

## HANFORD SITE EVACUATION TIME ASSESSMENT STUDY

Prepared by Robert D. Mogle

September 1982

**Revision 1** 



Washington Public Power Supply System

Richland, Washington 99352

8108076

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Attachment 1 CLEAR Computer Code

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A. Site Location & Emergency Planning Zone (EPZ)

Washington Public Power Supply System leases 1089 acres of land north of Richland, Washington, on the Hanford Reservation. This land is under the control of the Department of Energy (DOE). The Supply System's portion is approximately 3 miles west of the Columbia River and 12 miles north of the populated area of Richland. Figure 1 shows the Ten-Mile Plume Exposure Emergency Planning Zone Map. This Ten-Mile Emergency Planning Zone (EPZ) is the study area for which evacuation time estimates have been made.

The DOE is recognized as being responsible for the coordination of a site-wide evacuation. The Supply System, as company landlord for its specific area, is responsible for internal evacuation needs. This evacuation study readily interfaces and is compatible with the DOE <u>Site-Wide Evacuation</u> <u>Plan Study</u>. Repetitive review and comparison, along with incorporation of recommended changes due to current or future differences, should ensure and enhance the compatibility of the two studies. Changes in this study that could impact the DOE study will be brought to that agency's attention.

B. General Assumptions and Methodology.

This assessment was made using  $CLEAR^1$  (<u>Calculate Logical Evacuation</u> <u>And R</u>esponse), a computer program developed by Battelle Pacific Northwest



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Laboratories under a contract sponsored by the U.S. Nuclear Regulatory Commission under a related services agreement with the U.S. Department of Energy, Contract DE-ACO6-76RLO 1830 (See Attachment 1 for a copy of the code as modified to meet Supply System needs.)

This model required dividing the Ten-Mile EPZ road network into segments connecting at intersections (See Figure 2 and Table 6). These segments were grouped as zones into mathematical evacuation trees for data handling. The zones used were the sixteen 22-1/2° sectors around the center point located midway between Washington Nuclear Projects #1, #2, and #4 (WNP-1, -2, and -4). This center point is 2800 feet east of WNP-2 and has coordinates of longitude 119° 19'18" west, latitude 46° 28'19" north. The south-southeast sector, which falls on both sides of the Columbia River, was divided into two zones for this analysis. The assessment considered four quadrants around the site; the Columbia River, forming a natural boundary between Benton and Franklin Counties, was used for one division and the other division is almost perpendicular to the river.

Figure 3 illustrates the evacuation routes, traffic control points, and assistance centers for the Hanford Site (See Section III, Traffic Capacity, for discussion). These routes were used to develop eight evacuation trees. The evacuation tree is a system for connecting road segments with at least one exit from the EPZ. Each road segment in the evacuation tree interacts only with other road segments in that tree, i.e., the model assumes that once a vehicle enters a road segment, it evacuates on that road segment's tree. It is assumed that secondary evacuation routes from the Hanford area are not

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utilized. The evacuation time estimate calculated for a single tree may or may not determine the evacuation time estimate for an entire quadrant. The evacuation time estimate for a particular quadrant is determined by analyzing all the trees within the quadrant and selecting the limiting factor or tree which took the longest to clear as the evacuation time for the entire quadrant. In Franklin County, it is assumed that those personnel north of the plant would evacuate north toward Mesa/Connell and those in the opposite direction south towards Kennewick/Pasco. It is also assumed that the inner adjacent sectors would evacuate simultaneously with the outer sectors.

In the computer model the initial road vehicle population is assumed to be free of traffic and normally set at zero (see Section IV C for a discussion of starting with loaded roads). The population in a zone divided by the number of occupants per vehicle (1.5 persons per vehicle is assumed for industrial workers and 3 persons per vehicle for all other categories; migrant and industrial workers carpool) determines the number of vehicles that will be evacuated from that zone. It is assumed that households will evacuate as a unit, using only one vehicle per family. These vehicles are then assigned to road segments in numbers proportional to the road segment length divided by the total road length for that zone. Edwin Markham Elementary School is assumed to be part of the permanent and general population evacuation time estimates. It is assumed that the buses to be used for evacuation could be dispatched within the one-hour MAXDEP. An assumed vehicle population of 35 persons per bus was utilized for this school. Following this, vehicles from factories and schools are handled in a similar

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fashion, using the data from the Independent Special Traffic Generators (ISTG) (For a description of these and other computer variables, see Table 1). Each vehicle is then assigned a loading position by using a random number generator. The vehicles are evenly spaced along the roadway but assigned random order in which to enter the traffic flow.

There are two algorithms that control the loading of the roads: MAXDEP and FRACT.

MAXDEP--The maximum time of departure, controls when the last person begins to leave the area. In areas where the population is high, such as with the transient population at the Hanford site, MAXDEP can be large and have no effect because it does not matter if the person waits to be notified to evacuate or waits in his car to evacuate. Either way, he cannot depart if the road is full. In areas of low population such as Franklin County, where the roads never become full, MAXDEP becomes the controlling factor.

The purpose of MAXDEP is to model the efficiency of the early warning system. Some people receive a delayed notification, others might have a delayed response due to preparation time such as a farmer readying his farm for an extended absence. In these low population areas the evacuation time is generally MAXDEP (one hour) plus time for this last individual to drive less than ten miles to the Ten-Mile EPZ boundary at NOMVEL, nominal velocity.

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FRACT--The loading function generates the loading scheme in four time segments as follows:

( FRACT) loaded in first 25 percent of MAXDEP.

(1-FRACT) loaded in second 25 percent of MAXDEP.

 $(\frac{1-FRACT}{2})$  loaded in third 25 percent of MAXDEP.

 $(\frac{1-FRACT}{4})$  loaded in final 25 percent of MAXDEP.

At a FRACT of 0.10 and a MAXDEP of one hour, the following loading of vehicle population onto roadways will take place:

| % Population Loaded | <u>Time from Notification</u> |
|---------------------|-------------------------------|
| 10%                 | 1st 15 minutes                |
| 22.5%               | 2nd 15 minutes                |
| 45%                 | 3rd 15 minutes                |
| 22.5%               | <u>Final 15 minutes</u>       |
| 100%                | 1 hour                        |





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In areas of high population, FRACT will have little effect for the same reason as MAXDEP, people can wait in their cars or wait in their buildings; either way, if the road is saturated they cannot begin their evacuation. In areas of low population, FRACT will affect the loading which in turn will determine the evacuation "S-curve" as vehicles will be able to leave the zone very shortly after being loaded (See Figure 8 for example and Section IV A for discussion).

FRACT's purpose is the same as that of MAXDEP--to model the efficiency of the early warning system and to model preparation time. At the Hanford site, for example, where everyone would be told to evacuate at approximately the same time, a high FRACT provides a realistic model. In Franklin County, where longer notification and preparation times are needed, a low FRACT (.10) provides a more realistic model. Since FRACT is a function of MAXDEP, these synergistic effects have to be kept in mind.

Once the vehicles have been loaded on the road segments, the algorithms that control movement are FLORAT, NOMVEL, V, and EVL. FLORAT, the input of vehicles per hour per traffic lane, only affects high-population density areas; in low density areas, all the vehicles can fit onto the road simultaneously.

Initially, the velocity of travel on the road segment is equal to the NOMVEL, nominal velocity. As loading increases to 80 percent of capacity, each vehicle must slow down to maintain a safe EVL (effective vehicle length). One vehicle length for every 10 mph of velocity was used as a safe

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distance between vehicles for calculating EVL in normal weather. This distance was increased for modeling evacuations during adverse weather conditions. The base vehicle was considered to be 5.68 meters in length.

When the velocity decreases due to an increasing EVL, and becomes V, minimal velocity, stop and go traffic is simulated as this velocity is maintained. Actual traffic coming from the Hanford area was observed to maintain higher-than-normal minimal velocities (30 mph) with decreased effective vehicle lengths (EVL), so a higher V value was used for that tree. A lower value was used in Franklin County (15 mph) but, due to the low population density, this had little effect on final time estimates.

The model has four queues that a vehicle may reside within. All vehicles are initially assigned to NRAN, the random queue. The loading queue, NLOD contains vehicles scheduled to leave during the DELT of time. NBAC, the back up queue, contains vehicles that cannot move because of a traffic slow down. The VMOTO queue contains vehicles that are actually moving on the road segment. When the NBAC, backup queue, is full for a specific DELT of time for the computer run, a message appears on the computer CRT screen stating that the road segment is full. This allows planners to follow the evacuation in a simulated real time mode and determine where problem intersections are located.

Intersections where the individual road segment (ZNRD) flows onto the next road segment (LINK) and picks up another road segment (NRSEC) are handled by a computer subroutine. To allocate space for the advancement of

vehicles from the ZNRD onto the LINK, relative vehicle densities of the two segments are compared. This difference will be proportional to the priority for advancement given one road segment over another.

At intersections a green light-red light is simulated by the computer model allowing traffic to merge; as backups occur, stop and go traffic is simulated. The NBAC or stacking queue is used to keep track of the amount of vehicles involved in this simulated traffic jam.

After the model has performed the initial road segment loading, vehicle population as a function or radial distance is printed out in one-mile increments showing remaining and initial percentages of vehicles in that radii (see Attachment 2 for typical computer printouts). This is updated and reprinted each iteration (usually 10 minutes).

With every iteration the road segment vehicle population is also reprinted by zone showing queue loading. This queue loading, specifically the NBAC queue, is used to evaluate traffic flow upon which recommendations are made for evacuation mechanism improvements.

Other items, such as vehicle populations in the Two-, Five-, and Ten-Mile Zones, the percent of the initial population that has been evacuated, and the total numbers of vehicles within and outside the Ten-Mile EPZ are also updated and reprinted each iteration.

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It is assumed that evacuation is complete when the model has concluded that no vehicles are left within the zone. The time the last vehicle left the zone is printed and the modeling is complete. This time includes two basic sub-times: preparation time and response time. Initial notification times, both Supply System-to-county and county-to-populace, through the early warning system (an assumed maximum of 30 minutes total, see IV A for discussion), were not included, but delayed notification and therefore delayed response times were included. Confirmation time estimates also were not calculated in the model but are estimated as a maximum of one hour (see V A for discussion). Therefore, the calculated time estimate starts at the time of the announcement over the EBS (Emergency Broadcast System) to begin evacuation until that evacuation is complete.

The evacuation analysis is based on the following additional assumptions:

- No significant changes in land use are expected in Franklin County over the next several years.
- o Little population increase is foreseen in Franklin County.
- No significant change in land use is expected on the Hanford
   Reservation. No foreseeable population will reside there.
- o The unincorporated area near Horn Rapids Dam in the SSW sector is expected to be the primary growth area.

- Evacuation is occurring during the workday for areas with high transient worker populations.
- o Evacuation is occurring during the day on a weekend for areas with high numbers of transient recreationists.
- Evacuation is occuring when WNP-2 is staffed at fully operational levels
   and the Plant Support Facility is manned ( 3/84 values).
- Evacuation is occurring when WNP-1 is in a ramped-up construction phase
   ( 3/84 values).
- o All persons have transportation available to them.

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### SECTION II - DEMAND ESTIMATION

Figure 4 presents the compass sector population estimates for 1980; this same information is also presented in Tables 2 through 5. Estimates were made relative to the center of the triangle formed by the three reactors. These figures were taken from the WNP-2 Environmental Report<sup>5</sup> where references and basis are given. Contacts with the County Auditor's Office and the Post Office confirmed the accuracy of the population data.

A. Permanent Residents

Permanent residents included all people residing in the area, but excluded occupants of institutions. The ten-mile radius around the site is shown in Figure 1. In 1980 an estimated 1306 people were living within the Ten-Mile EPZ. The nearest inhabitants occupy farms which are located east of the Columbia River and are thinly spread over five compass sectors. There are no permanent residents located within three miles of the site. Only about 80 persons reside between the three-mile and the five-mile radii; these are all located east of the Columbia River.

Of the 1306 people residing in the Ten-Mile EPZ, about 996 live in Franklin County and about 310 in Benton County. None of the residents live in incorporated cities.

There are no significant changes in land use expected in Franklin County over the next several years and, as it is currently irrigated to about the

maximum amount practicable, little population increase is foreseen. No significant change in land use on the Hanford Reservation is expected, and no foreseeable population will reside there; however, the unincorporated area near the Horn Rapids Dam on the Yakima River in the SSW sector is expected to be the primary growth area within the Ten-Mile EPZ. Population growth within this area is projected to be about 6% per annum.

Public transportation, although not specifically identified as being needed, is available to the public in a portion of the 10-Mile EPZ. A partial survey (24 percent) of the permanent residents within the 10-Mile EPZ indicated that all of those surveyed had transportation available to them. Transportation was via their own private vehicles, with neighbors providing an alternate means. The survey was performed by the Benton County Department of Emergency Services and validated by the Benton Franklin Government Conference. In addition, the public information brochure provides telephone numbers for points of contact for those persons needing transportation assistance during an emergency. Also, the <u>Benton and Franklin Counties Fixed</u> <u>Nuclear Facility Emergency Response Plan</u> contains a procedure whereby, through a memorandum of understanding, the school administrations will provide school buses for general and specific evacuation purposes. For purposes of this study, it is therefore assumed that all permanent residents of the 10-Mile EPZ have transportation available to them.

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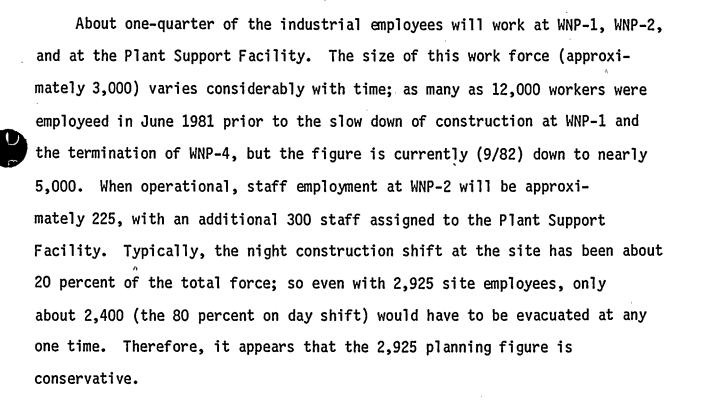
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**B.** Transient Population

The transient population is divided into three main subgroups: 1) industrial employees, 2) migratory agricultural workers, and 3) recreationists. Figure 5 illustrates this population location graphically.

