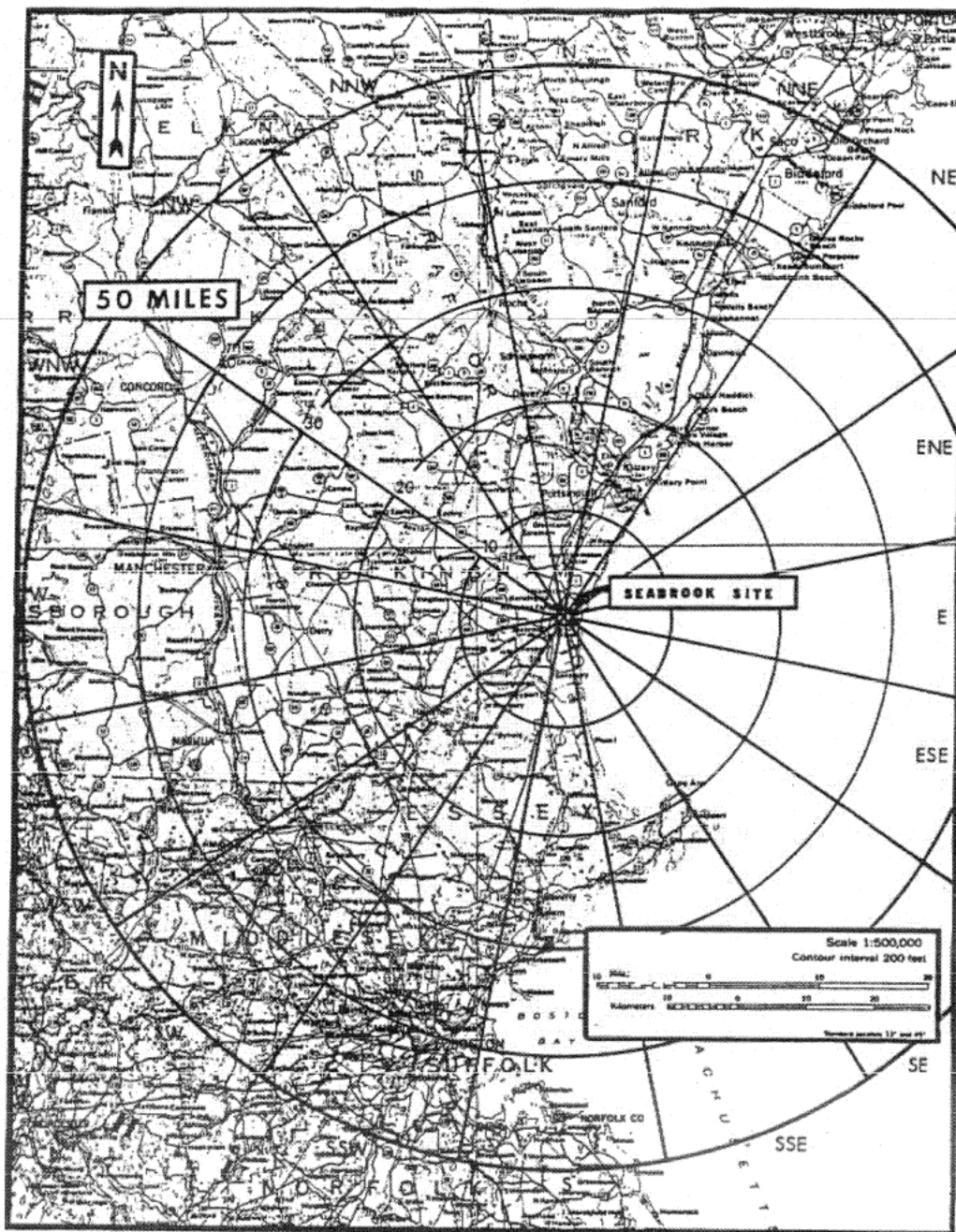


# **SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT**

## **CHAPTER 2 SITE CHARACTERISTICS**

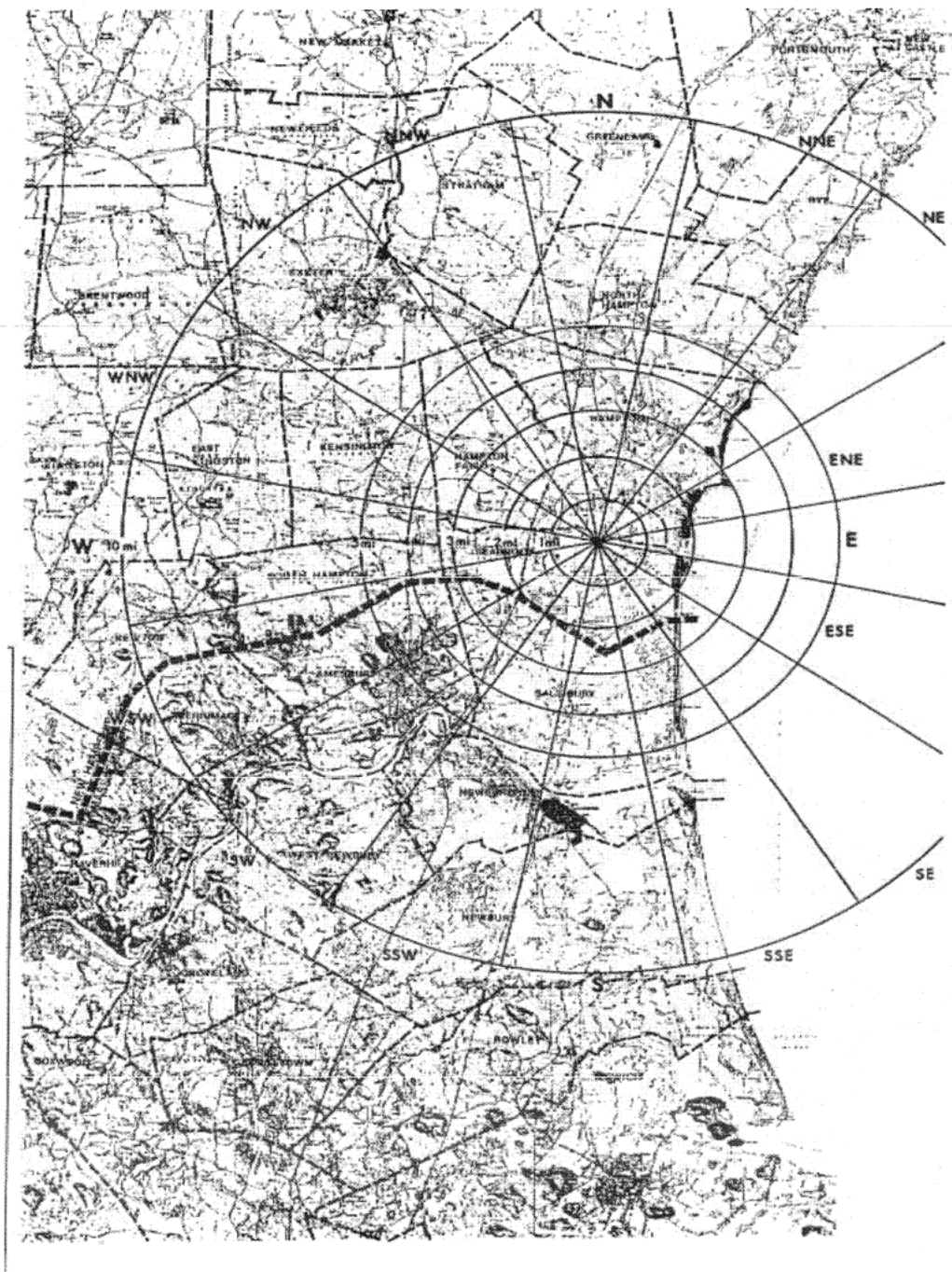
### **FIGURES**



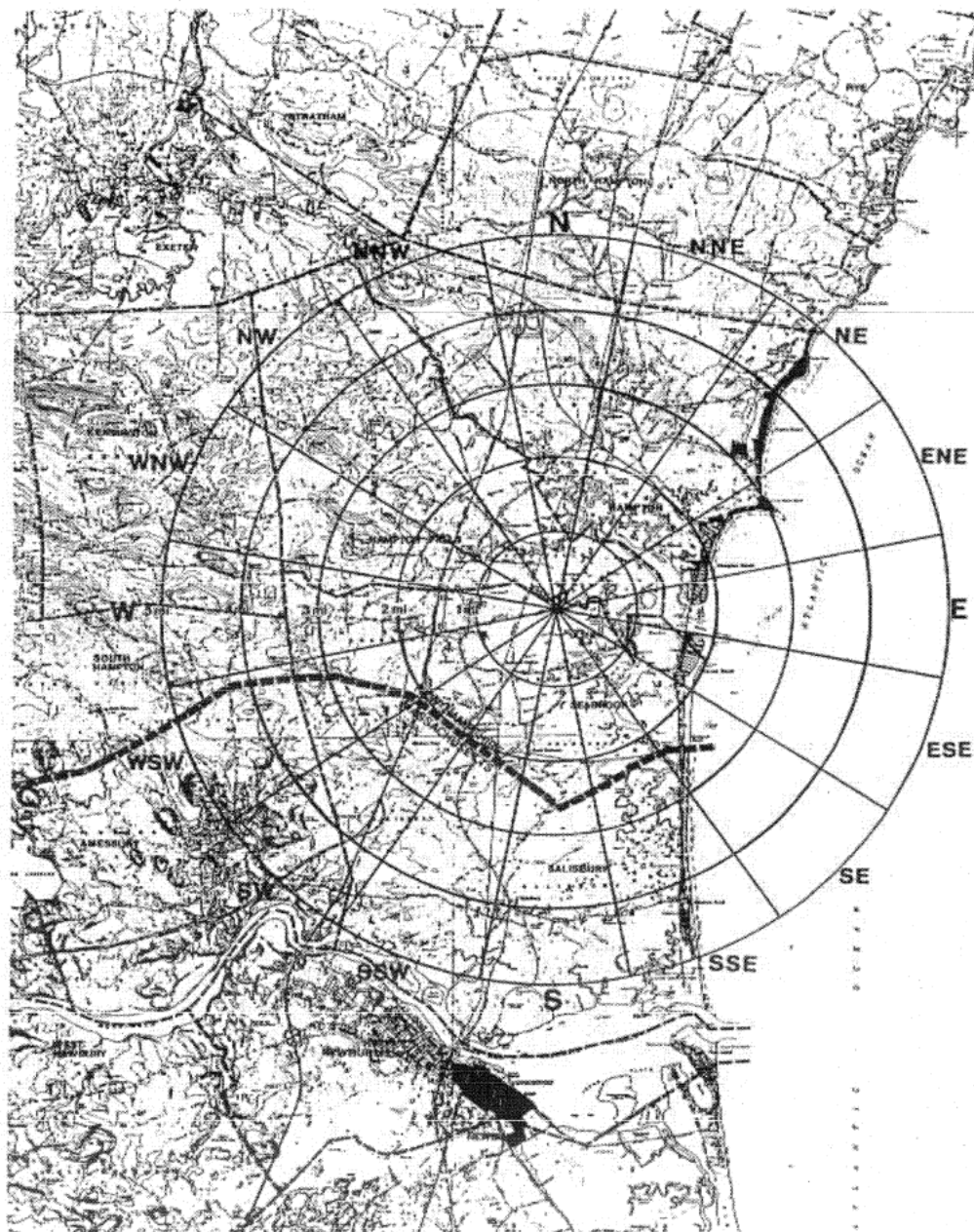


|   |  |              |
|---|--|--------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Location of Site within Southeastern New Hampshire |              |
|   |  | Figure 2.1-1 |





|   |                       |              |
|---|-----------------------|--------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Site Area: 0-10 Miles |              |
|   |                       | Figure 2.1-2 |



