur, affecting 11 single-family residential structures. A 1\% AEP event would generate $\$ 649,000$ of damage to 32 single-family residential structures. In the $0.2 \%$ AEP event, 57 single-family residential structures and two public structures are projected to receive $\$ 1,120,000$ of damage.
- Culebra Creek Tributary C. Damages begin with the 20\% AEP event, two commercial structures and projected damages of $\$ 8,000$. In the $10 \%$ AEP event, damages increase to $\$ 35,000$ affecting one single-family residential structure, one mobile home, and three commercial structures. With a $4 \%$ AEP event, the same structures are projected to receive $\$ 79,000$ of damage. In the $1 \%$ AEP event, 12 structures would receive projected damages of $\$ 162,000$. This includes four singlefamily residential structures, one mobile home, and seven commercial structures. In a $0.2 \%$ AEP event, 21 structures are projected to experience $\$ 404,000$ of damage. The mix of structures is eight single-family residential, one mobile home, and 12 commercial structures.
- Culebra Creek Tributary E. Damages begin to accrue with the 4\% AEP event and would generate $\$ 41,000$ of damage to one single-family residential structure. A $1 \%$ AEP event would create damages of $\$ 70,000$ to two single-family residential structures and one commercial structure. A $0.2 \%$ AEP event would cause $\$ 130,000$ of damage to five single-family residential structures and two commercial structures.
- French Creek. A $20 \%$ AEP event would affect one single-family residential structure and one commercial structure, causing an estimated $\$ 45,000$ of damage. A $10 \%$ AEP event would cause $\$ 98,000$ of damage to three single-family residential structures and one commercial structure. The $4 \%$ AEP event would cause $\$ 247,000$ of damage to six single-family residential structures and three commercial structures. The $1 \%$ AEP event would generate $\$ 630,000$ of damage to 15 singlefamily residential structures and four commercial structures. The $0.2 \%$ AEP event would cause $\$ 3,153,000$ of damage to 78 single-family residential structures, 10 commercial structures, and three public structures.
- Helotes Creek. Damages start with the 20\% AEP event with $\$ 7,000$ of damage involving four commercial structures. Damages increase significantly with the $10 \%$ AEP event, to $\$ 301,000$.

Structures involved include five single-family residential structures and 17 commercial structures. The $4 \%$ AEP event is expected to damage 11 single-family residential structures and 29 commercial structures in the amount of $\$ 989,000$. The $1 \%$ AEP event would generate $\$ 3,489,000$ of damage to 106 single-family residential structures, 42 commercial structures, and four public structures. The $0.2 \%$ AEP event would cause $\$ 7,676,000$ of damage to 305 structures: 233 singlefamily residential, 53 commercial, and 19 public.

- Helotes Creek Tributary A. Damages start in the 20\% AEP event, with five commercial structures incurring $\$ 19,000$ of damage. A $10 \%$ AEP event is projected to impact 10 commercial structures with $\$ 101,000$ of damage. The $4 \%$ AEP event would cause $\$ 149,000$ of damage to 15 structures. A $1 \%$ AEP event would generate $\$ 229,000$ of damage to 17 commercial structures. The $0.2 \%$ AEP event would generate damages of $\$ 326,000$, to 19 commercial structures.
- Helotes Creek Tributary B. Damages start with the $0.2 \%$ AEP event with $\$ 10,000$ of damage to two single-family residential structures.
- Huebner Creek. Damages begin with the 50\% AEP event, involving one public structure with damages of $\$ 15,000$. In the $10 \%$ AEP event, damages would involve 10 single-family residential structures, two commercial structures, and five public structures with $\$ 228,000$ of damage. The $4 \%$ AEP would generate $\$ 838,000$ of damage to 63 single-family residences, three commercial structures, and ten public structures. The $0.2 \%$ AEP event would cause $\$ 11,823,000$ of damage to 360 single-family residences, 20 multi-family residences, seven commercial structures, and 16 public structures.
- Huebner Creek Tributary A. Damages begin with the 50\% AEP event, with one single-family residence receiving $\$ 3,000$ of damage. The $10 \%$ AEP event generates $\$ 120,000$ of damage to seven single-family residences and one commercial structure. The $4 \%$ AEP event generates damages of $\$ 201,000$ to 10 single-family structures and one commercial structure. The $1 \%$ AEP event is projected to create damages of $\$ 594,000$ to 12 single-family residential structures and two commercial structures. With a $0.2 \%$ AEP event, damages would be $\$ 1,374,000$, involving 15 single-family residential structures and seven commercial structures.
- Huesta Creek. Damages first begin to accrue with the $20 \%$ AEP event, with $\$ 11,000$ of damage to one single-family residential structure. A $10 \%$ AEP event would realize $\$ 29,000$ of damage to one single-family residential structure and 11 mobile homes. The $4 \%$ AEP event would cause $\$ 43,000$ of damage to one single-family structure and six mobile homes. The $1 \%$ event would damage one single-family residence and nine mobile homes, causing \$98,000 of damage. The $.2 \%$ AEP event would cause $\$ 653,000$ of damage to 19 single-family residences and 25 mobile homes.
- Indian Creek. Along Indian Creek, damages first begin with the $50 \%$ AEP event, with projected damages of $\$ 5,000$ to two commercial structures. In the $10 \%$ AEP event, damages totaling $\$ 44,000$ impact two single-family residential structures and 15 commercial structures. With a $4 \%$ AEP event, damages triple to $\$ 135,000$, involving five single-family residences and 18 commercial structures. In the 1\% AEP event, 46 single-family residential structures and 19 commercial structures receive $\$ 497,000$ of damage. The $0.2 \%$ AEP event would generate $\$ 1,839,000$ in damages, involving 133 single-family residences and 24 commercial structures.
- Leon Creek 1. Damages start with the . $04 \%$ AEP event, with $\$ 87,000$ of damage to one mobile home and three public structures. The $0.2 \%$ AEP event would create $\$ 198,000$ of damage to one mobile home and nine public structures.
- Leon Creek 2. Damages begin with the 20\% AEP event, impacting four single-family structures, 10 mobile homes, and five commercial structures, with damages estimated at $\$ 93,000$. The $4 \%$ AEP event is projected to cause $\$ 1,631,000$ in damages to 32 single-family residences, 116 mobile homes, and 41 commercial structures. The $0.2 \%$ AEP event would generate $\$ 4,743,000$ in damages to 36 single-family residences, 118 mobile homes, 61 commercial structures, and three public structures.
- Leon Creek 3 Left. Damages begin with the 20\% AEP event, causing \$924,000 of damage to four commercial structures. The 4\% AEP event would generate \$10,689,000 of damage to five commercial structures. The $0.2 \%$ AEP event is projected to generate $\$ 25,262,000$ of damage to six commercial structures.
- Leon Creek 3 Right. Damages begin with the $.04 \%$ AEP event, causing \$5,000 of damage to one public structure. In the $.02 \%$ AEP, damages increase to $\$ 7,000$ to the same structure.
- Leon Creek 4. Damages start with the 50\% AEP event, with an estimated \$3,000 damage to one public structure. The 4\% AEP event would cause \$2,516,000 of damage to four single-family residences, two multi-family residential structures, 16 commercial structures, and 19 public structures. A $0.2 \%$ AEP event is expected to cause $\$ 35,530,000$ of damage to 66 single-family residences, 16 multi-family residential structures, six mobile homes, 43 commercial structures, and 23 public structures.
- Leon Creek 5 Left. Damages start with the 2\% AEP event, with an estimated \$95,000 damage to six single-family residences. The $1 \%$ AEP event would generate $\$ 1,368,000$ of damage to 78 single-family residences. The $0.2 \%$ AEP event is projected to generate $\$ 10,361,000$ of damage to 307 single-family residences.
- Leon Creek 5 Right. Damages start with the 10\% AEP event with \$63,000 of damages to three commercial structures. In the $4 \%$ AEP event, one single-family residence and 13 commercial structures would receive $\$ 1,733,000$ of damage. The $1 \%$ AEP event would generate $\$ 7,728,000$ in damages to 66 single-family residences, 11 multi-family residential structures, and 18 commercial structures. The $.02 \%$ AEP event would generate $\$ 35,207,000$ of damage to 727 single-family residences, 17 multi-family residential structures, 35 commercial structures, and three public structures.
- Leon Creek 6. Damages start with the 20\% AEP event, involving three commercial structures and creating $\$ 2,000$ of damage. The $4 \%$ AEP event is projected to cause $\$ 4,023,000$ of damage to six single-family residences, 48 commercial structures, and 11 public structures. The $0.2 \%$ AEP event involves 88 single-family residences, 36 mobile homes, 97 commercial structures, and 28 public structures, with $\$ 35,277,000$ of damage.
- Leon Creek 7. Damages begin in the $10 \%$ AEP event, causing \$508,000 of damage to 15 singlefamily residences, four commercial structures, and one public structure. The $4 \%$ AEP event would generate $\$ 2,805,000$ of damage to 69 single-family residences, seven commercial structures, and
two public structures. The $0.2 \%$ AEP event would cause damage to 210 single-family residences, one mobile home, 15 commercial structures, and two public structures, estimated at a total of \$13,128,000.
- Leon Tributary F. Damages start with a $4 \%$ AEP event, expected to cause $\$ 187,000$ of damage to 16 single-family residences and one public structure. The $0.2 \%$ AEP event is projected to involve 100 single-family residences and one public structure, with $\$ 1,629,000$ in damages.
- Leon Tributary K. Damages first occur with the $50 \%$ AEP event, with less than $\$ 1,000$ damage to one commercial structure. The $10 \%$ AEP event is expected to generate $\$ 146,000$ in damages to six commercial structures. The 4\% AEP event involves nine commercial structures with $\$ 419,000$ of damage. The $0.2 \%$ AEP event involves nine commercial structures with projected damages of \$566,000.
- Los Reyes Creek. Damages begin in the $20 \%$ AEP event, with $\$ 19,000$ of damage to two commercial structures. The $4 \%$ AEP event would generate $\$ 65,000$ of damage to one singlefamily residence and three commercial structures. The $0.2 \%$ AEP event would involve 16 singlefamily residences and 13 commercial structures, causing \$987,000 in damages.
- Slick Ranch Creek. Damages start with the $20 \%$ AEP event, with $\$ 484,000$ of damage to 44 single-family residences. The $4 \%$ AEP event would cause $\$ 2,529,000$ of damage to 140 singlefamily residences and four multi-family residential structures. The $0.2 \%$ AEP event is projected to generate $\$ 10,200,000$ damage to 255 single-family residences, six multi-family residential structures, and eight commercial structures.
- Slick Ranch Tributary B. Damages begin with the 20\% AEP event, with estimated damages of $\$ 2,000$ to one single-family residence. The 4\% AEP event involves three single-family residential structures and one commercial, with damages projected at $\$ 209,000$. The $0.2 \%$ AEP event is projected to cause $\$ 445,000$ of damage to three single-family residential structures and one commercial structure.
- Westwood Village Creek. Damages begin with the $4 \%$ AEP event, with $\$ 4,000$ of damage to one single-family structure. The $0.2 \%$ AEP event would create $\$ 156,000$ damage to 10 single-family residences and three commercial structures.

French Creek Trib A, Leon Creek Tribs B, H, J, M, and Ranch Creek do not generate any significant damages through the $0.2 \%$ AEP event.

On page A-51, Table A-10 provides detailed single-event damages to privately owned vehicles by reach.

Table A-9. Structures and Contents Single Event Damages by AEP and Reach (January 2008 Prices - \$000)

| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\%AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. |
| Babcock Trib |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | \$ 0 | 0 | \$ 0 | 2 | \$ 18 | 4 | \$ 83 | 7 | \$ 151 | 8 | \$ 213 | 11 | \$ 296 | 11 | \$ 355 |
| Multi-Family | 2 | 37 | 7 | 199 | 7 | 265 | 7 | 310 | 7 | 340 | 7 | 364 | 7 | 390 | 7 | 409 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | <1 | 6 | 10 | 7 | 14 | 8 | 16 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 13 |
| Total | 2 | 37 | 7 | 199 | 9 | 283 | 11 | 383 | 16 | 491 | 21 | 586 | 25 | 700 | 27 | 792 |
| Chimenea Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 34 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | <1 | 1 | <1 | 1 | <1 | 3 | 1 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | <1 | 1 | <1 | 1 | <1 | 4 | 35 |
| Culebra Creek 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 6 | 99 | 68 | 1,483 | 199 | 4,413 | 360 | 9,884 | 697 | 23,894 | 972 | 36,883 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 1 | 1 | 8 | 129 | 10 | 260 | 19 | 377 | 52 | 2,010 | 65 | 3,676 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 34 | 2 | 39 |
| Total | 0 | 0 | 0 | 0 | 7 | 100 | 76 | 1,612 | 209 | 4,673 | 379 | 10,261 | 750 | 25,937 | 1,039 | 40,598 |
| Culebra Creek 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 106 | 27 | 313 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 75 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 142 | 5 | 202 | 11 | 455 | 11 | 691 | 12 | 919 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 142 | 5 | 202 | 11 | 455 | 14 | 797 | 44 | 1,307 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. |
| Culebra Creek Trib A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 4 | 58 | 11 | 216 | 19 | 405 | 32 | 649 | 57 | 1,120 | 74 | 1,627 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 4 | 58 | 11 | 216 | 19 | 405 | 32 | 649 | 57 | 1,120 | 74 | 1,627 |
| Culebra Creek Trib C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 1 | 12 | 1 | 44 | 2 | 73 | 4 | 111 | 6 | 187 | 8 | 274 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 3 | 1 | 4 |
| Commercial | 0 | 0 | 2 | 8 | 3 | 23 | 3 | 33 | 5 | 40 | 7 | 48 | 10 | 94 | 12 | 125 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 2 | 8 | 5 | 35 | 5 | 79 | 8 | 115 | 12 | 162 | 17 | 284 | 21 | 403 |
| Culebra Creek Trib E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 41 | 1 | 54 | 2 | 70 | 2 | 96 | 5 | 126 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | <1 | 1 | <1 | 2 | 4 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 41 | 1 | 54 | 3 | 70 | 10 | 96 | 7 | 130 |
| French Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 1 | 41 | 3 | 86 | 6 | 181 | 8 | 301 | 15 | 489 | 39 | 1,171 | 78 | 2,164 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 1 | 4 | 1 | 12 | 3 | 67 | 3 | 90 | 4 | 141 | 8 | 374 | 10 | 858 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 36 | 3 | 131 |
| Total | 0 | 0 | 2 | 45 | 4 | 98 | 9 | 247 | 11 | 392 | 19 | 630 | 48 | 1,581 | 91 | 3,153 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. |
| French Creek Trib A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Helotes Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 5 | 225 | 11 | 714 | 30 | 1,184 | 106 | 2,797 | 162 | 4,171 | 233 | 6,115 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 4 | 7 | 17 | 76 | 29 | 275 | 39 | 521 | 42 | 691 | 44 | 884 | 53 | 1,171 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 4 | 2 | 19 | 391 |
| Total | 0 | 0 | 4 | 7 | 22 | 301 | 40 | 989 | 69 | 1,705 | 152 | 3,489 | 310 | 5,057 | 305 | 7,676 |
| Helotes Creek Trib A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 36 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 5 | 19 | 10 | 101 | 15 | 149 | 16 | 176 | 17 | 229 | 18 | 266 | 18 | 290 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 5 | 19 | 10 | 101 | 15 | 149 | 16 | 176 | 17 | 229 | 18 | 266 | 19 | 326 |
| Helotes Creek Trib B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 10 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 10 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. |
| Huebner Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 2 | 17 | 10 | 183 | 50 | 766 | 100 | 1,733 | 170 | 3,151 | 290 | 6,322 | 360 | 9,675 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 233 | 10 | 1,535 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 1 | 4 | 2 | 12 | 3 | 28 | 3 | 38 | 5 | 59 | 6 | 88 | 7 | 110 |
| Public | 1 | 15 | 2 | 24 | 5 | 34 | 10 | 44 | 13 | 74 | 15 | 184 | 15 | 361 | 16 | 503 |
| Total | 1 | 15 | 5 | 46 | 17 | 228 | 63 | 838 | 116 | 1,846 | 190 | 3,393 | 313 | 7,004 | 393 | 11,823 |
| Huebner Creek Trib A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 1 | 3 | 3 | 54 | 7 | 116 | 10 | 190 | 11 | 266 | 12 | 344 | 13 | 439 | 15 | 517 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 11 | 1 | 13 | 2 | 250 | 6 | 707 | 7 | 857 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | 3 | 3 | 54 | 8 | 120 | 11 | 201 | 12 | 279 | 14 | 594 | 19 | 1,146 | 22 | 1,374 |
| Huesta Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 1 | 11 | 1 | 23 | 1 | 30 | 1 | 36 | 1 | 71 | 8 | 260 | 19 | 563 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 1 | 6 | 6 | 13 | 6 | 19 | 9 | 26 | 18 | 53 | 25 | 90 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 1 | 11 | 2 | 29 | 7 | 43 | 7 | 55 | 10 | 98 | 26 | 313 | 44 | 653 |
| Indian Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 1 | 1 | 2 | 11 | 5 | 73 | 14 | 196 | 46 | 431 | 102 | 1,058 | 133 | 1,760 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 2 | 5 | 12 | 26 | 15 | 33 | 18 | 62 | 18 | 64 | 19 | 66 | 23 | 74 | 24 | 80 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 5 | 13 | 27 | 27 | 44 | 23 | 135 | 32 | 260 | 65 | 497 | 125 | 1,132 | 157 | 1,839 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. |
| Leon Creek 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 39 | 1 | 79 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 48 | 9 | 119 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 87 | 10 | 198 |
| Leon Creek 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 4 | 65 | 21 | 384 | 32 | 777 | 33 | 985 | 33 | 1.135 | 34 | 1,319 | 36 | 1,527 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 10 | 19 | 78 | 213 | 116 | 499 | 117 | 760 | 117 | 1,035 | 117 | 1,482 | 118 | 2,056 |
| Commercial | 0 | 0 | 5 | 9 | 33 | 271 | 41 | 355 | 43 | 410 | 48 | 532 | 58 | 905 | 61 | 1,156 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 3 | 3 | 3 | 3 | 5 |
| Total | 0 | 0 | 19 | 93 | 132 | 868 | 189 | 1,631 | 196 | 2,156 | 201 | 2,703 | 212 | 3,709 | 218 | 4,743 |
| Leon Creek 3L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 4 | 924 | 5 | 5,922 | 5 | 10,689 | 5 | 13,253 | 5 | 15,827 | 6 | 20,421 | 6 | 25,262 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 4 | 924 | 5 | 5,922 | 5 | 10,689 | 5 | 13,253 | 5 | 15,827 | 6 | 20,421 | 6 | 25,262 |
| Leon Creek 3R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 7 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 7 |


| Reach / Structure Type | 50\% AFP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AFP |  | 0.2\% AFP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. |
| Leon Creek 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 1 | 164 | 2 | 645 | 4 | 885 | 8 | 1,019 | 22 | 1,386 | 44 | 2,294 | 66 | 3,469 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 671 | 3 | 1,316 | 4 | 2,139 | 5 | 3,453 | 16 | 5,908 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | $<1$ | 3 | 3 | 6 | 8 | 6 | 17 |
| Commercial | 0 | 0 | 1 | 2 | 4 | 18 | 16 | 309 | 29 | 1,526 | 29 | 7,863 | 36 | 20,707 | 43 | 24,561 |
| Public | 1 | 3 | 6 | 100 | 9 | 284 | 19 | 652 | 21 | 879 | 21 | 1,059 | 21 | 1,301 | 23 | 1,575 |
| Total | 1 | 3 | 8 | 266 | 15 | 947 | 41 | 2,516 | 55 | 4,740 | 79 | 12,450 | 112 | 27,764 | 154 | 35,530 |
| Leon Creek 5L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 95 | 78 | 1,368 | 216 | 5,381 | 307 | 10,362 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 95 | 78 | 1,368 | 216 | 5,381 | 307 | 10,362 |
| Leon Creek 5R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 19 | 13 | 312 | 66 | 1,625 | 241 | 8,641 | 727 | 22,679 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1,750 | 11 | 3,281 | 17 | 5,554 | 17 | 7,306 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 3 | 63 | 13 | 1,713 | 15 | 2,323 | 18 | 2,821 | 24 | 3,651 | 35 | 5,222 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | <1 |
| Total | 0 | 0 | 0 | 0 | 3 | 63 | 14 | 1,733 | 34 | 4,385 | 95 | 7.728 | 282 | 17,846 | 782 | 35,207 |
| Leon Creek 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 137 | 22 | 542 | 39 | 1,213 | 62 | 2,690 | 88 | 4,746 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 24 | 13 | 51 | 25 | 92 | 36 | 152 |
| Commercial | 0 | 0 | 3 | 2 | 9 | 34 | 48 | 3,576 | 62 | 11,671 | 75 | 19,405 | 85 | 25,480 | 97 | 29,542 |
| Public | 0 | 0 | 0 | 0 | 4 | 25 | 11 | 310 | 16 | 458 | 20 | 558 | 26 | 689 | 28 | 787 |
| Total | 0 | 0 | 3 | 2 | 13 | 59 | 65 | 4.032 | 105 | 12,695 | 147 | 21,227 | 198 | 28,951 | 249 | 35,277 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. |
| Leon Creek 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 15 | 480 | 69 | 2,631 | 118 | 4,415 | 154 | 6,605 | 188 | 9,881 | 210 | 12,588 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 1 | 15 | 1 | 18 | 1 | 23 |
| Commercial | 0 | 0 | 0 | 0 | 4 | 28 | 7 | 164 | 7 | 203 | 11 | 271 | 13 | 368 | 15 | 503 |
| Public | 0 | 0 | 0 | 0 | 1 | <1 | 2 | 10 | 2 | 11 | 2 | 12 | 2 | 13 | 2 | 14 |
| Total | 0 | 0 | 0 | 0 | 20 | 508 | 78 | 2,805 | 128 | 4,641 | 168 | 6,903 | 204 | 10,281 | 228 | 13,128 |
| Leon Trib B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 184 | 26 | 418 | 59 | 752 | 81 | 1,232 | 100 | 1,616 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 9 | 1 | 11 | 1 | 12 | 1 | 13 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 187 | 27 | 427 | 60 | 763 | 82 | 1,244 | 101 | 1,629 |
| Leon Trib H |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AFP |  | 0.2\% AFP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. |
| Leon Trib J |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib K |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 1 | <1 | 3 | 1 | 6 | 146 | 9 | 419 | 9 | 460 | 9 | 493 | 9 | 533 | 9 | 566 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | .<1 | 3 | 1 | 6 | 146 | 9 | 419 | 9 | 460 | 9 | 493 | 9 | 533 | 9 | 566 |
| Leon Trib L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib M |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. |
| Los Reyes Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 3 | 30 | 5 | 72 | 12 | 331 | 16 | 751 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 2 | 19 | 2 | 41 | 3 | 54 | 4 | 61 | 6 | 80 | 10 | 140 | 13 | 236 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 2 | 19 | 2 | 41 | 4 | 65 | 7 | 91 | 11 | 152 | 22 | 470 | 29 | 987 |
| Ranch Creek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Slick Ranch |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 44 | 484 | 104 | 1,462 | 140 | 2,353 | 155 | 3,034 | 155 | 3,772 | 209 | 4,925 | 255 | 5,866 |
| Multi-Family | 0 | 0 | 0 | 0 | 1 | 91 | 4 | 176 | 5 | 223 | 6 | 267 | 6 | 333 | 6 | 392 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2,063 | 5 | 2,192 | 8 | 3,942 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 44 | 484 | 105 | 1,553 | 144 | 2,529 | 160 | 3,257 | 181 | 6,102 | 220 | 7,450 | 269 | 10,200 |
| Slick Ranch Trib B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 1 | 2 | 2 | 4 | 3 | 7 | 3 | 9 | 3 | 12 | 3 | 15 | 3 | 17 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 202 | 1 | 258 | 1 | 309 | 1 | 397 | 1 | 428 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 1 | 2 | 2 | 4 | 3 | 209 | 4 | 268 | 4 | 321 | 4 | 412 | 4 | 445 |


| Reach / Structure Type | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. | No. | Dmg. |
| Westwood Village |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 4 | 11 | 5 | 28 | 7 | 58 | 10 | 92 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mobile Home | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | <1 | 3 | 50 | 3 | 64 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 4 | 11 | 7 | 29 | 10 | 108 | 13 | 156 |
| Total Watershed |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-Family | 1 | 3 | 58 | 840 | 185 | 3,805 | 441 | 10,829 | 783 | 19,682 | 1,390 | 36,178 | 2,487 | 75,888 | 3,757 | 124,215 |
| Multi-Family | 2 | 37 | 7 | 199 | 8 | 356 | 13 | 1,157 | 21 | 3,629 | 28 | 6,050 | 37 | 9,963 | 56 | 15,550 |
| Mobile Home | 0 | 0 | 10 | 19 | 80 | 220 | 123 | 514 | 130 | 818 | 144 | 1,132 | 169 | 1,697 | 193 | 2,496 |
| Commercial | 3 | 5 | 43 | 1,025 | 116 | 6,786 | 226 | 18,377 | 272 | 31,569 | 343 | 51,991 | 437 | 80,049 | 513 | 99,957 |
| Public | 2 | 18 | 8 | 125 | 19 | 343 | 43 | 1,017 | 56 | 1,432 | 66 | 1,827 | 77 | 2,499 | 110 | 3,447 |
| Grand Total | 8 | 63 | 126 | 2,208 | 408 | 11,510 | 846 | 31,895 | 1,262 | 57,131 | 1,971 | 97,178 | 3,207 | 170,096 | 4,629 | 245,447 |