Industrial employees in the Ten-Mile EPZ will total 12,305. These will all be located in Benton County and will form the main population to be evacuated, outnumbering the permanent residents by about 10:1.



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Industrial employment in the Ten-Mile EPZ includes:

| WNP#2 (Projected 3/84 operational value)    | 225    |  |  |  |  |
|---|--------|--|--|--|--|
| WNP#1 (Projected 3/84 construction value)   | 2400   |  |  |  |  |
| Plant Support Facility                      |        |  |  |  |  |
| (Projected 3/84 staffed value)              | 300    |  |  |  |  |
| DOE, FFTF, Fast Flux Test Facility          | 1187   |  |  |  |  |
| EXXON, Horn Rapids Road Facility            | 750    |  |  |  |  |
| DOE 300 Area                                | 2918   |  |  |  |  |
| DOE 3000 Area, Pacific Northwest Laboratory | 2016   |  |  |  |  |
| DOE 1100 Area, Bus Lot, Stores              | 1040   |  |  |  |  |
| Supply System, Downtown Complex             | 1021   |  |  |  |  |
| Others in Port of Benton Industrial Complex | 448    |  |  |  |  |
| TOTAL                                       | 12,305 |  |  |  |  |

The majority of these employees work days but there are some shift workers. Therefore, the planning figure of 12,305 to be evacuated is conservative.

The construction of two nuclear projects by Northwest Energy Services Company, to be located approximately four miles east of WNP-2, will significantly change these figures. However, construction is a number of years away.

There are up to approximately 1,000 migratory farm workers in the Ten-Mile EPZ. The peak season for these workers is May and June; the next highest employment season is during the fall harvest. These workers consist of

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both permanent and temporary residents of the Tri-Cities area, some living within the Ten-Mile EPZ. The numbers shown on Figure 5 and Table 3 reflect their work locations in Franklin County within the Ten-Mile EPZ, not their residences. Care was taken to avoid double-counting where possible and costeffective. The small amount of error generated by this double-counting was felt justifiable to alleviate the necessity of an expensive one-on-one poll of each individual to separate the differences. Most migrants who work in the Ten-Mile EPZ live in Pasco. The number of migrants living in the EPZ is minimal based on observations from driving in the area. Several computer runs were conducted, varying the populations to test the model. A deviation of this magnitude does not significantly change the evacuation times.

Recreationists, consisting of hunters, fishermen and boaters, enjoy activities mainly along the east bank of the Columbia River. The primary fishing season is from June through November; the main hunting season being October through January. The heaviest use of the area by recreationists is on weekends and holidays in the early morning hours. On the average, 50 fishermen and 10 hunters are present in Franklin County during the weekdays. This increases to about 100 fishermen and 50 hunters on weekends and holidays. Recreationists also use the Yakima River with an estimated maximum of 50 at any time in this area. During peak fishing or hunting times, up to 1050 recreationists may be located within the Ten-Mile EPZ.

The main concentration of recreationists consists of fishermen located just south of the Ringold Fish Hatchery spillway on the Franklin County side of the Columbia River. Hunting consists of both water fowl, hunted at the

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Wahluke Hunting Area on the Franklin County side of the Columbia River, and upland game birds hunted inland on the farm land of Franklin County. To model this section of the transient population from a potential evacuation standpoint the 1050 maximum was used with 400 recreationists being assigned to the sector containing the Ringold Fish Hatchery and the Wahluke Hunting Area and the rest distributed inland. Of the total, 1000 are assigned to Franklin County and 50 to Benton County.

An automobile occupancy factor of 3, the same as residents, was used for these recreationists.

### C. Special Facility Population

There are no individuals within the Ten-Mile EPZ confined to institutions such as hospitals, nursing homes, or penal institutions. There are three schools, the Edwin Markham Elementary School, the Cypress Gardens School, and the Country Christian Center, with a total enrollment of approximately 350 students. Although most of these students live within the Ten-Mile EPZ, the total amount was added to the population for this study. Care was taken to avoid double-counting where possible. This scientific study was not looking at precise numbers in terms of absolute accuracy and fixed values. Again, due to the fluxuations in the large transient industrial worker population, this small amount of error by double-counting should not exceed the anticipated variation of the entire study. PVSTG, the number of people per vehicle for this ISTG (Independent Special Traffic Generator), was determined by using a conservative figure of 35 students per bus.

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D. Emergency Planning Zone and Sub-Areas

Sub-areas considered in this study were:

<u>Radius</u>

### Area

| 0-2 miles  | entire circumference          |
|------------|-------------------------------|
| 0-5 miles  | three 90 <sup>0</sup> sectors |
| 0-10 miles | three 900 sectors             |
| 0-10 miles | entire EPZ                    |

The 2-mile radius was not subdivided because it contains no residential population and the only institution populations are transients all working on contiguous Supply System properties. Only three of the four 5- and 10-mile 90° sectors were examined because the fourth, entirely on the Hanford Reservation, contains no residential, transient or special population. These sectors are graphically shown on Figures 2 and 3. The Columbia River, as a natural border between Benton and Franklin Counties, was used to form the division between Sector II and Sector III. Franklin County was divided, approximately in half, as it was assumed that those north of the plant location would evacuate north toward Mesa/Connell and those in the opposite direction, south towards Pasco.

When making estimates for outer sectors it was assumed that the inner adjacent sectors were being simultaneously evacuated.

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#### SECTION III - TRAFFIC CAPACITY

Figure 3 illustrates the evacuation routes, barricades and assistance centers for the Hanford Site. These routes have been designated as primary, secondary and additional secondary, based on discussions with local traffic and emergency planning officials.<sup>6</sup> These routes were identified as those over which the endangered population could be most expeditiously evacuated to the centers where they may be assisted.

In choosing the traffic flow direction for the computer model, as illustrated in Figures 2 and 3 and Table 6, populations were evacuated toward the closest primary, secondary or additional secondary road in decreasing priority that was headed north, south or east away from the plants. Permanent resident passenger vehicle numbers and total passenger vehicle numbers are shown in Figures 6 and 7 respectively.

#### A. Evacuation Roadway Network

Quadrant I

The primary evacuation route is Russell Road, east to old State Road 17, and north into Mesa. From Mesa, evacuees may continue by:

Taking State Highway 17 north to Hendricks, then east on Hendricks Road
 to Connell.

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o Taking U.S. Highway 395 northeast to Connell.



Taking U.S. Highway 395 south to Pasco.

The secondary evacuation route is Route 170 east through Basin City to Mesa.

Additional Secondary Evacuation Routes are:

Mountain Vista Road/Hollingsworth Road Basin Hill Road Klamath Road Ironwood Road



Quadrant II

The primary evacuation route is Eltopia West Road to Glade North Road then south towards Pasco or east to Eltopia and Highway 395.

The secondary evacuation route is Taylor Flats Road south towards Pasco.

Additional Secondary Evacuation Routes are:

Ringold Road Elm Road Sagemoor Road Road 68

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Quadrant III - Residential Traffic

The primary evacuation route for the residents in this quadrant is Harrington Road and Yakima River Drive or Grosscup Road to Van Giesen and then south and east into Kennewick via Bombing Range Road to Highway 12, to Leslie Road, To Keene Road, to Gage Road, to Quinault, to Columbia Center Boulevard, to Canal Drive, and to Young, on which is located Vista Elementary School, the assistance center.

The advantage of this route is that it provides direct movement from the Ten-Mile EPZ for residents and would avoid the traffic congestion created by transients. The disadvantage is that both Grosscup Road and Bombing Range Road contain extensive sections of gravel and are rather narrow. A number of residences in this area are connected to major thoroughfares by short dirt roads.

The secondary evacuation route is Harrington Road and Yakima River Drive, or Grosscup Road to Van Giesen, then to Benton City via Highway 224 and east to Kennewick via Highway 12, continuing as before to Vista Elementary School, the assistance center. The main advantage of this route is the same as for the primary evacuation route in that it avoids the transient traffic. In addition, this route provides for hard surface access into Kennewick. The disadvantage of this route is that it is much longer than the primary route.

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Additional Secondary Evacuation Routes are:

Highway 240 (either towards Benton City or Richland). This route's main disadvantage is that it initially leads deeper into the Ten-Mile EPZ.

Van Giesen (in towards Richland). This route's main disadvantage is that it leads directly into traffic congestion created by transients.

Quadrant III - Transient Traffic

Two primary evacuation routes exist for this area - George Washington Way and Stevens Drive.

The majority of transient traffic coming from the Hanford Reservation uses Stevens Drive to the Richland Bypass Highway 240, and to Highway 12 into Kennewick. The other route into Kennewick is George Washington Way to the Richland Bypass Highway 240, and to Highway 12. These same routes would be used during an evacuation. The major bottleneck of these routes occurs south of Richland where George Washington Way intersects the Richland Bypass Highway 240. This location is over 15 miles from the WNP-1 and WNP-2 sites.

One item discovered while performing the computer study was that directing the DOE 3000 Area Battelle employees to use George Washington Way would free Stevens Drive for use by DOE 300 Area employees and result in a quicker

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evacuation time. Although the 3000 Area employees are slightly closer to Stevens Drive, this route would require them to make a left turn crossing two lanes of traffic and merge into flow, whereas the George Washington route is a right turn merging into traffic. Probably as Stevens Drive fills, 300 Area employees would naturally go to George Washington Way because of the easier access.

Additional Secondary Evacuation Routes are:

Highway 240 (toward Benton City or Yakima). This route results in the evacuees remaining within the Ten-Mile EPZ for a considerable time.

Van Giesen (towards Benton City).

Route 4 south or the Yakima Barricade Route (towards Yakima for WNP-1, 2 & 4 and FFTF transients).

FFTF Access Route and Route 10.

B. Assistance Centers

Assistance centers have been selected by local emergency planning officials.<sup>6</sup> Criteria for selection included that these locations be at least 15 miles from the plants, in the path of normal travel, having adequate facilities, and readily available.

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Residents evacuated from the Ten-Mile EPZ would be sent to the centers for registration, assistance in obtaining meals and lodging and to receive updated information.

Assistance Centers include:

Quadrant I

a. Mesa Elementary School, Mesa

This school is located on Highway 17, approximately seventeen miles from the plants. The school has adequate facilities for the number of persons in Quadrant I but parking is limited.

b. Connell High School, Connell

This facility could be used as an alternate assistance center for the northern area. The Connell High School, is approximately 28 miles from the Hanford site. Adequate facilities and parking are available.

Motels available in this direction include the M & M Motel and the Tumbleweed Motel, both in Connell, with a combined capacity of 70 rooms and over 250 beds.



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Quadrant II

# a. Isaac Stevens Junior High School, Pasco

Isaac Stevens Junior High School, located at 1120 North 22nd, Pasco, can be used as an assistant center for evacuees.

Motels in Pasco have a combined total capacity of 804 rooms and 1,729 beds.

Quadrant III

a. Vista Elementary School, Kennewick

This school is located on Young Street and Victoria Street, approximately 19 miles from the Hanford site.

Kennewick motels have a combined capacity of 726 rooms and 1,741 beds. An addition of 400 motel beds is projected by the end of 1981 which could result in a total capacity for 2,141 evacuees.

In addition, the Kennewick School System has a potential for sheltering over 9,000 persons and the Pasco School System over 7,000, for a combined capacity of at least 15,000 persons.

If an extended evacuation was warranted, Columbia Center, a large shopping mall in Kennewick, located on Columbia Center Boulevard,

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could serve as a staging area. The paved parking area can hold 4,600 cars and an additional 5,000 cars could be parked in adjacent areas.

b. Kiona-Benton City School District No. 52, Benton City

The schools in this district serving as an assistance center for evacuees are located in Benton City, approximately 16 miles from the Hanford site.

Yakima or Walla Walla could serve as host areas with ample motel and school facilities to house the entire Richland population. Massive use of such facilities appears highly unlikely. Past evacuations demonstrated that relatively few people use rooms provided by assistance centers, preferring instead to stay with friends or relatives.

If employees or their vehicles at the site were contaminated, they would, radiological conditions permitting, be decontaminated prior to evacuation. If this was not possible because of pending hazardous situations, then remote decontamination would take place at either the old Hanford town site, located in the north section of Quadrant IV, and the seldom-used road network located south of Battelle's 3000 Area Facility and between Stevens Drive and George Washington Way. These areas provide adequate space for the monitoring and decontamination of vehicles evacuated from within the 2-mile area.

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# A. Time Estimates

The Supply System is installing an early warning system capable of notifying the public within the Ten-Mile EPZ to take protective measures during an emergency. This system was designed to enable the county to notify the public within 15 minutes from the time the decision to evacuate is made by county officials. The Supply System has established procedures to notify the county officials within 15 minutes of an incident which would require protective actions by the public. Therefore, a maximum of 30 minutes notification time is assumed. Once the public has been notified, the evacuation begins according to the discussion in Section I B. The final stage of the evacuation is the confirmation that the evacuation is complete (see V A for discussion).

Evacuation time estimates for the Supply System Hanford site have been made and are shown in Table 7. Notification time varies from 15 minutes for Supply System facilities to 30 minutes for the general populace. Confirmation time is estimated at 30 minutes for Supply System employees and 60 minutes for the general populace (see Section V A for discussion).

Figure 8 illustrates "S-Curves" for some of the more important evacuation trees. As previously indicated, low populations, such as the Supply System's residential population, will evacuate shortly after they load onto

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the road system. FRACT, this loading function, includes notification and preparation time. The resulting distribution forms an "S-Curve" shape which is illustrated during the evacuation by the permanent population curves of the Figure.