SEABROOK STATION  
 UPDATED FINAL SAFETY  
 ANALYSIS REPORT

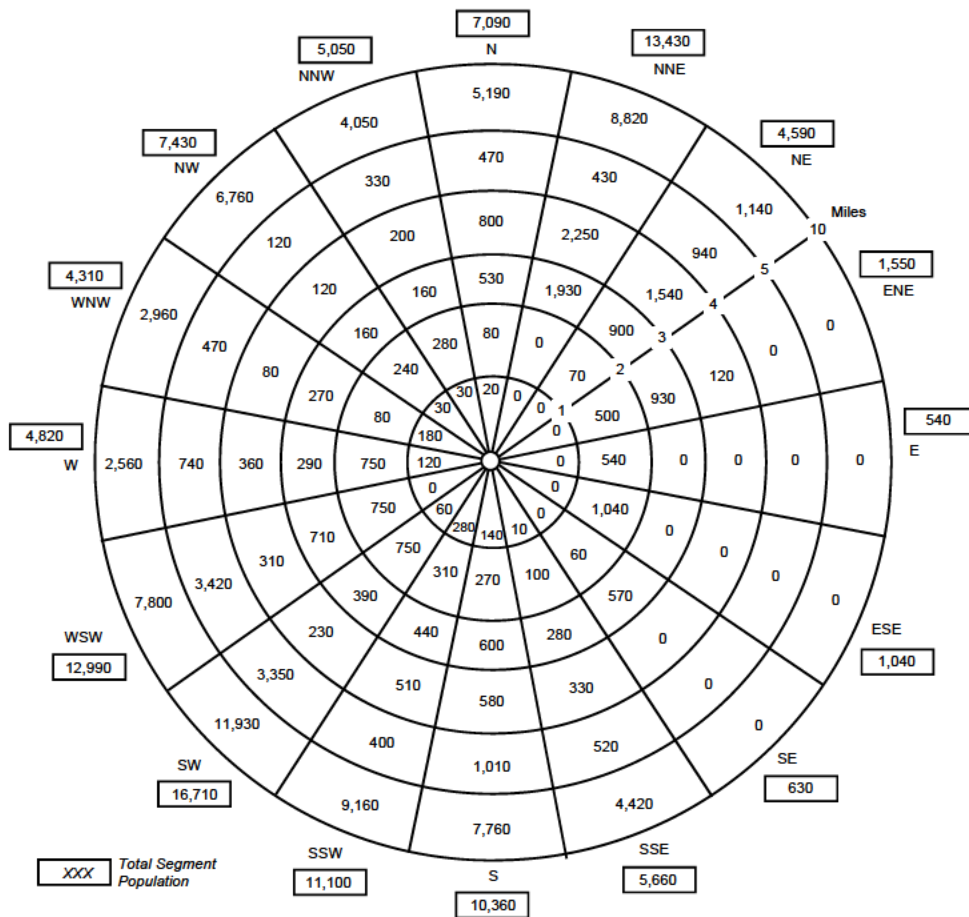
Site Area: 0-5 Miles

Figure 2.1-3





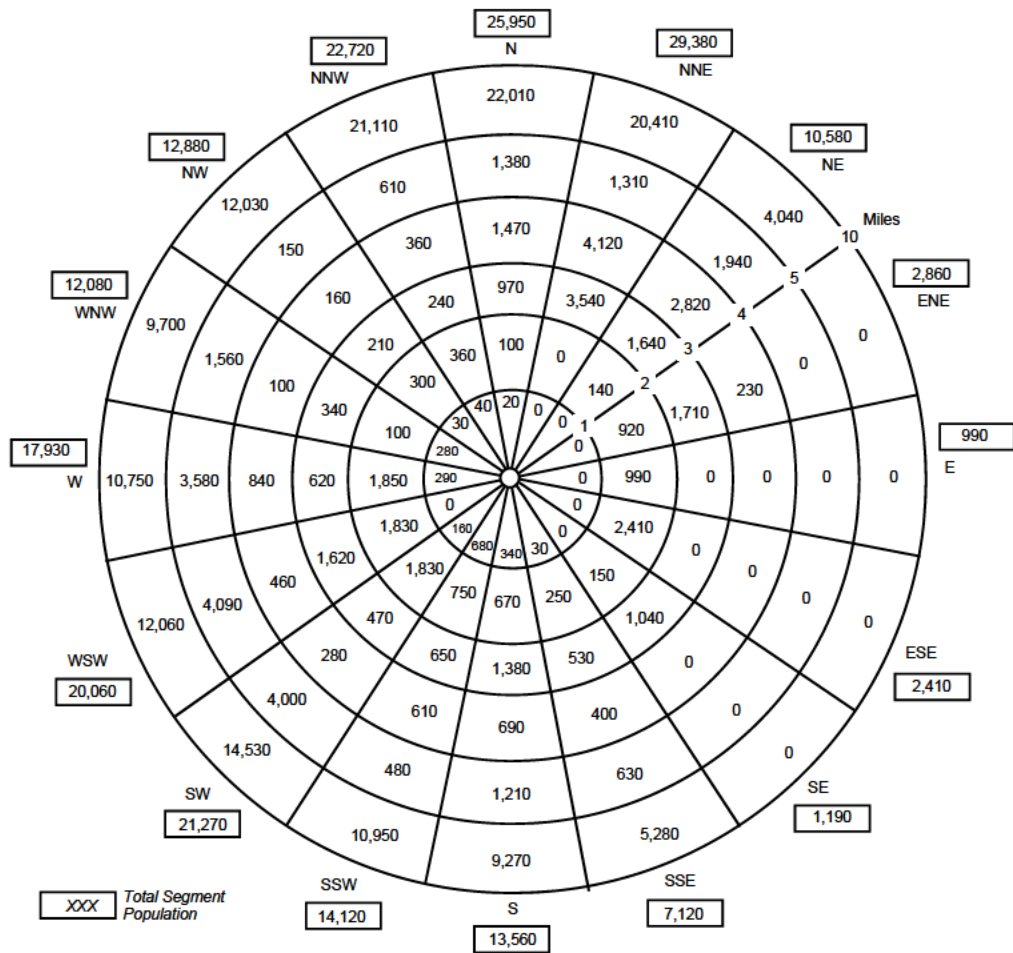




| Population Totals |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| Ring Miles        | Ring Population | Total Miles | Cumulative Population |
| 0 - 1             | 870             | 0 - 1       | 870                   |
| 1 - 2             | 5,820           | 0 - 2       | 6,690                 |
| 2 - 3             | 8,160           | 0 - 3       | 14,850                |
| 3 - 4             | 7,430           | 0 - 4       | 22,280                |
| 4 - 5             | 12,470          | 0 - 5       | 34,750                |
| 5 - 10            | 72,550          | 0 - 10      | 107,300               |

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|   |                                       |              |
|---|---------------------------------------|--------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | 1983 Resident Population (0-10 Miles) |              |
|   |                                       | Figure 2.1-6 |

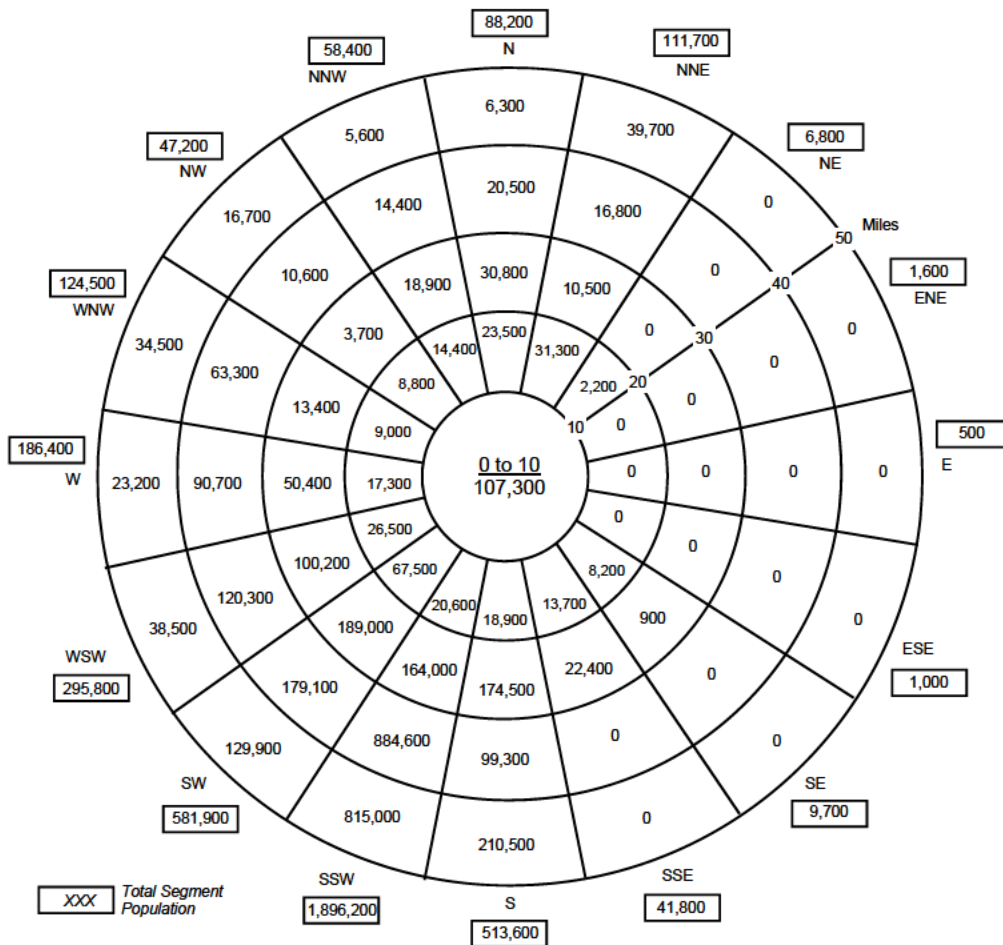


| Population Totals |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| Ring Miles        | Ring Population | Total Miles | Cumulative Population |
| 0 - 1             | 1,870           | 0 - 1       | 1,870                 |
| 1 - 2             | 12,650          | 0 - 2       | 14,520                |
| 2 - 3             | 14,960          | 0 - 3       | 29,480                |
| 3 - 4             | 12,540          | 0 - 4       | 42,020                |
| 4 - 5             | 20,940          | 0 - 5       | 62,960                |
| 5 - 10            | 152,140         | 0 - 10      | 215,100               |

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|   |                                       |              |
|---|---------------------------------------|--------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | 2025 Resident Population (0-10 Miles) |              |
|   |                                       | Figure 2.1-7 |

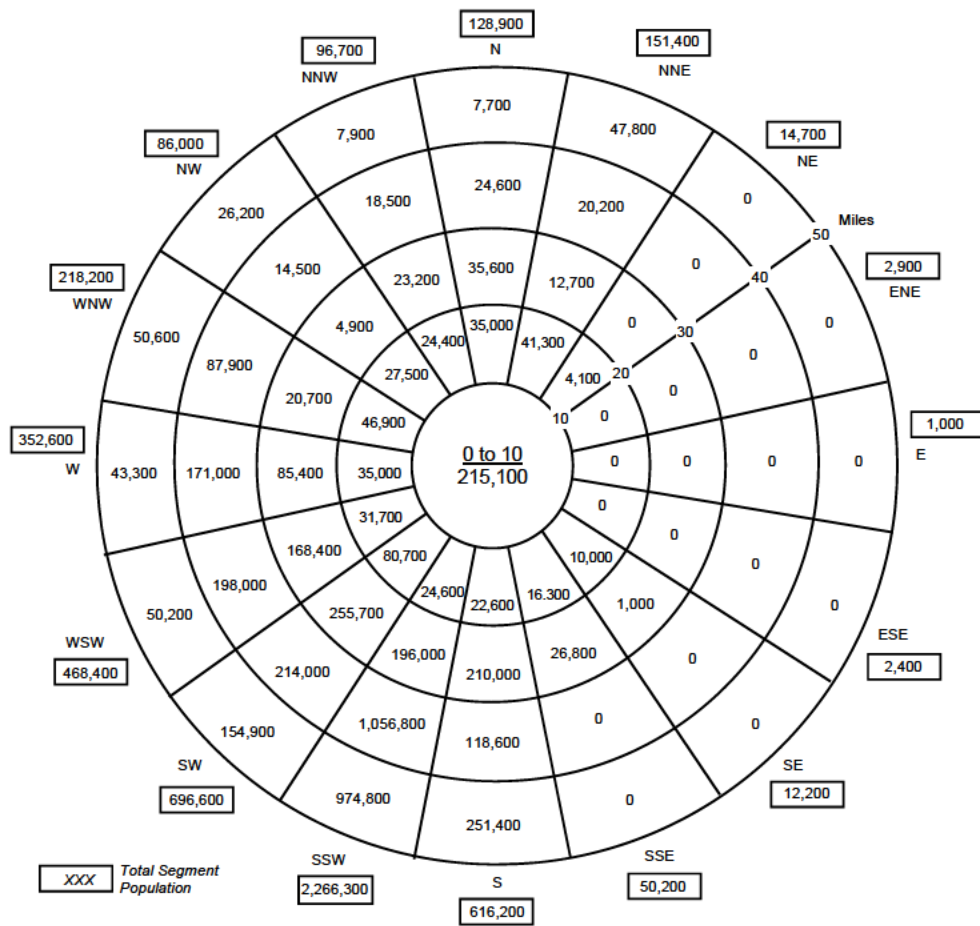




| Population Totals |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| Ring Miles        | Ring Population | Total Miles | Cumulative Population |
| 0 - 10            | 107,300         | 0 - 10      | 107,300               |
| 10 - 20           | 261,900         | 0 - 20      | 369,200               |
| 20 - 30           | 778,700         | 0 - 30      | 1,147,900             |
| 30 - 40           | 1,499,600       | 0 - 40      | 2,647,500             |
| 40 - 50           | 1,317,800       | 0 - 50      | 3,965,300             |

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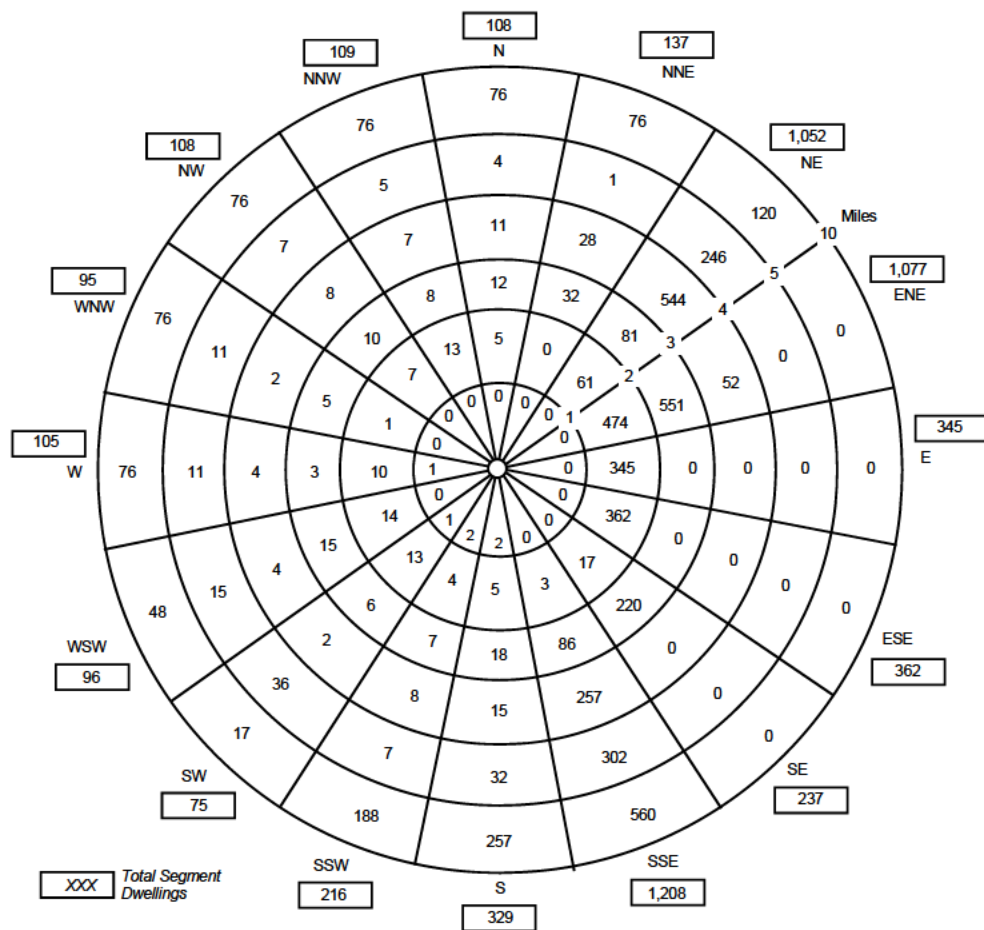
|   |                                       |              |
|---|---------------------------------------|--------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | 1983 Resident Population (0-50 Miles) |              |
|   |                                       | Figure 2.1-8 |



| Population Totals |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| Ring Miles        | Ring Population | Total Miles | Cumulative Population |
| 0 - 10            | 215,100         | 0 - 10      | 215,100               |
| 10 - 20           | 400,100         | 0 - 20      | 615,200               |
| 20 - 30           | 1,010,400       | 0 - 30      | 1,625,600             |
| 30 - 40           | 1,924,100       | 0 - 40      | 3,549,700             |
| 40 - 50           | 1,614,800       | 0 - 50      | 5,164,500             |