Table A-10. Privately Owned Vehicles Single Event Damages by AEP and Reach (January 2008 Prices - \$000)

| Reach | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Babcock Trib | 2 | \$64 | 7 | \$ 402 | 9 | \$ 502 | 11 | \$ 563 | 15 | \$ 600 | 17 | \$ 625 | 18 | \$ 645 | 19 | \$ 654 |
| Chimenea Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 11 |
| Culebra Creek R1 | 0 | 0 | 0 | 0 | 8 | 76 | 76 | 924 | 216 | 2,541 | 375 | 5,140 | 707 | 10,544 | 1,010 | 15,091 |
| Culebra Creek R2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 6 | 59 | 18 | 233 | 46 | 575 |
| Culebra Creek Trib A | 0 | 0 | 0 | 0 | 4 | 40 | 11 | 115 | 19 | 208 | 32 | 334 | 57 | 577 | 74 | 812 |
| Culebra Creek Trib C | 0 | 0 | 0 | 0 | 2 | 11 | 2 | 27 | 3 | 44 | 5 | 68 | 8 | 109 | 11 | 155 |
| Culebra Creek Trib E | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 1 | 13 | 2 | 19 | 2 | 35 | 5 | 56 |
| French Creek | 0 | 0 | 1 | 14 | 3 | 28 | 6 | 68 | 8 | 106 | 15 | 173 | 40 | 427 | 78 | 846 |
| French Creek Trib A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Helotes Creek | 0 | 0 | 0 | 0 | 4 | 68 | 13 | 230 | 32 | 427 | 107 | 1,126 | 164 | 1,770 | 237 | 2,679 |
| Helotes Creek Trib A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 8 |
| Helotes Creek Trib B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 13 |
| Huebner Creek | 0 | 0 | 3 | 17 | 24 | 124 | 69 | 400 | 121 | 815 | 187 | 1,404 | 303 | 2,699 | 374 | 4,176 |
| Huebner Creek Trib A | 1 | 4 | 4 | 24 | 8 | 52 | 11 | 82 | 12 | 105 | 12 | 124 | 12 | 149 | 14 | 171 |


| Reach | 50\% AEP |  | 20\% AEP |  | 10\% AEP |  | 4\% AEP |  | 2\% AEP |  | 1\% AEP |  | 0.4\% AEP |  | 0.2\% AEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value | No. | Value |
| Huesta Creek | 0 | 0 | 8 | 83 | 16 | 229 | 24 | 368 | 26 | 451 | 34 | 570 | 49 | 906 | 64 | 1,225 |
| Indian Creek | 0 | 0 | 1 | 3 | 2 | 10 | 6 | 35 | 17 | 74 | 49 | 206 | 111 | 524 | 143 | 818 |
| Leon Creek 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 1 | 13 | 2 | 23 |
| Leon Creek 2 | 0 | 0 | 74 | 340 | 141 | 955 | 150 | 1,151 | 150 | 1,189 | 150 | 1,204 | 153 | 1,224 | 155 | 1,251 |
| Leon Creek 3L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Creek 3R | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Creek 4 | 0 | 0 | 2 | 7 | 2 | 20 | 7 | 88 | 15 | 189 | 32 | 379 | 55 | 654 | 90 | 1,214 |
| Leon Creek 5L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 32 | 78 | 713 | 216 | 2,617 | 307 | 4,454 |
| Leon Creek 5R | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 27 | 19 | 483 | 78 | 1,385 | 259 | 4,345 | 746 | 10,655 |
| Leon Creek 6 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 515 | 48 | 1,012 | 76 | 1,581 | 115 | 2,509 | 145 | 3,301 |
| Leon Creek 7 | 0 | 0 | 0 | 0 | 16 | 279 | 83 | 1,387 | 135 | 2,266 | 167 | 3,103 | 194 | 4,156 | 215 | 4,870 |
| Leon Trib B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 |
| Leon Trib F | 0 | 0 | 0 | 0 | 14 | 53 | 31 | 156 | 60 | 329 | 82 | 519 | 100 | 748 | 102 | 869 |
| Leon Trib H | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib J | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib K | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leon Trib M | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Los Reyes Creek | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 3 | 36 | 5 | 75 | 12 | 204 | 16 | 358 |
| Ranch Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Slick Ranch | 0 | 0 | 44 | 213 | 213 | 686 | 144 | 1,111 | 160 | 1,394 | 176 | 1,690 | 215 | 2,119 | 261 | 2,472 |
| Slick Ranch Trib B | 0 | 0 | 0 | 0 | 4 | 12 | 3 | 22 | 3 | 27 | 3 | 32 | 3 | 38 | 3 | 43 |
| Westwood Village | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 20 | 7 | 35 | 7 | 55 | 11 | 78 |
| Total | 3 | \$68 | 145 | \$1,108 | 360 | \$3,143 | 672 | \$7,292 | 1,075 | \$12,368 | 1,696 | \$20,571 | 2,820 | \$37,306 | 4,133 | \$56,880 |

## EXPECTED ANNUAL DAMAGES

Table A-11 shows the expected annual damages (EAD) for each reach in the study. The overall EAD for the watershed is estimated at $\$ 12,325,000$. Single-family residential structures account for 37 percent of total EAD, commercial structures account for 37 percent, privately owned vehicles account for 19 percent, public structures account for two percent, multi-family residential structures account for four percent, and mobile homes, about one percent.

The damage reach with the greaterst impact on EAD is Culebra Creek 1, accounting for 18 percent of the total EAD. Reach 3L of Leon Creek is responsible for 15 percent of the overall EAD. Leon Creek reaches 4,5R, 6 each make up nine percent of EAD. Reach 7 of Leon Creek accounts for eight percent of total EAD. Slick Ranch accounts for seven percent of EAD. Helotes Creek, Huebner Creek, and Leon Creek 2 each account for four percent. The remaining reaches account for less than four percent each toward total EAD.

This analysis focuses on the existing conditions in the Leon Creek Watershed. Given the large area and number of streams and reaches involved, definitions of reaches and damage centers are expected to change as alternatives are explored. Because of small expected annual damages, some reaches or portions of reaches, could be removed from consideration. Additionally, reaches could be combined, based on cross-reach impacts of alternatives that are developed.

Using present-value calculations to equate cost and benefit stream, a Federal interest rate of 4-5/8 percent, a period of analysis of 50 years, and total expected annual damages of $\$ 12,325,000$, along with the assumption of eliminating all of the EAD, a potential sum of project sizes of $\$ 266,486,000$ would yield a benefit-to-cost ratio of 1 . The final column in Table A-11 indicates similar calculations using the same assumptions for potentially supportable projects for each reach.

Table A-11. Expected Annual Damages and Potentially Supportable Projects by Reach (January 2008 Prices - \$000)

| Reach | Commercial | Multi-Family Residential | Mobile Homes | Public | Privately Owned Vehicles | Single- <br> Family Residential | Total EAD | Maximum Supportable Project Size |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Babcock Trib | \$ 4 | \$ 90 | \$ 0 | \$ 4 | \$ 158 | \$ 21 | \$ 277 | \$ 5,989 |
| Chimenea Creek | $<1$ | 0 | 0 | 0 | 0 | 1 | 2 | 43 |
| Culebra Creek 1 | 153 | 0 | 0 | 2 | 606 | 1,418 | 2,178 | 47,092 |
| Culebra Creek 2 | 50 | 0 | 3 | 0 | 19 | 12 | 83 | 1,795 |
| Culebra Trib A | 0 | 0 | 0 | 0 | 27 | 60 | 87 | 1,881 |
| Culebra Trib C | 10 | 0 | < 1 | 0 | 6 | 13 | 29 | 627 |
| Culebra Trib E | 3 | 0 | 0 | 0 | 3 | 12 | 17 | 368 |
| French Creek | 114 | 1 | 0 | 9 | 37 | 109 | 269 | 5,816 |
| French Trib A | 0 | 0 | 0 | 0 | 0 | < 1 | <1 |  |
| Helotes Creek | 73 | 0 | 0 | 11 | 113 | 293 | 491 | 10,616 |
| Helotes Trib A | 42 | 0 | 0 | 0 | <1 | 2 | 44 | 941 |
| Helotes Trib B | 0 | 0 | 0 | 0 | $<1$ | $<1$ | 1 | 22 |


| Reach | Commercial | Multi-Family Residential | Mobile Homes | Public | Privately Owned Vehicles | Single- <br> Family Residential | Total EAD | Maximum Supportable Project Size |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Huebner Creek | 9 | 19 | <1 | 29 | 124 | 301 | 482 | 10,422 |
| Huebner Trib A | 52 | 0 | 0 | 0 | 17 | 46 | 114 | 2,465 |
| Huesta Creek | 0 | 7 | 4 | 0 | 83 | 25 | 118 | 2,551 |
| Indian Creek | 15 | 0 | 0 | $<1$ | 20 | 49 | 84 | 1,816 |
| Leon Creek 1 | 0 | 0 | 1 | 3 | <1 | 0 | 4 | 86 |
| Leon Creek 2 | 68 | 0 | 89 | <1 | 178 | 109 | 444 | 9,622 |
| Leon Creek 3L | 1,733 | 0 | 0 | 0 | 0 | 0 | 1,733 | 37,470 |
| Leon Creek 3R | $<1$ | 0 | 0 | 0 | 0 | 0 | <1 |  |
| Leon Creek 4 | 642 | 158 | <1 | 112 | 31 | 179 | 1,122 | 24,259 |
| Leon Creek 5L | 0 | 0 | 0 | 0 | 90 | 209 | 300 | 6,486 |
| Leon Creek 5R | 290 | 229 | 0 | 0 | 203 | 415 | 1,136 | 24,562 |
| Leon Creek 6 | 878 | 0 | 3 | 37 | 75 | 68 | 1,060 | 22,919 |
| Leon Creek 7 | 35 | 0 | 2 | 2 | 288 | 687 | 1,013 | 21,903 |
| Leon Trib B | 0 | 0 | 0 | 0 | <1 | <1 | <1 |  |
| Leon Trib F | 0 | 0 | 0 | 1 | 38 | 59 | 98 | 2,119 |
| Leon Trib H | 0 | 0 | 0 | 0 | 0 | <1 | <1 |  |
| Leon Trib J | 0 | 0 | 0 | 0 | 0 | <1 | <1 |  |
| Leon Trib K | 162 | 0 | 0 | 0 | 0 | 0 | 162 | 3,503 |
| Leon Trib L | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Leon Trib M | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Los Reyes Creek | 14 | 0 | 0 | <1 | 5 | 9 | 28 | 605 |
| Ranch Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Slick Ranch | 126 | 32 | 0 | 0 | 203 | 492 | 853 | 18,443 |
| Slick Ranch Trib B | 79 | <1 | 0 | 0 | 5 | 2 | 86 | 1,859 |
| WW Village | 3 | 0 | 0 | 0 | 3 | 3 | 8 | 173 |
| Total | \$4,553 | \$535 | \$102 | \$209 | \$2,332 | \$4,593 | \$12,325 | \$266,486 |

## Future Without-Project Expected Annual Damages and Average Annual Equivalents

For this study, future conditions represent 2035, 25 years beyond the 2010 base for existing conditions. Hydraulic and hydrological estimates for the future without-project conditions were entered into HEC-FDA to calculate expected annual damages for the future condition. The structure database was held constant for computation of future expected annual damages. As described in Appendix G. 1 "Hydrologic and Hydraulic Analyses," future conditions generally show increased flows and damages, but some reaches experienced a decrease in flows. On the next page, Table A-12 shows the EAD values for future without-project conditions by economic reach, along with existing conditions EADs for comparison.

To determine any potential benefits from alternatives, these two EAD values were used to create average annual equivalents (AAE) or equivalent annual damages, because full benefits from any alternative would not begin until 2035. Using a Federal interest rate of 4-5/8 percent and time horizon
of 50 years, average annual equivalents (AAE) were computed within HEC-FDA for each reach. The without-project AAE damages are also included in Table A-12.

Table A-12. Existing and Future Without-Project Expected Annual Damages and WithoutProject Average Annual Equivalents
(January 2008 Prices - \$000)

| Reach | Existing WithoutProject EAD | Future Without Project EAD | WithoutProject AAE |
| :---: | :---: | :---: | :---: |
| Babcock Trib | \$ 277 | \$ 430 | \$ 359 |
| Chimenea Creek | 2 | 1 | 2 |
| Culebra Creek 1 | 2,178 | 1,722 | 1,933 |
| Culebra Creek 2 | 83 | 80 | 81 |
| Culebra Trib A | 87 | 98 | 93 |
| Culebra Trib C | 29 | 38 | 34 |
| Culebra Trib E | 17 | 18 | 17 |
| French Creek | 269 | 240 | 254 |
| French Trib A | $<1$ | < 1 | < 1 |
| Helotes Creek | 491 | 500 | 496 |
| Helotes Trib A | 44 | 45 | 45 |
| Helotes Trib B | 1 | <1 | 1 |
| Huebner Creek | 482 | 421 | 449 |
| Huebner Trib A | 114 | 120 | 117 |
| Huesta Creek | 118 | 121 | 120 |
| Indian Creek | 84 | 86 | 85 |
| Leon Creek 1 | 4 | 4 | 4 |
| Leon Creek 2 | 444 | 564 | 508 |
| Leon Creek 3L | 1,733 | 2,179 | 1,972 |
| Leon Creek 3R | < 1 | < 1 | < 1 |
| Leon Creek 4 | 1,122 | 1,199 | 1,163 |
| Leon Creek 5L | 300 | 300 | 300 |
| Leon Creek 5R | 1,136 | 1136 | 1,136 |
| Leon Creek 6 | 1,060 | 1,450 | 1,270 |
| Leon Creek 7 | 1,013 | 1,094 | 1,057 |
| Leon Trib B | <1 | < 1 | <1 |
| Leon Trib F | 98 | 150 | 126 |
| Leon Trib H | <1 | <1 | <1 |
| Leon Trib J | $<1$ | < 1 | $<1$ |
| Leon Trib K | 162 | 182 | 172 |
| Leon Trib L | 0 | 0 | 0 |
| Leon Trib M | 0 | 0 | 0 |


|  | Existing <br> Without- <br> Project EAD | Future <br> Without - <br> Project EAD | Without- <br> Project AAE |
| :--- | :---: | :---: | :---: |
| Loas Reyes Creek | 28 | 39 | 33 |
| Ranch Creek | 0 | 0 | 0 |
| Slick Ranch | 853 | 1,124 | 998 |
| Slick Ranch Trib B | 86 | 99 | 93 |
| WW Village | 8 | 8 | 8 |
| Total | $\mathbf{\$ 1 2 , 3 2 5}$ | $\mathbf{\$ 1 3 , 4 4 9}$ | $\mathbf{\$ 1 2 , 9 2 7}$ |

## PRELIMINARY STRUCTURAL ALTERNATIVES

This section describes how the team began to narrow the focus of the study as a result of the flood damage and cost analysis. Upon reviewing the damages in the overall watershed, 12 areas of interest (AOI), based on structural damage centers, were identified for further study. Then preliminary structural alternatives were developed to address the problems in the areas of interest.

Damages (economic) reaches were identified based on H\&H considerations, such as significant highway crossings or significant confluences with other streams, along Leon Creek and Cuebra Creek. Other streams were treated as single reaches.

Because of the size of the watershed, a method was needed to identify what areas to focus on. Damage centers based on structure damages were coded using ArcView, and maps prepared. Areas of concentrated damage were identified as areas of interest (AOIs). In some cases, and AOI spans an economic reach because of he confluence of to multiple streams or damages existed on either side of a reach break. AOIs were simply used at a method of focusing in or areas for further study. Damages and benefits are all based on economic reach classifications not AOIs.

## Areas of Interest

The damage centers were indicated by clusters of structures that had some significant damage in the same event. An area in the watershed of high or concentrated damage-which can include more than one damage center or areas beyond a particular damage center-determines the location of an AOI. On the next page, Table A-13 describes the geographic location and boundaries of each AOI.

Table A-13. Identified Areas of Interest

| Area of Interest | Stream | Original Reach | AOI Location and Bounds |
| :---: | :---: | :---: | :---: |
| AOI-1 | Leon Creek | LC R2 | On Leon Creek between Quintana Road and New Laredo Highway |
| AOI-2 | Leon Creek | LC R3 | On Leon Creek, just south of its crossing of SW Military Dr |
| AOI-3 | Leon Creek Trib F | LC Trib F | On tributary F of Leon Creek, bounded on the east by S. Callaghan Road, on the south by Old US Highway 90 W, on the west by Gena Road, and on the north by the northern boundary of the tributary's 500-year flood delineation |
| AOI-4 | Slick Ranch Creek | Slick Ranch | On Slick Ranch Creek, upstream of its confluence with Leon Creek. Bounded on the north by State Highway 151, Pinn Road to the east, Marbach Road to the south, and the stream's 500-year floodplain delineation to the west |
| AOI-5 | Culebra Creek Leon Creek | Culebra LC R5 | On Culebra Creek, from its confluence with Leon Creek in Reach 5, and continuing along Culebra Creek, upstream to its confluence with Helotes Creek |
| AOI-6 | Huebner Creek | Huebner | Along Huebner Creek, bounded on the north at its crossing with Bandera Road, and on the south near Brierbrook, on the east and west by the 500-year floodplain delineation of the stream |
| AOI-7 | Leon Creek | LC R5 | Along Leon Creek, from Barryhill Road to the north, Grissom Road to the south, and the stream's 500-year floodplain delineation on the east and west |
| AOI-8 | Huebner Creek | Huebner | Along Huebner Creek, bounded on the north by Parkland Oaks Drive, to the south by Bandera Road, and on the east and west by the 500-year floodplain delineation of the stream |
| AOI-9 | Huebner Creek | Huebner | Along Huebner Creek from just above Babcock Road on the north, to the crossing at Whitby Road to the south, and on the east and west by the 500-year floodplain delineation |
| AOI-10 | Leon Creek | LC 6 | Along Leon Creek, beginning at Mission Cemetery on the north, along the stream parallel to I-10 W, to just south of Old Camp Bullis Road. |
| AOI-11 | Leon Creek <br> Leon Creek <br> Leon Creek Trib L | $\begin{aligned} & \text { LC } 6 \\ & \text { LC } 7 \end{aligned}$ | Along tributary L of Leon Creek, just southeast of the intersection of Broad Oak Trail and Boerne Stage Road to the northwest, following the stream to its confluence with Leon Creek at l-10 W |
| AOI-12 | Helotes Creek | Helotes | On Helotes Creek, roughly bounded on the north by Pond Road, to the east by Ink Wells and Pine Branch, the south by Village Basin, and to the west by W Loop 1605 N |

On page A-58, Figure A-5 shows the location of the 12 areas of interest within the watershed.


Figure A-5. Leon Creek Areas of Interest

To address the areas of interest, 18 preliminary structural alternatives were developed, along with water surface profiles. In addition to existing conditions, future conditions were developed for each alternative, and average annual equivalent damages were computed using HEC-FDA with an interest rate of $4-5 / 8$ percent and an analysis horizon of 50 years. For descriptions of the alternatives with area maps, see the main report. For information on the water surface profiles, see Appendix G. 1 "Hydrologic and Hydraulic Analysis."

Benefits are the dollar amount of flood damages reduced by a given alternative. The reduction in flood damages is measured by the difference in average annual equivalents of the without- and with-project conditions. Table A-14 provides a summary of each alternative, its without- and with-project AAE, and the resulting annual benefit.