High populations such as the general population which includes transients working at the Hanford site, are not modeled by FRACT. FLORAT, the flow rate, V, the minimal velocity, and EVL, the effective vehicle length, model these population's evacuation distribution and form straight lines as illustrated by the general population curves of Figure 8.

B. Adverse Weather

Table 7 presents evacuation time estimates under two conditions: normal and adverse weather. Severe weather conditions such as blizzards, heavy rain storms, flooding, fog, or high winds could seriously hamper evacuation. However, historical records indicate that severe conditions of this nature have occurred rarely in the past. Typically, bad weather results in a vehicle velocity reduction of one-half. But, the reduction of traffic flow to even 20% should not result in large increases in evacuation times.

A wind-direction-effects computer test run was conducted. A wind direction and resultant plume vector were assumed which would require the use of a secondary evacuation route for the Supply System site and FFTF. The secondary evacuation route time (1 hr:20 min) did not differ significantly from the primary evacuation route time (1 hr); therefore, it is concluded

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that wind direction does not adversely effect the evacuation. Meteorological data will be available to those responsible for the decision process such that secondary evacuation routes will be a viable alternative.

Blizzard conditions are the most likely to affect evacuations. On very rare occasions, drifts of snow up to several feet have been reported in the area. Since equipment to deal expeditiously with such conditions is generally lacking in both counties, this could result in people being "snowedin." A realistic approach was utilized in the computer model by slowing traffic down to 5 mph (20 percent of 30 mph, rounded down), but increasing EVL (the effective vehicle length) up to 1.5 car lengths, which is 14.20 meters, instead of the 0.5 car lengths that would have been used for this velocity under normal weather conditions.

## C. Alternate Assumptions

Conservative but realistic assumptions were used in arriving at the evacuation time estimates. It was assumed to be daytime on a workday for areas with high numbers of transient employees. But daytime on a weekend for areas with high numbers of transient recreationists.

It was assumed that the road network was initially free of traffic in the areas of the evacuation. This would generally be true. One exception to this would be if an evacuation was initiated during a shift change at DOE's 200 Area with an employment of 4133 workers. This could place as many as an additional 2755 vehicles vying for space on Route 4 south.



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The tree containing this route was adjusted for proper linkage and an ISTG (Independent Special Traffic Generator) representing the 200 Area was added to the general population normal weather condition run. The resulting evacuation time estimate was 2 hours and 10 minutes, an additional 30 minutes from the 1 hour and 40 minutes previously obtained. The evacuation, even under these conditions, could be completed within a reasonable time. Upon revision, this run was not reevaluated inasmuch as the revision populations and evacuation times are smaller than the original values. The conclusion remains the same.

It was assumed that no secondary routes from the Hanford area were utilized. Inclusion of one or more of these secondary routes in the computer model would lower the evacuation time estimate. As an example, the tree containing Route 10 was adjusted for proper linkage, and WNP-2 and FFTF traffic was sent down this route to Highway 240 and out of the Ten-Mile EPZ. This moved 4187 employees, in as many as 2791 vehicles, off the main road--Route 4 south. This was a general population normal weather condition run. The resulting evacuation time estimate was 1 hour and 20 minutes, a decrease of 20 minutes from the value otherwise obtained of 1 hour and 40 minutes. It can thus be seen that the use of additional routing could lower the evacuation time estimate. Upon revision, this run was not reevaluated inasmuch as the revision populations and evacuation times are smaller than the original values. The conclusion remains the same.

It was assumed that the evacuation was complete when the vehicles had all cleared the Ten-Mile EPZ. One obstacle beyond this point, the Yakima River causeway, Highway 240, was investigated for traffic jamming. The tree

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containing this route was adjusted for proper linkage and the evacuation expanded five miles to this point so that the evacuation was complete at 15 miles rather than 10 miles. This was a general population normal weather condition run. The resulting evacuation time estimate was 2 hours and 10 minutes, an increase of 30 minutes over the previously obtained 1 hour and 40 minutes. Although this is a bottleneck, it does not appear to be a formidable one, and traffic would not back up from this intersection into the Ten-Mile EPZ. Upon revision, this run was not reevaluated inasmuch as the revision populations and evacuation times are smaller than the original values. The conclusion remains the same.

Additional computer runs were conducted to evaluate the normal- and adverse-condition evacuation times when WNP-2 is operational with 225 staff, the Plant Support Facility is manned with 300 persons, an outage crew is present with 275 workers, and WNP-1 is in the maximum possible ramped-up construction phase predicted for 3/85 with 6200 workers. The increase in general population (from 2925 to 7000) resulted in increasing the normal condition run by only 20 minutes and the adverse condition run by 2 hours and 40 minutes.

The only special facility within the Ten-Mile EPZ is the Edwin Markham Elementary School with 250 students. Because of the small size of this population, it was considered as part of both the permanent and the general population evacuation time estimates. Buses which could be used in the evacuation are located at the district bus lot in north Pasco during the day. It is assumed that the buses could be dispatched within the 1 hour MAXDEP time used for this quadrant.

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# A. Evacuation Confirmation Times

Visual confirmation of evacuation will be made by local sheriff's departments for permanent residents. It is estimated that this can be accomplished within one hour. The Supply System will be responsible for personnel accountability at Supply System facilities. It is estimated that this will take a maximum of 30 minutes.

B. Recommendations

Identified potential impediments to egress include:

- o Bombing Range Road--This is a gravel road. If the county, as planned, gives this road a hard surface, evacuation of permanent residents in Quadrant III would be facilitated. However, since there are only 310 residents using this route, its present condition is not a major obstacle. Also, this road is located two to three miles beyond the Ten-Mile EPZ and is only used as access to the assistance center.
- o The Yakima River Causeway--Highway 240. Although located 15 miles from the Hanford site, this is the only route leaving south out of Richland. If a traffic accident occurs on this route, traffic



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could be snarled for hours. It is therefore recommended that planning be carried out to provide some mechanical means for clearing lanes at this location early in the evacuation. Such means could include wreckers or possibly even cranes.

Construction has already begun on new bridges crossing the Columbia and Yakima rivers south of Richland for Highway 240 with an expected completion date of 1984. A future bridge is also planned for North Richland which will cross the Columbia River at Horn Rapids Road. Both of these bridges will result in shorter evacuation times.

C. Review of Study by State and Local Officials

The revision to this study was submitted for review to the principal state and local officials involved in emergency response for the site. Their comments were solicited and a copy of their response follows.



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JOHN SPELLMAN Governor



HUGH FOWLER Director

STATE OF WASHINGTON

DEPARTMENT OF EMERGENCY SERVICES

4220 E. Martin Way • Olympia, Washington 98504 • 206-459-9191

September 30, 1982

RECEIVED

T 5 1982

J. W. SHANNON

Mr. Jack Shannon, Director Support Services Washington Public Power Supply System 3000 George Washington Way Richland, WA 99352

Dear Mr. Shannon:

George W. Petre of our Fixed Nuclear Facility planning staff has reviewed the Washington Public Supply System Hanford Site Evacuation Time Assessment Study revision number 1, September 1982, written by Robert D. Mogle.

The Department of Emergency Services finds this document to be adequate in meeting the requirements of NUREG-0654/FEMA Rep 1.

Sincerely,

Sec. Sec. In Co · · · · · 2

Hugh H. Fowler Director

HHF:gwp:11





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# BENTON COUNTY

**DEPARTMENT OF EMERGENCY SERVICES** 

Kennewick City Hall P. O. Box 6144 Kennewick, Washington 99336-0144 Telephones: Office: (509) 586-1451 Emergency: 911

October 25, 1982

William E. Taylor, Manager Health & Safety Programs Washington Public Power Supply System 3000 George Washington Way Richland, WA 99352

SUBJECT: REVISION I, HANFORD SITE EVALUATION TIME ASSESSMENT STUDY

Dear Mr. Taylor:

I have reviewed the above mentioned document and concur with the findings.

Thank you for the opportunity to review and comment on this matter.

Sincerely,

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Paulette H. Vopalensky Director

PHV/clc



#### REFERENCES

- 1. <u>CLEAR Computer Program</u>, M.P. Moeller and A.E. Desrosiers, Pacific Northwest Laboratory, Richland, Washington, May 1981
- 2. <u>Supply System Interoffice Memorandum, Selection of Appropriate Popula-</u><u>tion (Household Size) Multiplier for Area Within Ten-Mile Radius of</u> <u>WNP-1, -2, -4</u>, A.M. Lee, Socioeconomic Coordinator, to J.V. Everett, Supervisor Emergency Preparedness, July 28, 1980
- 3. <u>Evacuation Risks--An Evaluation</u>, U.S. Environmental Protection Agency Offices of Radiation Programs EPA--52016-74-002, Joseph M. Hans, Jr. and Thomas C. Salle, June 1974
- 4. <u>Socioeconomic Impact Study WNP-1/4, Volume 4; Final Report</u>, Community Development Services, Inc., Seattle Washington, May 1979
- 5. <u>WNP-2 Environmental Report--Operating License Stage Amendment #5</u>, July 17, 1981
- Feasibility of Ten-Mile Emergency Planning Zone Evacuation, Hanford Site, Warren Hanson & Associates, December 1980

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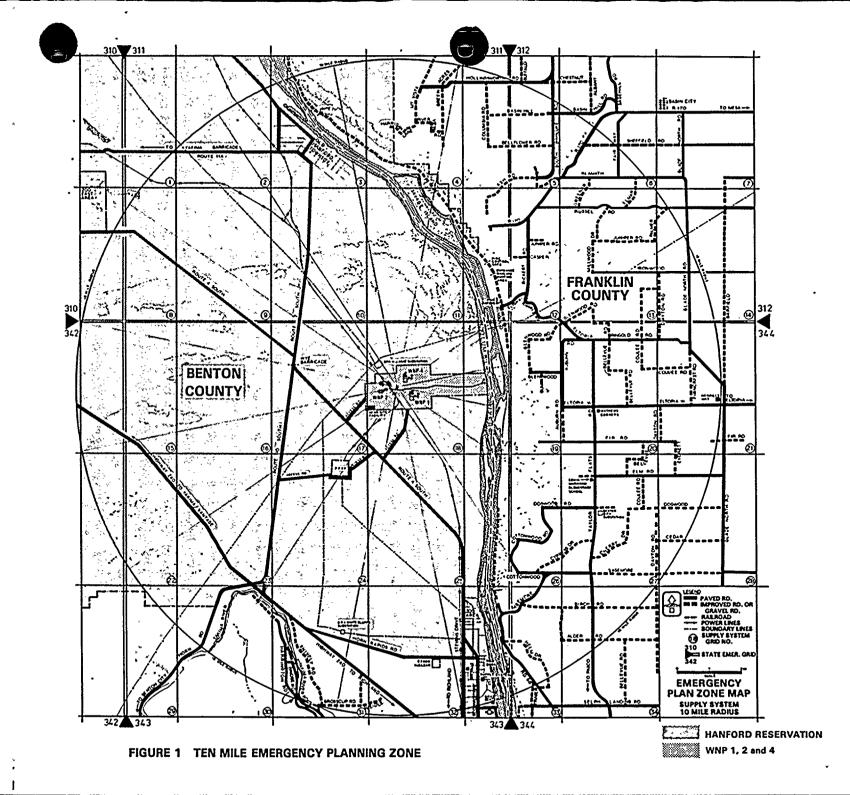
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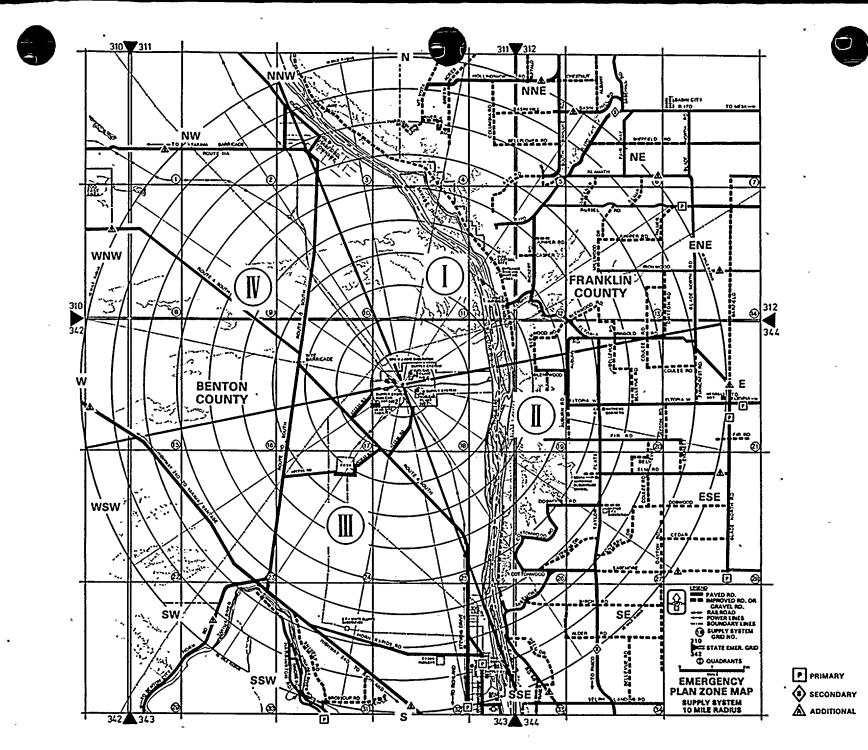