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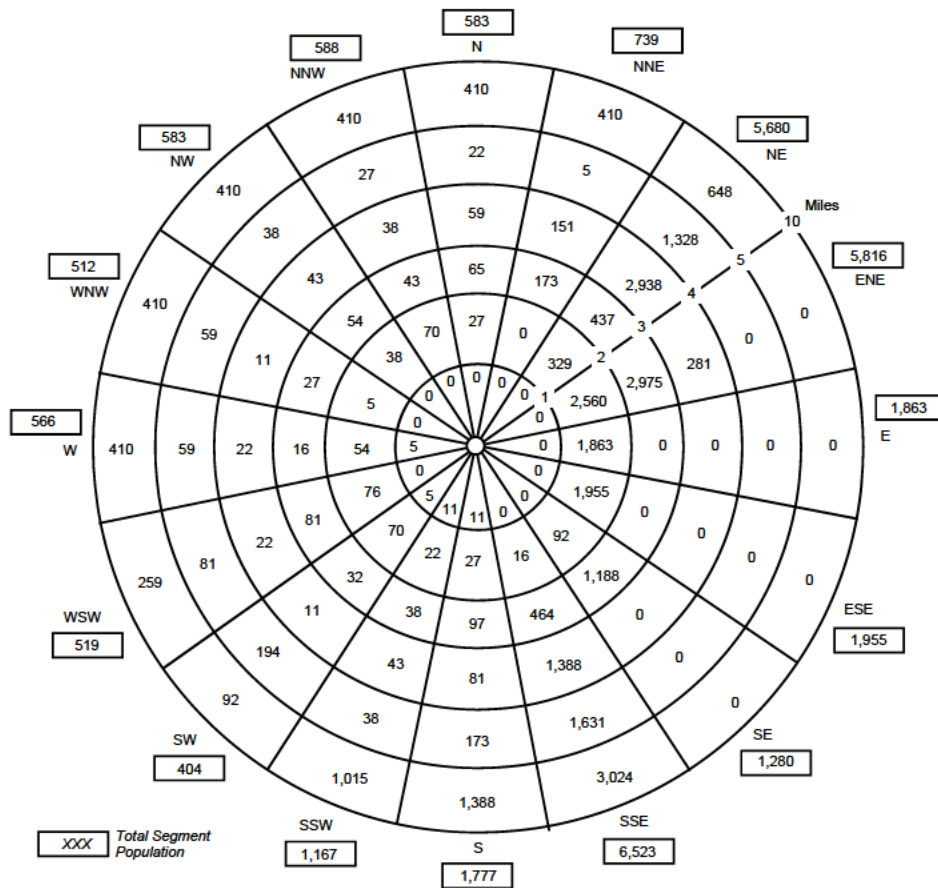
|   |                                       |              |
|---|---------------------------------------|--------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | 2025 Resident Population (0-50 Miles) |              |
|   |                                       | Figure 2.1-9 |



| Dwelling Totals |                |             |                      |
|-----------------|----------------|-------------|----------------------|
| Ring Miles      | Ring Dwellings | Total Miles | Cumulative Dwellings |
| 0 - 1           | 6              | 0 - 1       | 6                    |
| 1 - 2           | 1,334          | 0 - 2       | 1,340                |
| 2 - 3           | 1,054          | 0 - 3       | 2,394                |
| 3 - 4           | 942            | 0 - 4       | 3,336                |
| 4 - 5           | 677            | 0 - 5       | 4,013                |
| 5 - 10          | 1,646          | 0 - 10      | 5,659                |

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|   |                                      |               |
|---|--------------------------------------|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Seasonal Dwelling Units (0-10) Miles |               |
|   |                                      | Figure 2.1-10 |



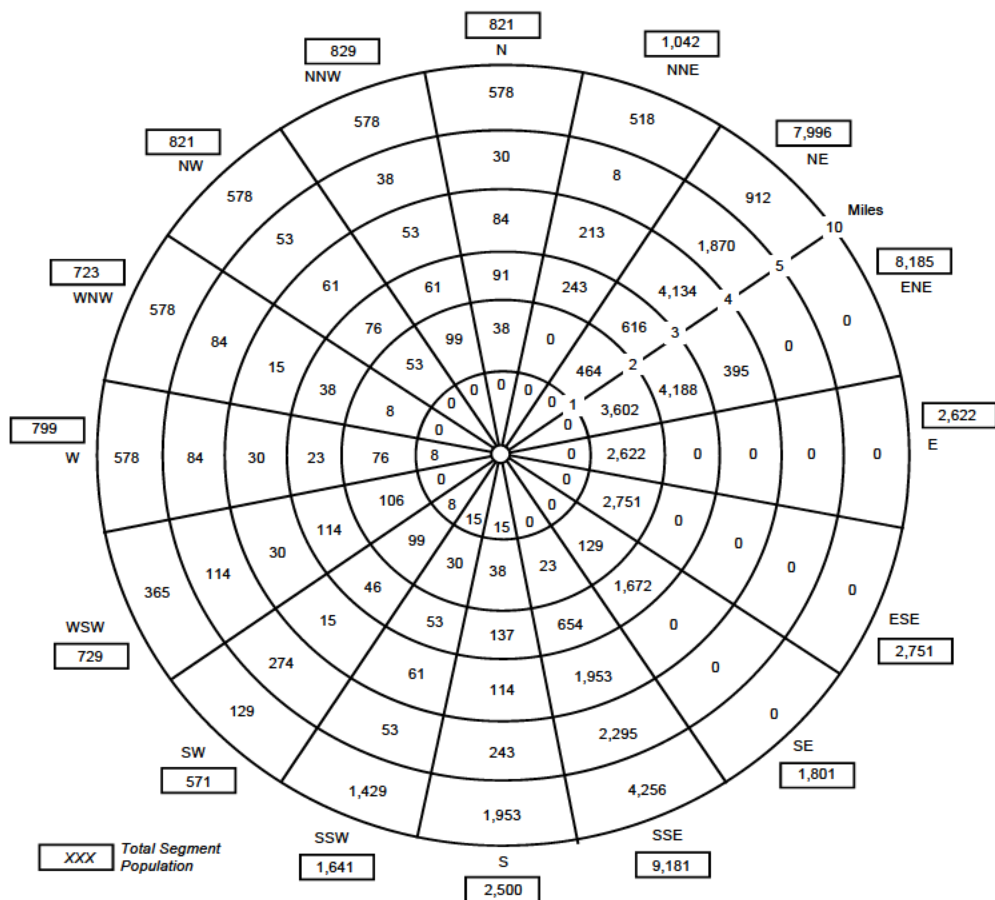
| Population Totals |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| Ring Miles        | Ring Population | Total Miles | Cumulative Population |
| 0 - 1             | 32              | 0 - 1       | 32                    |
| 1 - 2             | 7,204           | 0 - 2       | 7,236                 |
| 2 - 3             | 5,690           | 0 - 3       | 12,296                |
| 3 - 4             | 5,088           | 0 - 4       | 18,014                |
| 4 - 5             | 3,655           | 0 - 5       | 21,669                |
| 5 - 10            | 8,886           | 0 - 10      | 30,555                |

\*Population = Number of Dwelling Units x 5.4 Person/Unit

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|   |  |               |
|---|--|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Weekday Seasonal Dwelling Unit Population (0-10 Miles) |               |
|   |  | Figure 2.1-11 |



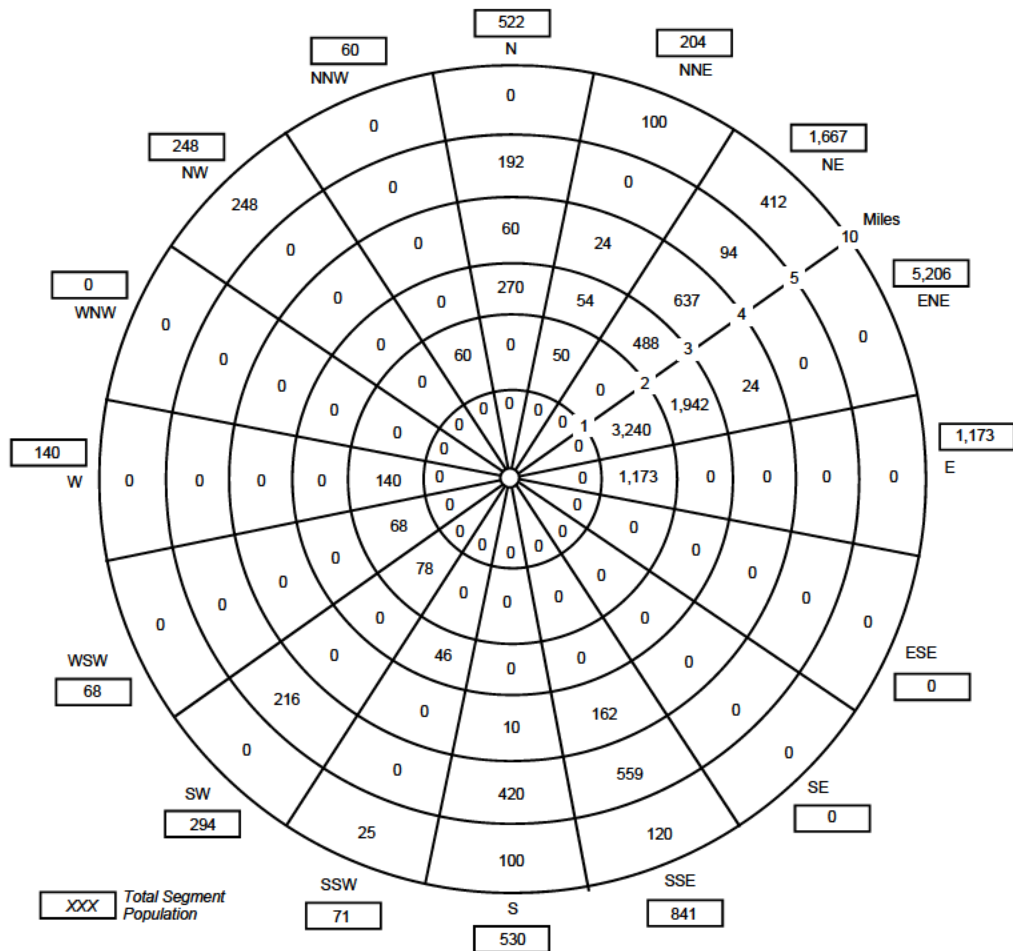


| Population Totals |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| Ring Miles        | Ring Population | Total Miles | Cumulative Population |
| 0 - 1             | 46              | 0 - 1       | 46                    |
| 1 - 2             | 10,138          | 0 - 2       | 10,184                |
| 2 - 3             | 8,012           | 0 - 3       | 18,196                |
| 3 - 4             | 7,158           | 0 - 4       | 25,354                |
| 4 - 5             | 5,146           | 0 - 5       | 30,500                |
| 5 - 10            | 12,512          | 0 - 10      | 43,012                |

\*Population = Number of Dwelling Units x 7.6 Person/Unit

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|   |  |               |
|---|--|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Weekend Seasonal Dwelling Unit Population (0-10 Miles) |               |
|   |  | Figure 2.1-12 |