Table A-14. Preliminary Average Annual Equivalent Damages Summary

| Alternative | Name | Target Area of Interest | WithoutProject AAE (\$) | With-Project AAE (\$) | Total <br> Annual Benefits (\$) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Leon Creek Overbank Mod | AOI-1 | 12,927,160 | 12,725,580 | 201,580 |
| 2 | Leon Creek 100-Year Levee | AOI-2 | 12,927,160 | 10,961,730 | 1,965,430 |
| 3 | Leon Creek 500-Year Levee | AOI-2 | 12,927,160 | 10,910,270 | 2,016,890 |
| 4 | Leon Creek Bypass Channel | AOI-2 | 12,927,160 | 11,702,820 | 1,224,340 |
| 5 | Slick Ranch Creek Channel Mod | AOI-4 |  |  |  |
| 6 | Leon Trib F 500-Year Levee | AOI-3 | 12,927,160 | 12,801,320 | 125,840 |
| 7 | Huebner Trib A Pond | AOI-8, 6 | 12,927,160 | 12,430,330 | 496,830 |
| 8 | Huebner Channel Mod | AOI-9 | 12,927,160 | 12,911,760 | 15,400 |
| 9 | LC-15: Huebner Creek RSWF at Prue Road | AOI-9 | 12,927,160 | 12,659,740 | 267,420 |
| 10 | Helotes Channel Mod | AOI-12 | 12,927,160 | 12,819,350 | 107,810 |
| 11 | DC-12 Helotes Creek RSWF | AOI-12, 5, 2, 1 | 12,927,160 | 11,162,360 | 1,764,800 |
| 12 | Helotes Quarry Pond | AOI-12, 5, 2, 1 | 12,927,160 | 10,847,550 | 2,079,610 |
| 13 | Government Canyon RSWF | AOI-5 | 12,927,160 | 11,216,460 | 1,710,700 |
| 14 | Government Canyon RSWF | AOI-5 | 12,927,160 | 10,803,370 | 2,123,790 |
| 15 | Leon 100-Year Levee | AOI-7 | 12,927,160 | 12,483,890 | 443,270 |
| 16 | Leon 500-Year Levee | AOI-7 | 12,927,160 | 12,507,720 | 419,440 |
| 17 | Quarry at the Rim | AOI-7 and above | 12,927,160 | 12,157,530 | 769,630 |
| 18 | AOI-11 Ponds | AOI-11 | 12,927,160 | 11,817,490 | 1,109,670 |

## ANALYSIS OF STRUCTURAL MEASURES FLOOD RISK MANAGEMENT BENEFITS, COSTS, AND NET BENEFITS

During the plan formulation of the structural alternatives, the values of structures and contents were updated to reflect October 2010 prices. Costs for the analysis used during preliminary plan formulation were provided by Halff \& Associates, who were responsible for modeling the alternatives. Additionally, average annual equivalents and annualized costs were calculated using a Federal discount rate of $4.125 \%$. An updated summary of the average annual equivalents (AAE) for the without project scenario is presented in Table A-22.

## Table A-22. Without Project Average Annual Equivalents

 October 2010 Prices, \$1,000| Reach | Average <br> Annual <br> Equivalents |
| :--- | ---: |
| Babcock Trib | 382.11 |
| Chimenea Creek | 1.57 |
| Culebra Creek Reach 1 | $1,977.59$ |
| Culebra Creek Reach 2 | 85.68 |
| Culebra Creek Trib A | 97.94 |
| Culebra Creek Trib C | 36.12 |
| Culebra Creek Trib E | 18.18 |
| French Creek | 266.43 |
| Frech Creek Trip A | 0.01 |
| Helotes Creek | 521.52 |
| Helotes Creek Trib A | 46.93 |
| Helotes Creek Trib B | 0.52 |
| Huebner Creek | 471.36 |
| Huebner Creek Trib A | 123.45 |
| Huesta Creek | 126.47 |
| Indian Creek | 89.50 |
| Leon Creek Reach 1 | 4.14 |
| Leon Creek Reach 2 | 528.93 |
| Leon Creek Reach 3 Right | 0.22 |
| Leon Creek Reach 3 Left | $1,937.56$ |
| Leon Creek Reach 4 | $1,165.58$ |
| Leon Creek Reach 5 Right | $1,034.32$ |
| Leon Creek Reach 5 Left | 310.79 |
| Leon Creek Reach 6 | $1,388.08$ |
|  |  |


| Leon Creek Reach 7 | $1,131.71$ |
| :--- | ---: |
| Leon Creek Trib B | 0.32 |
| Leon Creek Trib F | 133.75 |
| Leon Creek Trib H | 0.21 |
| Leon Creek Trib J | 0.09 |
| Leon Creek Trib K | 181.87 |
| Leon Creek Trib M | 0.00 |
| Los Reyes Creek | 35.44 |
| Ranch Creek | 0.00 |
| Slick Ranch | $1,388.67$ |
| Slick Ranch Trib B | 98.29 |
| Westwood Village Creek | 8.10 |
| Total AAE | $\mathbf{\$ 1 3 , 5 9 3 . 4 5}$ |

## Alternative 1

Alternative 1 targeted damages in AOI-1, located in reach 2 of Leon Creek with additional impacts to reaches 3L and 3R of Leon Creek. This alternative consisted of removing the high point on one side of the creek to allow overbank storage sufficient enough to contain the 5 -year AEP event. The withproject AAE is $\$ 13,444,070$, resulting in annual benefits of $\$ 149,500$. Annual costs for the this alternative are estimated at $\$ 987,000$, yielding net annual benefits of $-\$ 837,550$ and a benefit-to-cost ratio of 0.15 . With negative net benefits, this alternative was not carried forward.

Table A-23. Summary of Net Annual Benefits for AOI-1

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 1 | $\$ 13,444,070$ | $\$ 149,500$ | $\$ 987,000$ | $-\$ 837,550$ | 0.15 |

## Alternative 2, 3, and 4

Alternatives 2-4 targeted damages in AOI-2, the test cell facility, located in reach 3 of Leon Creek with additional impacts to reach 4 of Leon Creek. These alternatives consisted of various levees on the left bank of Leon Creek and bypass channels constructed on the right hand bank of Leon Creek.

Alternative 2 is a levee designed to contain the 100-year AEP event. The initial with-project AAE is $\$ 12,543,800$, resulting in annual benefits of $\$ 1,049,000$. Annual costs for the this alternative are estimated at $\$ 593,700$, yielding net annual benefits of $\$ 456,200$ and a benefit-to-cost ratio of 1.77. However, the alternative resulted induced annual damages of $\$ 250$ upstream related higher water surface elevations. These reported AAE does not include these induced damages. Alternative 2B is a refinement of Alternative 2 to reduce the induced damages and incorporate interior drainage features in the project costs. Alternative 2B has an AAE of $\$ 12,072,670$ yielding annual benefits of $\$ 1,520,880$. Annual costs were estimated at $\$ 637,400$ yielding net annual benefits of $\$ 883,480$ and a
benefit-to-cost ratio of 2.39. With the refinements, $\$ 100$ of annual induced damages remained. Alternative 2B with Hydraulic Mitigation was a further refinement on Alternative 2B to include upstream channel modifications to address the remaining induced damages. This refined alternative has an AAE of $\$ 11,843,950$, yielding annual benefits of $\$ 1,749,500$. Annual costs were estimated at $\$ 828,700$ yielding net annual benefits of $\$ 920,800$ and a benefit-to-cost ratio of 2.11 . Additionally, induced damages upstream were eliminated. This final refinement of Alternative 2 is carried forward .

Alternative 3 consisted of a levee designed to contain the 500-year AEP event on the left bank. The alternative had an AAE of $\$ 11,659,930$, yielding an annual benefit of $\$ 1,933,800$. Annual costs are estimated to be $\$ 789,300$, yielding net annual benefits of $\$ 1,144,500$ and a benefit-to-cost ratio of 2.45. The alternative resulted in $\$ 280$ of annual induced damages upstream, not included in the AAE.

Alternative 4 considered a by-pass channel constructed on the right bank of Leon Creek in reach 3. A preliminary 100 ft channel was modeled and giving an AAE of $\$ 12,466,140$, yielding annual benefits of $\$ 1,127,310$. Annual costs were estimated at $\$ 239,600$, yielding annual net benefit of $\$ 887,710$ and a benefit-to-cost ratio of 4.10. This alternative was carried forward for refinement in modeling and cost estimates, and additional widths were considered. Alternative 4A considered a 25 foot channel, Alternative 4B considered an 40 foot channel, and Alternative 4C considered a refined 100 foot channel from Alternative 4. A summary of the refined alternatives is shown in Table A-23.

Table A-24. Summary of Net Annual Benefits for AOI-2

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 2 | $\$ 12,543,800$ | $\$ 1,049,000$ | $\$ 593,700$ | $\$ 456,200$ | 1.77 |
| 2B | $\$ 12,072,670$ | $\$ 1,520,880$ | $\$ 637,400$ | $\$ 883,480$ | 2.39 |
| 2B w/ Mit. | $\$ 11,843,950$ | $\$ 1,749,500$ | $\$ 828,700$ | $\$ 920,800$ | 2.11 |
| 3 | $\$ 11,659,930$ | $\$ 1,933,800$ | $\$ 789,300$ | $\$ 1,144,500$ | 2.45 |
| 4 | $\$ 12,466,140$ | $\$ 1,127,310$ | $\$ 239,600$ | $\$ 887,710$ | 4.70 |
| 4A | $\$ 13,137,720$ | $\$ 455,730$ | $\$ 152,800$ | $\$ 302,930$ | 2.98 |
| 4B | $\$ 13,047,810$ | $\$ 545,640$ | $\$ 165,800$ | $\$ 379,840$ | 3.29 |
| 4C | $\$ 12,892,321$ | $\$ 701,140$ | $\$ 220,300$ | $\$ 480,840$ | 3.18 |
| 2B + 4C | $\$ 11,842,220$ | $\$ 1,751,490$ | $\$ 813,300$ | $\$ 938,190$ | 2.15 |
| 2B w/ Mit. + | $\$ 11,508,610$ | $\$ 1,750,260$ | $\$ 1,001,600$ | $\$ 748,660$ | 2 |
| 4C | $\$ 11,320,770$ | $\$ 1,938,090$ | $\$ 1,154,300$ | $\$ 783,790$ | 1.75 |
| 3 w/ Mit. + 4C |  |  |  | 1.68 |  |

While all three variations had positive net annual benefits, none of the three refinements exceeded the net annual benefits of the levee alternatives.

Prior to modeling Alternative 2B with hydraulic mitigation, a combination of the 100 year levee (Alternative 2B) and the 100 foot bypass channel (Alternative 4C) was considered. The combination had an AAE of $\$ 11,842,220$, yielding annual benefits of $\$ 1,751,490$. The annual cost of the combination is estimated at $\$ 812,100$, yielding net annual benefits of $\$ 938,190$ and a benefit-to-cost ratio of 2.15 . While having higher net benefits, the alternative did not reduce the induced damages as intended.

Two additional combinations of alternatives were also analyzed for AO2. The first combination included the 100 year levee with mitigation and the 100 ' bypass channel. The annual benefits for this combination is $\$ 1,750,250$ and annual costs are $\$ 1,001,600$, yielding net annual benefits of $\$ 748,660$ and a benefit-to-cost ratio of 1.75 . The second combination included the alternative 3 , the 500 year levee to include hydraulic mitigation and the 100 ' bypass channel. For this combination, annual benefits are $\$ 1,938,090$ and annual costs are $\$ 1,154,300$. This yielded net annual benefits of $\$ 738,790$ and a benefit-to-cost ratio of 1.68 .

Alternative 2B (100 year levee with hydraulic mitigation), the combination of alternative 2B and 4C, and the combination of alternative 3 (with hydraulic mitigation) and 4 c were carried forward for further consideration with cost refinements.

## Alternative 5

Alternative 5 consisted of channel improvements along Slick Ranch Creek to address damages in AOI-4. The AAE for this alternative is $\$ 13,392,860$, yielding annual benefits of $\$ 200,590$. During the plan formulation screen process, it was learned that the City of San Antonio and constructed alternatives in the reach after the existing conditions were prepared, and the sponsor felt that damages through the 100-year AEP had been addressed and made the decision to not proceed with additional investigation along this reach.

Table A-25. Summary of Net Annual Benefits for AOI-4

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 5 | $\$ 13,392,860$ | $\$ 200,590$ | - | - | - |

## Alternative 6

Alternative 6 was developed to address damages in AOI-3, located on Leon Creek Trib F. The preliminary alternative consisted of a levee to contain the 500-year AEP event. The AAE for the alternative is $\$ 13,474,430$, yielding annual benefits of $\$ 119,020$. Annual costs for the alternative was estimated at $\$ 73,700$, yielding a net annual benefit of $\$ 45,320$ and a benefit-to-cost ratio of 1.61 . The local sponsor chose not to proceed with investigation of this alternative.

Table A-26. Summary of Net Annual Benefits for AOI-3

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 6 | $\$ 13,474,430$ | $\$ 119,020$ | $\$ 73,700$ | $\$ 45,320$ | 1.61 |

## Alternative 7

Alternative 7 was developed to address damages in AOI 8 and AOI 6, both located on Heubner Creek. The alternative consisted of detention pond at the confluence of Huebner Trib A and Huebner Trib B. The AAE for the alternative is $\$ 13,319,190$, yielding annual benefits of $\$ 284,040$. The annual cost for
the alternative is estimated at $\$ 1,028,400$, yielding net annual benefits of $-\$ 744,360$. Additionally, the alternative generated $\$ 9,780$ in annual induced damages. Because of the negative net benefits, the alternative was not carried forward for further analysis or consideration.

Table A-27. Summary of Net Annual Benefits for AOI-6 and 8

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | :---: | ---: | :---: | :---: | :---: |
| 7 | $\$ 13,319,190$ | $\$ 284,040$ | $\$ 1,028,400$ | $-\$ 744,360$ | 0.28 |

## Alternative 8 and 9

Alternatives 8 and 9 were developed to address damages in AOI 9, located on Huebner Creek. Alternative 8 consisted of a channel modification to widen and deepen Huebner Creek. The AAE for Alternative 8 is $\$ 13,577,210$, yielding annual benefits of $\$ 16,240$. The annual cost is estimated to be $\$ 78,700$, yielding net annual benefits of $-\$ 62,460$ and a benefit-to-cost ratio of 0.21 . With negative net annual benefits, the alternative was not carried forward.

Alternative 9 consists of a detention pond on Heubner Creek located just upstream of Prue Road. The facility is currently in design phase, with construction by the Bexar County Flood Control District to begin in the late 2012 to 2013 time frame. The alternative is being considered to determine if it might be included the recommended plan resulting from this study. The AAE for this alternative is $\$ 13,565,200$, yielding annual benefits of $\$ 35,230$. The annual cost of this alternative is estimated at $\$ 279,300$, yielding net annual benefits of $-\$ 244,070$ and a benefit-to-cost ratio of 0.13 . Given the negative net annual benefits, the alternative was not carried forward.

Table A-28. Summary of Net Annual Benefits for AOI-9

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | ---: | ---: | :---: | :---: | :---: |
| 8 | $\$ 13,577,210$ | $\$ 16,240$ | $\$ 78,700$ | $-\$ 62,460$ | 0.21 |
| 9 | $\$ 13,565,200$ | $\$ 35,230$ | $\$ 279,300$ | $-\$ 244,070$ | 0.13 |

## Alternative 10

Alternative 10 was developed to address damages in AOI 12, located on Helotes Creek. The alternative consists of tree and brush clearing from the channel and overbank area. The AAE for the alternative is $\$ 13,486,660$, yielding annual benefits of $\$ 106,790$. Annual costs for this alternative is estimated at $\$ 431,200$, yielding annual net benefits of $-\$ 324,410$ and a benefit-to-cost ratio of 0.25 . Given negative net benefits, the alternative was not carried forward.

Table A-29. Summary of Net Annual Benefits for AOI-12

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 10 | $\$ 13,486,660$ | $\$ 106,790$ | $\$ 431,200$ | $-\$ 324,410$ | 0.25 |

## Alternatives 11 and 12

Alternatives 11 and 12 were developed to address damages in AOIs 12, 5, 2 and 1 . AOI 12 located on Helotes Creek, AOI 5 located on Culebra Creek Reach 1 and Leon Creek Reach 5, AOI 2 is located on Leon Creek Reach 3, and AOI 1 I located on Leon Creek Reach 2.

Alternative 11 consists of a detention pond with a 28.5 foot high dam located on Helotes Creek south of FM 1560. The AAE for the alternative is $\$ 12,091,260$, yielding annual benefits of $\$ 1,540,530$. Annual costs are estimated at $\$ 678,000$, yielding net annual benefits of $\$ 862,530$ and a benefit-to-cost ratio of 2.27.

Alternative 12, also a detention pond, utilizes a near-by quarry. Located downstream of FM1560 on Helotes Creek and upstream of Alternative 11, this pond would have a lateral weir to redirect flow and take advantage of approximately 5,000 acre-feet of storage within the quarry. The AAE for the alternative is $\$ 11,566,850$, yielding annual benefits of $\$ 2,026,600$. Annual costs are estimated at $\$ 498,000$, yielding net annual benefits of $\$ 1,528,600$ and a benefit-to-cost ratio of 4.07 . Alternative 12 provides significantly greater net annual benefits over Alternative 11, and therefore will be carried forward.

Table A-30. Summary of Net Annual Benefits for AOI-12, 5, 2 and 1

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 11 | $\$ 12,091,260$ | $\$ 1,540,530$ | $\$ 678,000$ | $\$ 862,530$ | 2.27 |
| 12 | $\$ 11,566,850$ | $\$ 2,026,600$ | $\$ 498,000$ | $\$ 1,528,600$ | 4.07 |

## Alternatives 13 and 14

Alternatives 13 and 14 were developed to address damages in AOI 5, located on Culebra Reach 1, Culebra Reach 2 and Leon Creek Reach 5. Additional benefits downstream of Leon Creek Reach 5 are also expected. Both alternatives consider detention areas in Government Canyon on Culebra Creek.

Alternative 13 consists of a pond created by a 60 -foot high 350 -foot wide dam to be located on Culebra Creek approximately 1.5 miles upstream of the Government Canyon park entrance. The pond will provide approximately 5,600 acre-feet of storage. The AAE for Alternative 13 is $\$ 12,138,410$, yielding annual benefits of $\$ 1,455,040$. Annual costs are estimated at $\$ 1,630,500$, yielding net annual benefits of $-\$ 175,460$ and a benefit-to-cost ratio of 0.89 .

Alternative 14 is a Leon Creek Master Plan Detention Site analyzed with USAEP hydrology at the request of the non-Federal sponsor. It consisted of a 51-foot high dam to be located upstream of Alternative 13 with maximum storage of approximately 6,900 acre-feet. The AAE for this alternative is $\$ 11,671,520$, yielding annual benefits of $\$ 1,921,930$. Annual costs are estimated at $\$ 858,000$, yielding net annual benefits of $\$ 1,063,930$, and a benefit-to-cost ratio of 2.24.

Because of the environmental and cultural significance of the Government Canyon area, a smaller version of Alternative 14 was considered, and is identified as Alternative 14B. The AAE for the alternative is $\$ 13,051,610$, yielding annual benefits of $\$ 541,840$. Annual costs are estimated at $\$ 984,300$, yielding net annual benefits of $-\$ 442,460$, and a benefit-to-cost ratio of 0.55 .

Alternative 14 is the only Government Canyon alternative to provide positive annual benefits. However, the preliminary costs did not include environmental or cultural mitigation costs. It was determined by the PDT that these costs would be significant enough as to diminish any positive net annual benefits, and therefore the alternative was not carried forward.

Table A-31. Summary of Net Annual Benefits for AOI-12, 5, 2 and 1

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | ---: | ---: | :---: | :---: | :---: |
| 13 | $\$ 12,138,410$ | $\$ 1,455,040$ | $\$ 1,630,500$ | $-\$ 175,460$ | 0.89 |
| 14 | $\$ 11,671,520$ | $\$ 1,921,930$ | $\$ 858,000$ | $\$ 1,063,930$ | 2.24 |
| $14 B$ | $\$ 13,051,610$ | $\$ 541,840$ | $\$ 984,300$ | $-\$ 442,460$ | 0.55 |

## Alternatives 15, 16, 20 and 21

Alternatives 15, 16, 20 and 21 were developed to address damages in AOI-7, located in reach 5 of Leon Creek. Alternatives 15 and 16 considered levees, while alternatives 20 and 21 considered channel modifications in the same area.

Alternative 15 consists of a levee designed to contain the 100-year AEP event, with the levee on the left bank of the creek. The alternative has AAE of $\$ 13,291,180$ yielding annual benefits of $\$ 310,790$. Annual costs are estimated at $\$ 1,204,500$, yielding net annual benefits of $-\$ 893,710$ and a benefit-to-cost ratio of 0.26 . Initially this alternative indicated positive net annual benefits, but costs to handle interior drainage issues had been not been included. Once those costs were included, net benefits became negative.

Alternative 16 consists of a levee designed to contain the 500-year AEP event, again, with the levee on the left bank of Leon Creek. The AAE for the alternative is $\$ 13,322,910$, yielding annual benefits of $\$ 304,360$. The annual costs are estimated at $\$ 414,500$, yielding net annual benefits of -\$110,140.

Alternative 20 consists of a 300 foot channel modification on Leon Creek in Reach 5. The AAE for the alternative is $\$ 13,273,280$, yielding annual benefits of $\$ 320,170$. Annual costs are estimated at $\$ 920,400$, yielding net annual benefits of $-\$ 600,230$ and a benefit-to-cost ratio of 0.35 .

Alternative 21 consists of a 200 foot channel modification on Leon Creek in Reach 5. The AAE for the alternative is $\$ 13,283,160$, yielding annual benefits of $\$ 310,290$. Annual costs are estimated at $\$ 352,800$, yielding net benefits of $-\$ 42,510$ and a benefit-to-cost ratio of 0.88 .

With the benefit-to-cost ratio near unity, the PDT decided to look at a 100 foot channel modification using rough estimates. Preliminary results showed a favorable benefit-to-cost ratio of 1.37, and the PDT chose to consider a refinement of the 100 foot channel modification, along with a 85 foot channel modification and a 150 foot channel modification.

The results of these variation of Alternative 21 are shown in Table A-24.

Table A-32. Summary of Net Annual Benefits for AOI-7

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 15 | $\$ 13,291,180$ | $\$ 310,790$ | $\$ 1,204,500$ | $-\$ 893,710$ | 0.26 |
| 16 | $\$ 13,322,910$ | $\$ 304,360$ | $\$ 414,500$ | $-\$ 110,140$ | 0.73 |
| 17 | $\$ 13,199,770$ | $\$ 401,080$ | $\$ 1,342,600$ | $-\$ 941,520$ | 0.30 |
| 20 | $\$ 13,273,280$ | $\$ 320,170$ | $\$ 920,400$ | $-\$ 600,230$ | 0.35 |
| 21 | $\$ 13,283,160$ | $\$ 310,290$ | $\$ 352,800$ | $-\$ 42,510$ | 0.88 |
| 21C 150 ft. | $\$ 13,277,880$ | $\$ 315,570$ | $\$ 352,500$ | $-\$ 36,930$ | 0.90 |
| 21D 100 ft. | $\$ 13,301,910$ | 291,540 | 262,000 | 29,540 | 1.11 |
| 21E 85 ft. | $\$ 13,319,680$ | 273,770 | 238,100 | 35,670 | 1.15 |

Both of the levee alternatives resulted in negative net annual benefits, and were not carried forward. Of the channel modification alternatives, the 85 foot channel modification, Alternative 21E, resulted in the greatest net annual benefits, and will be carried forward.


#### Abstract

Alternative 17 Alternative 17 was developed to address damages in AOI 7, located in Leon Creek Reach 5, but benefits were anticipated to downstream reaches of Leon Creek as well. The alternative consists of diverting flows from Leon Creek into a quarry. The location is part of the Leon Creek Master Plan and is located north of Loop 1604 and east of $\mathrm{IH}-10$. The AAE for this alternative are $\$ 13,199,770$, yielding annual benefits of $\$ 401,080$. Annual costs are estimated at $\$ 1,342,600$, yielding net annual benefits of $\$-941,520$ and a benefit-to-cost ratio of . 30 . Conversations with the quarry owner revealed the quarry was expected to be in operation for approximately 20 years and there was no interest to sale the property. Costs were therefore significant for this alternative, including buying out the potential revenues from the quarry, resulting in negative net benefits.