FIGURE 2 TEN MILE EPZ ROAD SEGMENT MAP

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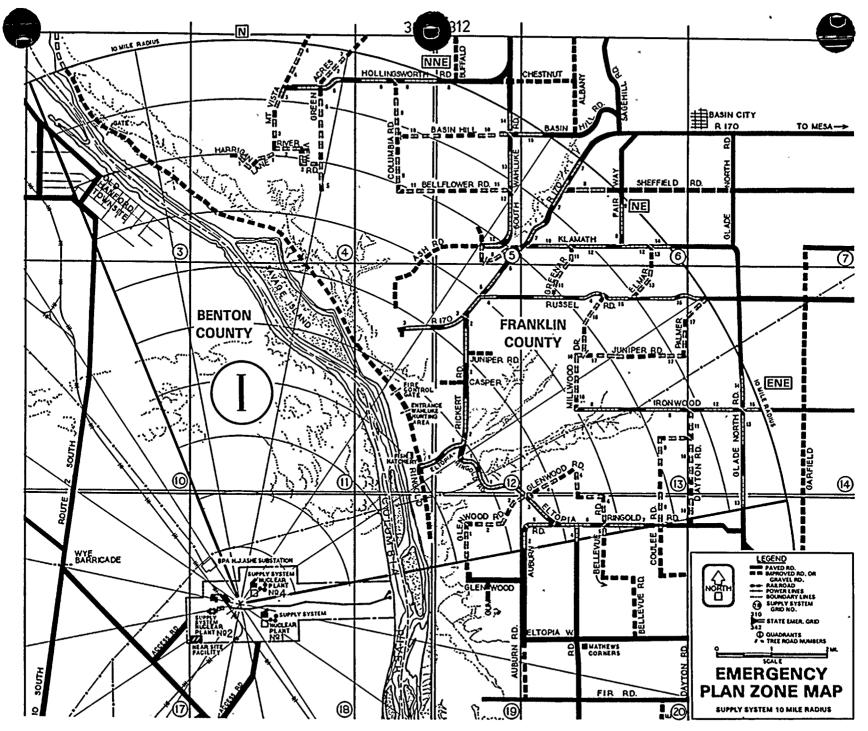
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FIGURE 2 QUADRANT I

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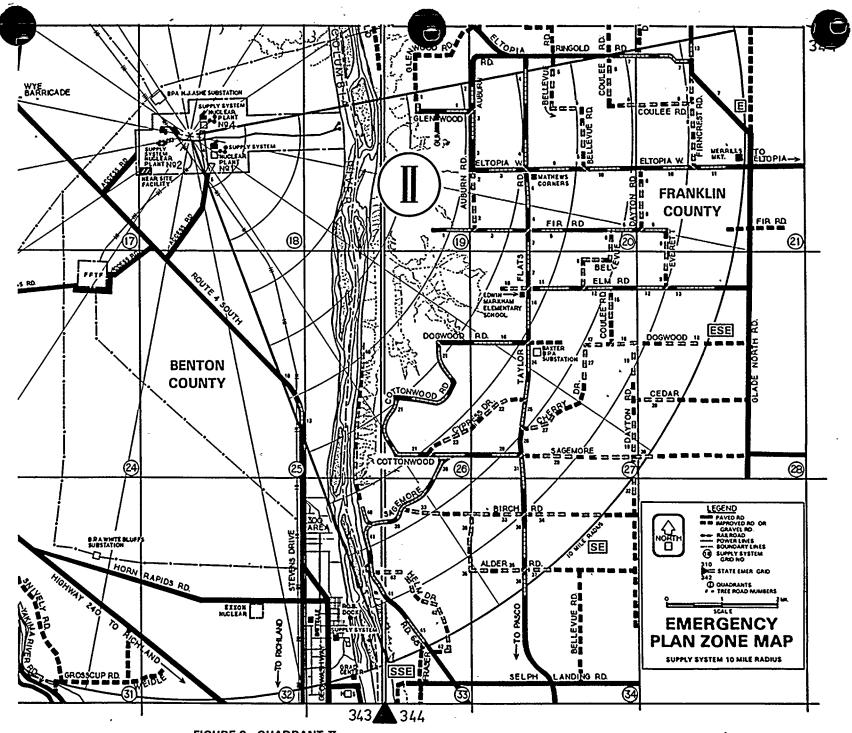
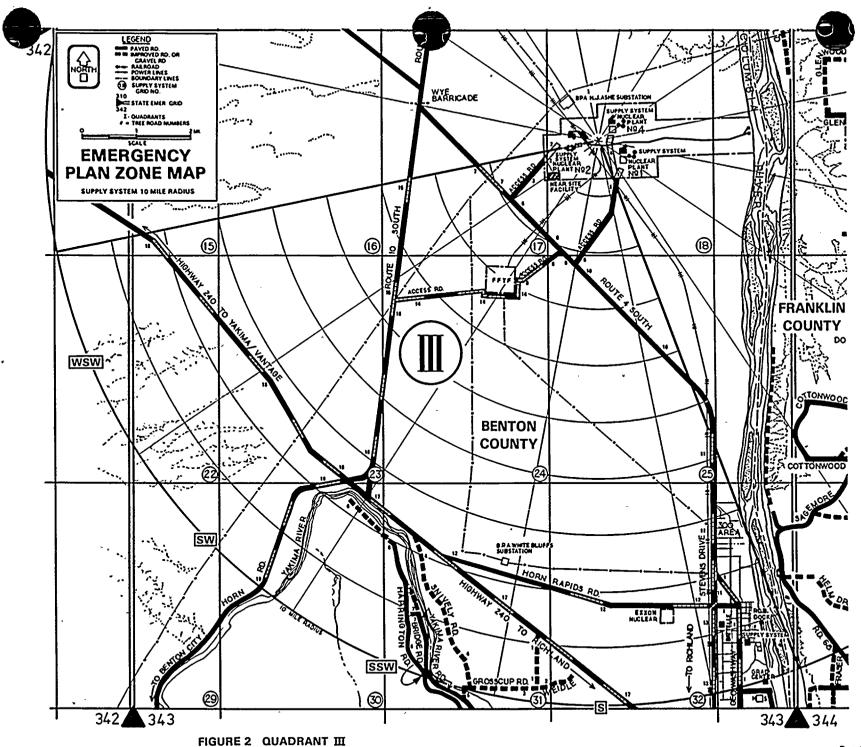


FIGURE 2 QUADRANT II

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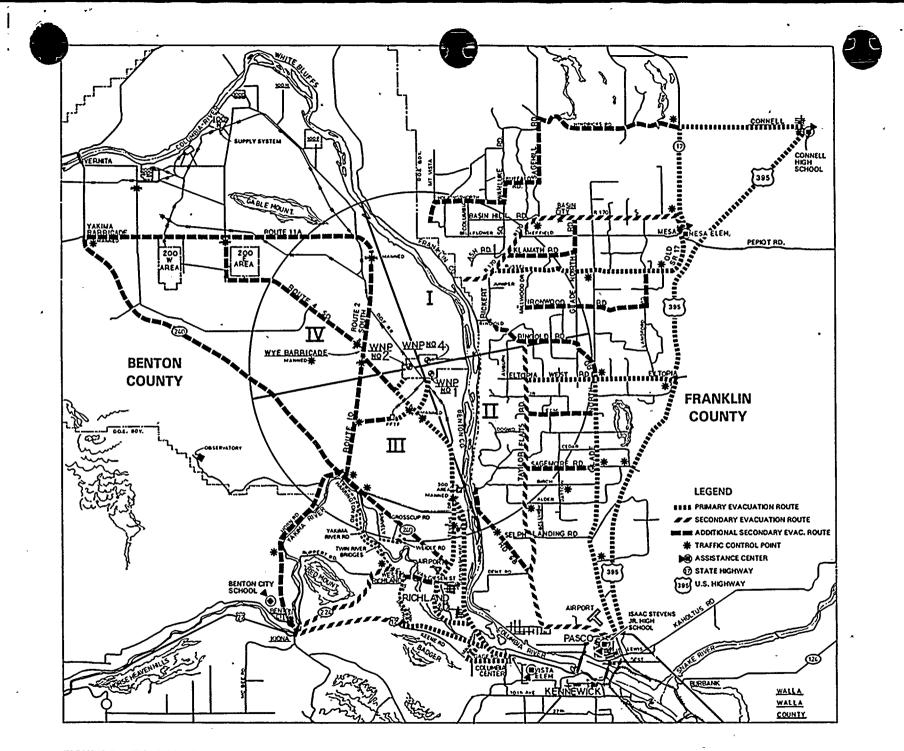
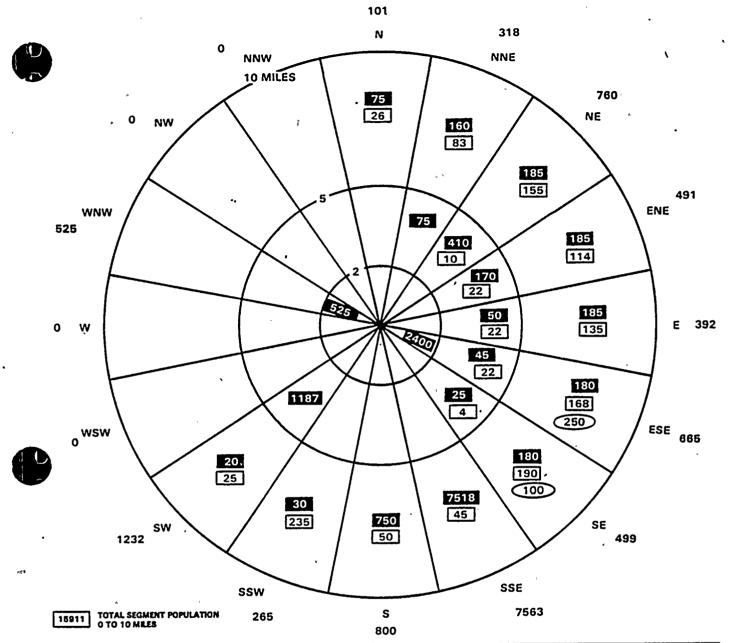


FIGURE 3. EVACUATION ROUTES - TRAFFIC CONTROL POINTS - ASSISTANCE CENTERS

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| POF         | ULATION TOT        | ALS-PERMAN  | ENT                      |
|-------------|--------------------|-------------|--------------------------|
| RING, MILES | RING<br>POPULATION | TOTAL MILES | CUMULATIVE<br>POPULATION |
| 0-2         | 0                  | 0-2         | 0                        |
| 2-5         | 80                 | 0-5         | 80                       |
| 5-10        | 1226               | 0-10        | 1306                     |

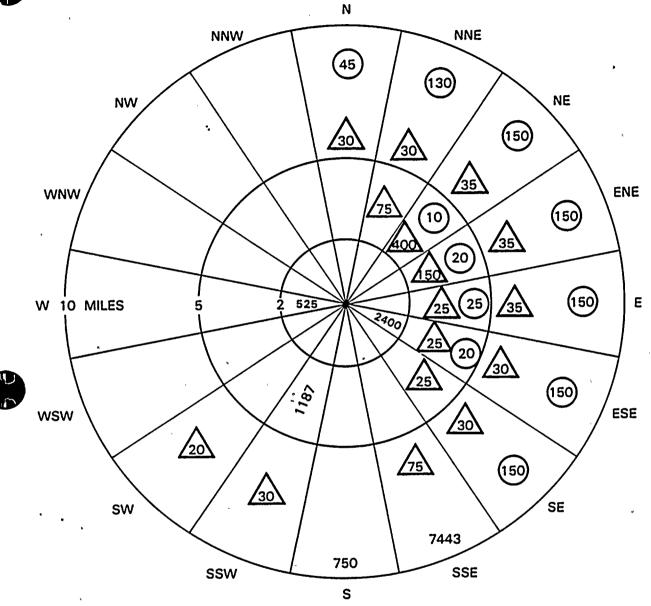
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| PO          | PULATION TOT       | ALS-TRANSI  | ENT                      |
|-------------|--------------------|-------------|--------------------------|
| RING. MILES | RING<br>POPULATION | TOTAL MILES | CUMULATIVE<br>POPULATION |
| 0-2         | 2925               | 0-2         | 2925                     |
| 2-5         | 1962               | 0-5         | 4887                     |
| 5-10        | 9468               | 0-10        | 14355                    |

| Р           | OPULATION TO       | DTALS-SPEC  | A                        |             | POPULATI           | ON TOTALS   |                          |
|-------------|--------------------|-------------|--------------------------|-------------|--------------------|-------------|--------------------------|
| RING. MILES | RING<br>POPULATION | TOTAL MILES | CUMULATIVE<br>POPULATION | AING, MILES | RING<br>POPULATION | TOTAL MILES | CUMULATIVE<br>POPULATION |
| 0-2         | 0                  | 0-2         | 0                        | 0-2         | 2925               | 0-2         | 2925                     |
| 2-5         | 0                  | 0-5         | 0                        | 25          | 2042               | 05          | 4967                     |
| 5-10        | 350                | 0-10        | 350                      | 5-10        | 11044              | 0-10        | 16011 "                  |

FIGURE 4 TOTAL POPULATION WITHIN THE 10 MILE EPZ BROKEN DOWN INTO 3 CLASSIFICATIONS





KEYIndustrial Employees2400Migratory Agricultural Workers150Sportsmen30



DISTRIBUTION OF TRANSIENT POPULATION WITHIN 10 MILES OF SITE

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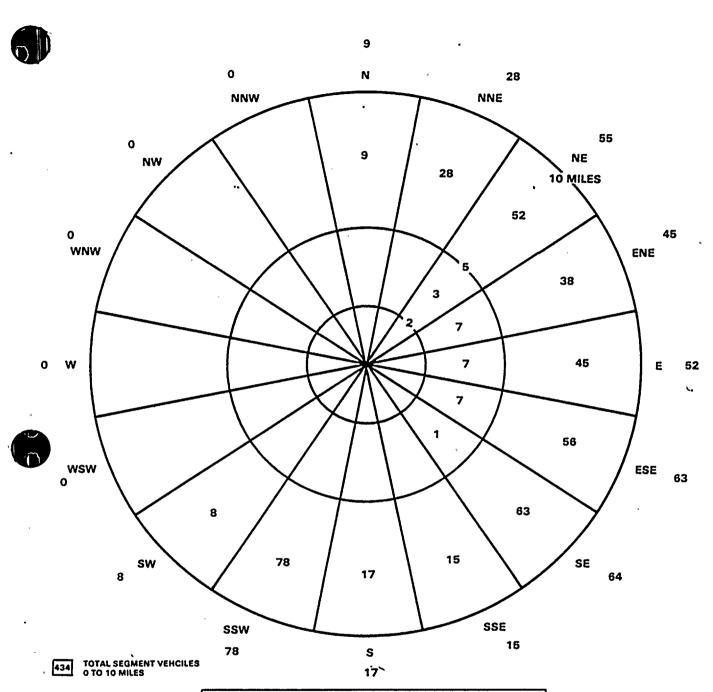
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|            | VEHICLES TOTALS  |             |                        |  |  |  |  |  |  |  |  |  |
|------------|------------------|-------------|------------------------|--|--|--|--|--|--|--|--|--|
| RING MILES | RING<br>VEHICLES | TOTAL MILES | CUMULATIVE<br>VEHICLES |  |  |  |  |  |  |  |  |  |
| 0-2        | 0                | 0-Z         | 0                      |  |  |  |  |  |  |  |  |  |
| 2-5        | 25               | 0-5         | 25                     |  |  |  |  |  |  |  |  |  |
| 5-10       | 409              | 0-10        | 434                    |  |  |  |  |  |  |  |  |  |