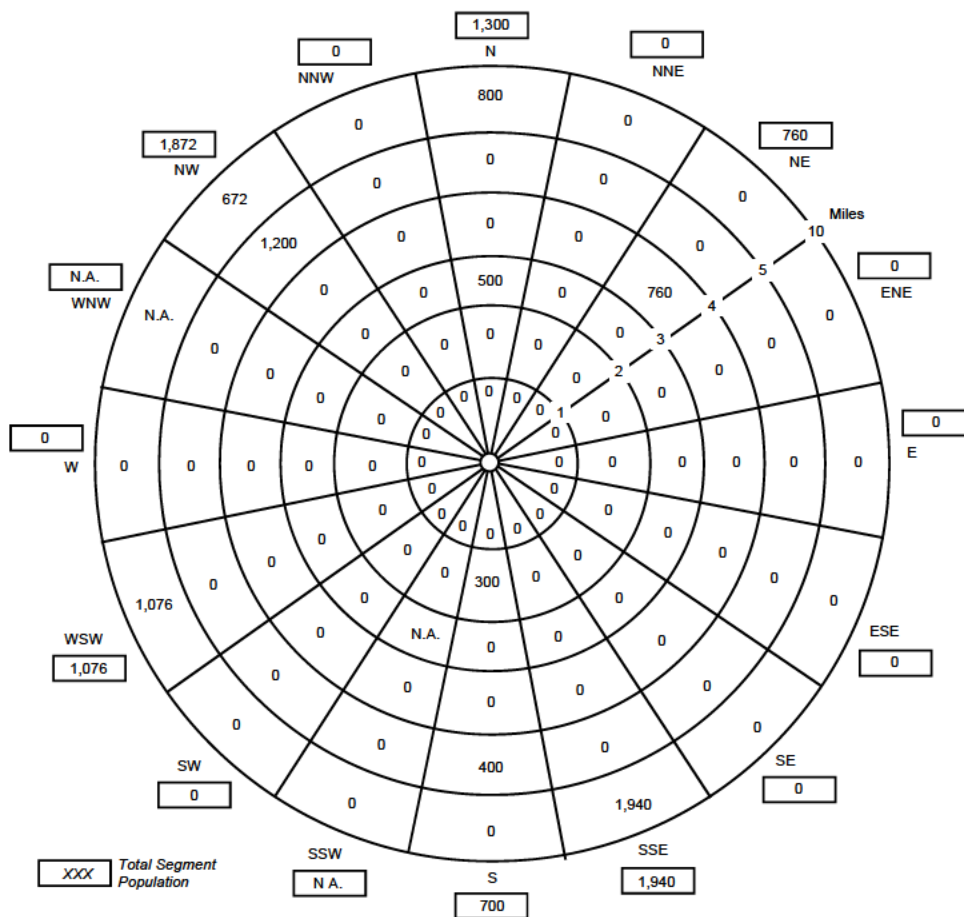
| Population Totals |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| Ring Miles        | Ring Population | Total Miles | Cumulative Population |
| 0 - 1             | 0               | 0 - 1       | 0                     |
| 1 - 2             | 4,809           | 0 - 2       | 4,809                 |
| 2 - 3             | 2,800           | 0 - 3       | 7,609                 |
| 3 - 4             | 929             | 0 - 4       | 8,538                 |
| 4 - 5             | 1,481           | 0 - 5       | 10,019                |
| 5 - 10            | 1,005           | 0 - 10      | 11,024                |

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SEABROOK STATION  
UPDATED FINAL SAFETY  
ANALYSIS REPORT

Seasonal Overnight Peak Population (Hotels, Motels and Guesthouses) (0-10 Miles)

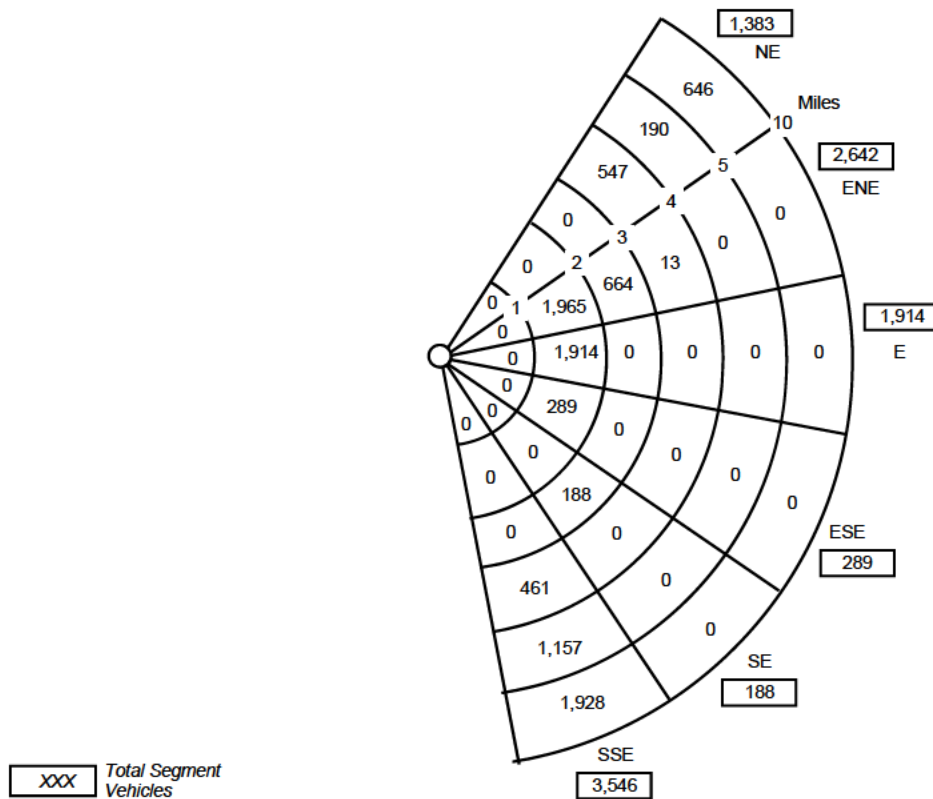
Figure 2.1-13



| Population Totals |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| Ring Miles        | Ring Population | Total Miles | Cumulative Population |
| 0 - 1             | 0               | 0 - 1       | 0                     |
| 1 - 2             | 300             | 0 - 2       | 300                   |
| 2 - 3             | 500             | 0 - 3       | 800                   |
| 3 - 4             | 760             | 0 - 4       | 1,560                 |
| 4 - 5             | 1,600           | 0 - 5       | 3,160                 |
| 5 - 10            | 4,488           | 0 - 10      | 7,648                 |

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|   |   |               |
|---|---|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Peak Campground Population (0-10 Miles) |               |
|   |   | Figure 2.1-14 |



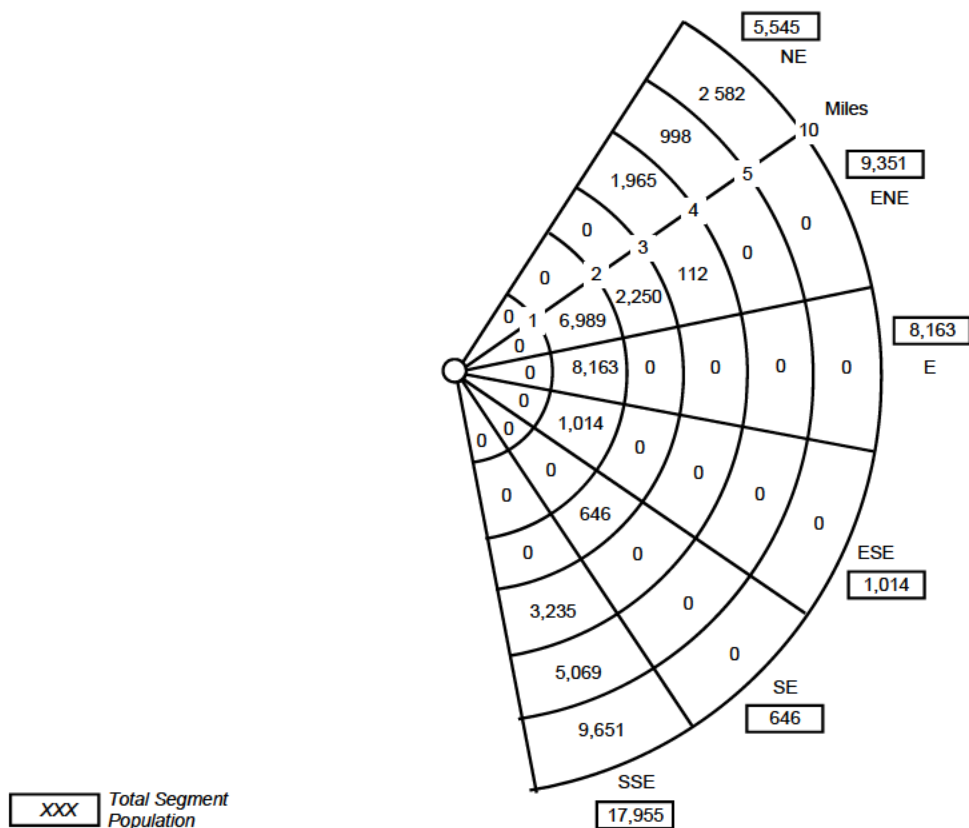
| Vehicle Totals |               |             |                     |
|----------------|---------------|-------------|---------------------|
| Ring Miles     | Ring Vehicles | Total Miles | Cumulative Vehicles |
| 0 - 1          | 0             | 0 - 1       | 0                   |
| 1 - 2          | 4,168         | 0 - 2       | 4,168               |
| 2 - 3          | 852           | 0 - 3       | 5,020               |
| 3 - 4          | 1,021         | 0 - 4       | 6,041               |
| 4 - 5          | 1,347         | 0 - 5       | 7,388               |
| 5 - 10         | 2,574         | 0 - 10      | 9,962               |

\*Data Represents Vehicle Counts for July 22, 1979 (Less Leased Parking Spaces).

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|   |  |               |
|---|--|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Maximum Number of Vehicles Observed in Beach Area<br>Parking Lots (0-10 Miles) |               |
|   |  | Figure 2.1-15 |



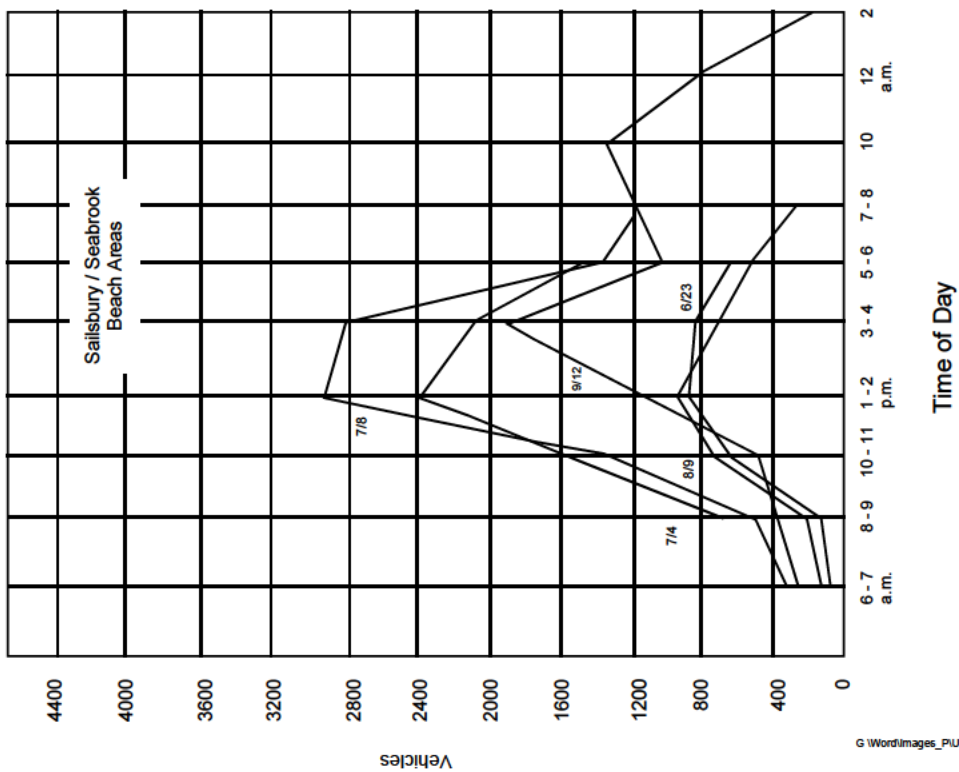
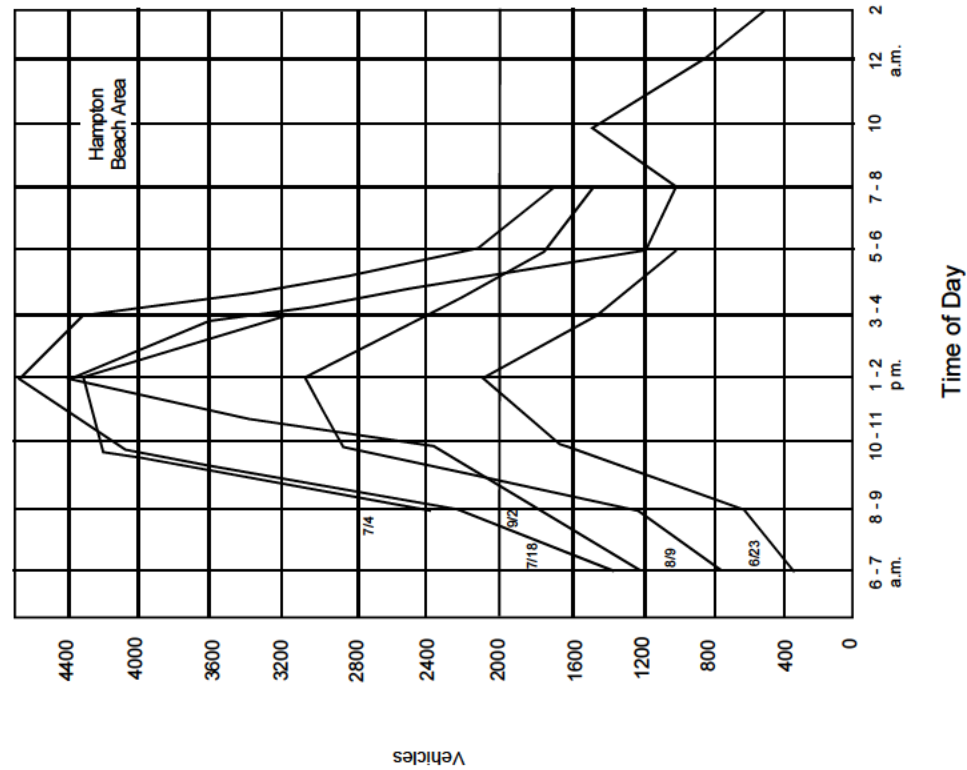


| Population Totals |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| Ring Miles        | Ring Population | Total Miles | Cumulative Population |
| 0 - 1             | 0               | 0 - 1       | 0                     |
| 1 - 2             | 16,166          | 0 - 2       | 16,166                |
| 2 - 3             | 2,896           | 0 - 3       | 19,062                |
| 3 - 4             | 5,312           | 0 - 4       | 24,374                |
| 4 - 5             | 6,067           | 0 - 5       | 30,441                |
| 5 - 10            | 12,233          | 0 - 10      | 42,674                |