## Alternative 18

Alternative 18 was developed to address damages in AOI 11, located on Leon Creek Reaches 6 and 7. The alternative consists of consisted of two ponds located upstream of AOI-11. Leon Trib M Pond is an inline pond located approximately 4,000 feet upstream of the northernmost crossing of Boerne Stage Road. It has a 42 -foot high 300 -foot wide dam providing storage of approximately 350 acrefeet. Leon XS 285313 Pond is an inline pond approximately 1.3 miles upstream of the crossing of Leon Creek and Huntress Lane. It has a 38 -foot high 350 -foot wide dam providing storage of approximately 450 acre-feet. The AAE for the alternative is $\$ 12,538,300$, yielding annual benefits of
$\$ 1,055,150$. Annual costs are estimated at $\$ 1,054,100$, yielding net annual benefits of $\$ 1,050$ and a benefit-to-cost ratio of 1.00 . With minimal annual benefits, and believing the area to have historical significance leading to a politically charged environment, the local sponsor chose to not move forward with this alternative.

Table A-33. Summary of Net Annual Benefits for AOI-11

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 18 | $\$ 13,291,180$ | $\$ 1,055,150$ | $\$ 1,054,100$ | $\$ 1,050$ | 1.00 |

## Alternative 22

Alternative 22 was developed to address damages in AOIs 6,8 and 9 . The alternative is a combination of Alternative 7 (detention on Huebner Trib A) and Alternative 9 (detention on Heubner Creek at Prue Road). The AAE for the alternative is $\$ 13,293,700$, yielding annual benefits of $\$ 311,700$. Annual costs for the alternative are estimated at $\$ 1,270,100$, yielding net annual benefits of $-\$ 958,400$ and a benefit to cost ratio. Given negative net benefits, the alternative was not carried forward.

Table A-34. Summary of Net Annual Benefits for AOI-6, 8 and 9

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 22 | $\$ 13,293,700$ | $\$ 311,700$ | $\$ 1,270,100$ | $-\$ 958,400$ | 0.25 |

## Alternative 23

Alternative 23 was developed to address damages in the lower end of AOI 5, at the confluence of Culebra Creek Reach 1 and Leon Creek. The alternative consists of channel modifications to Leon Creek at the confluence. The initial AAE for the alternative is $\$ 13,420,060$, yielding annual benefits of $\$ 173,390$. Annual costs for the alternative are estimated at $\$ 211,400$, yielding net annual benefits of $\$ 32,640$ and a benefit-to-cost ratio of 0.85 .

A second configuration of this alternative was created to investigate if the net benefits could be shifted in the positive direction. Alternative 23C resulted in an AAE of $\$ 13,417,390$, yielding annual benefits of $\$ 176,060$. Annual costs were estimated at $\$ 228,100$, yielding net annual benefits of $-\$ 52,040$ and a benefit-to-cost ratio of 0.77 .

Table A-35. Summary of Net Annual Benefits for AOI-5

| Alternative | AAE | Annual <br> Benefits | Annual Costs | Net Annual <br> Benefits | B-C Ratio |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 23 | $\$ 13,420,060$ | $\$ 178,760$ | $\$ 211,400$ | $-\$ 32,640$ | 0.85 |
| $23 B$ | $\$ 13,417,390$ | $\$ 176,060$ | $\$ 228,100$ | $-\$ 52,040$ | 0.77 |

## ANALYSIS OF NON-STRUCTURAL PERMENANT FLOODPLAIN EVACUTION ALTERNATIVES

Given the size of the study area, a choice was made to identify potential non-structural alternatives by identifying concentrated areas where structures were being inundated by $2-.5-, 10-$ and 25 -year AEP events. Each structure was given an attribute that indicated the first AEP event where the water surface elevation exceeded the finished floor elevation. Using ArcGIS, structures were color coded by these event assignments and significant clusters of structures that were in the four AEP events were identified. This produced 17 clusters, or non-structural areas of interest. The reach location and composition of each of the NS AOIs is presented in Table A-36.

Table A-36 Structures By AEP Event in Non-Structural Areas of Interest

| NonStructural Area of Interest | Stream Reach | Composition <br> Each event is inclusive of the more frequent event) |
| :---: | :---: | :---: |
| NS AOI 1 | Leon Creek Reach 7 | 17 single family residential structures in the 10 year event 69 single family residential structures in the 25 year event 1 mobile home in the 25 year event |
| NS AOI 2 | Leon Creek Reaches 6 and 7 | 4 commercial structures in the 10 year event <br> 1 public structure in the 10 year event <br> 21 commercial structures in the 25 year event <br> 6 public structures in the 25 year event <br> 2 single family residential structures in the 25 year event |
| NS AOI 3 | Leon Creek Reach 6 | 4 single family residential structures in the 25 year event 17 commercial structures in the 25 year event |
| NS AOI 4 | Babcock Trib | 7 multi-family structures in the 5 year event <br> 7 multi-family structures in the 10 year event <br> 2 single family residential structures in the 10 year event <br> 7 multi-family structures in the 25 year event <br> 4 single family residences in the 25year event |
| NS AOI 5 | Leon Creek Reach 5R | 13 commercial structures in the 25 year event <br> 1 single family residential structures in the 25 year event |
| NS AOI 6 | Culebra Trib A | 4 single family residential structures in the 10 year event 9 single family residential structures in the 25 year event |
| NS AOI 7 | Culebra Creek Reach 1 | 5 commercial structures in the 25 year event 1 single family residential structure in the 25 year event |
| NS AOI 8 | Culebra Creek Reach 1 | 33 single family residential structures in the 25 year event |
| NS AOI 9 | Culebra Creek Reach 1 | 6 single family residential structures in the 10 year event 26 single family residential structures in the 25 year event |
| NS AOI 10 | Huebner Creek | 11 single family residential structures in the 25 year event 1 public structure in the 25 year event |
| NS AOI 11 | Huebner Creek | 16 single family residential structures in the 25 year event 1 commercial structure in the 25 year event |
| NS AOI 12 | No AOI 12 was actually identified. Number was inadvertently skipped when areas were being selected and named. |  |
| NS AOI 13 | Leon Creek Trib F | 20 single family residential structures in the 25 year event 1 public structure in the 25 year event |
| NS AOI 14 | Leon Creek Reach 2 | 10 single family residential structures in the 10 year event 14 commercial structures in the 10 year event 81 mobile homes in the 10 year event 12 single family residential structures in the 25 year event |


|  |  | 19 commercial structures in the 25 year event |
| :--- | :--- | :--- |
|  |  | 85 mobile homes in the 25 year event |
| NS AOI 15 | Leon Creek Reach 2 | 5 single family residential structures in the 10 year event |
|  |  | 6 commercial structures in the 10 year event |
|  |  | 13 single family structures in the 25 year event |
|  |  | 6 commercial structures in the 25 year event |
|  |  | 27 mobile homes in the 25 year event |
| NS AOI 16 | Indian Creek | 6 commercial structures in the 5 year event |
|  |  | 9 commercial structures in the 25 year event |
| NS AOI 17 | Indian Creek | 13 agricultural barns in the 10 year event |
|  |  | 1 single family residential structure in the 10 year event |

To initially screen the non-structural alternatives for each event for each area of interest, acquisition costs of each structure were based on the value of improvements and land from the county appraisal district database. These values are lower than the actual market value of the properties, so any alternatives that would not generate positive net benefits with these values, they would not generate positive net benefits from values determined from real estate reconnaissance. Demolition and debris removal costs for each alternative were based on a square foot price taken from costs estimates prepared for other studies in the district.

To determine annual benefits, a separate HEC-FDA run was made for each AEP Event for each nonstructural AOI. The resulting equivalent damages for each run would represent the reduction in annual equivalent damages for the alternative, and would therefore be equivalent to the benefits derived from their permanent removal.


Table A-37. Annual Net Benefits for Preliminary Screen of Non-Structural Alternatives

| Non-Structural Area of Interest | AEP Event | Annual Benefits | Annual Costs | Annual Net Benefits | Benefit-to-Cost Ratio |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NS AOI 1 | 10 | \$265,790 | \$278,410 | -\$12,620 | . 95 |
|  | 25 | 1,070,659 | 637, 580 | -433,079 | . 60 |
| NS AOI 2 | 10 | 26,060 | 27,595 | -1,899 | . 93 |
|  | 25 | 919,270 | 969,036 | -49,766 | . 95 |
| NS AOI 3 | 25 | 59,780 | 162,101 | -102,321 | . 37 |
| NS AOI 4 | 5 | 322,420 | 71,468 | 250,952 | 4.51 |
|  | 10 | 348,160 | 98,832 | 249,328 | 3.52 |
|  | 25 | 358,580 | 125,252 | 23,328 | 2.86 |
| NS AOI 5 | 25 | 258,690 | 286,421 | -27,731 | . 90 |
| NS AOI 6 | 10 | 22,770 | 38,650 | -15,880 | . 59 |
|  | 25 | 36,990 | 106,034 | -69,044 | . 35 |
| NS AOI 7 | 25 | 17,510 | 49,647 | -32,137 | . 35 |
| NS AOI 8 | 25 | 171,400 | 325,183 | -153,783 | . 53 |
| NS AOI 9 | 10 | 50,640 | 64,038 | -13,398 | . 79 |
|  | 25 | 156,970 | 273,679 | -116,709 | . 57 |
| NS AOI 10 | 25 | 40,340 | 131,148 | -90,808 | . 31 |
| NS AOI 11 | 25 | 48,800 | 150,291 | -101,491 | . 32 |
| NS AOI 13 | 25 | 73,020 | 267,730 | -194,710 | . 27 |
| NS AOI 14 | 10 | 275,490 | 369,235 | -93,475 | . 75 |
|  | 25 | 293,620 | 411,416 | -117,796 | . 71 |
| NS AOI 15 | 10 | 30,440 | 25,170 | 4,730 | 1.18 |
|  | 25 | 141,710 | 127,609 | 14,101 | 1.11 |
| NS AOI 16 | 5 | 910 | 62,821 | -61,911 | . 01 |
|  | 25 | 1,520 | 100,847 | -99,327 | . 02 |
| NS AOI 17 | 10 | 47,430 | 26,640 | 20,790 | 1.78 |

Knowing that cost estimates used for preliminary analysis were understated, those alternatives with negative net benefits would not realize an increase in net benefits.

NS-AOI 4 (5-, 10-, and 25-year AEP alternatives),NS AOI 5 (25-year), NS AOI 9 (10-year), NS AOI 14 (10-, and 25 -year), and NS AOI 15(10-, and 25-year) alternatives were carried forward for because of positive net benefits or the possible potential for adding recreation or ecosystem restoration. NS AOI 17 had positive net benefits, but with further investigation, the structures were on a single isolated
parcel with a single land owner and not near any of the other non-structural alternatives. NS AOI 17 was not carried forward.

For those alternatives carried forward, real estate costs were developed at a reconnaissance level and quantities developed by civil engineering for demolition and debris removal were used by cost engineering to develop first costs. Table A. 37 presents the net benefit calculated for these alternatives using refined costs.

Table A-38. Evaluation of Non-Structural Alternatives Using Refined Costs

| Alternative | First Cost | Annual Cost | Annual Benefit | Net Benefits | Benefit-to-Cost Ratio |
| :---: | ---: | ---: | ---: | ---: | ---: |
| NS AOI 4 5 Yr | $\$ 1,174,157$ | $\$ 58,053$ | $\$ 71,468$ | $\$ 13,415$ | 1.23 |
| NS AOI 4 10 Yr | $2.048,758$ | 101,296 | 98,832 | $-2,464$ | .98 |
| NS AOI 4 25 Yr | $2,801,744$ | 138,525 | 358,580 | 220,055 | 2.59 |
| NS AOI 5 15 Yr | $9,455,887$ | 467,524 | 258,690 | $-208,834$ | .55 |
| NS AOI 9 10 Yr | $1,851,643$ | 91.550 | 50,460 | $-41,090$ | .55 |
| NS AOI 14 10 Yr | $8,569,969$ | 423,722 | 275,490 | $-148,232$ | .65 |
| NS AOI 14 25 Yr | $9,387,157$ | 464,125 | 293,620 | $-170,505$ | .63 |
| NS AOI 15 10 Yr | $1,455,581$ | 71,968 | 30,440 | $-41,528$ | .42 |
| NS AOI 15 25 Yr | $3,663,906$ | 181,153 | 141,710 | $-39,443$ | .78 |

Only alternatives in NS AOI 4 had positive net annual benefits. Of these alternatives, the 25 year AEP alternative had the greatest net annual net benefits and was carried forward for consideration of inclusion in the tentatively selected plan.

The 25-year alternatives in NS AOI 14 and 15 however, also became potential candidates for inclusion in the tentatively selected plan. The two alternatives are adjacent to each other and provide a considerably large tract of land. Late in plan evaluation, the sponsor expressed interest in these areas for recreation purposes because the tracts are adjacent to an existing trail system and would allow extension of the trails to additional neighborhoods and could include additional recreation features.

Potential recreation alternatives were developed for the combination of these two non-structural alternatives and include 3.8 miles of multi-use trails, 18 picnic tables, 2 playground areas, 2 multi-use playfield areas, and 2 parking lots.

Preliminary analysis of the non-structural plan in NS AOI 14 and 15 combined with recreation alternatives showed only marginal increased in net benefits and do not suggest a benefit-to-cost ratio of 1.0 or higher is likely.

## STRUCTURAL PLANS CARRIED FORWARD

Three structural plans had positive net benefits and were carried forward for consideration for the recommended plan: Alternative 2B with Hydraulic Mitigation, alternative 2B with Hydraulic Mitigation combined with alternative 4C(100’bypass channel), alternative 3 with hydraulic mitigation (500-year levee) combined with 4C (100’ bypass channel) alternative 12, and alternative 21E. Costs used in the preliminary screening were based on cost estimates provided by Half and Associates. For these three structural plans, planning level real estate costs were prepared by the Real Estate Division in the Fort Worth District. For construction costs, quantities were reviewed by SWF Civil Section and new cost estimates prepared by SWF Cost Estimating. A summary table for each alternative is presented below. Dollars are expressed in October 2010 values. A Federal interest rate of $4.125 \%$ was used for annualizing costs. Note: these costs include $\$ 2.2$ million in environmental mitigation costs for the levee alternatives.

Additional evaluation for the 100 Year Levee with Channel Modification was conducted to ensure there were no induced damages downstream of the levee in Leon Creek Reaches 1 and 2. The charts below show the structures plotted at their river station and first floor elevations along with the water surface elevation for the eight AEP events for the with- and without project conditions for the two reaches to demonstrate no increased damages to those structures.


Figure A-10. Without Project Reach 1


Figure A-11. With Project Reach 1


Figure A-12. Without Project Reach 2


Figure A-13. With Project Reach 2




Of the three alternatives considered for AOI 2, alternative 2B, consisting of the 100 year levee and hydraulic mitigation provided the greatest net annual benefits, $\$ 955,004$. The combination of alternatives 2B and 4C generated net annual benefits of $\$ 758,924$, and the combination of alternatives 3 with hydraulic mitigation and 4 c generated $\$ 888,754$ in net annual benefits. Alternative 2 B will be a alternative carried forward to the tentatively selected plan.

Additional analysis was done to provide a bracket for the 100 year levee - a levee providing protection for the 50 -year event and one for the 250-year event were tested to ensure net benefits were being maximized with the 100 year levee. The 50 -year levee had an estimated cost of $\$ 12,395,251$, yielding an annual cost of $\$ 681,642$ at the $4.125 \%$ federal interest rate. The 50 -year levee would generate $\$ 1,634,340$ in annual benefits, yielding annual net benefits of $\$ 952,698$ and a benefit-to-cost ratio of
2.40. The 250 -year levee measure would require the addition of the bypass channel (as with the 500year levee). This measure's estimated cost is $\$ 16,272,655$, with an annual cost of $\$ 879,229$. The measure's annual benefits would be $\$ 1,935,270$, yielding annual net benefits of $\$ 1,056,042$ and an benefit-to-cost ratio of 2.20 . Given the annual net benefits, the 100 -year levee provides the greatest net benefits.

Alternative 12 consisted of utilizing an existing quarry as a detention site. For purposes of bracketing the alternative, costs were developed as well as an additional HEC-FDA model for an enlarged detention area achieved by further excavation of the quarry pit. The larger quarry only provides a small amount of additional annual benefits (\$2,060,580 compared to $\$ 2,026,620$ for the smaller quarry). However, excavation of the quarry dramatically increased annual costs, $\$ 3,791,810$ compared to $\$ 554,625$ for the smaller quarry, which led to negative net annual benefits for the larger quarry alternative. The costs for the two alternatives are presented below.


| Alternative 12: Large Helotes Quarry |  |  |
| :---: | :---: | :---: |
| INVESTMENT |  |  |
|  | ESTIMATED FIRST COST | \$74,180,830 |
|  | ANNUAL INTEREST RATE | 0.04125 |
|  | PERIOD OF ANALYSIS (years) | 50 |
|  | CONSTRUCTION PERIOD (months) | 12 |
|  | COMPOUND INTEREST FACTOR | 12.23 |
|  | CAPITAL RECOVERY FACTOR | 0.047551 |
|  | INTEREST DURING CONSTRUCTION | \$4,509,635 |
|  | INVESTMENT COST | \$78,690,466 |
|  |  |  |
| ANNUAL CHARGES |  |  |
|  | INTEREST | \$3,245,982 |
|  | AMORTIZATION | \$495,829 |
|  | OPERATION/MAINTENANCE (\$/year) | \$50,000 |
|  | REPLACEMENTS | \$0 |
|  | TOTAL ANNUAL CHARGES | \$3,791,810 |
|  |  |  |
| ANNUAL BENEFITS |  |  |
|  | FLOOD DAMAGE REDUCTION BENEFITS | \$2,060,580 |
|  | RECREATION BENEFITS | \$0 |
|  | TOTAL ANNUAL BENEFITS | \$2,060,580 |
|  |  |  |
|  | NET BENEFITS | (\$1,731,230) |
|  |  |  |
|  | BENEFIT-TO-COST RATIO | 0.54 |

Alternative 21e, an 85 foot channel modification on Leon Creek returned negative net benefits of $\$ 17,634$ after costs were refined. As a result, it will not be carried forward as part of the tentatively selected plan.

| Alternative 21e 85 ft . Leon Creek Channel Modification |  |  |
| :---: | :---: | :---: |
| INVESTMENT |  |  |
|  | ESTIMATED FIRST COST | \$5,008,601 |
|  | ANNUAL INTEREST RATE | 0.04125 |
|  | PERIOD OF ANALYSIS (years) | 50 |
|  | CONSTRUCTION PERIOD (months) | 9 |
|  | COMPOUND INTEREST FACTOR | 9.12 |
|  | CAPITAL RECOVERY FACTOR | 0.047551 |
|  | INTEREST DURING CONSTRUCTION | \$68,134 |
|  | INVESTMENT COST | \$5,076,735 |
| ANNUAL CHARGES |  |  |
|  | INTEREST | \$209,415 |
|  | AMORTIZATION | \$31,989 |
|  | OPERATION/MAINTENANCE (\$/year) | \$50,000 |
|  | TOTAL ANNUAL CHARGES | \$291,404 |
| ANNUAL BENEFITS |  |  |
|  | FLOOD DAMAGE REDUCTION BENEFITS | \$273,770 |
|  | RECREATION BENEFITS | \$0 |
|  | TOTAL ANNUAL BENEFITS | \$273,770 |
|  | NET BENEFITS | $(\$ 17,634)$ |
|  | BENEFIT-TO-COST RATIO | 0.94 |

## NEXT ADDED INCREMENT OF STRUCTURAL ALTERNATIVES

Because the levee alternative in AOI 2 were downstream of alternative 12, the Helotes Quarry, there was some potential that benefits from the quarry alternative could mute some of the benefits from the levee alternative. Additional HEC-FDA models were developed for the two structural alternatives as a combination of alternatives to ensure positive net benefits were still provided by the two alternatives. The annual net benefits of the two structural alternatives as a combined alternative are $\$ 2,209,210$, and the benefit-to-cost ratio is 2.69 .


## TENTATIVELY SELECTED PLAN

The tentatively selected plan is the National Economic Development (NED) Plan, which is the plan yielding the greatest net annual benefits. Fieldwork conducted by the team subsequent to this event established the fact that flood flows on Helotes Creek and its minor tributaries had resulted in channel movement in the vicinity of the Helotes Quarry project component. As a result of the channel migration, substantial amounts of flow now move into the quarry naturally. After extensive discussion and qualitative assessment, it was determined that most of the benefits estimated for this measure were being achieved without further expenditure. As a result, this measure was not carried forward. The NED plan consists of Alternative 2B with hydraulic mitigation and one nonstructural buyout alternative on Babcock Trib. Figure A-14 shows an inundation map should the project be exceeded. There would be residual damages for the area protected by the levee. Events beyond the protected areas would experience damages at flooding above the protected height. For the non-structural measure, since structures are removed, there would be no residual damages to those structures, and therefore they were not mapped.



Legend
弗测 Ecological Mitigation Are
E:: : $:$ Sump - Inside ::::: Sump - Outside ZlIA 1\% AEP Levee VID Excavation Area VII $\triangle$ Channel Area

$$
\begin{array}{lll}
0 & 100200 \quad 400 \text { Feet }
\end{array}
$$

$$
y_{s}^{4}
$$



Test Cell Levee Residual Damage Inundation Map

The calculation of net annual benefits for the tentatively selected plan is shown below.