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FIGURE 6 PERMANENT RESIDENT PASSENGER VEHICLES WITHIN 10 MILE EMERGENCY PLANNING ZONE ۲

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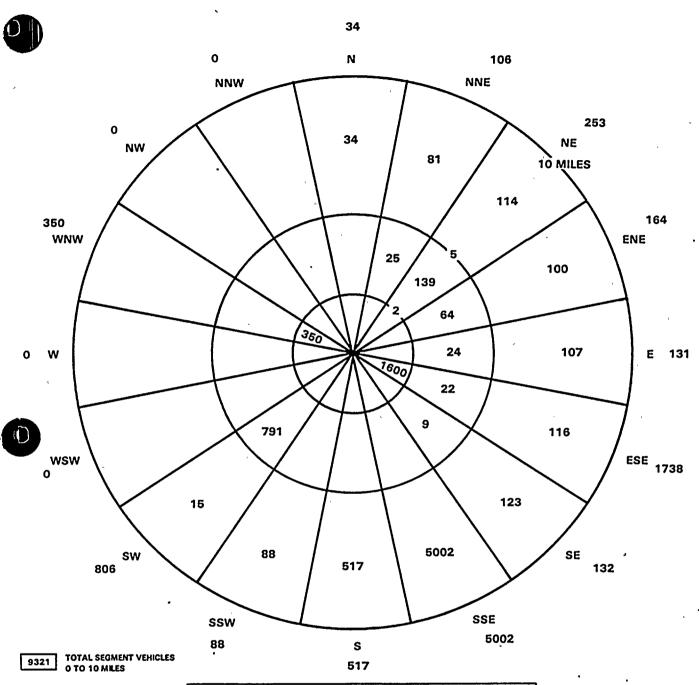
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|            | VEHICLE          | ES TOTALS   |                        |
|------------|------------------|-------------|------------------------|
| RING MILES | RING<br>VEHICLES | TOTAL MILES | CUMULATIVE<br>VEHICLES |
| 0-2        | 1950             | 0-2         | 1950                   |
| 2-5        | 1074             | 0-5         | 3024                   |
| 5-10       | 6297             | 0-10        | 9321                   |

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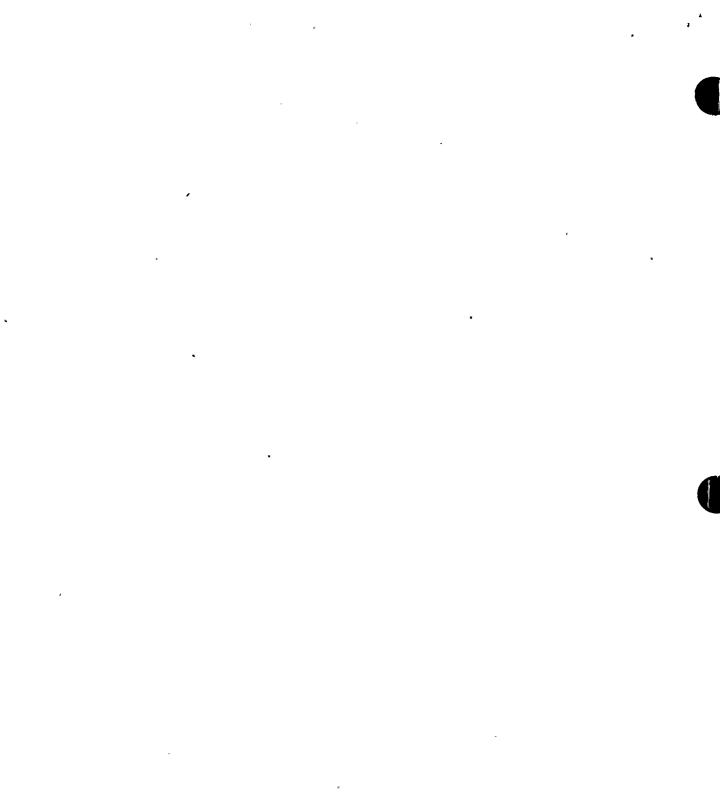
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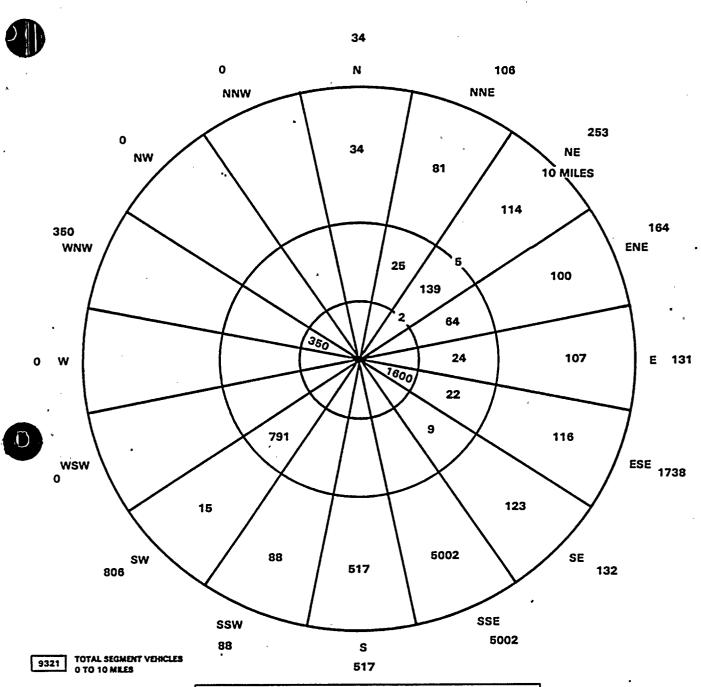
FIGURE 7 TOTAL PASSENGER VEHICLES WITHIN THE 10 MILE EMERGENCY PLANNING ZONE

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| VEHICLES TOTALS  |                                  |  |  |  |  |  |  |  |  |  |
|------------------|----------------------------------|--|--|--|--|--|--|--|--|--|
| RING<br>VEHICLES | TOTAL MILES                      | CUMULATIVE<br>VEHICLES   |  |  |  |  |  |  |  |  |
| 1950             | 0-2                              | 1950   |  |  |  |  |  |  |  |  |
| 1074             | 0-5                              | 3024   |  |  |  |  |  |  |  |  |
| 6297             | 0-10                             | 9321   |  |  |  |  |  |  |  |  |
|                  | RING<br>VEHICLES<br>1950<br>1074 | RING<br>VEHICLES         TOTAL MILES           1950         0-2           1074         0-5 |  |  |  |  |  |  |  |  |

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## FIGURE 7 TOTAL PASSENGER VEHICLES WITHIN THE 10 MILE EMERGENCY PLANNING ZONE

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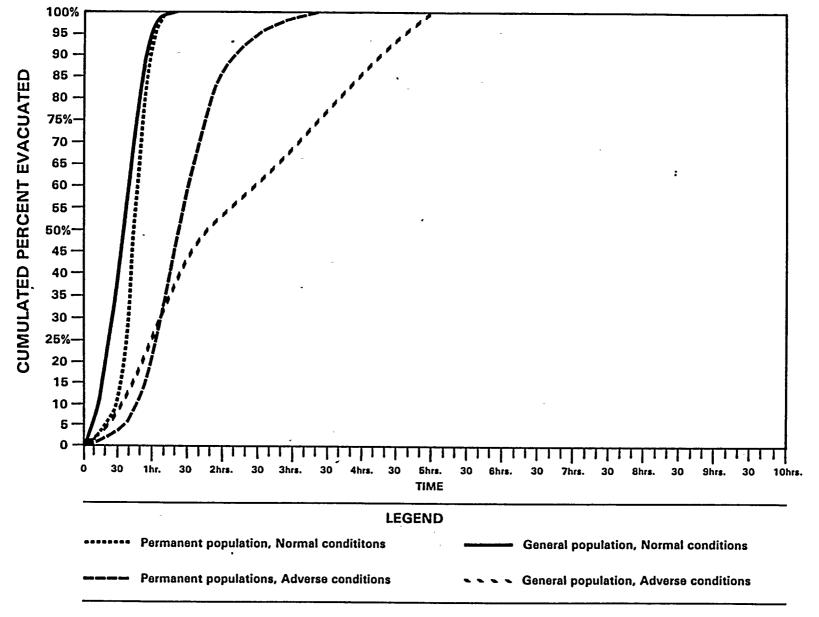


FIGURE 8 PERCENT EVACUATED VERSUS TIME FOR VARIOUS POPULATIONS AND CONDITIONS ("S-CURVES" FOR 10 MILE EMERGENCY PLANNING ZONE)

| INPU                     | DEFINITION  | PURPOSE   | EQUATION  | CALCULATED VALUE  | VASSED  |
|--------------------------|---|---|---|---|---|
| 1. LU                    | Output printer code   | Tells computer in which mode to print data  |   |   | 6   |
| 2. DELT                  | Unit of time for simultaneous<br>evacuation   | Calculates all occurrences on all<br>road segments during DELT, then<br>creates a snapshot of vehicular<br>location   | Must be less than the shortest<br>road segment length divided by<br>fastest road nominal velocity | 500 meters = 28 seconds<br>40 mph   | 25 seconds  |
| 3. ТҮР                   | Controls frequency of printout  | Controls volume of printout   | TYP x DELT = frequency of<br>printouts  | <u>24 x 24 sec</u> = 10 min.<br>60 sec/min  | 24  |
| 4. MAXDEP                | Maximum time of departure<br>(in seconds)   | Determines when last person begins<br>leaving the area  | Must result in an integer when divided by DELT  | ,   | Four values were<br>examined: 10 min., 30<br>min., 1 hour and 2 hours |
| 5. FRACT                 | Loading function  | Controls the loading of the road<br>segments  | FRACT = Fraction of vehicles<br>loading within 0.25 x MAXDEP                                      | Fraction leaving within:<br>15 Min - 10%<br>30 Min - 32.5%<br>45 Min - 77.5%<br>60 Min - 100% | 0.10  |
| 6. POPVEH                | Number of persons per vehicle   | Considers that more than one<br>person will be in each vehicle, i.e.,<br>family evacuates together in same<br>vehicle |   |   | 3, see reference 2  |
| 7. LGCODE                | Large Code  | Provides ability to reduce volume by<br>use of a random sample  | LGCODE proportionately increases<br>POPVEH and EVL, giving the same<br>final answer               |   | 1, 5  |
| 8. FLORAT                | Input vehicles per hour per lane  | Indicates the number of vehicles<br>which can move past a point each<br>hour per lane during an evacuation            |   | EPA study indicates 1000 to 2600;<br>average between the two is 1800<br>(reference 3)         | 1700, 1000 -  |
| 9. EVL                   | Effective vehicle length at minimum speed   | To account for actual distance<br>occupied between cars on road<br>segment  | Base length of vehicle = 5.68<br>meters +<br>5.68 meters times velocity<br>10 mph of velocity     | At 15 <sup>°</sup> mph.<br>5.68 + ( <u>15</u> x 5.68) = 14.2M<br>10                           | 14.2, 22.72, 8.52   |
| 10. V                    | Minimum velocity  | Simulates stop and go traffic   |   |   | 15 mph, 30 mph, 5 mph   |
| 11. ZTWO<br>ZFIV<br>ZTEN | Total number of zones which are<br>represented in the tree less than<br>2 miles, 5 miles and 10 miles from<br>the plants respectively | Account for vehicle radial location<br>during evacuation  |   | * <u> </u>  | Specific to individual tree   |

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## TABLE 1 INPUTS TO CLEAR COMPUTER MODEL