\*Population = Capacity of Lots (Less Leased Space) x 3.2 Person/Vehicle

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|   |   |               |
|---|---|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Beach Area Parking Lots – Estimated Peak Transient<br>Population (0-10 Miles) |               |
|   |   | Figure 2.1-16 |

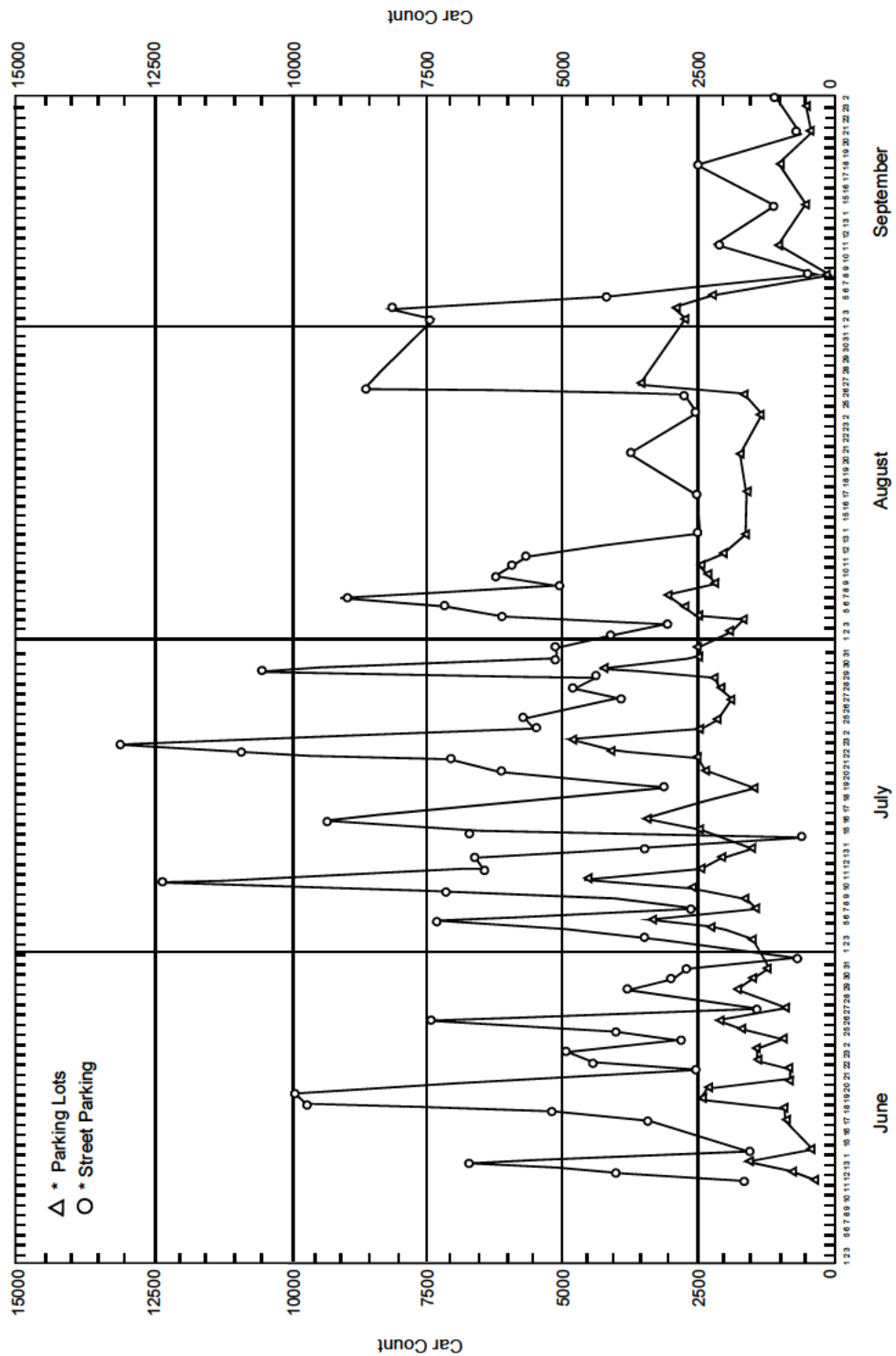


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SEABROOK STATION  
UPDATED FINAL SAFETY  
ANALYSIS REPORT

Time-of-Day Vehicle Distribution in Salisbury, Seabrook,  
and Hampton Beach Area Parking Lots

Figure 2.1-17

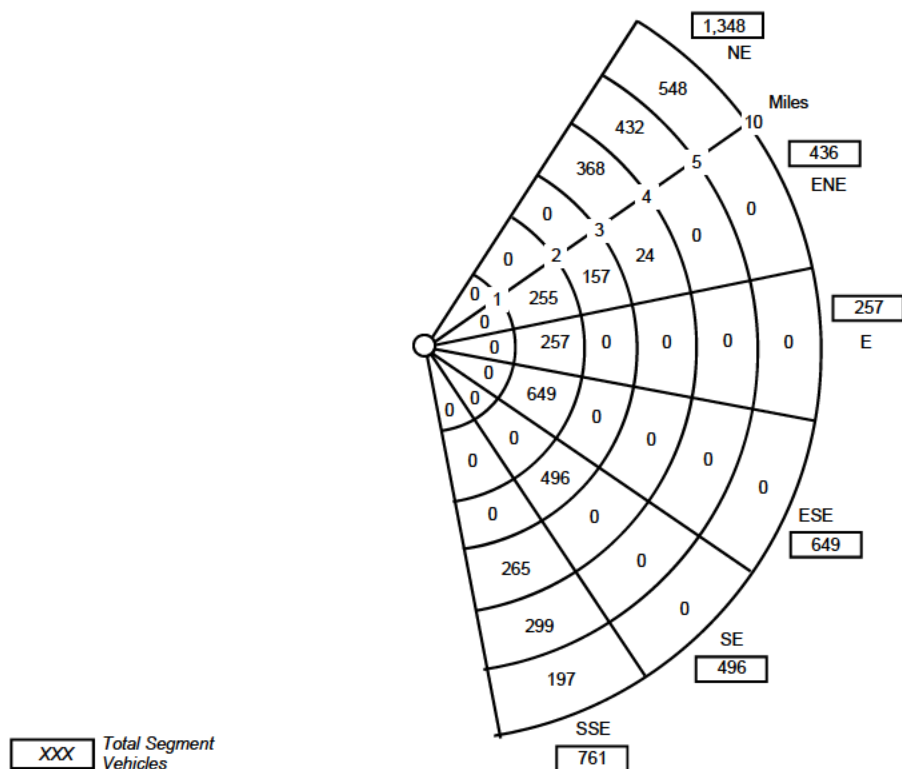


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SEABROOK STATION  
UPDATED FINAL SAFETY  
ANALYSIS REPORT

Total Car Count of Observed Parking Areas – 1979 –  
Seabrook Coastal Areas (28 Miles)

Figure 2.1-18

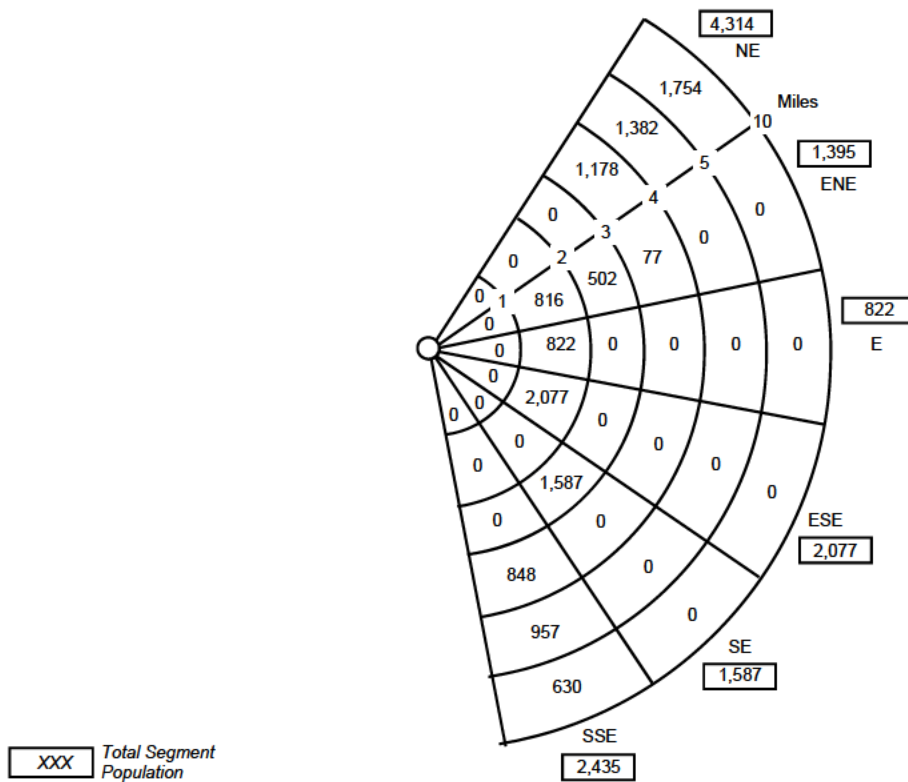


| Vehicle Totals |               |             |                     |
|----------------|---------------|-------------|---------------------|
| Ring Miles     | Ring Vehicles | Total Miles | Cumulative Vehicles |
| 0 - 1          | 0             | 0 - 1       | 0                   |
| 1 - 2          | 1,161         | 0 - 2       | 1,161               |
| 2 - 3          | 653           | 0 - 3       | 1,814               |
| 3 - 4          | 657           | 0 - 4       | 2,471               |
| 4 - 5          | 731           | 0 - 5       | 3,202               |
| 5 - 10         | 745           | 0 - 10      | 3,947               |

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|   |   |               |
|---|---|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Beach Area On-Street Vehicle Parking Capacity – Daily<br>Transients Only (0-10 Miles) |               |
|   |   | Figure 2.1-19 |



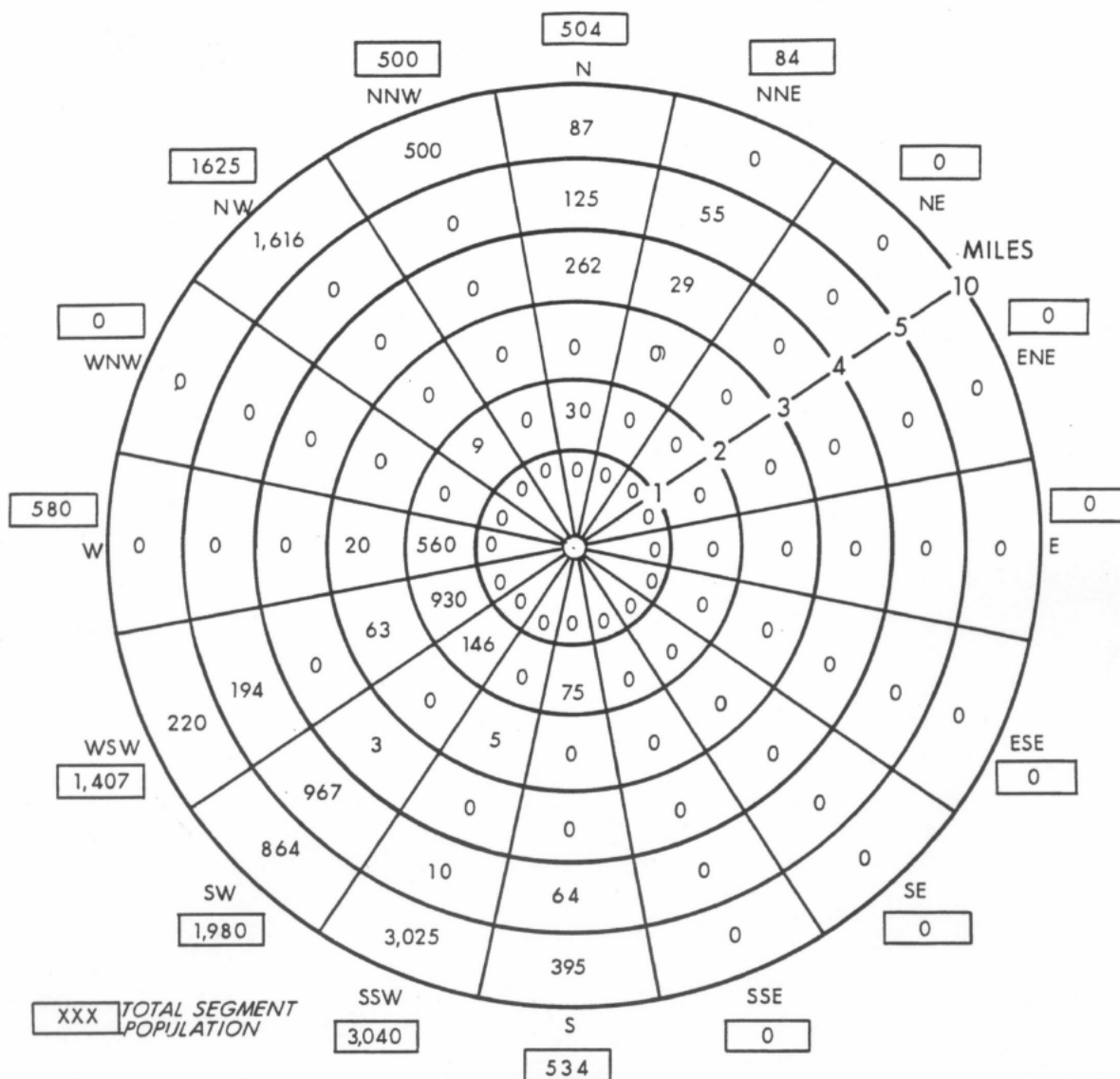


| Population Totals |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| Ring Miles        | Ring Population | Total Miles | Cumulative Population |
| 0 - 1             | 0               | 0 - 1       | 0                     |
| 1 - 2             | 3,715           | 0 - 2       | 3,715                 |
| 2 - 3             | 2,089           | 0 - 3       | 5,804                 |
| 3 - 4             | 2,103           | 0 - 4       | 7,907                 |
| 4 - 5             | 2,339           | 0 - 5       | 10,246                |
| 5 - 10            | 2,384           | 0 - 10      | 12,630                |