NED Plan: 100 Year Test Cell Levee with Hydraulic Mitigation, Non-Structural

| INVESTMENT |  |  |
| :---: | :---: | :---: |
|  | ESTIMATED FIRST COST (Less relocation assistance) | \$17,411,621 |
|  | ANNUAL INTEREST RATE | 0.04125 |
|  | PERIOD OF ANALYSIS (years) | 50 |
|  | CONSTRUCTION PERIOD (months) | 24 |
|  | COMPOUND INTEREST FACTOR | 24.97 |
|  | CAPITAL RECOVERY FACTOR | 0.047551 |
|  | INTEREST DURING CONSTRUCTION | \$1,439,441 |
|  | INVESTMENT COST | \$18,851,062 |
|  |  |  |
| ANNUAL CHARGES |  |  |
|  | INTEREST | \$777,606 |
|  | AMORTIZATION | \$118,781 |
|  | OPERATION/MAINTENANCE (\$/year) | \$59,000 |
|  | REPLACEMENTS | \$0 |
|  | TOTAL ANNUAL CHARGES | \$955,387 |
|  |  |  |
| ANNUAL BENEFITS |  |  |
|  | FLOOD DAMAGE REDUCTION BENEFITS | \$2,108,080 |
|  | RECREATION BENEFITS | \$0 |
|  | specify | \$0 |
|  | TOTAL ANNUAL BENEFITS | \$2,108,809 |
|  |  |  |
|  | NET BENEFITS | \$1,152,693 |
|  |  |  |
|  | BENEFIT-TO-COST RATIO | 2.21 |

The resulting annual net benefits are $\$ 1,152,693$ with benefit-to-cost ratio of 2.21 using the 2008 price levels and a 4.125 federal interest rate used during plan formulation

Structure and vehicle values were adjusted to October 2012 price levels by taking a sample from the structure file and re-evaluating with Marshall and Swift Residential and Commercial estimating software. Cost estimates were also estimated at October 2012 prices, and annualized at the $3.75 \%$ federal interest rate. The following table provides the NED plan at the October 2012 price level and the $3.75 \%$ interest rate:


For budgeting purposes, the NED plan is also calculated at a $7.0 \%$ federal interest rate, as shown below:


## DEPTH-PERCENT DAMAGE FUNCTIONS

| Occ Name | Occ Description | Cat_Name | Parameter | Start_Data |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S1 | 1 STORY RES. SLAB | R | Stage | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| S1 |  |  | S | 0 | 0 | 2.5 | 13.4 | 23.3 | 32.1 | 40.1 | 47.1 | 53.2 | 58.6 | 63.2 | 67.2 | 70.5 | 73.2 | 75.4 |
| S1 |  |  | SN | 0 | 0 | 1.3 | 2 | 2 | 1.6 | 1.6 | 1.8 | 1.9 | 2 | 2.1 | 2.2 | 2.3 | 2.4 | 2.7 |
| S1 |  |  | Stage | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| S1 |  |  | C | 0 | 0 | 2.4 | 8.1 | 13.3 | 17.9 | 22 | 25.7 | 28.8 | 31.5 | 33.8 | 35.7 | 37.2 | 38.4 | 39.2 |
| S1 |  |  | CN | 0 | 0 | 2.1 | 1.5 | 1.2 | 1.2 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.9 | 2.1 | 2.3 |
| S1 |  |  | Struct | N |  | 0.5 |  | N |  | 10 |  | N | 100 | 10 |  |  | 901 |  |
| S1PB | 1 STORY RES. PIER AND BEAM | R | Stage | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| S1PB |  |  | S | 0 | 2.5 | 13.4 | 23.3 | 32.1 | 40.1 | 47.1 | 53.2 | 58.6 | 63.2 | 67.2 | 70.5 | 73.2 | 75.4 | 77.2 |
| S1PB |  |  | SN | 0 | 0 | 1.3 | 2 | 2 | 1.6 | 1.6 | 1.8 | 1.9 | 2 | 2.1 | 2.2 | 2.3 | 2.4 | 2.7 |
| S1PB |  |  | Stage | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| S1PB |  |  | C | 0 | 2.4 | 8.1 | 13.3 | 17.9 | 22 | 25.7 | 28.8 | 31.5 | 33.8 | 35.7 | 37.2 | 38.4 | 39.2 | 39.7 |
| S1PB |  |  | CN | 0 | 0 | 2.1 | 1.5 | 1.2 | 1.2 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.9 | 2.1 | 2.3 |
| S1PB |  |  | Struct | N |  | 0.5 |  | N |  | 10 |  | N | 100 | 10 |  |  | 901 |  |
| SV | PRIVATE VEHICLE | POV | Stage | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| SV |  |  | S | 0 | 20 | 50 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| SV |  |  | SN | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| SV |  |  | Stage | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| SV |  |  | C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SV |  |  | CN | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| SV |  |  | Struct | N |  | 0.2 |  | N |  | 10 |  | N | 0 | 10 |  |  | 901 |  |
| S2 | garage/storage on bottom | R | Stage | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| S2 |  |  | S | 0 | 3 | 5 | 6 | 7 | 8 | 10 | 13 | 17 | 21 | 31.9 | 41.8 | 50.6 | 58.6 | 65.6 |
| S2 |  |  | SN | 0 | 4.1 | 3.4 | 3 | 2.8 | 2.9 | 3.2 | 3.4 | 3.7 | 3.9 | 4 | 4.1 | 4.2 | 4.2 | 4.2 |


| S2 |  |  | Stage |  | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S2 |  |  | C |  | 0 | 1 | 5 | 8.7 | 12.2 | 15.5 | 18.5 | 21.3 | 23.9 | 26.3 | 28.4 | 30.3 | 32 | 33.4 | 34.7 |
| S2 |  |  | CN |  | 0 | 3.5 | 2.9 | 2.6 | 2.5 | 2.7 | 3 | 3.2 | 3.3 | 3.4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| S2 |  |  | Struct | N |  |  | 0.2 |  | N |  | 5 |  | N | 100 | 10 |  |  | 901 |  |
| S3 | 2 STORY RES. | R | Stage |  | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| S3 |  |  | S |  | 0 | 0 | 3 | 9.3 | 15.2 | 20.9 | 26.3 | 31.4 | 36.2 | 40.7 | 44.9 | 48.8 | 52.4 | 55.7 | 58.7 |
| S3 |  |  | SN |  | 0 | 0 | 3.4 | 3 | 2.8 | 2.9 | 3.2 | 3.4 | 3.7 | 3.9 | 4 | 4.1 | 4.2 | 4.2 | 4.2 |
| S3 |  |  | Stage |  | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| S3 |  |  | C |  | 0 | 0 | 1 | 5 | 8.7 | 12.2 | 15.5 | 18.5 | 21.3 | 23.9 | 26.3 | 28.4 | 30.3 | 33.4 | 34.7 |
| S3 |  |  | CN |  | 0 | 0 | 2.9 | 2.6 | 2.5 | 2.7 | 3 | 3.2 | 3.3 | 3.4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| S3 |  |  | Struct | N |  |  | 0.2 |  | N |  | 5 |  | N | 100 | 10 |  |  | 901 |  |
| S5 | cliff dweller with a room on the low side | R | Stage |  | -10 | -9 | -8 | -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 |
| S5 |  |  | S |  | 0 | 3 | 5 | 6 | 7 | 8 | 10 | 13 | 17 | 21 | 31.9 | 41.8 | 50.6 | 58.6 | 65.6 |
| S5 |  |  | SN |  | 0 | 4.1 | 3.4 | 3 | 2.8 | 2.9 | 3.2 | 3.4 | 3.7 | 4.1 | 3.4 | 3 | 2.8 | 2.9 | 3.2 |
| S5 |  |  | Stage |  | -10 | -9 | -8 | -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 |
| S5 |  |  | C |  | 0 | 1 | 5 | 8.7 | 12.2 | 15.5 | 18.5 | 21.3 | 23.9 | 26.3 | 28.4 | 30.3 | 32 | 33.4 | 34.7 |
| S5 |  |  | CN |  | 0 | 3.5 | 2.9 | 2.6 | 2.5 | 2.7 | 3 | 3.2 | 3.3 | 3.5 | 2.9 | 2.6 | 2.5 | 2.7 | 3 |
| S5 |  |  | Struct | N |  |  | 0.2 |  | N |  | 5 |  | N | 100 | 10 |  |  | 901 |  |
| S4 | MOBILE RES. | MR | Stage |  | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| S4 |  |  | S |  | 0 | 3 | 9.3 | 15.2 | 20.9 | 26.3 | 31.4 | 54 | 93 | 93.5 | 94 | 94.5 | 95 | 95.5 | 96 |
| S4 |  |  | SN |  | 0 | 4.1 | 3.4 | 3 | 2.8 | 2.9 | 3.2 | 3.4 | 3.7 | 3.9 | 4 | 4.1 | 4.2 | 4.2 | 4.2 |
| S4 |  |  | Stage |  | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| S4 |  |  | C |  | 0 | 0 | 5 | 8.7 | 12 | 23 | 36 | 43 | 55 | 66 | 78 | 86 | 100 | 100 | 100 |
| S4 |  |  | CN |  | 0 | 3.5 | 2.9 | 2.6 | 2.5 | 2.7 | 3 | 3.2 | 3.3 | 3.4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| S4 |  |  | Struct | N |  |  | 0.2 |  | N |  | 10 |  | N | 100 | 10 |  |  | 901 |  |
| S6 | 1 STORY APT. | MFR | Stage |  | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| S6 |  |  | S |  | 0 | 0 | 13.4 | 23.3 | 32.1 | 40.1 | 47.1 | 53.2 | 58.6 | 63.2 | 67.2 | 70.5 | 73.2 | 75.4 | 77.2 |
| S6 |  |  | SN |  | 0 | 2.7 | 2 | 2 | 1.6 | 1.6 | 1.8 | 1.9 | 2 | 2.1 | 2.2 | 2.3 | 2.4 | 2.7 | 3 |
| S6 |  |  | Stage |  | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |


| S6 |  |  |  | C |  | 0 | 0 | 8.1 | 13.3 | 17.9 | 22 | 25.7 | 28.8 | 31.5 | 33.8 | 35.7 | 37.2 | 38.4 | 39.2 | 39.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S6 |  |  |  | CN |  | 0 | 2.1 | 1.5 | 1.2 | 1.2 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.9 | 2.1 | 2.3 | 2.6 |
| S6 |  |  |  | Struct | N |  |  | 0.2 |  | N |  | 10 |  | N | 100 | 10 |  |  | 901 |  |
| S7 |  | 2 STORY APT. | MFR | Stage |  | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| S7 |  |  |  | S |  | 0 | 0 | 9.3 | 15.2 | 20.9 | 26.3 | 31.4 | 36.2 | 40.7 | 44.9 | 48.8 | 52.4 | 55.7 | 58.7 | 61.4 |
| S7 |  |  |  | SN |  | 0 | 4.1 | 3.4 | 3 | 2.8 | 2.9 | 3.2 | 3.4 | 3.7 | 3.9 | 4 | 4.1 | 4.2 | 4.2 | 4.2 |
| S7 |  |  |  | Stage |  | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| S7 |  |  |  | C |  | 0 | 0 | 5 | 8.7 | 12.2 | 15.5 | 18.5 | 21.3 | 23.9 | 26.3 | 28.4 | 30.3 | 32 | 33.4 | 34.7 |
| S7 |  |  |  | CN |  | 0 | 3.5 | 2.9 | 2.6 | 2.5 | 2.7 | 3 | 3.2 | 3.3 | 3.4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| S7 |  |  |  | Struct | N |  |  | 0.2 |  | N |  | 10 |  | N | 100 | 10 |  |  | 901 |  |
|  | 1 | AIRPORT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|  | 1 |  |  | S |  | 0 | 0 | 17 | 17 | 20 | 23 | 27 | 28 | 30 | 32 | 34 | 40 | 40 | 40 | 40 |
|  | 1 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|  | 1 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|  | 1 |  |  | C |  | 0 | 0 | 22 | 30 | 35 | 40 | 53 | 55 | 57 | 57 | 57 | 57 | 70 | 70 | 70 |
|  | 1 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|  | 1 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
|  | 3 | ANTIQUE SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|  | 3 |  |  | S |  | 0 | 0 | 17 | 17 | 18 | 19 | 21 | 23 | 25 | 28 | 32 | 35 | 39 | 43 | 47 |
|  | 3 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|  | 3 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|  | 3 |  |  | C |  | 0 | 20 | 40 | 78 | 85 | 90 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
|  | 3 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|  | 3 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
|  | 5 | APPLIANCE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|  | 5 |  |  | S |  | 0 | 0 | 17 | 17 | 18 | 19 | 21 | 23 | 25 | 28 | 32 | 35 | 39 | 43 | 47 |
|  | 5 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|  | 5 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|  | 5 |  |  | C |  | 0 | 0 | 64 | 71 | 90 | 95 | 98 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |


| 5 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 7 | AUTO DEALERSHIP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 7 |  |  | S |  | 0 | 0 | 17 | 17 | 18 | 19 | 21 | 23 | 25 | 28 | 32 | 35 | 39 | 43 | 49 |
| 7 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 7 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 7 |  |  | C |  | 0 | 10 | 40 | 70 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 95 | 95 | 95 |
| 7 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 7 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 648 | 37 |  |  | 901 |  |
| 9 | AUTO JUNKYARD | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 9 |  |  | S |  | 0 | 0 | 2 | 4 | 5 | 7 | 8 | 10 | 11 | 13 | 14 | 15 | 16 | 16 | 16 |
| 9 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 9 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 9 |  |  | C |  | 0 | 0 | 9 | 13 | 16 | 17 | 18 | 19 | 19 | 19 | 19 | 19 | 19 | 20 | 20 |
| 9 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 9 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 11 | AUTO PARTS | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 11 |  |  | S |  | 0 | 0 | 5 | 5 | 5 | 5 | 7 | 10 | 14 | 19 | 25 | 32 | 40 | 50 | 57 |
| 11 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 11 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 11 |  |  | C |  | 0 | 0 | 17 | 28 | 56 | 66 | 85 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| 11 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 11 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 13 | AUTO REPAIR | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 13 |  |  | S |  | 0 | 0 | 3 | 3 | 3 | 4 | 5 | 8 | 12 | 17 | 23 | 31 | 40 | 48 | 56 |
| 13 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 13 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 13 |  |  | C |  | 0 | 23 | 53 | 74 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 13 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 13 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 71 | 37 |  |  | 901 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | AUTO SERVICE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 15 |  |  | S |  | 0 | 0 | 3 | 3 | 3 | 4 | 5 | 8 | 12 | 17 | 23 | 31 | 40 | 48 | 56 |
| 15 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 15 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 15 |  |  | C |  | 0 | 10 | 40 | 60 | 85 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 15 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 15 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 17 | AUTO TRANS SVC | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 17 |  |  | S |  | 0 | 0 | 3 | 3 | 3 | 4 | 5 | 8 | 12 | 17 | 23 | 31 | 40 | 48 | 56 |
| 17 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 17 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 17 |  |  | C |  | 0 | 0 | 10 | 20 | 40 | 60 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 17 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 17 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 19 | BAIT STAND | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 19 |  |  | S |  | 0 | 0 | 1 | 2 | 5 | 8 | 12 | 17 | 22 | 28 | 36 | 43 | 50 | 58 | 66 |
| 19 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 19 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 19 |  |  | C |  | 0 | 0 | 3 | 7 | 11 | 16 | 22 | 29 | 36 | 44 | 52 | 60 | 69 | 79 | 88 |
| 19 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 19 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 21 | BAKERY | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 21 |  |  | S |  | 0 | 12 | 17 | 21 | 25 | 28 | 31 | 34 | 36 | 38 | 41 | 43 | 45 | 47 | 48 |
| 21 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 21 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 21 |  |  | C |  | 0 | 53 | 63 | 89 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 21 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 21 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |


| 23 | BANK | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 23 |  |  | S |  | 0 | 0 | 11 | 11 | 12 | 13 | 15 | 17 | 19 | 22 | 24 | 28 | 31 | 34 | 37 |
| 23 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 23 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 23 |  |  | C |  | 0 | 0 | 50 | 78 | 87 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 23 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 23 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 39 | 37 |  |  | 901 |  |
| 25 | BARBER SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 25 |  |  | S |  | 0 | 0 | 13 | 17 | 18 | 24 | 31 | 37 | 41 | 45 | 47 | 49 | 50 | 50 | 51 |
| 25 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 25 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 25 |  |  | C |  | 0 | 21 | 28 | 38 | 49 | 63 | 79 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 |
| 25 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 25 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 27 | BATTERY MFG | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 27 |  |  | S |  | 0 | 0 | 3 | 3 | 3 | 4 | 5 | 8 | 10 | 17 | 23 | 31 | 40 | 48 | 48 |
| 27 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 27 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 27 |  |  | C |  | 0 | 0 | 10 | 13 | 20 | 23 | 32 | 38 | 42 | 42 | 45 | 45 | 45 | 45 | 55 |
| 27 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 27 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 29 | BEAUTY SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 29 |  |  | S |  | 0 | 0 | 10 | 14 | 17 | 23 | 28 | 34 | 38 | 43 | 47 | 50 | 54 | 57 | 61 |
| 29 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 29 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 29 |  |  | C |  | 0 | 20 | 46 | 61 | 74 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 29 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 29 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 74 | 37 |  |  | 901 |  |
| 31 | BICYCLE SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 31 |  |  | S |  | 0 | 0 | 20 | 24 | 28 | 32 | 35 | 39 | 43 | 47 | 50 | 55 | 60 | 60 | 60 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 31 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 31 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 31 |  |  | C |  | 0 | 0 | 17 | 25 | 42 | 57 | 59 | 61 | 63 | 63 | 63 | 63 | 63 | 63 | 63 |
| 31 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 31 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 33 | BOAT PARTY FISH | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 33 |  |  | S |  | 0 | 10 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 33 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 33 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 33 |  |  | C |  | 0 | 27 | 62 | 76 | 76 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| 33 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 33 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 35 | BOAT SALES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 35 |  |  | S |  | 0 | 14 | 20 | 32 | 33 | 34 | 36 | 38 | 42 | 50 | 56 | 60 | 63 | 67 | 70 |
| 35 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 35 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 35 |  |  | C |  | 0 | 13 | 24 | 43 | 82 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 35 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 35 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 37 | BOAT STALLS | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 37 |  |  | S |  | 0 | 0 | 10 | 19 | 26 | 32 | 40 | 48 | 56 | 64 | 71 | 78 | 85 | 91 | 97 |
| 37 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 37 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 37 |  |  | C |  | 0 | 0 | 3 | 6 | 8 | 11 | 13 | 15 | 17 | 19 | 21 | 22 | 24 | 25 | 27 |
| 37 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 37 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 39 | BOAT STORAGE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 39 |  |  | S |  | 0 | 0 | 4 | 5 | 7 | 10 | 13 | 16 | 22 | 26 | 31 | 37 | 43 | 49 | 55 |


| 39 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 39 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 39 |  |  | C |  | 0 | 1 | 4 | 7 | 12 | 18 | 24 | 32 | 40 | 48 | 54 | 58 | 63 | 66 | 68 |
| 39 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 39 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 41 | BOILER BUILDING | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 41 |  |  | S |  | 0 | 0 | 1 | 1 | 13 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 45 |
| 41 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 41 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 41 |  |  | C |  | 0 | 0 | 5 | 10 | 10 | 10 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 41 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 41 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 43 | BOOK STORE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 43 |  |  | S |  | 0 | 0 | 2 | 3 | 5 | 8 | 10 | 12 | 15 | 17 | 20 | 23 | 27 | 31 | 35 |
| 43 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 43 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 43 |  |  | C |  | 0 | 5 | 10 | 30 | 50 | 70 | 85 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 43 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 43 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 40 | 37 |  |  | 901 |  |
| 45 | BOWLING ALLEY | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 45 |  |  | S |  | 0 | 0 | 4 | 7 | 11 | 15 | 19 | 23 | 27 | 31 | 35 | 39 | 44 | 49 | 53 |
| 45 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 45 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 45 |  |  | C |  | 0 | 10 | 30 | 50 | 70 | 85 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 45 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 45 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 47 | BUSINESS SVCS. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 47 |  |  | S |  | 0 | 0 | 1 | 2 | 3 | 5 | 8 | 11 | 13 | 16 | 18 | 21 | 25 | 29 | 34 |
| 47 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 47 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 47 |  |  | C |  | 0 | 0 | 2 | 6 | 10 | 15 | 19 | 24 | 28 | 33 | 38 | 44 | 49 | 55 | 62 |
| 47 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 47 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 49 | CABINET MFG | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 49 |  |  | S |  | 0 | 0 | 20 | 22 | 24 | 26 | 28 | 30 | 35 | 40 | 43 | 46 | 50 | 50 | 50 |
| 49 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 49 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 49 |  |  | C |  | 0 | 40 | 60 | 70 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 49 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 49 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 51 | CAR WASH | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 51 |  |  | S |  | 0 | 0 | 0 | 0 | 2 | 5 | 10 | 10 | 15 | 15 | 20 | 20 | 25 | 25 | 30 |
| 51 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 51 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 51 |  |  | C |  | 0 | 0 | 11 | 26 | 40 | 51 | 62 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 81 |
| 51 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 51 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 57 | 37 |  |  | 901 |  |
| 53 | CARPET AND PAINT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 53 |  |  | S |  | 0 | 0 | 0 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 80 | 80 |
| 53 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 53 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 53 |  |  | C |  | 0 | 0 | 21 | 43 | 65 | 83 | 96 | 97 | 99 | 100 | 100 | 100 | 100 | 100 | 100 |
| 53 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 53 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 55 | CEMETARY COMPLEX | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 55 |  |  | S |  | 0 | 0 | 19 | 23 | 25 | 25 | 25 | 26 | 27 | 28 | 31 | 35 | 41 | 50 | 58 |
| 55 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 55 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 55 |  |  | C |  | 0 | 0 | 38 | 43 | 79 | 90 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 55 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 55 |  |  | Struct | N |  |  | 0.2 |  | $N$ |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 57 | CERAMIC CRAFTS | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 57 |  |  | S |  | 0 | 0 | 20 | 22 | 24 | 26 | 27 | 28 | 29 | 30 | 40 | 50 | 50 | 50 | 50 |
| 57 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 57 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 57 |  |  | C |  | 0 | 0 | 20 | 60 | 80 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 |
| 57 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 57 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 59 | CHURCH | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 59 |  |  | S |  | 0 | 0 | 10 | 11 | 11 | 12 | 12 | 13 | 14 | 14 | 15 | 17 | 19 | 24 | 30 |
| 59 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 59 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 59 |  |  | C |  | 0 | 10 | 38 | 62 | 76 | 87 | 92 | 96 | 98 | 99 | 100 | 100 | 100 | 100 | 100 |
| 59 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 59 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 11 | 37 |  |  | 901 |  |
| 61 | CITY HALL | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 61 |  |  | S |  | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 6 | 8 | 12 | 17 | 23 | 31 |
| 61 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 61 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 61 |  |  | C |  | 0 | 0 | 35 | 75 | 85 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 61 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 61 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 63 | CLEANERS | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 63 |  |  | S |  | 0 | 0 | 4 | 6 | 6 | 8 | 10 | 13 | 17 | 22 | 28 | 34 | 42 | 50 | 57 |
| 63 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 63 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 63 |  |  | C |  | 0 | 0 | 20 | 40 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |