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| ΙΝΡυτ      | DEFINITION  | PURPOSE   | EQUATION              | CALCULATED VALUE  | VALLE  |
|------------|---|---|-----------------------|---|--|
| 12. ZEPZ   | Total number of zones in the tree                             | Provides flexibility of adding zones<br>beyond ten-mile EPZ if traffic could<br>be slowed due to some barrier<br>which would back traffic into the<br>ten-mile zone |                       | No special barriers were identified   | Specific to individual tree  |
| 13. ISTG   | Number of independent special<br>traffic generators           | Evacuates special areas as groups<br>rather than individual residents,<br>such as the evacuation of a factory<br>or a school.                                       | <br>-<br>-            | ISTG for Franklin County<br>Edwin Markham Elementary School<br>ISTG for Benton County<br>WNP-2 & PSF<br>WNP-1<br>Fast Flux Test Facility<br>Exxon Nuclear<br>3000 Area<br>3000 Area<br>1100 Area<br>Supply System Headquarters<br>Other North Richland Industrial<br>Complex Facilities | Specific to individual tree,<br>only 3 of 8 trees contain<br>ISTGs |
| 14. ROAD   | The road segment where the ISTG is located                    | Place ISTG  |                       |   | Specific to individual ISTG  |
| 15. LENSTG | The length of the road from the ISTG to the LINK              | Place ISTG  |                       |   | Specific to individual ISTG  |
| 16. PVSTG  | Average number of people<br>evacuating per vehicle from ISTG  | Allow variance from POPVEH,<br>people will leave in the same<br>vehicles in which they came to<br>work in   |                       | Franklin County: 35 students per<br>bus (conservative)<br>Benton County: 1.5 persons per car<br>(reference 4)   | Franklin County: 35<br>Benton County: 1.5                          |
| 17. POPSTG | Population per ISTG   | Add ISTG population   |                       |   | Values are given in<br>Section II                                  |
| 18. EX .   | Number assigned to any exit roads<br>leaving the 10-mile zone | Lets computer model know when a vehicle has left the EPZ  |                       |   | Specific to individual tree  |
| 19. EPZ    | The first radiant distance mile outside the EPZ               | Used to indicate when evacuation was complete   |                       | To indicate evacuation is complete<br>at 10 miles, a value of 11 is<br>needed; at 15 miles, 16 is needed  | 11, 16   |
| 20. POPZN  | Population of each zone                                       | Input population  |                       |   | See Figures 4 & 5 and<br>Tables 25                                 |
| 21. NRDS   | Number of road segments within the zone                       | Let computer know when to look<br>for next zone   | , <u> </u>            |   | Specific to individual tree  |
| 22. LENRDS | Total length of all road segments within the zone             | Proportions population according to the length of the road segment  | LEN<br>LENRDS × POPZN |   | Specific to individual tree  |

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| INPUR      | DEFINITION  | PURPOSE  | EQUATION | CALCULATED VALUE  | VAS SED   |
|------------|---|--|----------|---|---|
| 23. ZNRD   | Number assigned to the individual road segment                                    | Necessary for the computer to<br>construct the mathematical<br>evacuation tree |          |   | See Figure 2  |
| 24. LINK   | Road segment onto which the vehicles from ZNRD flow                               | Necessary for the computer to<br>construct the mathematical<br>evacuation tree |          |   | See Figure 2  |
| 25. LEN    | Length in meters of ZNRD  | Necessary for the computer to<br>construct the mathematical<br>evcuation tree  | · · · ·  |   | See Figure 2  |
| 26. RADIS  | First radial distance beyond where the ZNRD intersects the LINK and the NRSEC     | Used by computer to keep track of population at varying radi                   |          |   | See Figure 2  |
| 27. NOMVEL | Nominal velocity on ZNRD  | Control upper speed of exiting vehicles  |          | An EPA report states that, "Vehicle<br>speed observed ranged from 25 to<br>45 mph (with an average of 35<br>mph) during the evacuation." (ref. 3)     | Paved roads: 40 mph<br>Improved roads: 30 mph<br>Adverse weather<br>conditions: 5 mph |
| 28. NLANES | Number of lanes available   |  |          | Credit was not taken for sending<br>persons down both sides of the<br>road except at WNP-1, -2 & -4<br>where this is done each day at<br>shift change | 1, 2  |
| 29. NRSEC  | Number assigned to the road<br>segment which intersects with the<br>ZNRD and LINK | Necessary for the computer to construct the mathematical tree                  |          |   | See Figure 2  |

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 TABLE 1
 INPUTS TO CLEAR COMPUTER MODEL Cont'd.

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| Mile                 | 1 | 2 | 3 | 4  | 5  | 6   | 7   | 8   | 9   | 10   | 15    | 20    | 25     | 30     | 35     | 40     | 45     | 50     | <br>TOTAL |
|----------------------|---|---|---|----|----|-----|-----|-----|-----|------|-------|-------|--------|--------|--------|--------|--------|--------|-----------|
| Sector N             |   |   |   |    |    |     |     | 6   | 10  | 10   | 138   | 194   | 675    | 826    | 454    | 526    | 2904   | 14968  | 20711     |
| NNE                  |   |   |   |    |    | 5   | 8   | 10  | 30  | 30   | 136   | 192   | 481    | 5278   | 732    | 2466   | 423    | 470    | 10261     |
| NE                   |   |   |   |    | 10 | 15  | 20  | 45  | 30  | 45   | 166   | 233   | 430    | 1585   | 355    | 295    | 130    | 796    | 4155      |
| ENE                  |   |   |   | 10 | 12 | 10  | 14  | 10  | 25  | 55   | 184   | 608   | 296    | 1421   | 90     | 331    | 100    | 113    | 3279      |
| E                    |   |   |   |    | 22 | 55  | 60  | 10  | 10  |      | 192   | 269   | 68     | 83     | 59     | 6,9    | 114    | 127    | 1138      |
| ESE                  |   |   |   |    | 22 | 20  | 35  | 43  | 45  | 25   | 80    | 112   | 69     | 84     | 77     | 90     | 280    | 584    | 1566      |
| SE                   |   |   | _ |    | 4  | 5   | 50  | 60  | 40  | 35   | 547   | 3608  | 2762   | 3376   | 215    | 249    | 984    | 1100   | 13035     |
| SSE                  |   |   |   |    |    |     | 10  | 10  | 10  | 15   | 7588  | 41590 | 22902  | 1214   | 275    | 317    | 821    | 919    | 75671     |
| S                    |   |   |   |    |    |     |     |     |     | 50   | 25922 | 3021  | 84     | 103    | 567    | 4113   | 2050   | 14490  | 50400     |
| SSW                  |   |   |   |    |    |     |     |     | 135 | 100  | 1298  | 294   | 393    | 482    | 42     | 214    | 164    | 2446   | <br>5568  |
| sw                   |   |   |   |    |    |     |     |     | 25  |      | 494   | 2612  | 875    | 5290   | 219    | 254    | 199    | 222    | 10190     |
| wsw                  |   |   |   |    |    |     | -   |     |     |      | 396   | 654   | 732    | 894    | 4478   | 17393  | 382    | 427    | 25256     |
| w                    |   |   |   |    |    |     |     |     |     |      |       |       | 536    | 655    | 1660   | 1918   | 6077   | 12438  | 23284     |
| WNW                  |   |   |   |    |    |     |     |     |     |      |       |       | 83     | 102    | 649    | 750    | 822    | 920    | 3326      |
| NW                   |   |   |   |    |    |     |     |     |     |      |       |       | 18     | 22     | 187    | 516    | 383    | 429    | 1555      |
| NNW                  |   |   |   |    |    |     |     |     |     |      |       |       | 82     | 100    | 318    | 1257   | 251    | 281    | <br>2289  |
|                      | [ |   | · | -  |    |     |     |     |     |      |       |       |        |        |        |        |        |        | <br>      |
| Total                |   |   |   | 10 | 70 | 110 | 197 | 194 | 360 | 365  | 37141 | 53287 | 30486  | 21515  | 10377  | 30758  | 16084  | 50730  | 251684    |
| <b>A</b>             |   |   |   |    |    |     |     |     |     |      |       |       |        |        |        |        |        |        |           |
| Accumulated<br>Total |   |   |   | 10 | 80 | 190 | 387 | 581 | 941 | 1306 | 38447 | 91734 | 122220 | 143735 | 154112 | 184870 | 200956 | 251684 |           |

TABLE 2 PERMANENT POPULATION DISTRIBUTION

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| Mila                 | 1    | 2 | 3 | 4    | 5    | 6    | 7    | 8    | 9     | 10    | 15    | 20    | 25 | 30 | 35 | 40 | 45 | 50 | TOTAL |
|----------------------|------|---|---|------|------|------|------|------|-------|-------|-------|-------|----|----|----|----|----|----|-------|
| Sector N             |      |   |   |      |      |      | 30   | 10   | 15    | 20    |       |       |    |    |    |    |    |    | 75    |
| NNE                  |      |   |   |      | 75   | 20   | 20   | 35   | 40    | 45 `  |       |       |    |    |    |    |    |    | 235   |
| NE                   |      |   |   | 400  | 10   | 30   | 35   | 35   | 40    | 45    | 1     |       |    |    |    |    |    |    | 595   |
| ENE                  |      |   |   | 150  | 20   | 30   | 35   | 35   | 40    | 45    |       |       |    |    |    |    |    |    | 355   |
| E                    |      |   |   | 25   | 25   | 30   | 35   | 35   | 40    | 45    |       |       |    |    |    |    |    |    | 235   |
| ESE                  | 2400 |   |   | 25   | 20   | 30   | 30   | 35   | 40    | 45    |       |       |    |    |    |    |    |    | 2625  |
| SE                   |      |   |   |      | 25   | 30   | 30   | 35   | 40    | 45    |       |       |    |    |    |    |    | -  | 205   |
| SSE                  |      |   |   |      |      |      | 75   | 2918 | 2016  | 2509  |       |       |    |    |    |    |    |    | 7518  |
| S                    |      |   |   |      |      |      |      |      | 750   |       |       |       |    |    |    |    |    |    | 750   |
| ssw                  |      |   |   |      |      |      |      |      |       |       |       |       |    |    |    |    |    |    |       |
| sw                   |      |   |   | 1187 |      |      |      |      |       |       |       |       |    |    |    |    |    |    | 1187  |
| wsw                  |      |   |   |      |      |      |      |      |       | -     |       |       |    |    |    |    |    |    |       |
| w                    |      |   |   |      |      |      |      |      |       |       |       |       | -  |    |    |    |    |    |       |
| WNW                  | 525  |   |   |      |      |      |      |      |       |       | 1779  | 1361  |    |    |    |    |    |    | 3665  |
| NW                   |      |   |   |      |      |      |      |      |       |       |       | 993   |    |    |    |    |    |    | 993   |
| NNW                  |      |   |   |      |      |      |      |      |       |       |       |       |    |    |    |    |    |    |       |
|                      |      |   |   |      |      |      |      |      |       |       |       |       |    |    |    |    |    |    |       |
| Total                | 2925 |   |   | 1787 | 175  | 170  | 290  | 3138 | 3021  | 2799  | 1779  | 2354  |    |    |    |    |    |    | 18438 |
| Accumulated<br>Total | 2925 |   |   | 4712 | 4887 | 5057 | 5347 | 8485 | 11506 | 14305 | 16084 | 18438 |    |    |    |    |    |    |       |

## TABLE 3 TRANSIENT POPULATION DISTRIBUTION





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| Mile        | 1 | 2 | 3 | 4 | 5 | 6 | 7             | 8   | 9 | 10 | TOTAL |
|-------------|---|---|---|---|---|---|---------------|-----|---|----|-------|
| Sector N    |   |   |   |   |   |   |               |     |   | ır |       |
| NNE         |   |   |   |   |   |   |               |     |   |    |       |
| NE          |   |   |   |   |   |   |               |     |   |    |       |
| ENE         |   |   |   |   |   |   |               |     | • |    |       |
| E           |   |   |   |   |   |   |               |     |   | 1  |       |
| ESE         |   |   |   |   |   |   | 250           |     |   |    | 250   |
| SE          |   |   |   |   | × |   | 50            | 50  |   |    | 100   |
| SSE         |   |   |   |   |   |   |               |     |   |    |       |
| S           |   |   |   |   |   |   |               |     |   |    | •     |
| SSW         | * |   | • |   | - |   |               |     |   |    |       |
| sw          |   |   |   |   |   |   |               |     |   |    | 1     |
| wsw         |   |   |   |   |   |   |               |     |   |    |       |
| w           |   |   |   |   |   |   |               |     |   |    |       |
| WNW         |   |   |   |   |   |   |               |     |   |    |       |
| NW          |   |   |   |   | - |   |               |     |   |    |       |
| NNW         |   |   |   |   |   |   |               |     |   |    |       |
|             |   |   |   |   |   |   |               |     |   |    |       |
| Total       |   |   |   |   |   |   | 300           | 50  |   |    | 350   |
| Accumulated |   |   |   |   |   |   |               |     |   |    |       |
| Total       |   |   |   |   |   |   | 30 <u>,</u> 0 | 350 |   |    |       |

TABLE 4 SPECIAL FACILITY POPULATION DISTRIBUTION



| Mile                 | 1           | 2 | 3 | 4    | 5    | 6    | 7    | 8                 | 9     | 10    | 15    | 20     | 25     | 30     | 35     | 40     | 45     | 50     | <br>TOTAL  |
|----------------------|-------------|---|---|------|------|------|------|-------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|------------|
| Sector N             |             |   |   |      |      |      | 30   | 16                | 25    | 30    | 138   | 194    | 675    | 826    | 454    | 526    | 2904   | 14968  | <br>20786  |
| NNE                  |             |   |   |      | 75   | 25   | 28   | 45                | 70    | 75    | 136   | 192    | 481    | 5278   | 732    | 2466   | 423    | 470    | <br>10496  |
| NE                   |             |   |   | 400  | 20   | 45   | 55   | 80                | 70    | 90    | 166   | 233    | 430    | 1585   | 355    | 295    | 130    | 796    | 4750       |
| ENE                  |             |   |   | 160  | 32   | 40   | 49   | 45                | 65    | 100   | 184   | 608    | 296    | 1421   | 90     | 331    | 100    | 113    | 3634       |
| E                    |             |   |   | 25   | 47   | 85   | 95   | 45                | 50    | 45    | 192   | 269    | 68     | 83     | 59     | 69     | 114    | 127    | <br>1373   |
| ESE                  | 2400        |   |   | 25   | 42   | 50   | 315  | 78                | 85    | 70    | 80    | 112    | 69     | 84     | 77     | 90     | 280    | 584    | 4441       |
| SE                   |             |   |   |      | 29   | 35   | 130  | 145               | 80    | 80    | 547   | 3608   | 2762   | .3376  | 215    | 249    | 984    | 1100   | <br>13340  |
| SSE                  |             |   |   |      |      |      | 85   | 2928 ·            | 2026  | 2524  | 7588  | 41590  | 22902  | 1214   | 275    | 317    | 821    | 919    | 83189      |
| S                    |             |   |   |      |      |      |      |                   | 750   | 50    | 25922 | 3021   | 84     | 103    | 567    | 4113   | 2050   | 14490  | 51150      |
| ssw                  |             |   |   |      |      |      |      |                   | 135   | 100   | 1298  | 294    | 393    | 482    | 42     | 214    | 164    | 2446   | 5568       |
| sw                   | ·           |   |   | 1187 |      |      |      |                   | 25    |       | 494   | 2612   | 875    | 5290   | 219    | 254    | 199    | 222    | <br>11377  |
| - WSW                |             |   |   |      |      |      |      |                   |       |       | 396   | 554    | 732    | 894    | 4478   | 17393  | 382    | 427    | <br>25256  |
| w                    |             |   |   |      |      |      |      |                   |       |       |       |        | 536    | 655    | 1660   | 1918   | 6077   | 12438  | 23284      |
| WNW                  | 525         |   |   |      |      |      |      |                   |       | -     | 1779  | 1361   | 83     | 102    | 649    | 750    | 822    | 920    | <br>6991   |
| NW                   |             |   |   |      |      |      |      |                   |       |       |       | 993    | 18     | 22     | 187    | 516    | 383    | 429    | 2548       |
| NNW                  |             |   |   |      |      |      |      |                   |       |       |       |        | 82     | 100    | 318    | 1257   | 251    | 281    | 2289       |
|                      |             |   |   |      |      |      |      |                   |       |       |       |        |        |        |        |        |        |        |            |
| Total                | 2925        |   |   | 1797 | 245  | 280  | 787  | 3382              | 3381  | 3164  | 38920 | 55641  | 30486  | 21515  | 10377  | 30758  | 16084  | 50730  | <br>270472 |
| Accumulated<br>Total | <b>2925</b> |   |   | 4722 | 4967 | 5247 | 6034 | <sup>.</sup> 9416 | 12797 | 15961 | 54881 | 111422 | 141008 | 162523 | 172900 | 203658 | 219742 | 270472 |            |