\*Population = On-Street Vehicle Parking Capacity x 3.2 Persons/Vehicle

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|   |  |               |
|---|--|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Beach Area On-Street Parking Population Estimate – Daily<br>Transients Only (0-10 Miles) |               |
|   |  | Figure 2.1-20 |

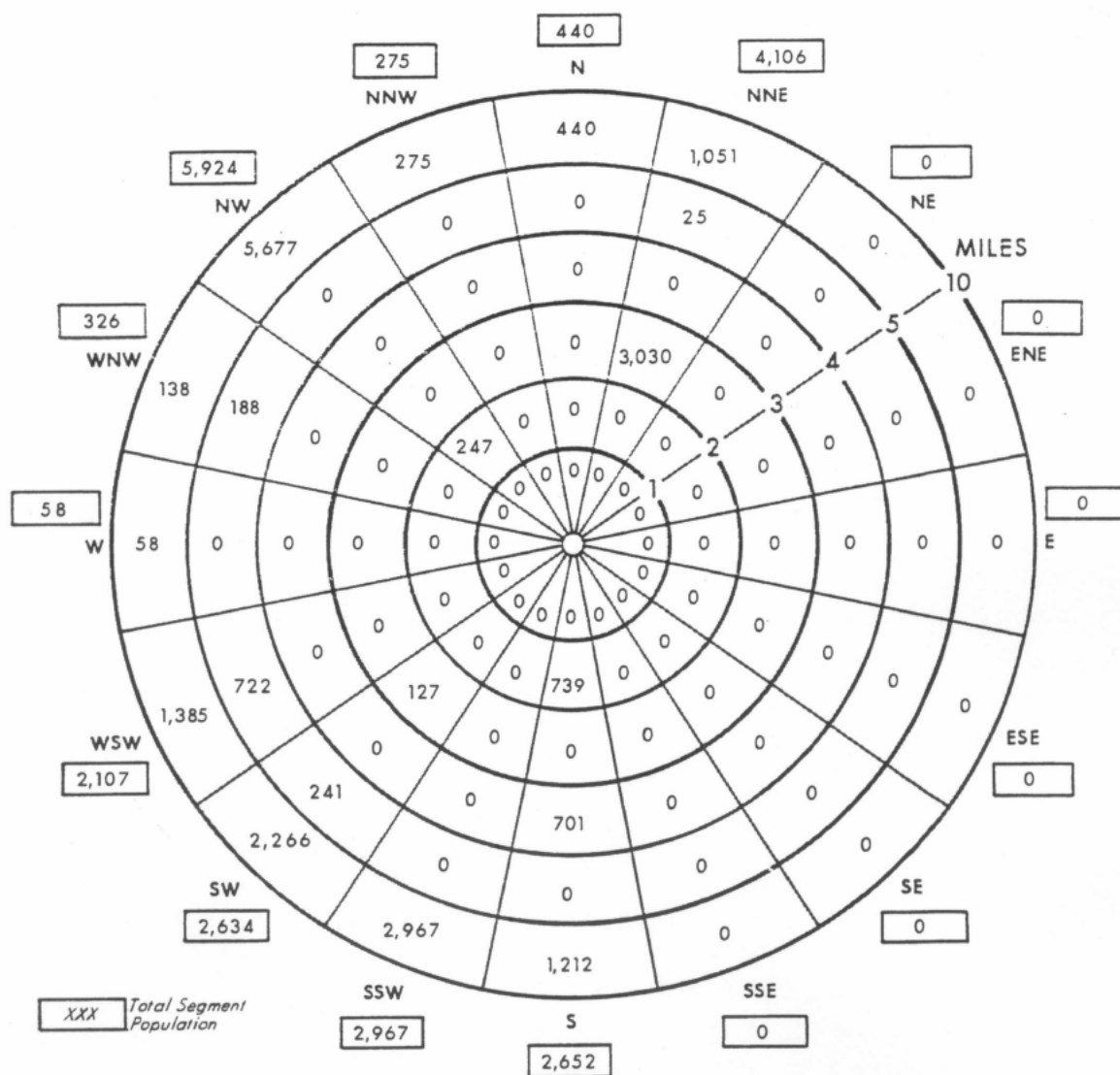


| POPULATION TOTALS |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| RING MILES        | RING POPULATION | TOTAL MILES | CUMULATIVE POPULATION |
| 0-1               | 0               | 0-1         | 0                     |
| 1-2               | 1,750           | 0-2         | 1,750                 |
| 2-3               | 88              | 0-3         | 1,838                 |
| 3-4               | 294             | 0-4         | 2,132                 |
| 4-5               | 1,415           | 0-5         | 3,547                 |
| 5-10              | 6,707           | 0-10        | 10,254                |

SEABROOK STATION  
UPDATED FINAL SAFETY  
ANALYSIS REPORT

Population of Major Employers (0-10)

Figure 2.1-21

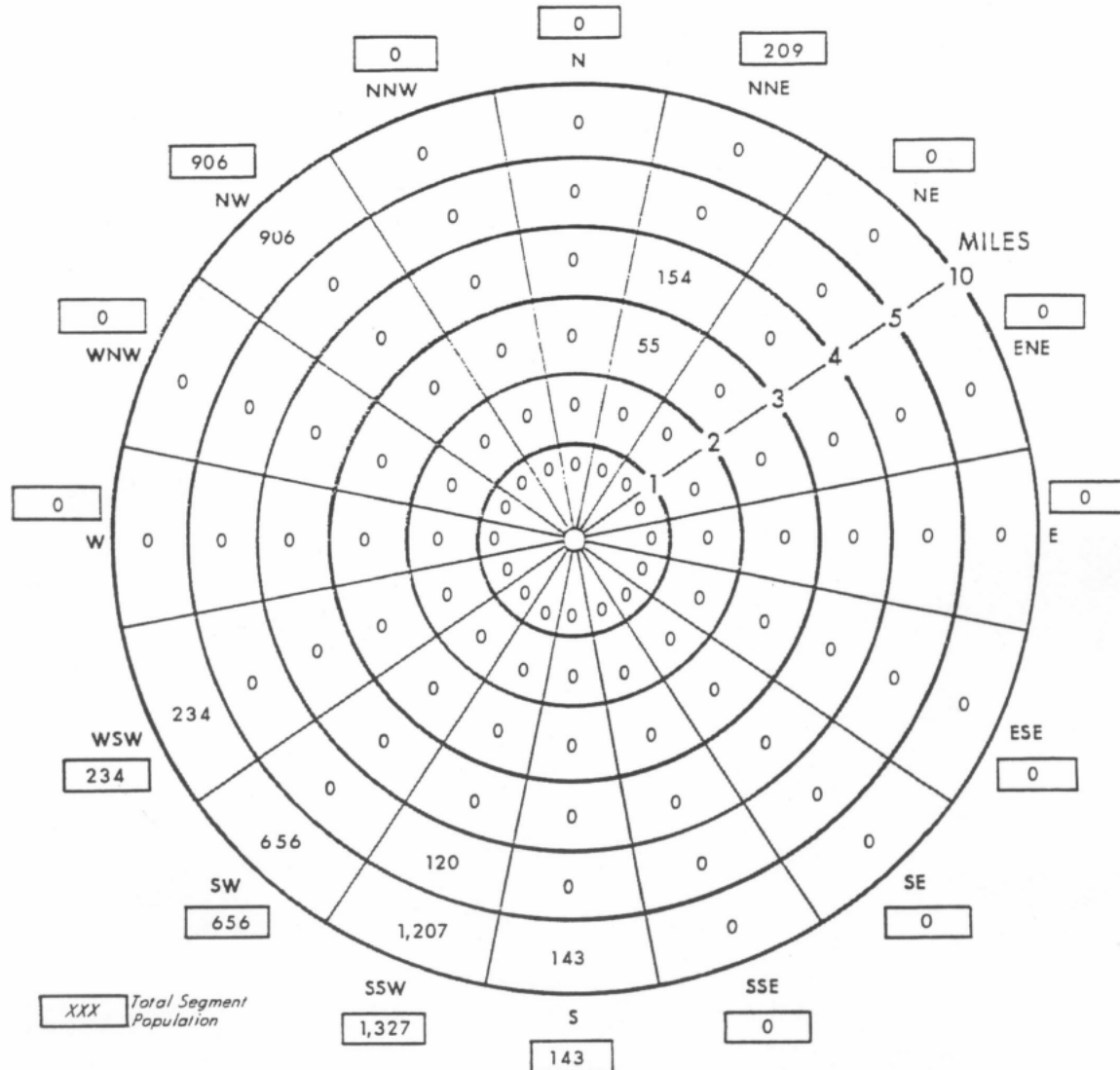


| POPULATION TOTALS |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| RING MILES        | RING POPULATION | TOTAL MILES | CUMULATIVE POPULATION |
| 0-1               | 0               | 0-1         | 0                     |
| 1-2               | 986             | 0-2         | 986                   |
| 2-3               | 3,157           | 0-3         | 4,143                 |
| 3-4               | 701             | 0-4         | 4,844                 |
| 4-5               | 1,176           | 0-5         | 6,020                 |
| 5-10              | 15,469          | 0-10        | 21,489                |

SEABROOK STATION  
UPDATED FINAL SAFETY  
ANALYSIS REPORT

Estimated School Population (0-10 Miles)

Figure 2.1-22



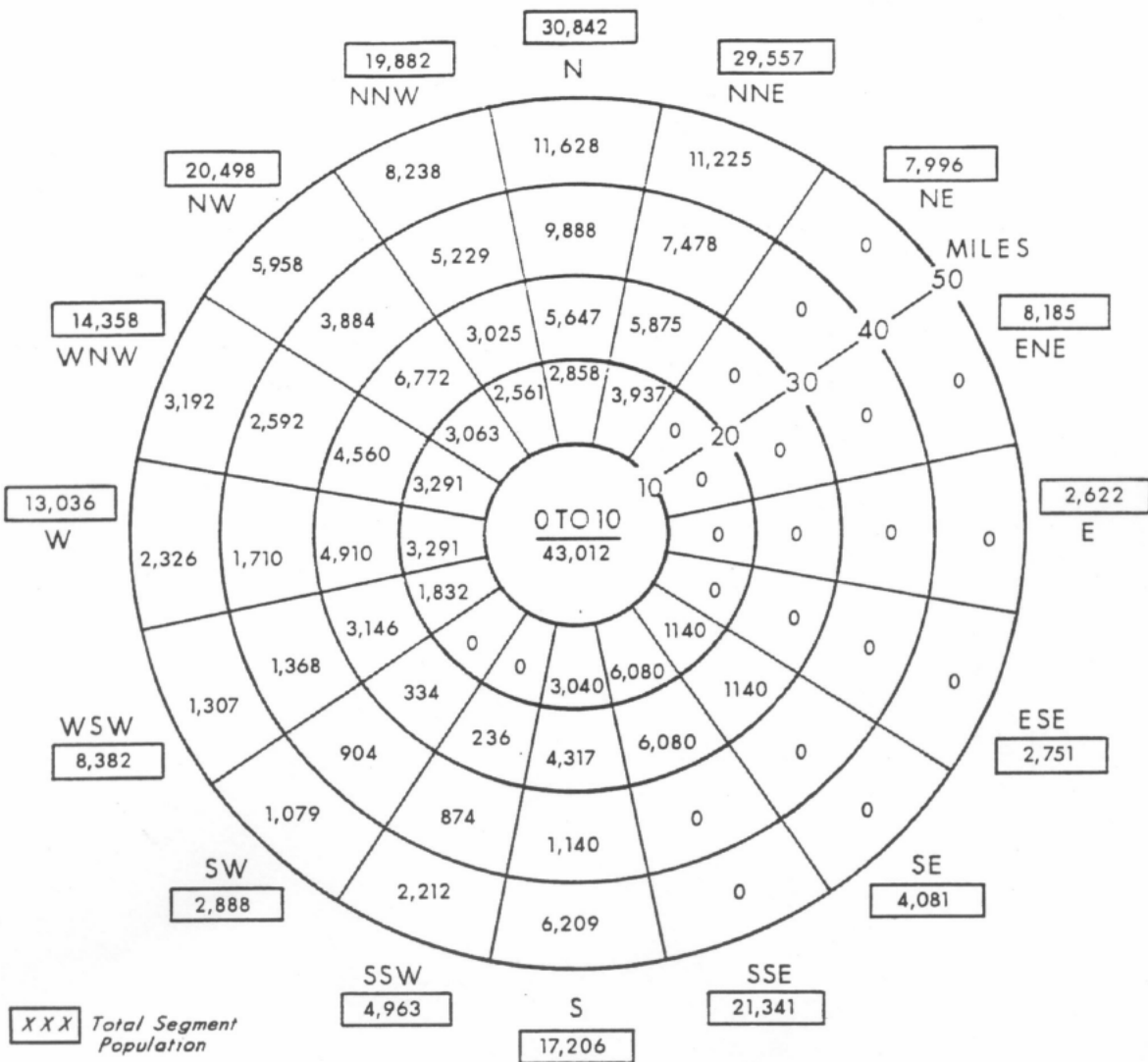
| POPULATION TOTALS |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| RING MILES        | RING POPULATION | TOTAL MILES | CUMULATIVE POPULATION |
| 0-1               | 0               | 0-1         | 0                     |
| 1-2               | 0               | 0-2         | 0                     |
| 2-3               | 55              | 0-3         | 55                    |
| 3-4               | 154             | 0-4         | 209                   |
| 4-5               | 120             | 0-5         | 329                   |
| 5-10              | 3,146           | 0-10        | 3,475                 |