| 63 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 63 |  |  | Struct | N |  |  | 0.2 |  |  |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 65 | CLEANERS SUBSTAION | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 65 |  |  | S |  | 0 | 0 | 4 | 6 | 6 | 8 | 10 | 13 | 17 | 22 | 28 | 34 | 42 | 50 | 57 |
| 65 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 65 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 65 |  |  | C |  | 0 | 0 | 47 | 72 | 89 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 65 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 65 |  |  | Struct | N |  |  | 0.2 |  |  |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 67 | CLINIC: MEDICAL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 67 |  |  | S |  | 0 | 0 | 1 | 2 | 2 | 3 | 4 | 6 | 8 | 11 | 14 | 17 | 21 | 25 | 29 |
| 67 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 67 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 67 |  |  | C |  | 0 | 10 | 20 | 40 | 60 | 80 | 90 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 67 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 67 |  |  | Struct | N |  |  | 0.2 |  |  |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 69 | CLOTHING | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 69 |  |  | S |  | 0 | 0 | 8 | 10 | 11 | 13 | 15 | 18 | 21 | 24 | 28 | 32 | 37 | 41 | 46 |
| 69 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 69 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 69 |  |  | C |  | 0 | 6 | 37 | 49 | 74 | 87 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 69 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 69 |  |  | Struct | N |  |  | 0.2 |  |  |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 71 | CLOTHING | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 71 |  |  | S |  | 0 | 0 | 15 | 20 | 20 | 20 | 20 | 22 | 24 | 25 | 25 | 25 | 25 | 25 | 25 |
| 71 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 71 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 71 |  |  | C |  | 0 | 0 | 19 | 27 | 39 | 49 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 |
| 71 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 71 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 73 | CONCRETE MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 73 |  |  | S |  | 0 | 0 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| 73 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 73 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 73 |  |  | C |  | 0 | 0 | 20 | 60 | 67 | 74 | 80 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 73 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 73 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 75 | CONTRACTOR: ELEC | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 75 |  |  | S |  | 0 | 0 | 4 | 7 | 9 | 12 | 13 | 14 | 15 | 15 | 15 | 15 | 18 | 20 | 21 |
| 75 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 75 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 75 |  |  | C |  | 0 | 0 | 13 | 25 | 33 | 41 | 46 | 49 | 51 | 52 | 53 | 53 | 56 | 57 | 58 |
| 75 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 75 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 77 | CONTRACTOR: GENL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 77 |  |  | S |  | 0 | 0 | 14 | 22 | 26 | 29 | 32 | 33 | 34 | 35 | 35 | 35 | 41 | 43 | 45 |
| 77 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 77 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 77 |  |  | C |  | 0 | 0 | 25 | 41 | 54 | 63 | 72 | 82 | 91 | 100 | 100 | 100 | 100 | 100 | 100 |
| 77 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 77 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 79 | CONTRACTOR: ROOF | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 79 |  |  | S |  | 0 | 0 | 14 | 21 | 25 | 27 | 28 | 30 | 30 | 30 | 30 | 30 | 32 | 34 | 35 |
| 79 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 79 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 79 |  |  | C |  | 0 | 0 | 13 | 25 | 33 | 41 | 46 | 49 | 51 | 52 | 53 | 53 | 56 | 57 | 58 |
| 79 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 79 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |


| 81 | CONSTRUCTION CO. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 81 |  |  | S |  | 0 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 100 | 100 | 100 |
| 81 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 81 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 81 |  |  | C |  | 0 | 0 | 25 | 41 | 54 | 63 | 72 | 82 | 91 | 100 | 100 | 100 | 100 | 100 | 100 |
| 81 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 81 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 83 | CONVENIENCE STOR | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 83 |  |  | S |  | 0 | 0 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 39 | 40 | 43 |
| 83 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 83 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 83 |  |  | C |  | 0 | 0 | 40 | 50 | 70 | 80 | 95 | 95 | 96 | 96 | 96 | 96 | 96 | 96 | 97 |
| 83 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 83 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 76 | 37 |  |  | 901 |  |
| 85 | COOLING TOWER | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 85 |  |  | S |  | 0 | 0 | 10 | 20 | 20 | 50 | 50 | 60 | 60 | 75 | 75 | 80 | 80 | 80 | 80 |
| 85 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 85 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 85 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 85 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 87 | COUNTRY CLUB/GOLF | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 87 |  |  | S |  | 0 | 0 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 18 | 21 | 24 |
| 87 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 87 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 87 |  |  | C |  | 0 | 36 | 39 | 42 | 46 | 51 | 55 | 61 | 66 | 73 | 79 | 86 | 93 | 99 | 99 |
| 87 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 87 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 89 | DAIRY FARM | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 89 |  |  | S |  | 0 | 0 | 20 | 22 | 24 | 28 | 30 | 32 | 34 | 38 | 42 | 45 | 50 | 55 | 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 89 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 89 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 89 |  |  | C |  | 0 | 0 | 25 | 50 | 75 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| 89 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 89 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 91 | DAIRY PROCESSING | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 91 |  |  | S |  | 0 | 0 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 45 |
| 91 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 91 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 91 |  |  | C |  | 0 | 0 | 8 | 33 | 58 | 66 | 66 | 66 | 66 | 73 | 86 | 86 | 86 | 86 | 86 |
| 91 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 91 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 93 | DAY CARE CENTER | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 93 |  |  | S |  | 0 | 0 | 15 | 16 | 16 | 20 | 25 | 29 | 33 | 37 | 41 | 44 | 47 | 50 | 53 |
| 93 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 93 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 93 |  |  | C |  | 0 | 0 | 24 | 50 | 88 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 93 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 93 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 22 | 37 |  |  | 901 |  |
| 95 | DENTIST OFFICE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 95 |  |  | S |  | 0 | 7 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 37 | 38 | 39 | 41 | 42 | 44 |
| 95 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 95 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 95 |  |  | C |  | 0 | 0 | 22 | 47 | 64 | 76 | 88 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 95 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 95 |  |  | Struct | N |  |  | 0.2 |  | $N$ |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 97 | DEODERIZER BLDG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 97 |  |  | S |  | 0 | 0 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 45 |


| 97 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 97 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 97 |  |  | C |  | 0 | 0 | 11 | 17 | 23 | 23 | 24 | 29 | 29 | 29 | 30 | 30 | 30 | 30 | 30 |
| 97 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 97 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 99 | DEPARTMENT STORE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 99 |  |  | S |  | 0 | 0 | 3 | 7 | 7 | 7 | 9 | 11 | 14 | 17 | 20 | 23 | 26 | 30 | 33 |
| 99 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 99 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 99 |  |  | C |  | 0 | 0 | 18 | 33 | 65 | 88 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 99 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 99 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 101 | DOCTOR OFFICE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 101 |  |  | S |  | 0 | 0 | 1 | 3 | 4 | 6 | 9 | 11 | 14 | 17 | 20 | 24 | 29 | 35 | 42 |
| 101 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 101 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 101 |  |  | C |  | 0 | 10 | 20 | 40 | 60 | 80 | 90 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 101 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 101 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 92 | 37 |  |  | 901 |  |
| 103 | DOOR MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 103 |  |  | S |  | 0 | 0 | 14 | 22 | 26 | 29 | 32 | 33 | 34 | 35 | 35 | 35 | 35 | 41 | 43 |
| 103 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 103 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 103 |  |  | C |  | 0 | 0 | 17 | 35 | 68 | 90 | 93 | 97 | 98 | 100 | 100 | 100 | 100 | 100 | 100 |
| 103 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 103 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 105 | DRAPERY SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 105 |  |  | S |  | 0 | 0 | 15 | 20 | 30 | 35 | 40 | 45 | 50 | 60 | 70 | 80 | 85 | 90 | 95 |
| 105 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 105 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 105 |  |  | C |  | 0 | 0 | 18 | 30 | 45 | 63 | 83 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 105 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 105 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 107 | DRUG STORE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 107 |  |  | S |  | 0 | 0 | 1 | 5 | 5 | 5 | 7 | 8 | 11 | 14 | 18 | 22 | 27 | 33 | 38 |
| 107 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 107 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 107 |  |  | C |  | 0 | 0 | 20 | 50 | 80 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 107 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 107 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 109 | ELECTRONICS SALES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 109 |  |  | S |  | 0 | 0 | 13 | 20 | 24 | 27 | 28 | 30 | 30 | 30 | 30 | 30 | 32 | 33 | 34 |
| 109 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 109 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 109 |  |  | C |  | 0 | 0 | 25 | 42 | 59 | 76 | 88 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 109 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 109 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 111 | ELECTRONICS MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 111 |  |  | S |  | 0 | 0 | 13 | 20 | 24 | 27 | 28 | 30 | 30 | 30 | 30 | 30 | 32 | 33 | 34 |
| 111 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 111 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 111 |  |  | C |  | 0 | 0 | 16 | 32 | 48 | 64 | 73 | 82 | 91 | 100 | 100 | 100 | 100 | 100 | 100 |
| 111 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 111 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 113 | ENGINE ROOM | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 113 |  |  | S |  | 0 | 0 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 45 |
| 113 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 113 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 113 |  |  | C |  | 0 | 0 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 65 | 65 | 65 | 65 | 65 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 113 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 113 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 115 | EQUIP. STORAGE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 115 |  |  | S |  | 0 | 0 | 0 | 3 | 5 | 6 | 7 | 8 | 10 | 13 | 17 | 21 | 25 | 30 | 40 |
| 115 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 115 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 115 |  |  | C |  | 0 | 5 | 10 | 15 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 100 | 100 |
| 115 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 115 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 117 | FABRICATION SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 117 |  |  | S |  | 0 | 0 | 2 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 75 | 75 | 75 |
| 117 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 117 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 117 |  |  | C |  | 0 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 75 | 80 | 80 | 80 | 80 | 80 |
| 117 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 117 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 119 | FEED STORE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 119 |  |  | S |  | 0 | 0 | 20 | 24 | 28 | 32 | 34 | 36 | 38.9 | 40 | 42 | 44 | 46 | 48 | 50 |
| 119 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 119 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 119 |  |  | C |  | 0 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 75 | 80 | 80 | 80 | 80 | 80 |
| 119 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 119 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 121 | FEED MILL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 121 |  |  | S |  | 0 | 0 | 0 | 0 | 0 | 20 | 23 | 27 | 30 | 33 | 37 | 40 | 43 | 47 | 50 |
| 121 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 121 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 121 |  |  | C |  | 0 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 75 | 80 | 80 | 80 | 80 | 80 |


| 121 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 121 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 123 | FILTERING PLANT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 123 |  |  | S |  | 0 | 0 | 5 | 15 | 30 | 60 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 123 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 123 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 123 |  |  | C |  | 0 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 75 | 80 | 80 | 80 | 80 | 80 |
| 123 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 123 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 125 | FIREWORKS SALES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 125 |  |  | S |  | 0 | 0 | 0 | 10 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 125 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 125 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 125 |  |  | C |  | 0 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 75 | 80 | 80 | 80 | 80 | 80 |
| 125 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 125 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 127 | FIRE STATION | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 127 |  |  | S |  | 0 | 0 | 1 | 5 | 5 | 5 | 6 | 8.7 | 9 | 11 | 14 | 17 | 20 | 24 | 28 |
| 127 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 127 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 127 |  |  | C |  | 0 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 75 | 80 | 80 | 80 | 80 | 80 |
| 127 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 127 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 326 | 37 |  |  | 901 |  |
| 129 | FLEA MARKET | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 129 |  |  | S |  | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 129 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 129 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 129 |  |  | C |  | 0 | 40 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 129 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 129 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
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| 131 | FLOOR \& CARPET | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 131 |  |  | S |  | 0 | 0 | 2 | 3 | 4 | 4 | 5 | 7 | 9 | 13 | 18 | 22 | 29 | 35 | 42 |
| 131 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 131 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 131 |  |  | C |  | 0 | 0 | 61 | 81 | 91 | 93 | 95 | 97 | 99 | 100 | 100 | 100 | 100 | 100 | 100 |
| 131 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 131 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 133 | FLORIST | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 133 |  |  | S |  | 0 | 0 | 7 | 7 | 8 | 9 | 11 | 13 | 16 | 19 | 22 | 26 | 30 | 34 | 38 |
| 133 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 133 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 133 |  |  | C |  | 0 | 0 | 61 | 81 | 91 | 93 | 95 | 97 | 99 | 100 | 100 | 100 | 100 | 100 | 100 |
| 133 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 133 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 135 | FOOD PROCESSOR | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 135 |  |  | S |  | 0 | 0 | 6 | 6 | 6 | 6 | 10 | 14 | 18 | 20 | 20 | 20 | 20 | 20 | 20 |
| 135 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 135 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 135 |  |  | C |  | 0 | 0 | 61 | 81 | 91 | 93 | 95 | 97 | 99 | 100 | 100 | 100 | 100 | 100 | 100 |
| 135 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 135 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | $N$ | 117 | 37 |  |  | 901 |  |
| 137 | FOOD WAREHOUSE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 137 |  |  | S |  | 0 | 0 | 0 | 10 | 11 | 12 | 13 | 13 | 14 | 14 | 15 | 15 | 17 | 18 | 19 |
| 137 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 137 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 137 |  |  | C |  | 0 | 0 | 24 | 39 | 54 | 68 | 83 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 89 |
| 137 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 137 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |


| 139 | FOUNDARY | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 139 |  |  | S |  | 0 | 0 | 5 | 10 | 20 | 30 | 30 | 50 | 70 | 70 | 70 | 75 | 75 | 80 | 80 |
| 139 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 139 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 139 |  |  | C |  | 0 | 10 | 17 | 24 | 29 | 34 | 38 | 43 | 45 | 50 | 58 | 62 | 66 | 69 | 74 |
| 139 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 139 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 141 | FRAME SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 141 |  |  | S |  | 0 | 0 | 20 | 22 | 24 | 26 | 28 | 30 | 35 | 40 | 43 | 46 | 50 | 50 | 50 |
| 141 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 141 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 141 |  |  | C |  | 0 | 0 | 16 | 45 | 80 | 88 | 93 | 95 | 98 | 100 | 100 | 100 | 100 | 100 | 100 |
| 141 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 141 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 143 | FRUIT STAND | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 143 |  |  | S |  | 0 | 0 | 1 | 2 | 5 | 8 | 28 | 12 | 17 | 22 | 28 | 36 | 43 | 50 | 58 |
| 143 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 143 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 143 |  |  | C |  | 0 | 0 | 45 | 80 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 143 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 143 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 145 | FUNERAL HOME | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 145 |  |  | S |  | 0 | 0 | 1 | 5 | 5 | 5 | 6 | 7 | 9 | 11 | 14 | 17 | 20 | 24 | 28 |
| 145 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 145 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 145 |  |  | C |  | 0 | 0 | 10 | 30 | 60 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 145 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 145 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 54 | 37 |  |  | 901 |  |
| 147 | FURNITURE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 147 |  |  | S |  | 0 | 0 | 2 | 4 | 4 | 5 | 6 | 7 | 9 | 11 | 14 | 17 | 21 | 25 | 29 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 147 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 147 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 147 |  |  | C |  | 0 | 40 | 60 | 70 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 147 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 147 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 149 | FURNITURE MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 149 |  |  | S |  | 0 | 0 | 10 | 20 | 24 | 28 | 32 | 38 | 42 | 46 | 48 | 50 | 50 | 50 | 50 |
| 149 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 149 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 149 |  |  | C |  | 0 | 40 | 60 | 70 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 149 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 149 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 151 | GARAGE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 151 |  |  | S |  | 0 | 0 | 3 | 5 | 6 | 7 | 8 | 10 | 13 | 17 | 21 | 25 | 30 | 35 | 41 |
| 151 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 151 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 151 |  |  | C |  | 0 | 0 | 11 | 17 | 20 | 23 | 25 | 29 | 35 | 42 | 51 | 63 | 77 | 93 | 100 |
| 151 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 151 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 153 | GAS-BUTANE SUPPL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 153 |  |  | S |  | 0 | 17 | 17 | 17 | 17 | 23 | 32 | 45 | 55 | 61 | 66 | 69 | 73 | 76 | 78 |
| 153 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 153 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 153 |  |  | C |  | 0 | 0 | 25 | 46 | 65 | 75 | 81 | 86 | 90 | 94 | 96 | 100 | 100 | 100 | 100 |
| 153 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 153 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 155 | GIFT SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 155 |  |  | S |  | 0 | 0 | 5 | 8 | 9 | 9 | 9 | 11 | 14 | 18 | 24 | 31 | 40 | 50 | 58 |


| 155 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 155 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 155 |  |  | C |  | 0 | 0 | 54 | 63 | 75 | 88 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 155 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 155 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 157 | GOLF COURSE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 157 |  |  | S |  | 0 | 0 | 1 | 4 | 6 | 8 | 9 | 11 | 14 | 17 | 21 | 26 | 31 | 37 | 43 |
| 157 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 157 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 157 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 157 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 159 | GREENHOUSE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 159 |  |  | S |  | 0 | 0 | 5 | 11 | 16 | 21 | 26 | 31 | 37 | 42 | 47 | 52 | 56 | 61 | 65 |
| 159 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 159 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 159 |  |  | C |  | 0 | 0 | 62 | 84 | 96 | 97 | 98 | 99 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 159 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 159 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 85 | 37 |  |  | 901 |  |
| 161 | GROCERY | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 161 |  |  | S |  | 0 | 0 | 3 | 4 | 5 | 6 | 7 | 10 | 14 | 20 | 29 | 37 | 44 | 50 | 55 |
| 161 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 161 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 161 |  |  | C |  | 0 | 4 | 31 | 51 | 77 | 97 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 161 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 161 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 282 | 37 |  |  | 901 |  |
| 163 | GROCERY: DRIVE-IN | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 163 |  |  | S |  | 0 | 0 | 3 | 4 | 5 | 6 | 7 | 10 | 14 | 20 | 29 | 37 | 44 | 50 | 55 |
| 163 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 163 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 163 |  |  | C |  | 0 | 2 | 56 | 69 | 85 | 98 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 163 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 163 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 165 | GUNSHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 165 |  |  | S |  | 0 | 0 | 10 | 10 | 10 | 11 | 12 | 13 | 14 | 16 | 18 | 20 | 22 | 25 | 29 |
| 165 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 165 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 165 |  |  | C |  | 0 | 21 | 37 | 56 | 85 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 165 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 165 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 167 | HALL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 167 |  |  | S |  | 0 | 0 | 1 | 5 | 5 | 5 | 5 | 6 | 8 | 9 | 11 | 14 | 18 | 22 | 28 |
| 167 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 167 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 167 |  |  | C |  | 0 | 0 | 5 | 8 | 10 | 12 | 14 | 18 | 24 | 32 | 44 | 60 | 85 | 95 | 100 |
| 167 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 167 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 169 | HARDWARE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 169 |  |  | S |  | 0 | 0 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 15 | 18 | 21 | 25 | 30 | 35 |
| 169 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 169 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 169 |  |  | C |  | 0 | 7 | 29 | 46 | 62 | 68 | 80 | 92 | 93 | 95 | 96 | 97 | 99 | 100 | 100 |
| 169 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 169 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 171 | HEALTH CENTER | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 171 |  |  | S |  | 0 | 0 | 18 | 20 | 20 | 20 | 20 | 20 | 22 | 27 | 33 | 39 | 44 | 49 | 53 |
| 171 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 171 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 171 |  |  | C |  | 0 | 0 | 25 | 45 | 75 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 171 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 171 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 173 | HEAT EXCHANGER MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 173 |  |  | S |  | 0 | 0 | 3 | 4 | 5 | 6 | 20 | 7 | 7 | 7 | 7 | 7 | 8 | 9 | 9 |
| 173 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 173 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 173 |  |  | C |  | 0 | 0 | 11 | 18 | 24 | 29 | 33 | 36 | 38 | 41 | 43 | 45 | 50 | 55 | 59 |
| 173 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 173 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 175 | HWY. MATL. STORAGE | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 175 |  |  | S |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 175 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 175 |  |  | C |  | 0 | 0 | 4 | 4 | 8 | 8 | 19 | 19 | 38 | 38 | 38 | 58 | 58 | 58 | 58 |
| 175 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 175 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 177 | HOBBY SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 177 |  |  | S |  | 0 | 0 | 18 | 20 | 20 | 20 | 20 | 20 | 22 | 27 | 33 | 39 | 44 | 49 | 53 |
| 177 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 177 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 177 |  |  | C |  | 0 | 0 | 28 | 53 | 67 | 78 | 88 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 |
| 177 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 177 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 179 | HOSPITAL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 179 |  |  | S |  | 0 | 0 | 5 | 10 | 20 | 25 | 30 | 35 | 40 | 43 | 47 | 50 | 53 | 55 | 57 |
| 179 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 179 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 179 |  |  | C |  | 0 | 0 | 10 | 15 | 20 | 25 | 35 | 58 | 66 | 74 | 82 | 95 | 95 | 95 | 95 |


| 179 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 179 |  |  | Struct | N |  |  | 1.5 |  |  |  | 37 |  | N | 128 | 37 |  |  | 901 |  |
| 181 | HOTEL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 181 |  |  | S |  | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 5 | 6 | 9 | 11 | 15 | 18 | 22 | 26 |
| 181 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 181 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 181 |  |  | C |  | 0 | 0 | 11 | 22 | 28 | 33 | 37 | 41 | 44 | 46 | 49 | 54 | 60 | 69 | 81 |
| 181 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 181 |  |  | Struct | N |  |  | 1.5 |  |  |  | 37 |  | N | 36 | 37 |  |  | 901 |  |
| 183 | IMPORT SALES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 183 |  |  | S |  | 0 | 0 | 25 | 30 | 35 | 40 | 42 | 44 | 46 | 48 | 50 | 50 | 65 | 65 | 65 |
| 183 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 183 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 183 |  |  | C |  | 0 | 0 | 59 | 65 | 70 | 75 | 80 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 183 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 183 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 185 | INSTRUMENT MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 185 |  |  | S |  | 0 | 0 | 5 | 8 | 12 | 14 | 16 | 17 | 19 | 20 | 20 | 20 | 24 | 26 | 28 |
| 185 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 185 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 185 |  |  | C |  | 0 | 0 | 59 | 65 | 70 | 75 | 80 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 185 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 185 |  |  | Struct | N |  |  | 0.2 |  |  |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 187 | JEWELRY SALES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 187 |  |  | S |  | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 4 | 6 | 8 | 9 | 12 | 15 | 20 | 25 |
| 187 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 187 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 187 |  |  | C |  | 0 | 0 | 22 | 40 | 62 | 81 | 86 | 90 | 92 | 94 | 95 | 96 | 96 | 96 | 96 |
| 187 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 187 |  |  | Struct | N |  |  | 0.2 |  | $N$ |  | 15 |  |  | 901 |  |  |  | 901 |  |
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| 189 | JEWELRY MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 189 |  |  | S |  | 0 | 0 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 36 | 36 | 40 | 40 |
| 189 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 189 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 189 |  |  | C |  | 0 | 0 | 22 | 62 | 81 | 81 | 83 | 90 | 92 | 94 | 95 | 96 | 96 | 96 | 96 |
| 189 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 189 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 191 | LABORATORY: CHEM | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 191 |  |  | S |  | 0 | 0 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 45 | 45 |
| 191 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 191 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 191 |  |  | C |  | 0 | 0 | 27 | 28 | 51 | 51 | 60 | 70 | 79 | 89 | 89 | 90 | 90 | 91 | 91 |
| 191 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 191 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 193 | LAUNDRY | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 193 |  |  | S |  | 0 | 0 | 2 | 5 | 8 | 12 | 15 | 18 | 21 | 23 | 26 | 28 | 31 | 33 | 36 |
| 193 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 193 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 193 |  |  | C |  | 0 | 0 | 20 | 55 | 78 | 100 | 86 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 193 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 193 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 195 | LAWNMOWER SALES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 195 |  |  | S |  | 0 | 0 | 12 | 13 | 15 | 16 | 17 | 18 | 21 | 25 | 30 | 35 | 42 | 50 | 57 |
| 195 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 195 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 195 |  |  | C |  | 0 | 0 | 9 | 76 | 89 | 91 | 93 | 94 | 96 | 97 | 98 | 100 | 100 | 100 | 100 |
| 195 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 195 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |