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TABLE 5 MAXIMUM POPULATION DISTRIBUTION

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|  | ł,                  | 1        |      |      |  |  |   |   |  |                                |  |                              |                      |                              |                  |  |  |  |  |  |   |  |
|--|---------------------|----------|------|------|--|--|---|---|--|--------------------------------|--|------------------------------|----------------------|------------------------------|------------------|--|--|--|--|--|---|--|
|  | Loca-<br>tion<br>in | Sector   | Trea | ZONE | ZNRD<br>(Road<br>Segment)  | LINK   | LEN<br>(Leogth)<br>METERS   | RADIS<br>(Radies)<br>MILES                                | NOMVEL<br>(Nominal<br>Velocity)<br>MPH   | NLANES<br>(Number<br>of Lanes) | NRSEC<br>(Inter-<br>secting<br>Road)   | Loca-<br>tion<br>in<br>Miles | Sector               | Tree                         | ZONE             | ZNRD<br>(Road<br>Segment)  | LINK   | LEN<br>(Length)<br>METERS  | RADIS<br>(Radies)<br>MILES   | NOMVEL<br>(Nominal<br>Velocity)<br>MPH   | NLANES<br>(Number<br>of Lanes)  | NRSEC<br>(Inter-<br>secting<br>Road)                                   |
|  | ) [                 | ADŔANT I |      |      |  |  |   |   |  |                                |  |                              |                      | AN                           | ILI              |  |  |  | L  | <b>.</b>   | •   |  |
|  | 5-10                | N        |      | 1    | 1<br>2<br>3<br>4   | 3<br>3<br>6<br>16  | 1500<br>2000<br>3000<br>1500  | 8<br>8<br>10<br>10  | 30<br>30<br>30<br>30<br>30<br>30   | 1<br>1<br>1                    | 2<br>1<br>5<br>-   | 2-5                          | E                    |                              | 1                | 1<br>2<br>3<br>4   | 3399   | 3500<br>1500<br>3500<br>3000   | 5<br>6<br>6<br>6   | 30<br>40<br>40<br>40   | 1<br>1<br>1   | 2<br>1<br>4<br>3   |
|  |                     |          | 4    |      | 5<br>6<br>7<br>8   | 6<br>8<br>16<br>16   | 3000<br>2500<br>1500<br>1500  | 10<br>10<br>10<br>10                                      | 40<br>30<br>40<br>30<br>30<br>30<br>30<br>30<br>40                                     | 1<br>1<br>1                    | 39   | 5-10                         | E                    | 7                            | 2                | 5<br>6<br>7<br>8   | 10<br>8<br>8<br>11   | 4000<br>4000<br>1000<br>2000   | 7<br>9<br>9  | 30<br>30<br>30<br>30   | 1<br>1<br>1   | 9<br>7<br>6<br>10  |
|  | 5-10                | 10 NNE   |      | 2    | 9<br>10<br>11<br>12<br>13  | 8<br>15<br>13<br>13<br>15  | 3500<br>3500<br>3500<br>7000<br>1500  | 10<br>10<br>9<br>9<br>10                                  |  | 1<br>1<br>1<br>1               | 6<br>13<br>12<br>11<br>10  | 2-5                          | ESE                  |                              | 1                | 9<br>10<br>11<br>1   | 10<br>11<br>12<br>3  | 1500<br>3500<br>1500<br>1500   | 7<br>9<br>10<br>5  | 40<br>40<br>40<br>40   | 1<br>1<br>1   | 5<br>8<br><br>2  |
|  |                     |          |      |      | 14<br>15   | 16<br>16   | 500<br>500<br>1000  | 10<br>10  | 40<br>40   | 1                              | -  | -                            |                      |                              | —                | 2  | 3 7  | 1500<br>1500   | 5  | 30<br>40   | 1   | 1 4  |
|  |                     | NE       |      | 1    | 1<br>2<br>3  | 2<br>4<br>4  | 4000<br>5000<br>2500  | 5<br>7<br>7   | 40<br>40<br>40   | 1<br>1<br>1                    | -<br>3<br>2  |                              |                      |                              |                  | 4<br>5<br>6<br>7   | 7<br>9<br>9<br>14  | 1500<br>3500<br>2000<br>2000   | 7<br>9<br>7<br>8<br>9<br>7<br>8<br>9<br>10<br>8<br>9<br>7<br>9<br>10<br>10<br>10 | 40<br>40<br>30<br>40   | 1<br>1<br>1   | 3<br>6<br>5<br>10  |
|  |                     | NE       | 5    | 2    | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17 | 15<br>7<br>7<br>18<br>18<br>18<br>12<br>12<br>14<br>14<br>14<br>18<br>18<br>15<br>18 | 4500<br>2000<br>1500<br>3500<br>1500<br>1500<br>2000<br>3000<br>2000<br>500<br>3000<br>4000<br>5000 | 9<br>8<br>10<br>10<br>9<br>9<br>10<br>10<br>10<br>9<br>10 | 40<br>40<br>30<br>40<br>30<br>40<br>30<br>40<br>30<br>40<br>30<br>40<br>30<br>30<br>30 |                                | $ \begin{array}{c} 16\\ 6\\ 5\\ -\\ -\\ 11\\ 10\\ 13\\ 12\\ -\\ -\\ 4\\ -\\ 4\\ -\\ 4\\ -\\ -\\ 4\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\$ | 5-10                         | ESE                  | 8                            | 2                | 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20         | 12<br>13<br>14<br>12<br>13<br>44<br>24<br>18<br>24<br>18<br>44<br>29<br>44       | 2500<br>2500<br>1000<br>1500<br>2500<br>2000<br>1500<br>1500                                     |  | 30<br>30<br>40<br>40<br>40<br>40<br>30<br>30<br>30<br>30<br>30<br>30             |   | 11<br>12<br>7<br>8<br>9<br>  |
|  | 2-5                 | ENE      |      | 1    | 1<br>2   | 3<br>3   | 3 2500 5 40 1 2   |   |  |                                |  | 21<br>22<br>23<br>24         | 30<br>25<br>28<br>25 | 6000<br>2000<br>2000<br>1500 | 7<br>8<br>8<br>8 | 40<br>30<br>30<br>40   | 1<br>1<br>1<br>1   | 26<br>24<br>21<br>22   |  |  |   |  |
|  | 5-10                | ENE      | 6    | 2    | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15        | 6<br>7<br>6<br>7<br>16<br>12<br>11<br>11<br>12<br>15<br>15<br>16<br>16               | 1000<br>4000<br>1500<br>3500<br>3500<br>2500<br>1000<br>1500<br>3500<br>1500<br>500                 | 6<br>7<br>6<br>7<br>9<br>9<br>9<br>10<br>10<br>10         | 40<br>30<br>40<br>40<br>40<br>30<br>30<br>30<br>40<br>40<br>40                         |                                | 5<br>6<br>3<br>4<br>11<br>10<br>9<br>8<br>13<br>12<br>-  | 5-10                         | SE                   |                              | 3                | 25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38 | 26<br>31<br>26<br>31<br>30<br>44<br>36<br>44<br>36<br>44<br>38<br>38<br>44<br>44 | 1000<br>1000<br>3500<br>3500<br>500<br>2000<br>500<br>3500<br>2000<br>3000<br>2000<br>500<br>500 | 8<br>9<br>10<br>10<br>9<br>10<br>9<br>10<br>10<br>10<br>10                       | 40<br>40<br>30<br>40<br>30<br>40<br>30<br>30<br>30<br>30<br>30<br>40<br>30<br>40 | * 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 27<br>28<br>25<br>26<br>19<br><br>33<br><br>31<br><br>35<br>35<br><br> |
|  |                     |          |      |      |  |  |   |   |  |                                |  | 5-10                         | SSE                  |                              | 4                | 39<br>40<br>41<br>42<br>43   | 41<br>41<br>44<br>44<br>44   | 3500<br>5500<br>2500<br>3500<br>500  | 8<br>8<br>10<br>10<br>10   | 40<br>30<br>40<br>30<br>30   | 1<br>1<br>1<br>1<br>1   | 40<br>39<br><br>   |

**TABLE 6 ROADWAY CHARACTERISTICS** 

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| ,T<br>Loca-<br>tion<br>in<br>Miles | Sector | Tree | ZONE  | ZNRD<br>(Road<br>Segment)              |                           | LEN<br>(Length)<br>METERS                                | RADIS<br>(Radius)<br>MILES           | NOMVEL<br>(Nominal<br>Velocity)<br>MPH       | NLANES<br>(Number<br>of Lanes)  | NRSEC<br>(Inter-<br>secting<br>Road) | Loca-<br>tion<br>in<br>Miles | Sector | Tree | ZONE | ZNRD<br>(Road<br>Segment) | LINK        | LEN<br>(Length)<br>METERS | (Radius)       | NOMVEL<br>(Nominal<br>Velocity) | NOMVEL<br>(Nomisel<br>Velocity)<br>MPH | (later-     |  |
|------------------------------------|--------|------|-------|--|---------------------------|--|--------------------------------------|--|---------------------------------|--------------------------------------|------------------------------|--------|------|------|---------------------------|-------------|---------------------------|----------------|---------------------------------|--|-------------|--|
|                                    | AD     | RAN  | IT II | I                                      |                           |  |                                      |  |                                 | QUADRANT III Cont'd.                 |                              |        |      |      |                           |             |                           |                |                                 |  |             |  |
|                                    | [      |      | 1.    |  | 5                         | 500  | 1                                    | 40   | 2                               | 4                                    | 5-10                         | SSE    | 2    | 1    | 1                         | 2           | 3500                      | 10             | 40                              | 2                                      | —           |  |
| 0-2                                | -      |      |       | 2<br>3<br>4<br>5                       | 3<br>6<br>5<br>10         | 1000<br>1500<br>1500<br>3000                             | 1<br>2<br>1<br>2                     | 40<br>- 40<br>- 40<br>- 40<br>- 40           | 2<br>2<br>2<br>2                | 7<br>1<br>9                          | 5-10                         | s      | 3    | 1    | 1<br>2<br>3               | 3<br>3<br>5 | 1500<br>1500<br>2000      | 10<br>10<br>10 | 30<br>30<br>30                  | 1<br>1<br>1                            | 2<br>1<br>4 |  |
|                                    |        |      |       | 6<br>7                                 | 9<br>6                    | 2000<br>4000   | 2<br>2                               | 40<br>40                                     | 2<br>2                          | 8<br>3                               | 5-10                         | ssw    |      | 2    | 4<br>5                    | 58          | 5000<br>500               | 10<br>10       | 30<br>30                        | 1                                      | 3           |  |
| 2-5                                | ssw    | 1    | 2     | 8<br>9<br>10<br>14<br>15               | 9<br>10<br>11<br>16<br>16 | 2000,<br>500`<br>5500<br>4500<br>5500                    | 3<br>5<br>5<br>5                     | 40<br>40<br>40<br>40<br>40                   | 1<br>2<br>2<br>1<br>1           | 6<br>5<br>                           |                              |        |      |      | 6<br>7                    | 8           | 6000<br>3500              | 10<br>10       | 40<br>40                        | 1                                      | -           |  |
| 5-10                               | SSE    |      | 3     | 11<br>12<br>13<br>16<br>17<br>18<br>19 |                           | 6000<br>8000<br>2500<br>6000<br>10,000<br>14,000<br>4500 | 8<br>9<br>10<br>8<br>10,<br>10<br>10 | 40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 | 2<br>1<br>2<br>1<br>2<br>2<br>1 | 12<br>11<br><br><br>                 |                              |        |      |      |                           |             |                           |                |                                 |  |             |  |

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TABLE 6 ROADWAY CHARACTERISTICS Cont'd.