SEABROOK STATION  
UPDATED FINAL SAFETY  
ANALYSIS REPORT

Population Associated with Medical-Related Facilities  
(0-10 Miles)

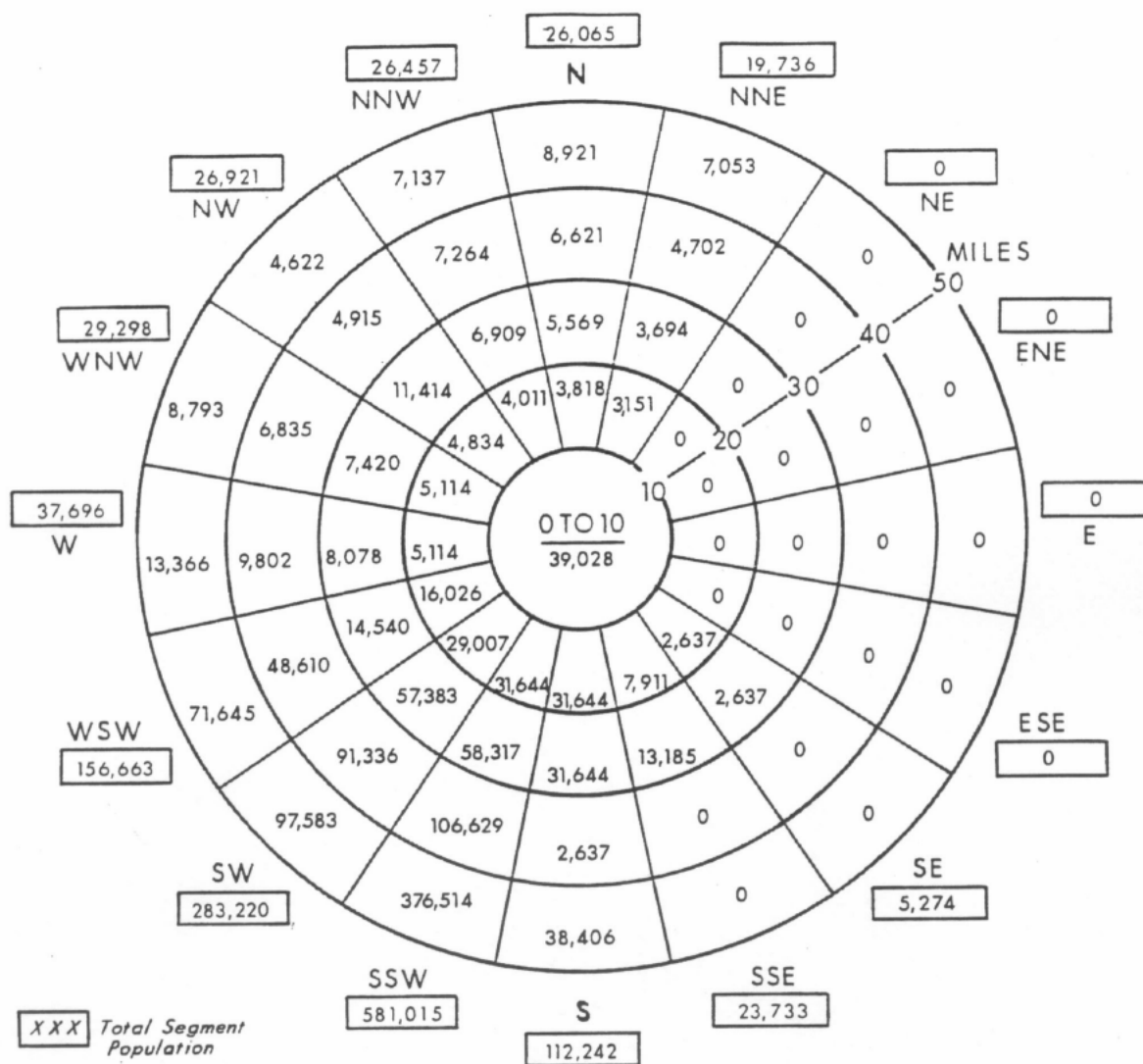
Figure 2.1-23





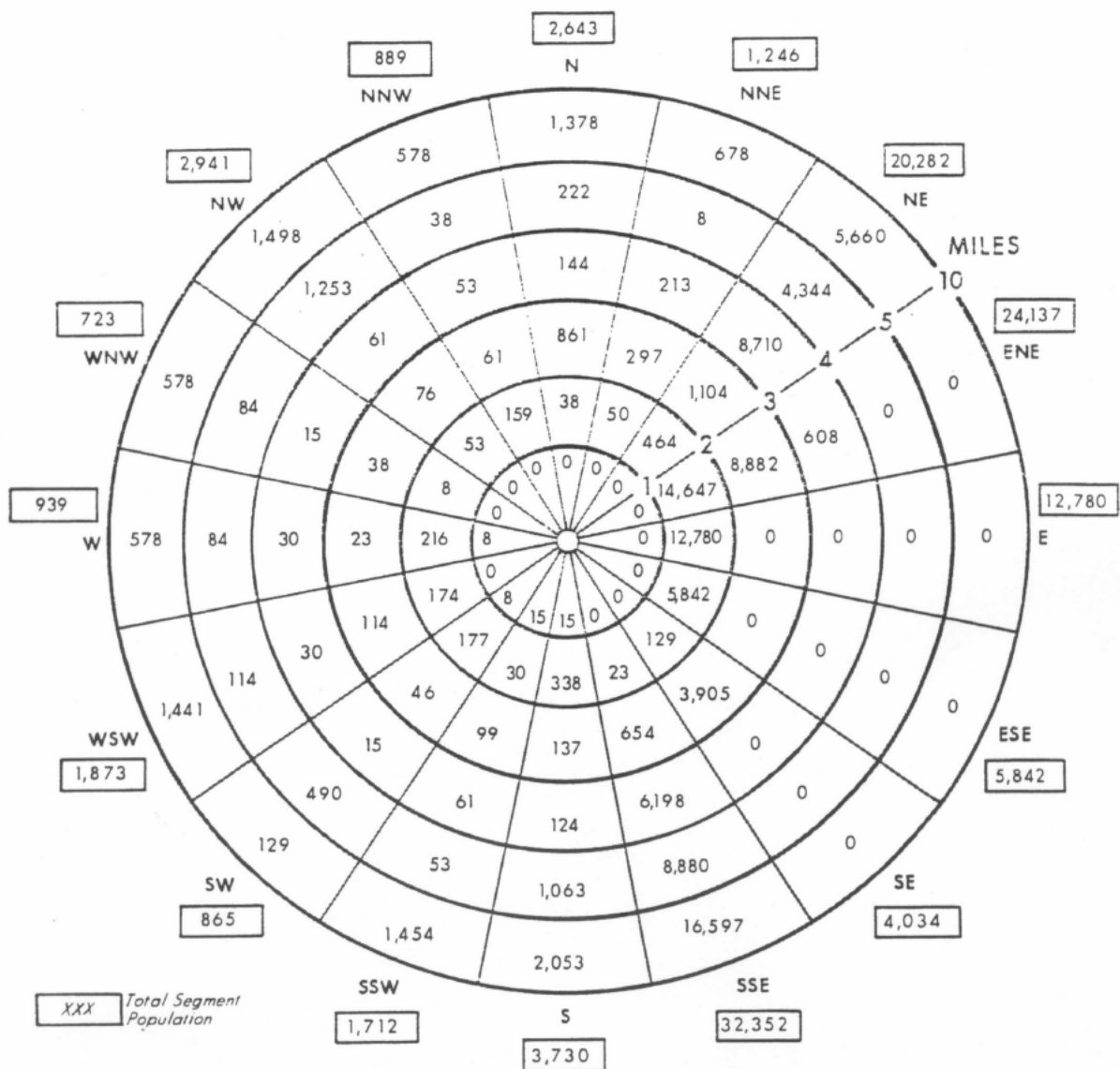
| POPULATION TOTALS |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| RING, MILES       | RING POPULATION | TOTAL MILES | CUMULATIVE POPULATION |
| 0-10              | 43,012          | 0-10        | 43,012                |
| 10-20             | 31,093          | 0-20        | 74,105                |
| 20-30             | 46,042          | 0-30        | 120,147               |
| 30-40             | 35,067          | 0-40        | 155,214               |
| 40-50             | 53,374          | 0-50        | 208,588               |

|   |   |               |
|---|---|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Seasonal Resident Population (0-50 Miles) |               |
|   |   | Figure 2.1-24 |



| POPULATION TOTALS |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| RING, MILES       | RING POPULATION | TOTAL MILES | CUMULATIVE POPULATION |
| 0-10              | 39,028          | 0-10        | 39,028                |
| 10-20             | 144,911         | 0-20        | 183,939               |
| 20-30             | 220,790         | 0-30        | 404,929               |
| 30-40             | 289,351         | 0-40        | 694,280               |
| 40-50             | 634,040         | 0-50        | 1,328,320             |

|   |  |               |
|---|--|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Estimated 1970 Total Employment (0-50 Miles) |               |
|   |  | Figure 2.1-25 |

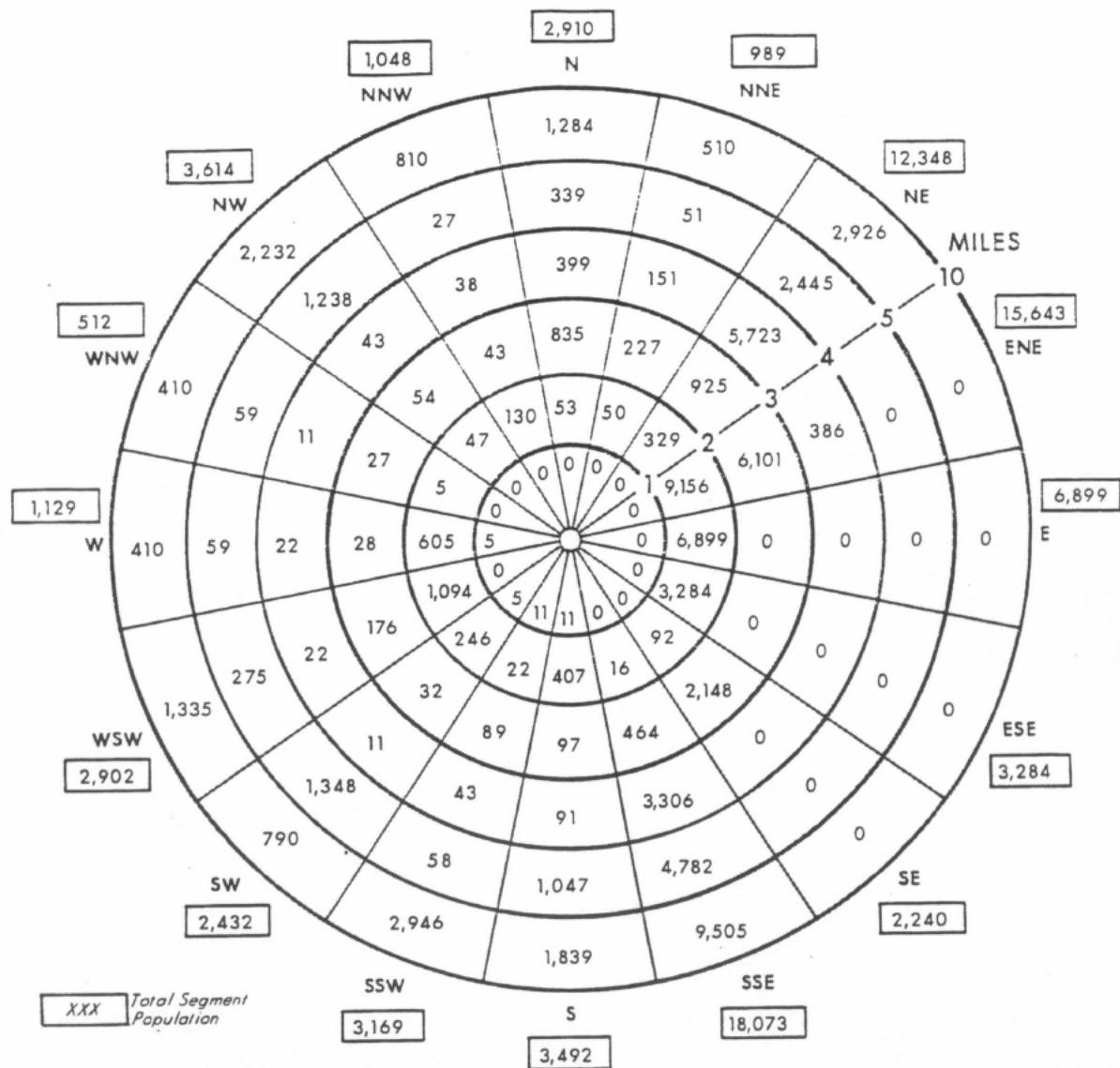


| POPULATION TOTALS |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| RING MILES        | RING POPULATION | TOTAL MILES | CUMULATIVE POPULATION |
| 0-1               | 46              | 0-1         | 46                    |
| 1-2               | 35,128          | 0-2         | 35,174                |
| 2-3               | 16,297          | 0-3         | 51,471                |
| 3-4               | 16,262          | 0-4         | 67,733                |
| 4-5               | 16,633          | 0-5         | 84,366                |
| 5-10              | 32,622          | 0-10        | 116,988               |