| 197 | LEATHER GOODS MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 197 |  |  | S |  | 0 | 0 | 9 | 15 | 17 | 21 | 23 | 24 | 25 | 25 | 25 | 25 | 30 | 31 | 33 |
| 197 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 197 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 197 |  |  | C |  | 0 | 0 | 4 | 7 | 10 | 13 | 16 | 19 | 22 | 25 | 27 | 30 | 33 | 36 | 39 |
| 197 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 197 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 199 | LIBRARY | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 199 |  |  | S |  | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 4 | 6 | 8 | 9 | 12 | 15 | 20 | 25 |
| 199 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 199 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 199 |  |  | C |  | 0 | 0 | 35 | 50 | 75 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 199 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 199 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 201 | LIQUOR STORE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 201 |  |  | S |  | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 5 | 6 | 8 | 11 | 16 | 22 | 29 | 39 |
| 201 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 201 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 201 |  |  | C |  | 0 | 0 | 19 | 39 | 58 | 79 | 99 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 201 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 201 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 203 | LOADING DOCK: IND. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 203 |  |  | S |  | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 |
| 203 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 203 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 203 |  |  | C |  | 0 | 0 | 8 | 8 | 8 | 10 | 10 | 14 | 18 | 30 | 30 | 30 | 30 | 30 | 38 |
| 203 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 203 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 833 | 37 |  |  | 901 |  |
| 205 | LUMBER MILL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 205 |  |  | S |  | 0 | 0 | 3 | 5 | 8 | 10 | 13 | 15 | 18 | 20 | 23 | 25 | 28 | 30 | 33 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 205 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 205 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 205 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| 205 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 205 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 207 | LUMBER YARD | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 207 |  |  | S |  | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 5 | 5 | 7 | 9 | 13 | 17 |
| 207 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 207 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 207 |  |  | C |  | 0 | 0 | 20 | 30 | 45 | 60 | 75 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 207 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 207 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 209 | MARINE SERVICE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 209 |  |  | S |  | 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 10 | 10 |
| 209 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 209 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 209 |  |  | C |  | 0 | 40 | 52 | 89 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 209 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 209 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 211 | MACHINE SHOP: LT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 211 |  |  | S |  | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 40 |
| 211 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 211 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 211 |  |  | C |  | 0 | 0 | 1 | 37 | 47 | 57 | 57 | 58 | 67 | 67 | 68 | 68 | 68 | 69 | 78 |
| 211 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 211 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 107 | 37 |  |  | 901 |  |
| 213 | MACHINE SHOP: HVY | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 213 |  |  | S |  | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 40 |


| 213 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 213 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 213 |  |  | C |  | 0 | 0 | 6 | 13 | 20 | 28 | 35 | 42 | 50 | 58 | 67 | 72 | 79 | 84 | 85 |
| 213 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 213 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 215 | MAINT.BLDG.: MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 215 |  |  | S |  | 0 | 0 | 5 | 10 | 20 | 30 | 50 | 70 | 70 | 70 | 70 | 70 | 70 | 80 | 80 |
| 215 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 215 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 215 |  |  | C |  | 0 | 0 | 10 | 15 | 20 | 25 | 35 | 45 | 45 | 45 | 45 | 50 | 50 | 50 | 55 |
| 215 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 215 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 217 | MFG.: DETERGENT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 217 |  |  | S |  | 0 | 0 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 50 |
| 217 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 217 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 217 |  |  | C |  | 0 | 0 | 19 | 28 | 35 | 41 | 47 | 50 | 52 | 55 | 59 | 64 | 81 | 90 | 91 |
| 217 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 217 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 219 | MEAT MARKET | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 219 |  |  | S |  | 0 | 0 | 10 | 10 | 10 | 11 | 12 | 14 | 17 | 23 | 31 | 38 | 44 | 50 | 55 |
| 219 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 219 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 219 |  |  | C |  | 0 | 0 | 84 | 86 | 88 | 93 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 219 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 219 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 221 | MEAT PACKING | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 221 |  |  | S |  | 0 | 0 | 20 | 23 | 26 | 29 | 32 | 35 | 38 | 41 | 44 | 47 | 50 | 55 | 56 |
| 221 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 221 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 221 |  |  | C |  | 0 | 0 | 21 | 21 | 52 | 79 | 83 | 90 | 93 | 97 | 97 | 97 | 97 | 97 | 97 |
| 221 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 221 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 223 | MEDICAL SUPPLIES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 223 |  |  | S |  | 0 | 0 | 15 | 23 | 27 | 30 | 32 | 33 | 34 | 35 | 35 | 35 | 41 | 43 | 45 |
| 223 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 223 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 223 |  |  | C |  | 0 | 0 | 17 | 33 | 48 | 63 | 67 | 71 | 75 | 80 | 85 | 89 | 93 | 98 | 100 |
| 223 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 223 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 225 | METAL COATING SV | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 225 |  |  | S |  | 0 | 0 | 18 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 26 | 27 | 27 |
| 225 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 225 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 225 |  |  | C |  | 0 | 0 | 37 | 56 | 68 | 78 | 89 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 225 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 225 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 227 | MIXER BLDG.: DTRGNT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 227 |  |  | S |  | 0 | 0 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 45 |
| 227 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 227 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 227 |  |  | C |  | 0 | 0 | 15 | 34 | 52 | 69 | 69 | 69 | 69 | 69 | 73 | 73 | 77 | 77 | 81 |
| 227 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 227 |  |  | Struct |  |  |  |  |  |  |  |  |  |  | 0.5 |  |  |  | 901 |  |
| 229 | MOTEL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 229 |  |  | S |  | 0 | 0 | 4 | 7 | 10 | 12 | 15 | 18 | 22 | 26 | 31 | 37 | 43 | 50 | 56 |
| 229 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 229 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 229 |  |  | C |  | 0 | 0 | 30 | 48 | 63 | 75 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
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| 229 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 229 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 36 | 37 |  |  | 901 |  |
| 231 | MOTORCYCLE SALES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 231 |  |  | S |  | 0 | 0 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 60 | 70 | 80 | 80 | 80 | 80 |
| 231 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 231 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 231 |  |  | C |  | 0 | 0 | 45 | 75 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 95 | 95 | 95 |
| 231 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 231 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 233 | MUN. STRG. WHSE. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 233 |  |  | S |  | 0 | 0 | 1 | 5 | 10 | 10 | 10 | 10 | 20 | 30 | 50 | 50 | 50 | 50 | 55 |
| 233 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 233 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 233 |  |  | C |  | 0 | 0 | 11 | 17 | 20 | 22 | 24 | 29 | 36 | 48 | 67 | 85 | 90 | 90 | 90 |
| 233 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 233 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 16 | 37 |  |  | 901 |  |
| 235 | MUSIC CENTER | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 235 |  |  | S |  | 0 | 5 | 10 | 13 | 14 | 15 | 15 | 15 | 16 | 18 | 23 | 27 | 37 | 50 | 59 |
| 235 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 235 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 235 |  |  | C |  | 0 | 0 | 63 | 70 | 75 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 235 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 235 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 237 | NEWSPAPER PLANT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 237 |  |  | S |  | 0 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 11 | 14 | 19 | 24 |
| 237 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 237 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 237 |  |  | C |  | 0 | 0 | 5 | 8 | 11 | 13 | 16 | 20 | 25 | 31 | 39 | 48 | 59 | 70 | 82 |


| 237 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
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| 237 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 239 | NEWSPAPER OFC. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 239 |  |  | S |  | 0 | 10 | 15 | 18 | 24 | 25 | 25 | 26 | 27 | 28 | 31 | 33 | 36 | 40 | 43 |
| 239 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 239 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 239 |  |  | C |  | 0 | 0 | 5 | 11 | 23 | 37 | 77 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 239 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 239 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 241 | NURSING HOME | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 241 |  |  | S |  | 0 | 10 | 10 | 10 | 14 | 15 | 15 | 16 | 18 | 20 | 23 | 26 | 30 | 34 | 38 |
| 241 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 241 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 241 |  |  | C |  | 0 | 0 | 38 | 60 | 73 | 81 | 88 | 94 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 241 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 241 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 37 | 37 |  |  | 901 |  |
| 243 | NURSERY PLANT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 243 |  |  | S |  | 0 | 2 | 2 | 3 | 6 | 10 | 15 | 22 | 27 | 32 | 37 | 41 | 46 | 50 | 54 |
| 243 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 243 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 243 |  |  | C |  | 0 | 0 | 50 | 65 | 75 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 243 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 243 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 245 | NURSERY: CHILD | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 245 |  |  | S |  | 0 | 0 | 15 | 16 | 16 | 20 | 25 | 29 | 33 | 37 | 41 | 44 | 47 | 50 | 53 |
| 245 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 245 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 245 |  |  | C |  | 0 | 0 | 24 | 50 | 88 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 245 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 245 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 247 | OFFICE: MFG. FAC | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 247 |  |  | S |  | 0 | 0 | 2 | 10 | 15 | 28 | 32 | 39 | 43 | 44 | 45 | 51 | 58 | 62 | 65 |
| 247 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 247 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 247 |  |  | C |  | 0 | 0 | 0 | 12 | 20 | 30 | 40 | 48 | 56 | 66 | 78 | 88 | 96 | 96 | 100 |
| 247 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 247 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 249 | OFFICE BUILDING | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 249 |  |  | S |  | 0 | 0 | 12 | 14 | 17 | 19 | 23 | 27 | 31 | 35 | 40 | 45 | 50 | 55 | 59 |
| 249 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 249 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 249 |  |  | C |  | 0 | 0 | 16 | 21 | 24 | 25 | 26 | 28 | 31 | 36 | 42 | 50 | 71 | 84 | 100 |
| 249 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 249 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 10 | 37 |  |  | 901 |  |
| 251 | OIL STORAGE TANKS | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 251 |  |  | S |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 251 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 251 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 251 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 251 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 251 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 253 | PAINT STORE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 253 |  |  | S |  | 0 | 0 | 20 | 30 | 37 | 43 | 55 | 60 | 67 | 75 | 80 | 83 | 86 | 90 | 90 |
| 253 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 253 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 253 |  |  | C |  | 0 | 0 | 10 | 20 | 40 | 59 | 69 | 72 | 75 | 79 | 79 | 79 | 79 | 79 | 79 |
| 253 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 253 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |


| 255 | PAPER PROD. WHSE. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 255 |  |  | S |  | 0 | 0 | 18 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 26 | 27 | 27 |
| 255 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 255 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 255 |  |  | C |  | 0 | 0 | 18 | 29 | 38 | 47 | 56 | 64 | 71 | 76 | 82 | 91 | 98 | 100 | 100 |
| 255 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 255 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 257 | PAWN SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 257 |  |  | S |  | 0 | 0 | 20 | 30 | 33 | 36 | 39 | 42 | 45 | 47 | 50 | 50 | 50 | 60 | 60 |
| 257 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 257 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 257 |  |  | C |  | 0 | 0 | 19 | 38 | 91 | 91 | 93 | 93 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| 257 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 257 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 259 | PHOTO STUDIO | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 259 |  |  | S |  | 0 | 0 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 60 | 65 | 70 | 75 | 75 | 75 |
| 259 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 259 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 259 |  |  | C |  | 0 | 0 | 20 | 40 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 259 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 259 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 261 | PHOTO SVC.L AERIAL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 261 |  |  | S |  | 0 | 0 | 11 | 17 | 22 | 24 | 27 | 28 | 29 | 30 | 30 | 30 | 35 | 37 | 39 |
| 261 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 261 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 261 |  |  | C |  | 0 | 0 | 72 | 87 | 92 | 95 | 97 | 99 | 99 | 99 | 100 | 100 | 100 | 100 | 100 |
| 261 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 261 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 263 | PIERS | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 263 |  |  | S |  | 0 | 20 | 40 | 60 | 80 | 85 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 263 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 263 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 263 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 263 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 263 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 265 | PIER DRILLING Co. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 265 |  |  | S |  | 0 | 0 | 35 | 35 | 35 | 35 | 41 | 47 | 53 | 60 | 60 | 60 | 60 | 60 | 60 |
| 265 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 265 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 265 |  |  | C |  | 0 | 0 | 20 | 23 | 39 | 55 | 55 | 56 | 56 | 57 | 57 | 57 | 57 | 57 | 57 |
| 265 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 265 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 267 | PIPE THREADER FAC. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 267 |  |  | S |  | 0 | 0 | 1 | 5 | 10 | 10 | 10 | 20 | 30 | 50 | 50 | 50 | 75 | 75 | 75 |
| 267 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 267 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 267 |  |  | C |  | 0 | 0 | 25 | 25 | 50 | 50 | 50 | 50 | 75 | 75 | 75 | 75 | 90 | 90 | 90 |
| 267 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 267 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 269 | PLBG/HTG. CNTRCTR. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 269 |  |  | S |  | 0 | 0 | 0 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 60 | 60 | 60 | 60 | 60 |
| 269 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 269 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 269 |  |  | C |  | 0 | 0 | 40 | 50 | 60 | 70 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| 269 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 269 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 271 | PLASTIC MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 271 |  |  | S |  | 0 | 0 | 12 | 18 | 23 | 24 | 27 | 28 | 29 | 30 | 30 | 30 | 35 | 37 | 39 |


| 271 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 271 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 271 |  |  | C |  | 0 | 0 | 40 | 50 | 60 | 70 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| 271 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 271 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 273 | PLUMBING CO. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 273 |  |  | S |  | 0 | 0 | 20 | 32 | 40 | 47 | 53 | 57 | 61 | 64 | 67 | 70 | 72 | 74 | 77 |
| 273 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 273 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 273 |  |  | C |  | 0 | 0 | 19 | 41 | 51 | 70 | 95 | 95 | 95 | 95 | 95 | 95 | 100 | 100 | 100 |
| 273 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 273 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 275 | POLICE STATION | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 275 |  |  | S |  | 0 | 0 | 12 | 14 | 17 | 19 | 23 | 27 | 31 | 35 | 40 | 45 | 50 | 55 | 59 |
| 275 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 275 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 275 |  |  | C |  | 0 | 0 | 5 | 15 | 25 | 35 | 48 | 62 | 78 | 95 | 100 | 100 | 100 | 100 | 100 |
| 275 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 275 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 277 | POST OFFICE | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 277 |  |  | S |  | 0 | 0 | 8 | 15 | 24 | 25 | 26 | 27 | 29 | 32 | 36 | 40 | 45 | 50 | 56 |
| 277 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 277 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 277 |  |  | C |  | 0 | 25 | 43 | 63 | 70 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 277 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 277 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 24 | 37 |  |  | 901 |  |
| 279 | PRESSURE TEST FAC. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 279 |  |  | S |  | 0 | 0 | 1 | 5 | 10 | 10 | 10 | 20 | 30 | 50 | 50 | 50 | 75 | 75 | 75 |
| 279 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 279 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 279 |  |  | C |  | 0 | 0 | 20 | 20 | 25 | 25 | 30 | 30 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 279 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 279 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 281 | PRINTING: COMMER | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 281 |  |  | S |  | 0 | 0 | 20 | 23 | 26 | 29 | 32 | 35 | 39 | 42 | 45 | 47 | 50 | 60 | 60 |
| 281 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 281 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 281 |  |  | C |  | 0 | 20 | 40 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 281 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 281 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 283 | PRIVATE CLUB | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 283 |  |  | S |  | 0 | 0 | 5 | 8 | 8 | 9 | 9 | 9 | 10 | 12 | 14 | 17 | 21 | 26 | 32 |
| 283 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 283 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 283 |  |  | C |  | 0 | 0 | 28 | 36 | 41 | 45 | 50 | 54 | 60 | 66 | 73 | 84 | 92 | 97 | 100 |
| 283 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 283 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 285 | PRIVATE STORAGE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 285 |  |  | S |  | 0 | 0 | 0 | 4 | 8 | 12 | 16 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 50 |
| 285 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 285 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 285 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 285 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 285 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 16 | 37 |  |  | 901 |  |
| 287 | QUONSET HUT STRG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 287 |  |  | S |  | 0 | 0 | 2 | 4 | 5 | 8 | 10 | 12 | 15 | 20 | 25 | 35 | 45 | 60 | 70 |
| 287 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 287 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 287 |  |  | C |  | 0 | 0 | 11 | 16 | 19 | 21 | 23 | 28 | 35 | 47 | 67 | 85 | 90 | 90 | 90 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 287 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 287 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 289 | RADIO STATION | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 289 |  |  | S |  | 0 | 0 | 8 | 15 | 24 | 25 | 26 | 27 | 29 | 32 | 36 | 40 | 45 | 50 | 56 |
| 289 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 289 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 289 |  |  | C |  | 0 | 0 | 20 | 40 | 65 | 85 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 289 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 289 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 291 | REAL ESTATE OFC. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 291 |  |  | S |  | 0 | 0 | 8 | 15 | 24 | 25 | 26 | 27 | 29 | 32 | 36 | 40 | 45 | 50 | 56 |
| 291 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 291 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 291 |  |  | C |  | 0 | 12 | 21 | 35 | 55 | 77 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 291 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 291 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 293 | RECYCLING: METAL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 293 |  |  | S |  | 0 | 0 | 5 | 10 | 20 | 40 | 50 | 60 | 70 | 80 | 100 | 100 | 100 | 100 | 100 |
| 293 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 293 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 293 |  |  | C |  | 0 | 0 | 0 | 0 | 10 | 20 | 20 | 20 | 40 | 40 | 40 | 40 | 40 | 40 | 50 |
| 293 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 293 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 295 | RECREATION FAC. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 295 |  |  | S |  | 0 | 0 | 0 | 0 | 2 | 5 | 10 | 10 | 15 | 15 | 20 | 20 | 25 | 25 | 35 |
| 295 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 295 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 295 |  |  | C |  | 0 | 0 | 15 | 30 | 35 | 53 | 73 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |


| 295 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 295 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  |  | 69 | 37 |  |  | 901 |  |
| 297 | REFINERY: CAUST. MTL. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 297 |  |  | S |  | 0 | 0 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 45 |
| 297 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 297 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 297 |  |  | C |  | 0 | 0 | 37 | 48 | 73 | 78 | 78 | 78 | 79 | 79 | 79 | 79 | 79 | 79 | 80 |
| 297 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 297 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 299 | REFINERY: LEAD | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 299 |  |  | S |  | 0 | 0 | 2 | 10 | 15 | 20 | 32 | 39 | 43 | 44 | 45 | 51 | 58 | 62 | 65 |
| 299 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 299 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 299 |  |  | C |  | 0 | 0 | 11 | 20 | 30 | 40 | 49 | 59 | 69 | 79 | 81 | 81 | 81 | 81 | 81 |
| 299 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 299 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 301 | REMNANT SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 301 |  |  | S |  | 0 | 0 | 10 | 15 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 65 | 75 |
| 301 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 301 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 301 |  |  | C |  | 0 | 0 | 15 | 22 | 40 | 58 | 77 | 86 | 91 | 95 | 95 | 95 | 95 | 95 | 95 |
| 301 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 301 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 303 | RENDERING PLANT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 303 |  |  | S |  | 0 | 0 | 12 | 14 | 17 | 19 | 23 | 27 | 31 | 35 | 40 | 45 | 45 | 50 | 50 |
| 303 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 303 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 303 |  |  | C |  | 0 | 0 | 17 | 29 | 50 | 67 | 83 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| 303 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 303 |  |  | Struct | N |  |  | 0.2 |  | $N$ |  | 15 |  |  | 901 |  |  |  | 901 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 305 | RESEARCH LAB: MACH. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 305 |  |  | S |  | 0 | 0 | 12 | 14 | 17 | 19 | 23 | 27 | 31 | 35 | 40 | 45 | 50 | 55 | 60 |
| 305 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 305 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 305 |  |  | C |  | 0 | 0 | 20 | 32 | 43 | 55 | 60 | 63 | 64 | 65 | 66 | 68 | 68 | 68 | 70 |
| 305 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 305 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 96 | 37 |  |  | 901 |  |
| 307 | RESTAURANT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 307 |  |  | S |  | 0 | 0 | 15 | 18 | 20 | 23 | 25 | 27 | 28 | 30 | 33 | 37 | 43 | 50 | 58 |
| 307 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 307 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 307 |  |  | C |  | 0 | 0 | 20 | 40 | 80 | 90 | 92 | 94 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 307 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 307 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 39 | 37 |  |  | 901 |  |
| 309 | RESTAURANT: DRIV | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 309 |  |  | S |  | 0 | 0 | 2 | 4 | 7 | 10 | 14 | 18 | 23 | 28 | 33 | 39 | 44 | 50 | 56 |
| 309 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 309 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 309 |  |  | C |  | 0 | 0 | 25 | 50 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 309 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 309 |  |  | Struct | N |  |  | 1.5 |  | $N$ |  | 37 |  | N | 96 | 37 |  |  | 901 |  |
| 311 | REUPHOLSTERY SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 311 |  |  | S |  | 0 | 0 | 10 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 20 | 30 | 30 | 30 | 30 |
| 311 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 311 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 311 |  |  | C |  | 0 | 0 | 23 | 28 | 36 | 41 | 45 | 50 | 53 | 58 | 58 | 59 | 60 | 60 | 60 |
| 311 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 311 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |


| 313 | SAFETY EQUIPMENT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 313 |  |  | S |  | 0 | 0 | 8 | 16 | 23 | 28 | 33 | 37 | 39 | 40 | 40 | 40 | 43 | 44 | 45 |
| 313 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 313 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 313 |  |  | C |  | 0 | 0 | 12 | 25 | 37 | 50 | 62 | 75 | 85 | 93 | 97 | 100 | 100 | 100 | 100 |
| 313 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 313 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 315 | SAND \& GRAVEL CO | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 315 |  |  | S |  | 0 | 0 | 2 | 4 | 6 | 8 | 10 | 11 | 12 | 13 | 14 | 15 | 15 | 15 | 15 |
| 315 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 315 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 315 |  |  | C |  | 0 | 0 | 0 | 1 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 18 | 23 | 23 |
| 315 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 315 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 317 | SANDBLASTING CO. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 317 |  |  | S |  | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 317 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 317 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 317 |  |  | C |  | 0 | 0 | 15 | 45 | 68 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 317 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 317 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 319 | SCHOOL | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 319 |  |  | S |  | 0 | 0 | 8 | 12 | 15 | 15.5 | 16 | 17 | 19 | 22 | 25 | 28 | 32 | 36 | 40 |
| 319 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 319 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 319 |  |  | C |  | 0 | 10 | 18 | 26 | 45 | 66 | 76 | 88 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 319 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 319 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 11 | 37 |  |  | 901 |  |
| 321 | SCALE BUILDING | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 321 |  |  | S |  | 0 | 0 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 45 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 321 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 321 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 321 |  |  | C |  | 0 | 0 | 0 | 5 | 15 | 25 | 40 | 50 | 75 | 85 | 100 | 100 | 100 | 100 | 100 |
| 321 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 321 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 323 | SEPARATORS | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 323 |  |  | S |  | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 323 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 323 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 323 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 323 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 323 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 325 | SERVICE STATION | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 325 |  |  | S |  | 0 | 0 | 1 | 2 | 3 | 5 | 7 | 10 | 13 | 16 | 19 | 23 | 27 | 33 | 38 |
| 325 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 325 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 325 |  |  | C |  | 0 | 0 | 13 | 40 | 60 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 325 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 325 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 156 | 37 |  |  | 901 |  |
| 327 | SEWAGE TREATMENT | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 327 |  |  | S |  | 0 | 0 | 2 | 4 | 4 | 4 | 5 | 6 | 8 | 12 | 16 | 21 | 27 | 34 | 42 |
| 327 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 327 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 327 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 327 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 327 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 329 | SHEET METAL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 329 |  |  | S |  | 0 | 0 | 30 | 30 | 30 | 30 | 33 | 36 | 39 | 40 | 40 | 40 | 40 | 40 | 40 |


| 329 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 329 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 329 |  |  | C |  | 0 | 0 | 29 | 41 | 46 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 |
| 329 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 329 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 331 | SHOE STORE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 331 |  |  | S |  | 0 | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 |
| 331 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 331 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 331 |  |  | C |  | 0 | 0 | 10 | 23 | 35 | 48 | 59 | 73 | 85 | 98 | 98 | 98 | 98 | 98 | 98 |
| 331 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 331 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 333 | SKATING RINK | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 333 |  |  | S |  | 0 | 0 | 12 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 16 |
| 333 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 333 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 333 |  |  | C |  | 0 | 0 | 10 | 25 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 333 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 333 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 335 | SPORTING GOODS WHSE. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 335 |  |  | S |  | 0 | 0 | 10 | 17 | 22 | 24 | 15 | 26 | 27 | 28 | 30 | 30 | 35 | 37 | 39 |
| 335 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 335 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 335 |  |  | C |  | 0 | 0 | 10 | 35 | 50 | 63 | 75 | 87 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 335 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 335 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 337 | STORAGE: MACH. PARTS | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 337 |  |  | S |  | 0 | 0 | 5 | 10 | 20 | 30 | 50 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| 337 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 337 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 337 |  |  | C |  | 0 | 0 | 20 | 30 | 40 | 50 | 50 | 50 | 75 | 75 | 75 | 100 | 100 | 100 | 100 |
| 337 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 337 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 339 | STORAGE: CHEM. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 339 |  |  | S |  | 0 | 0 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 45 |
| 339 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 339 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 339 |  |  | C |  | 0 | 0 | 11 | 16 | 22 | 28 | 38 | 48 | 60 | 72 | 80 | 80 | 80 | 80 | 80 |
| 339 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 339 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 341 | SWIMMING POOL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 341 |  |  | S |  | 0 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 341 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 341 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 341 |  |  | C |  | 0 | 0 | 25 | 50 | 75 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 341 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 341 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 343 | TAR VAT BUILDING | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 343 |  |  | S |  | 0 | 0 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 51 |
| 343 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 343 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 343 |  |  | C |  | 0 | 0 | 5 | 10 | 15 | 25 | 35 | 50 | 50 | 60 | 60 | 60 | 60 | 60 | 60 |
| 343 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 343 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 345 | TAVERN | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 345 |  |  | S |  | 0 | 0 | 15 | 18 | 20 | 22 | 24 | 27 | 31 | 34 | 38 | 42 | 46 | 50 | 54 |
| 345 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 345 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 345 |  |  | C |  | 0 | 38 | 60 | 74 | 89 | 97 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 345 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 345 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 45 | 37 |  |  | 901 |  |
| 347 | TELEPHONE EXCHAN | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 347 |  |  | S |  | 0 | 0 | 12 | 14 | 17 | 19 | 23 | 27 | 31 | 35 | 40 | 45 | 50 | 55 | 59 |
| 347 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 347 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 347 |  |  | C |  | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 347 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 347 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 349 | THEATER | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 349 |  |  | S |  | 0 | 0 | 2 | 3 | 4 | 4 | 4 | 5 | 7 | 10 | 13 | 16 | 21 | 25 | 30 |
| 349 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 349 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 349 |  |  | C |  | 0 | 0 | 3 | 4 | 5 | 6 | 6 | 6 | 9 | 12 | 16 | 22 | 28 | 37 | 46 |
| 349 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 349 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 351 | THEATER: DRIVE-IN | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 351 |  |  | S |  | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 5 | 5 | 6 |
| 351 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 351 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 351 |  |  | C |  | 0 | 0 | 0 | 2 | 2 | 2 | 4 | 5 | 9 | 13 | 18 | 23 | 30 | 37 | 46 |
| 351 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 351 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 353 | TRACTOR SALES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 353 |  |  | S |  | 0 | 0 | 9 | 13 | 18 | 21 | 22 | 23 | 24 | 25 | 25 | 25 | 26 | 27 | 28 |
| 353 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 353 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 353 |  |  | C |  | 0 | 0 | 6 | 17 | 29 | 44 | 58 | 69 | 76 | 80 | 83 | 87 | 91 | 94 | 98 |


| 353 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 353 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 355 | TRAILER MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 355 |  |  | S |  | 0 | 0 | 2 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 10 | 10 | 10 | 10 |
| 355 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 355 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 355 |  |  | C |  | 0 | 0 | 27 | 30 | 37 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 355 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 355 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 357 | TRANSPORT CO. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 357 |  |  | S |  | 0 | 0 | 9 | 11 | 12 | 16 | 20 | 24 | 28 | 30 | 30 | 30 | 30 | 30 | 30 |
| 357 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 357 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 357 |  |  | C |  | 0 | 0 | 60 | 75 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 357 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 357 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 359 | TRAILER SALES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 359 |  |  | S |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 359 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 359 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 359 |  |  | C |  | 0 | 0 | 18 | 37 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 359 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 359 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 361 | TRAILER PARTS | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 361 |  |  | S |  | 0 | 0 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 32 | 36 | 38 | 40 | 50 | 60 |
| 361 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 361 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 361 |  |  | C |  | 0 | 0 | 0 | 7 | 13 | 24 | 27 | 34 | 36 | 39 | 50 | 50 | 50 | 50 | 55 |
| 361 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 361 |  |  | Struct | N |  |  | 0.2 |  | $N$ |  | 15 |  |  | 901 |  |  |  | 901 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 363 | TRUCK MFG. \& SALES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 363 |  |  | S |  | 0 | 0 | 12 | 18 | 23 | 26 | 27 | 28 | 29 | 30 | 30 | 30 | 32 | 33 | 35 |
| 363 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 363 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 363 |  |  | C |  | 0 | 0 | 39 | 57 | 63 | 70 | 75 | 80 | 83 | 90 | 91 | 91 | 100 | 100 | 100 |
| 363 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 363 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 365 | TROPHY SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 365 |  |  | S |  | 0 | 0 | 8 | 9 | 10 | 12 | 15 | 17 | 18 | 18 | 19 | 20 | 23 | 29 | 33 |
| 365 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 365 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 365 |  |  | C |  | 0 | 0 | 17 | 26 | 31 | 49 | 62 | 66 | 69 | 71 | 71 | 72 | 73 | 74 | 76 |
| 365 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 365 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 367 | TV REPAIR | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 367 |  |  | S |  | 0 | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 75 | 80 | 80 | 80 | 80 |
| 367 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 367 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 367 |  |  | C |  | 0 | 0 | 10 | 15 | 20 | 37 | 54 | 71 | 76 | 80 | 80 | 81 | 81 | 82 | 82 |
| 367 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 367 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 369 | TV STATION | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 369 |  |  | S |  | 0 | 0 | 1 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 8 | 10 | 14 | 19 | 25 |
| 369 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 369 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 369 |  |  | C |  | 0 | 0 | 20 | 40 | 65 | 85 | 95 | 100 | 100 | 10 | 100 | 100 | 100 | 100 | 100 |
| 369 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 369 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |


| 371 | USED APPL. \& CLOTHING | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 371 |  |  | S |  | 0 | 0 | 10 | 12 | 14 | 16 | 18 | 20 | 23 | 26 | 30 | 40 | 45 | 55 | 55 |
| 371 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 371 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 371 |  |  | C |  | 0 | 0 | 18 | 33 | 65 | 88 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 371 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 371 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 373 | USED FURNITURE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 373 |  |  | S |  | 0 | 0 | 10 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 50 | 50 | 55 | 55 |
| 373 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 373 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 373 |  |  | C |  | 0 | 40 | 60 | 70 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 373 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 373 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 375 | UTILITY COMPANY | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 375 |  |  | S |  | 0 | 0 | 3 | 5 | 10 | 14 | 18 | 22 | 26 | 30 | 34 | 36 | 38 | 40 | 40 |
| 375 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 375 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 375 |  |  | C |  | 0 | 0 | 1 | 1 | 5 | 7 | 10 | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 16 |
| 375 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 375 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 377 | VACUUM CLEANER SALES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 377 |  |  | S |  | 0 | 0 | 10 | 15 | 20 | 25 | 30 | 33 | 36 | 40 | 50 | 55 | 60 | 60 | 60 |
| 377 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 377 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 377 |  |  | C |  | 0 | 0 | 44 | 58 | 66 | 71 | 74 | 78 | 78 | 78 | 85 | 85 | 85 | 85 | 93 |
| 377 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 377 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 379 | VACANT BLDG.: CN | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 379 |  |  | S |  | 0 | 0 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 45 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 379 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 379 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 379 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 379 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 379 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 381 | VARIETY STORE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 381 |  |  | S |  | 0 | 0 | 8 | 9 | 10 | 12 | 15 | 17 | 18 | 18 | 19 | 20 | 23 | 26 | 29 |
| 381 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 381 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 381 |  |  | C |  | 0 | 10 | 20 | 40 | 70 | 85 | 90 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 381 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 381 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 383 | VETERINARY CLINI | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 383 |  |  | S |  | 0 | 0 | 1 | 3 | 4 | 6 | 9 | 11 | 14 | 17 | 20 | 24 | 29 | 35 | 42 |
| 383 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 383 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 383 |  |  | C |  | 0 | 25 | 50 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 383 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 383 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 41 | 37 |  |  | 901 |  |
| 385 | WAREHOUSE: HVY. MACH. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 385 |  |  | S |  | 0 | 0 | 2 | 4 | 5 | 6 | 7 | 8 | 10 | 13 | 17 | 21 | 25 | 30 | 35 |
| 385 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 385 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 385 |  |  | C |  | 0 | 0 | 9 | 24 | 24 | 33 | 38 | 47 | 70 | 71 | 72 | 73 | 74 | 75 | 84 |
| 385 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 385 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 387 | WAREHOUSE: BEER | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 387 |  |  | S |  | 0 | 0 | 2 | 4 | 5 | 6 | 7 | 8 | 10 | 13 | 17 | 21 | 25 | 30 | 30 |


| 387 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 387 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 387 |  |  | C |  | 0 | 0 | 21 | 84 | 88 | 92 | 96 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 387 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 387 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 389 | WAREHOUSE: BTL. GASES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 389 |  |  | S |  | 0 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 |
| 389 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 389 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 389 |  |  | C |  | 0 | 0 | 8 | 8 | 8 | 14 | 16 | 20 | 28 | 28 | 30 | 30 | 30 | 30 | 38 |
| 389 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 389 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 391 | WAREHOUSE: PETR. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 391 |  |  | S |  | 0 | 0 | 2 | 4 | 5 | 6 | 7 | 8 | 10 | 13 | 17 | 21 | 25 | 30 | 30 |
| 391 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 391 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 391 |  |  | C |  | 0 | 0 | 0 | 0 | 9 | 20 | 40 | 59 | 77 | 77 | 77 | 78 | 78 | 78 | 78 |
| 391 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 391 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 393 | WAREHOUSE:CEMENT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 393 |  |  | S |  | 0 | 0 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 | 45 | 45 |
| 393 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 393 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 393 |  |  | C |  | 0 | 0 | 20 | 40 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 393 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 393 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 395 | WAREHOUSE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 395 |  |  | S |  | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 5 | 8 | 12 | 16 | 21 | 26 | 32 | 38 |
| 395 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 395 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 395 |  |  | C |  | 0 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 100 | 100 | 100 | 100 | 100 |
| 395 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 395 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 176 | 37 |  |  | 901 |  |
| 397 | WASHATERIA | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 397 |  |  | S |  | 0 | 0 | 6 | 6 | 6 | 7 | 8 | 10 | 12 | 15 | 18 | 23 | 27 | 32 | 38 |
| 397 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 397 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 397 |  |  | C |  | 0 | 0 | 20 | 55 | 78 | 100 | 86 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 397 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 397 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 399 | WATER SUPPLY | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 399 |  |  | S |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 399 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 399 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 399 |  |  | C |  | 0 | 0 | 0 | 0 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 399 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 399 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 401 | WATER WELL SVC. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 401 |  |  | S |  | 0 | 0 | 5 | 20 | 40 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| 401 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 401 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 401 |  |  | C |  | 0 | 0 | 0 | 25 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| 401 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 401 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 403 | WELDING REPAIR | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 403 |  |  | S |  | 0 | 17 | 17 | 17 | 17 | 23 | 32 | 45 | 55 | 61 | 66 | 69 | 73 | 76 | 78 |
| 403 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 403 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 403 |  |  | C |  | 0 | 0 | 1 | 6 | 15 | 18 | 20 | 21 | 22 | 24 | 27 | 30 | 33 | 37 | 41 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 403 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 403 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 405 | WELDING SUPL.: WHLSL | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 405 |  |  | S |  | 0 | 17 | 7 | 13 | 18 | 22 | 25 | 27 | 30 | 32 | 34 | 37 | 40 | 44 | 47 |
| 405 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 405 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 405 |  |  | C |  | 0 | 0 | 15 | 35 | 45 | 50 | 57 | 66 | 80 | 100 | 100 | 100 | 100 | 100 | 100 |
| 405 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 405 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 407 | WELLHEAD | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 407 |  |  | S |  | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 407 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 407 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 407 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 407 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 407 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 409 | WESTERN AUTO STORE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 409 |  |  | S |  | 0 | 0 | 4 | 6 | 7 | 11 | 11 | 18 | 24 | 30 | 36 | 41 | 46 | 50 | 53 |
| 409 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 409 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 409 |  |  | C |  | 0 | 0 | 21 | 46 | 69 | 84 | 97 | 97 | 97 | 98 | 98 | 98 | 99 | 99 | 99 |
| 409 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 409 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 411 | X-RAY SERVICE | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 411 |  |  | S |  | 0 | 0 | 5 | 7 | 12 | 13 | 14 | 15 | 15 | 15 | 15 | 15 | 18 | 19 | 20 |
| 411 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 411 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 411 |  |  | C |  | 0 | 0 | 20 | 40 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |


| 411 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 411 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 413 | YMCA | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 413 |  |  | S |  | 0 | 0 | 25 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 35 | 35 | 35 |
| 413 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 413 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 413 |  |  | C |  | 0 | 0 | 0 | 5 | 24 | 50 | 82 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 413 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 413 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 415 | BALL PARK | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 415 |  |  | S |  | 0 | 0 | 10 | 26 | 42 | 52 | 57 | 61 | 66 | 70 | 73 | 77 | 80 | 80 | 80 |
| 415 |  |  | SN |  | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 415 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 415 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 415 |  |  | CN |  | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 415 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 417 | BARN | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 417 |  |  | S |  | 0 | 0 | 8 | 13 | 18 | 25 | 35 | 45 | 55 | 65 | 72 | 78 | 85 | 85 | 85 |
| 417 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 417 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 417 |  |  | C |  | 0 | 0 | 8 | 13 | 18 | 25 | 35 | 45 | 55 | 65 | 72 | 78 | 85 | 85 | 85 |
| 417 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 417 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 100 | 37 |  |  | 901 |  |
| 419 | TENNIS COURT | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 419 |  |  | S |  | 0 | 0 | 25 | 29 | 33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| 419 |  |  | SN |  | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 419 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 419 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 419 |  |  | CN |  | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 419 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 421 | GENL. OFFICE COM | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 421 |  |  | S |  | 0 | 0 | 8 | 10 | 12 | 14 | 17 | 20 | 23 | 26 | 30 | 34 | 38 | 43 | 48 |
| 421 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 421 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 421 |  |  | C |  | 0 | 12 | 21 | 55 | 77 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 421 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 421 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 423 | GENL. RETAIL COM | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 423 |  |  | S |  | 0 | 0 | 8 | 10 | 12 | 14 | 16 | 19 | 22 | 25 | 29 | 33 | 38 | 43 | 48 |
| 423 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 423 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 423 |  |  | C |  | 0 | 0 | 18 | 33 | 65 | 88 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 423 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 423 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 117 | 37 |  |  | 901 |  |
| 425 | GENL. WHLSL. \& I | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 425 |  |  | S |  | 0 | 1 | 4 | 8 | 10 | 14 | 18 | 23 | 26 | 30 | 33 | 38 | 42 | 46 | 48 |
| 425 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 425 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 425 |  |  | C |  | 0 | 0 | 9 | 16 | 21 | 24 | 28 | 31 | 34 | 37 | 41 | 45 | 46 | 47 | 48 |
| 425 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 425 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 85 | 37 |  |  | 901 |  |
| 427 | GENL. PUB. OPEN SP. | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 427 |  |  | S |  | 0 | 0 | 15 | 23 | 30 | 34 | 35 | 37 | 39 | 41 | 43 | 45 | 48 | 50 | 52 |
| 427 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 427 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 427 |  |  | C |  | 0 | 4 | 12 | 13 | 21 | 23 | 25 | 26 | 26 | 27 | 28 | 29 | 30 | 31 | 31 |
| 427 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 427 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 21 | 37 |  |  | 901 |  |


| 429 | GENL. PUB. STRUC | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 429 |  |  | S |  | 0 | 0 | 8 | 9 | 11 | 12 | 13 | 14 | 17 | 18 | 21 | 24 | 27 | 30 | 36 |
| 429 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 429 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 429 |  |  | C |  | 0 | 3 | 26 | 45 | 59 | 69 | 74 | 79 | 81 | 84 | 87 | 90 | 93 | 96 | 98 |
| 429 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 429 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 431 | ELEC.POWER SUBSTA. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 431 |  |  | S |  | 0 | 0 | 6 | 12 | 18 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | 51 |
| 431 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 431 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 431 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 431 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 431 |  |  | Struct | N |  |  | 1.5 |  | N |  | 37 |  | N | 0 | 37 |  |  | 901 |  |
| 433 | RAILROAD | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 433 |  |  | S |  | 0 | 0 | 6 | 12 | 18 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | 51 |
| 433 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 433 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 433 |  |  | C |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 433 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 433 |  |  | Struct | N |  |  | 0.2 |  | $N$ |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 551 | AIRCRAFT PARTS MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 551 |  |  | S |  | 0 | 1 | 4 | 8 | 10 | 14 | 18 | 23 | 26 | 30 | 33 | 38 | 42 | 46 | 48 |
| 551 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 551 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 551 |  |  | C |  | 0 | 0 | 20 | 40 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 551 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 551 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 553 | CORK AND SEAL MFG. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 553 |  |  | S |  | 0 | 1 | 4 | 8 | 10 | 14 | 18 | 23 | 26 | 30 | 33 | 38 | 42 | 46 | 48 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 553 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 553 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 553 |  |  | C |  | 0 | 0 | 10 | 20 | 35 | 50 | 60 | 70 | 80 | 90 | 95 | 100 | 100 | 100 | 100 |
| 553 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 553 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 555 | SOFT DRINK BOTTLING | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 555 |  |  | S |  | 0 | 1 | 4 | 8 | 10 | 14 | 18 | 23 | 26 | 30 | 33 | 38 | 42 | 46 | 48 |
| 555 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 555 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 555 |  |  | C |  | 0 | 0 | 20 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 555 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 555 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 557 | CHEMICAL MFG. CO. | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 557 |  |  | S |  | 0 | 1 | 4 | 8 | 10 | 14 | 18 | 23 | 26 | 30 | 33 | 38 | 42 | 46 | 48 |
| 557 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 557 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 557 |  |  | C |  | 0 | 0 | 20 | 40 | 68 | 80 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 557 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 557 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 559 | RADIO TOWER FACILITY | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 559 |  |  | S |  | 0 | 1 | 4 | 8 | 10 | 14 | 18 | 23 | 26 | 30 | 33 | 38 | 42 | 46 | 48 |
| 559 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 559 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 559 |  |  | C |  | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 559 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 559 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 561 | OIL FIELD SUPPLIES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 561 |  |  | S |  | 0 | 1 | 4 | 8 | 10 | 14 | 18 | 23 | 26 | 30 | 33 | 38 | 42 | 46 | 48 |


| 561 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 561 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 561 |  |  | C |  | 0 | 0 | 10 | 20 | 40 | 75 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 561 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 561 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 563 | OFFICE SUPPLIES | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 563 |  |  | S |  | 0 | 0 | 8 | 10 | 12 | 14 | 16 | 19 | 22 | 25 | 29 | 33 | 38 | 43 | 48 |
| 563 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 563 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 563 |  |  | C |  | 0 | 0 | 20 | 40 | 65 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 563 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 563 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 565 | CLOCK SHOP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 565 |  |  | S |  | 0 | 0 | 8 | 10 | 12 | 14 | 16 | 19 | 22 | 25 | 29 | 33 | 38 | 43 | 48 |
| 565 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 565 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 565 |  |  | C |  | 0 | 20 | 80 | 83 | 86 | 90 | 93 | 96 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 565 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 565 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 567 | CAMERAS \& PHOTO SUP | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 567 |  |  | S |  | 0 | 0 | 8 | 10 | 12 | 14 | 16 | 19 | 22 | 25 | 29 | 33 | 38 | 43 | 48 |
| 567 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 567 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 567 |  |  | C |  | 0 | 0 | 20 | 40 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 567 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 567 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 569 | SHOE \& BOOT REPAIR | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 569 |  |  | S |  | 0 | 0 | 8 | 10 | 12 | 14 | 16 | 19 | 22 | 25 | 29 | 33 | 38 | 43 | 48 |
| 569 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |


| 569 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 569 |  |  | C |  | 0 | 0 | 10 | 15 | 20 | 60 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 569 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 569 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 571 | AIR CONDITIONING | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 571 |  |  | S |  | 0 | 0 | 8 | 10 | 12 | 14 | 16 | 19 | 22 | 25 | 29 | 33 | 38 | 43 | 48 |
| 571 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 571 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 571 |  |  | C |  | 0 | 20 | 40 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 571 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 571 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 573 | VIDEO RENTAL STO | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 573 |  |  | S |  | 0 | 0 | 8 | 10 | 12 | 14 | 16 | 19 | 22 | 25 | 29 | 33 | 38 | 43 | 48 |
| 573 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 573 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 573 |  |  | C |  | 0 | 0 | 10 | 20 | 40 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 573 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 573 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 575 | PARK | P | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 575 |  |  | S |  | 0 | 0 | 10 | 26 | 42 | 52 | 57 | 61 | 66 | 70 | 73 | 77 | 80 | 80 | 80 |
| 575 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 575 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 575 |  |  | C |  | 0 | 20 | 40 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 575 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 575 |  |  | Struct | N |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 577 | CAMPGROUND | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 577 |  |  | S |  | 0 | 0 | 10 | 26 | 42 | 52 | 57 | 61 | 66 | 70 | 73 | 77 | 80 | 80 | 80 |
| 577 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 577 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |


| 577 |  |  | C |  | 0 | 20 | 40 | 60 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 577 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 577 |  |  | Struct | $N$ |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |
| 579 | PECAN FARM | C | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 579 |  |  | S |  | 0 | 0 | 8 | 13 | 18 | 25 | 35 | 45 | 55 | 65 | 72 | 78 | 85 | 85 | 85 |
| 579 |  |  | SN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 579 |  |  | Stage |  | -0.1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 579 |  |  | C |  | 0 | 20 | 10 | 40 | 80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 579 |  |  | CN |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 579 |  |  | Struct | $N$ |  |  | 0.2 |  | N |  | 15 |  |  | 901 |  |  |  | 901 |  |