SEABROOK STATION  
UPDATED FINAL SAFETY  
ANALYSIS REPORT

1980 Peak Summer Weekend Transient Population  
(0-10 Miles)

Figure 2.1-26

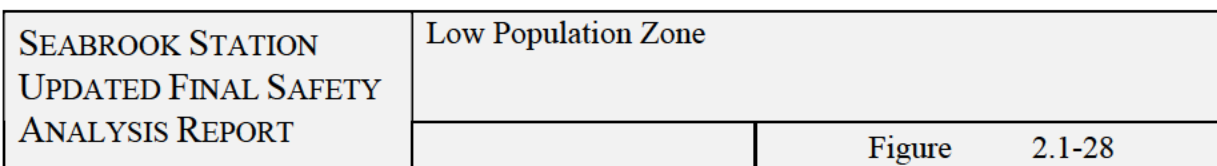


| POPULATION TOTALS |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| RING MILES        | RING POPULATION | TOTAL MILES | CUMULATIVE POPULATION |
| 0-1               | 32              | 0-1         | 32                    |
| 1-2               | 22,435          | 0-2         | 22,467                |
| 2-3               | 11,246          | 0-3         | 33,713                |
| 3-4               | 10,246          | 0-4         | 43,959                |
| 4-5               | 11,728          | 0-5         | 55,687                |
| 5-10              | 24,997          | 0-10        | 80,684                |

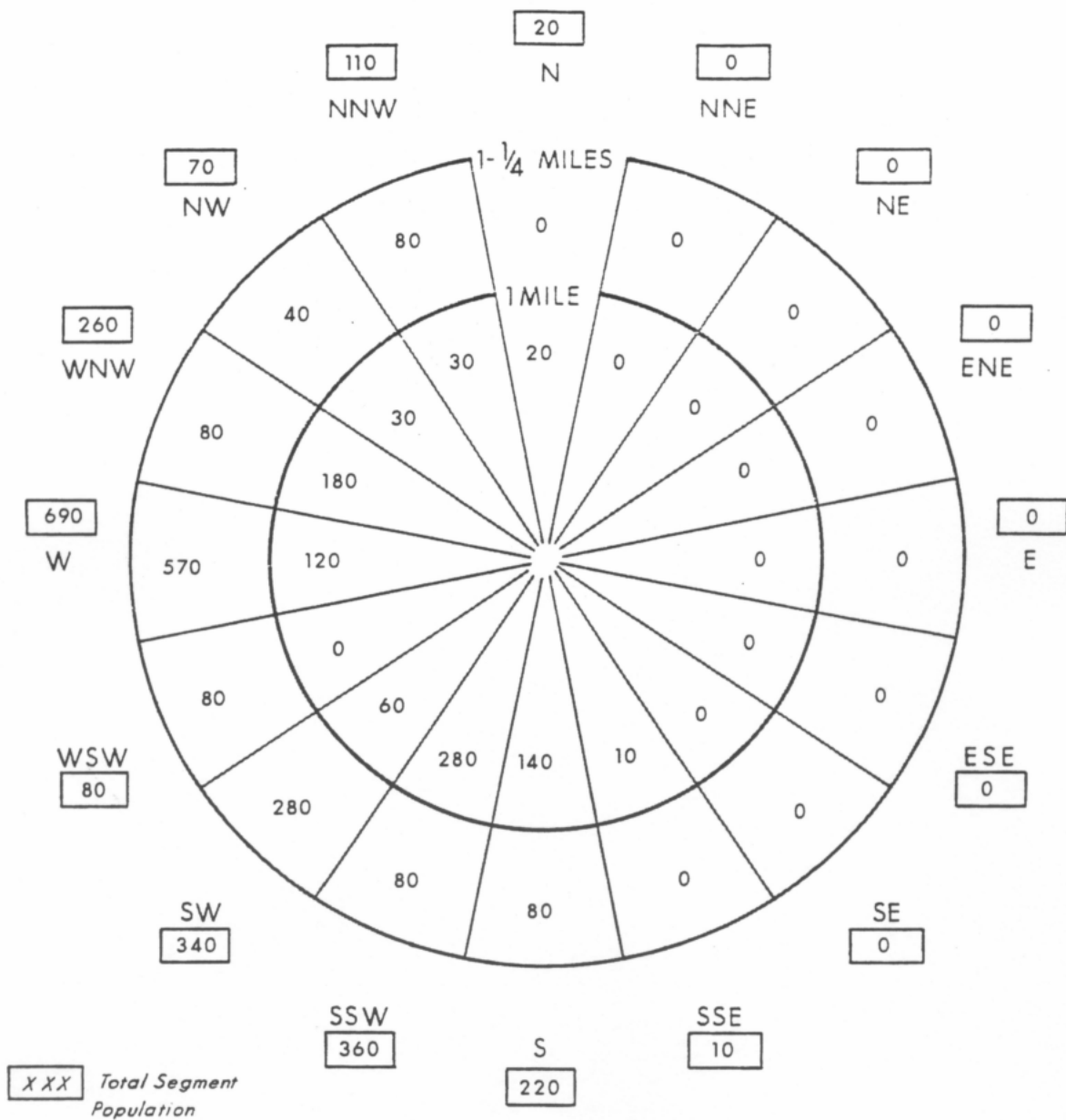
SEABROOK STATION  
UPDATED FINAL SAFETY  
ANALYSIS REPORT

1980 Peak Summer Weekday Transient Population  
(0-10 Miles)

Figure 2.1-27



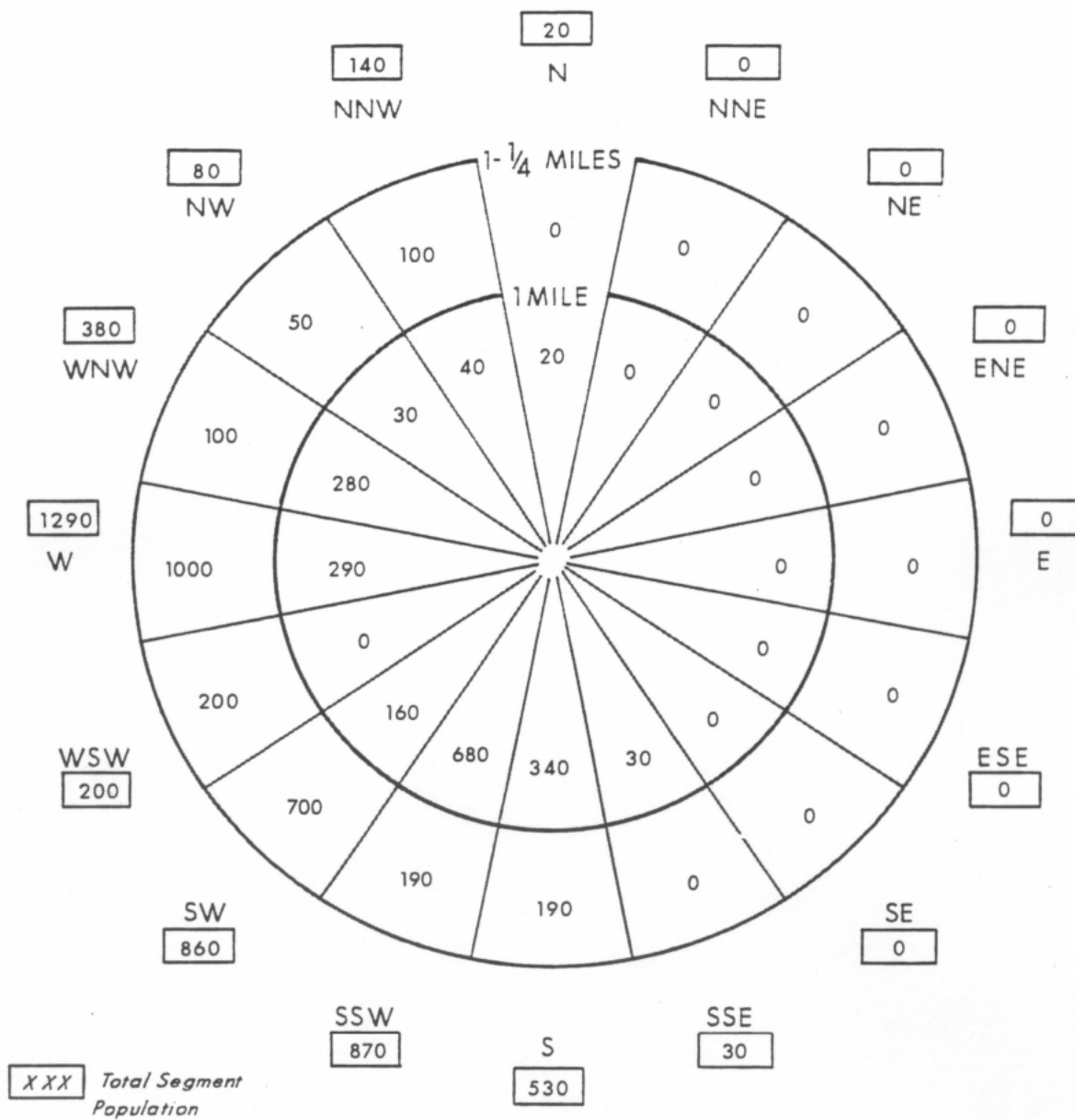




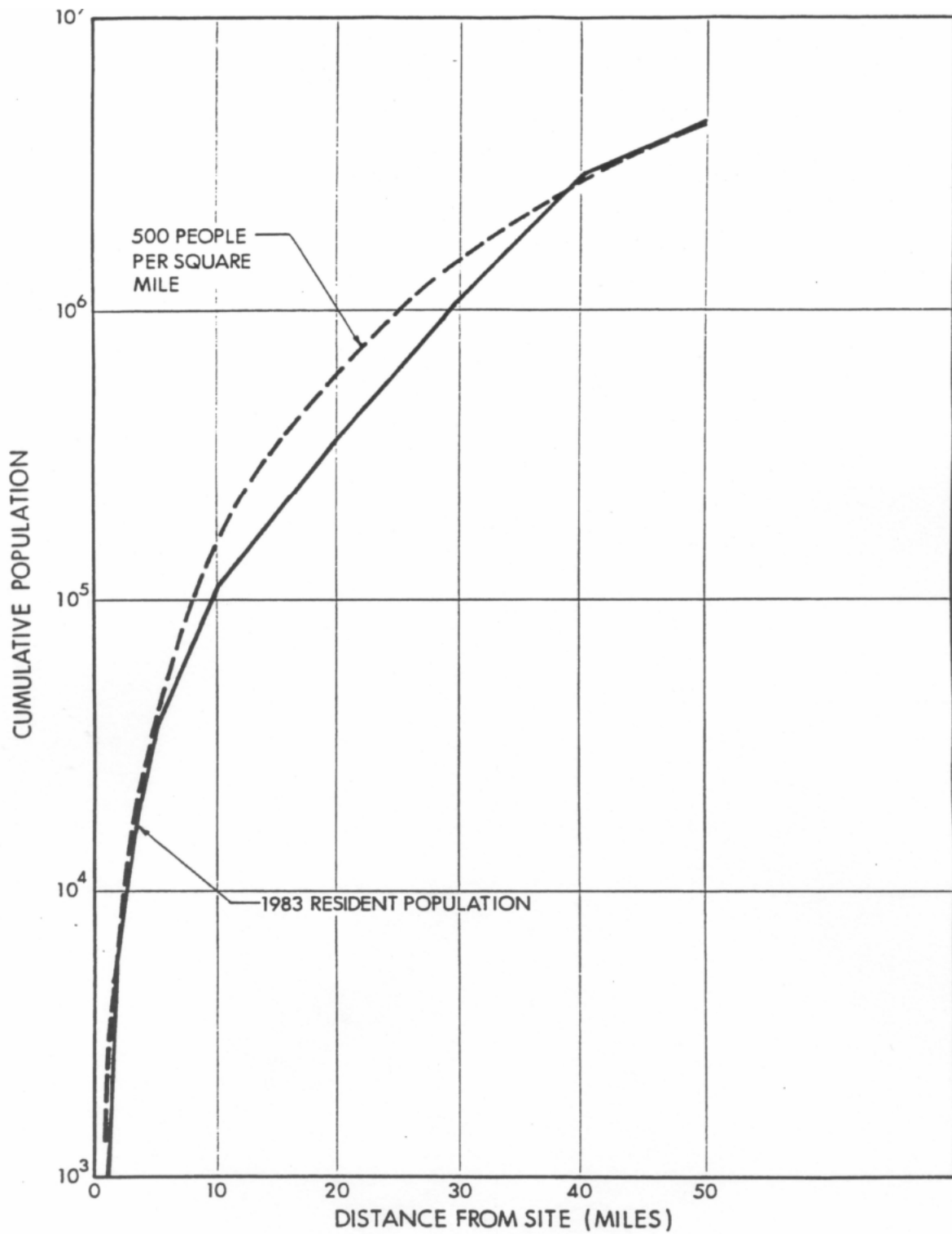
| POPULATION TOTALS |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| RING, MILES       | RING POPULATION | TOTAL MILES | CUMULATIVE POPULATION |
| 0-1               | 870             | 0-1         | 870                   |
| 1-1.25            | 1,290           | 0-1.25      | 2,160                 |

|   |  |               |
|---|--|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | Projected 1983 Resident Population – Low Population Zone |               |
|   |  | Figure 2.1-29 |





| POPULATION TOTALS |                 |             |                       |
|-------------------|-----------------|-------------|-----------------------|
| RING, MILES       | RING POPULATION | TOTAL MILES | CUMULATIVE POPULATION |
| 0-1               | 1,870           | 0-1         | 1,870                 |
| 1-1.25            | 2,530           | 0-1.25      | 4,400                 |



|   |                                     |               |
|---|-------------------------------------|---------------|
| SEABROOK STATION<br>UPDATED FINAL SAFETY<br>ANALYSIS REPORT | 1983 Cumulative Resident Population |               |
|   |                                     | Figure 2.1-31 |