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|--|-----------|------|---------|---------|---------------------------------------|----------|-----------------------|--------|--------|--|--|--|--|--|--|
| DESCRIPTION  | TOTAL ··· |      | AREAS V | 5 MILES | · · · · · · · · · · · · · · · · · · · | ļ /      | AREAS WITHIN 10 MILES |        |        |  |  |  |  |  |  |
|  | 2 MILES   | I    | П       | ш       | TOTAL                                 | I        | П                     | ш      | TOTAL  |  |  |  |  |  |  |
| PERMANENT POPULATION   |           | 32   | 48      | -       | 80                                    | 410      | 586                   | 310    | 1,306  |  |  |  |  |  |  |
| PERMANENT POPULATION VEHICLES  | -         | 10   | 15      | -       | 25                                    | 137      | 194                   | 103    | 434    |  |  |  |  |  |  |
| TRANSIENT POPULATION   | 2,925     | 655  | 120     | 4,112   | 4,887                                 | 1,260    | 740                   | 12,355 | 14,355 |  |  |  |  |  |  |
| TRANSIENT POPULATION VEHICLES  | 1,950     | 218  | 40      | 2,741   | 2,999                                 | 420      | 247                   | 8,220  | 8,887  |  |  |  |  |  |  |
| GENERAL POPULATION   | 2,925     | 687  | 168     | 4,112   | 4,967                                 | 1,670    | .1,326                | 12,665 | 15,661 |  |  |  |  |  |  |
| TOTAL VEHICLES   | 1,950     | 228  | 55      | 2,741   | 3,024                                 | 557      | 441                   | 8,323  | 9,321  |  |  |  |  |  |  |
| NOTIFICATION TIME MINUTES  | 15        | 30   | 30      | 30      | 30                                    | 30       | 30                    | 30     | 30     |  |  |  |  |  |  |
| PERMANENT POPULATION EVAC.<br>TIME NORMAL CONDITIONS<br>HOURS MINUTES  | -         | :50  | 1:00    |         | 1:00                                  | 1:00     | 1:10                  | 1:00   | 1:10   |  |  |  |  |  |  |
| GENERAL POPULATION EVAC.<br>TIME NORMAL CONDITIONS<br>HOURS MINUTES    | 1:00      | 1:00 | 1:00    | :50     | <b>1:00</b>                           | 1:20     | 1:20                  | 1:00   | 1:20   |  |  |  |  |  |  |
| PERMANENT POPULATION EVAC.<br>TIME ADVERSE CONDITIONS<br>HOURS MINUTES | _         | :50  | 1:00 ·  |         | 1:00                                  | 2:50     | 3:20                  | 1:00   | 3:20   |  |  |  |  |  |  |
| GENERAL POPULATION EVAC.<br>TIME ADVERSE CONDITIONS<br>HOURS MINUTES   | 2:00      | 1:00 | 1:00    | 3:40    | 3:40                                  | 2:50     | 3:30                  | 5:00   | 5:00   |  |  |  |  |  |  |
| CONFIRMATION TIME MINUTES  | 30        | 60   | 60      | 60      | . 60                                  | 60       | 60                    | 60     | 60     |  |  |  |  |  |  |

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## TABLE 7 SUMMARY OF RESULTS OF EVACUATION TIMES ANALYSIS

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Rev. 1 9/82

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This attachment is a copy of the CLEAR Computer Code(1) as modified to meet Supply System needs.

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| 11       | mrinimm | MMMMM |    | MM | 1 | М    | MMMMM | HM  | M  | M | mmm |    | MMM | М | MM  | M  | М  |   | н | MAN | 1 |    | н  | M  | 1 |
|----------|---------|-------|----|----|---|------|-------|-----|----|---|-----|----|-----|---|-----|----|----|---|---|-----|---|----|----|----|---|
| М        | Н.,     | М     |    | М  | М | M "  | M     | М   | M  | М | н   |    | М   | М | М   | H  | 11 | 1 | H | H   | H |    | MM | MM | 1 |
| М        | М       | н     |    | М  |   | М    | M     | М   | Н  | М | н   |    | м   | H | M   | М  | H  | H | H | H   | H |    | HI |    | - |
| М        | mmmm    | MMMM  |    | м  |   | М    | MMMM  | MMM | MH | M | MMM |    | MMM | м | HHH | MM | H  | H | H | H   | M |    | М  |    | - |
| 11       | М       | М     |    | М  |   | М    | М     | м   | М  | М | М   |    | H H |   | M   |    |    |   | H |     | H |    |    | H  |   |
| н        | М       | М     | MM | М  | М | М    | M     | н   | H  | M | М   | ММ | M   | M | й   |    | M  |   | H |     | M | MM | M  | M  |   |
| 11111111 | mmmmm   | MMMMM | ММ | MM | 1 | мммм | MMMMM | H   | H  | M | М   | MH | М   | п | H   | H  | H  |   | M | MHH | 1 | нн | н  | н  | 1 |

LABEL: PRTOOS -FORM PRC -COPIES 1

SPOOLED: 09/23/81 09:39 STARTED: 09/23/81 09:43, ON: MLC BY: PRC

PRINTED ON COMPANION PRINTER PRC

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С SINSERT SYSCOMOKEYS, F \$INSERT SYSCOM>ERRD. F SINSERT SYSCOMDAGKEYS С ()% C С DECLARATION OF VARIABLES. INTEGER \*2 TYPE, CODE, EPZ, EX INTEGER. #2 ITIME(15) **(**: IMPLICIT INTEGER (D) С С LABELLED COMMON: C COMMON /LCOM/ DIST(30,6000), DISRAN(30,6000), DISLOD(30,6000), \$DISBAC(30, 6000), DISTOT(30, 6000), ZNRDT(30, 6000) С C DISBAC- DISTANCE FOR VEH TO REACH LINK FOR NBAC C DISLOD- DISTANCE FOR VEH TO REACH LINK FOR NLOD С DISRAN- DISTANCE FOR VEH TO REACH LINK FOR NRAN C DIST - DISTANCE FOR VEH TO REACH LINK FOR ZNRD С DISTOT- DISTANCE FOR VEH TO REACH LINK FOR NTOT С ZNRDT - FLAGS PROCESSING OF A VEHICLE FOR EACH DELT C REAL FRACT, PERLEN, PERCP, FREFLO, POPZN, LENRDS, EVL С С FRACT. .. FRACTION OF POP LEAVING WITHIN . 25\*MAXDEP C PERLEN. . . PERCENTAGE OF ZONE ROAD'S LENGTH PERCP.... PERCENTAGE OF GREEN LIGHT CONDITION C FREFLO. . . FREE FLOW RATE IN AUTOS PER DELT-LANE-METER (; POPZN.... POPULATION PLACEHOLDER FOR A ZONE С LENRDS... TOTAL LENGTH OF ROADS IN ZONE С EVL..... EFFECTIVE VEHICLE LENGTH OF AUTO AT MIN. SPEED INTEGER\*4 TIME, ITL, KTL, BTL INTEGER\*4 KIMIN, KIHOUR, KIONE G. . . . . INTEGER \*2 M, J, N, K, A, B, C, I, EX, EPZ, TYP, ZTWO, ZFIV, ZTEN, ZEPZ, FLORAT, \$POP, POPVEH, LGCODE, POPTWO, POPFIV, MAXDEP, DELT, SAVET, INT, ISTG, LE \$NSTG, POPSTG, CAPVM, CAPNR, CAPLK, GREEN, PERAD, LU, INTPOP, POPEPZ, POPTEN C: C. A... COUNTER OR PLACEHOLDER C B...COUNTER OR PLACEHOLDER G C... COUNTER OR PLACEHOLDER С CAPLK. . CAPACITY FOR ROAD'S LINK ¢ CAPNR. CAPACITY FOR ROAD'S INTERSECTING ROAD C: CAPVM...CAPACITY FOR A ROAD BEING PROCESSED C; DELT... UNIT OF TIME FOR SIMILTANEOUS EVACUATION C EPZ...FIRST RADIAL DISTANCE MILE OUTSIDE EPZ EX. . NUMBER ASSIGNED TO THE DUMMY EXIT ROAD (: C. FLORAT. . INPUT VEHICLES PER HOUR-LANE-MILE C GREEN. . COUNTER FOR GREEN LIGHT CONDITION С I... COUNTER OR PLACEHOLDER INT... INTEGER COUNTER USED TO INCREMENT TIME INTPOP. . INITIAL VEHICLE POPULATION AT TIME= ISTG... NUM OF INDEPENDENT SPECIAL TRAFFIC GENERATOR

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с. С INTEGER \*4 LEN(145)

INTEGER \*2 ZNRD(23,145), POPRD(145), RADIS(145), POPRAD(21), NLANES(1
\$79), NRSEC(145), NOMVEL(145), VEL(145), VMOTO(145), LDT(145), NRDS(23), Q
\$FL(145), LINK(145), RANP(200), GROAD(145), NRAN(200), FLRAN(145), NLOD(2
\$00), FLLOD(145), NBAC(200), FLBAC(145), NTOT(200), FLTOT(145)
INTEGER \*2 FILNAM(16)
C....

MAXDEP., MAXIMUM TIME OF DEPARTURE (MIN=\*DELT)

N... IDENTIFIER FOR SPECIFIC VEHICLE NUMBERS

POP... POPULATION PLACEHOLDER FOR A ROAD

POPFIV. POPULATION IN FIVE MILE RADIUS

POPTEN. . POPULATION IN TEN MILE RADIUS

POPTWO. . POPULATION IN TWO MILE RADIUS

TYP., PRINT OUTPUT ONCE EVERY TYP\*DELT

ZEPZ. HIGHEST ZONE NUMBER WITHIN EPZ

POPVEH... POPULATION NUMBER PER VEHICLE

LGCODE.... MODELS RANDOM SAMPLE (/LGCODE) OF TOTAL POP

PERAD., NUMBER OF VEHICLES FOR GREEN LIGHT CONDITION

SAVET ... SAVES OR STORES VALUE OF DELT DURING LOOP

TIME.... CUMMULATIVE TIME FROM BEGINNING OF EVAC

ZFIV. HIGHEST ZONE NUMBER IN FIVE MILE RADIUS

ZTEN. HIGHEST ZONE NUMBER IN TEN MILE RADIUS ZTWO. HIGHEST ZONE NUMBER IN TWO MILE RADIUS

J... IDENTIFIER FOR ROAD NUMBERS

M. . . IDENTIFIER FOR ZONE NUMBERS

POPEPZ., POPULATION WITHIN THE EPZ

POPSTG. . POPULATION FORMING STG

PVSTG. . . POPVEH FOR STG

LENSTG., LENGTH FOR STG TO NEXT LINK

K., COUNTER OR PLACEHOLDER

LU.... OUTPUT PRINTING CODE

FLBAC(145), FLAGS NBAC EXISTS (. NE. 0) FLLOD(145)., FLAGS THAT NLOD EXISTS (.NE. 0) FLRAN(145). FLAGS THAT NRAN EXISTS (. NE. 0) FLTOT(145).. FLAGS NTOT EXISTS (.NE. 0) LDT(145). FLAGS LOADING FOR EACH DELT LEN(145). LENGTH OF ROAD ZNRD(M, J) LINK(145).. NEXT ROAD BEYOND ZNRD(M, J) IN PATH NBAC(200). . NUMBER OF VEHICLES IN BACK UP QUEUE NLANES(145)...NUMBER OF LANES ON ZNRD(M, J) NLOD(200), NUMBER OF VEHICLES IN LOADING QUEUE NOMVEL(145). NOMINAL VELOCITY OF ZNRD(M, J) NRAN(200). NUMBER OF VEHICLES IN RANDOM QUEUE NRDS(23). NUMBER OF ROADS IN A ZONE NRSEC(145). O OR ROAD# INTERSECTING WITH ZNRD NTOT (200) .. NUMBER OF VEHS IN LOAD & BACK QUEUE POPRAD(21). POPULATION BY RADIAL DISTANCE POPRD(145), POPULATION OF A ROAD ZNRD(M, J) QFL(145), FLAGS BACK UP QUEUE FOR EACH ROAD QRDAD(145), REFERS TO A SPECIFIC ROAD'S QUEUE RADIS(145)..RADIAL DISTANCE OF ZNRD(M, J) RANP(200).. USED TO RELIST VEH FOR IRND SELECT VEL(145). ACTUAL VELOCITY OF TRAVEL ON ROAD VMOTO(145). NUMBER OF MOVING VEHICLES ON ROAD



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\*\*\* C ZNRD(23,145). REFERENCES ZONE M, ROAD J Ç, BEGIN PROGRAM c С \*\*\*\*\* CHECK \*\*\*\*\* С KIONE=1 KIMIN=3600 KIHOUR=60 ()\*\*\*\*\*\* CALL THE SYSTEM TIMER BEFORE BEGINNING С CALL TIMDAT (ITIME, 15) PRINT 960, (ITIME(I), I=1, 10) CALL TNOU (' TYPE IN THE NAME OF YOUR INPUT FILE (37) READ (1,710) (FILNAM(I), I=1,16) PRINT 720, (FILNAM(I), I=1, 16) С OPEN DATA FILE. CALL SRCH\$\$ (K\$READ, FILNAM, 16, 1, TYPE, CODE) C\*\*\*\*DELETE OLD OUTPUT FILE\*\*\*\* CALL SRCH\$\$ (K\$DELE, 'CLEAR. OUT', 9, 2, TYPE, CODE) CALL SRCH\$\$ (K\$WRIT, 'CLEAR. OUT', 9, 2, TYPE, CODE) WRITE(6,705)FILNAM, (ITIME(I), I=1,3) WRITE (6,960) (ITIME(I), I=1,10) С  $\langle :$ READ IN INFORMATION CONCERNING TIME, POPULATION, AND OUTPUT. READ (5,730) LU, DELT, TYP, FRACT, MAXDEP, POPVEH, LGCODE, FLORAT, EVL 1 , VELZ PRINT HEADINGS \*\*\*\*\* CHECK \*\*\*\*\* WRITE (LU, 740) LU, DELT, TYP, FRACT, MAXDEP, POPVEH, LGCODE, FLORAT, EVL 1 , VELZ С C. DETERMINE FREFLO FROM FLORAT. FREFLO = FLOAT(FLORAT)/(3600.0\*FLOAT(LGCODE)) С С ADJUST POPVEH TO FIT RANDOM SAMPLE OR LARGE CODE. POPVEH = POPVEH\*LQCODEċ С ADJUST EFFECTIVE VEHICLE LENGTH TO FIT RANDOM SAMPLE. EVL = EVL\*FLOAT(LGCODE)1 С С READ INFORMATION ON ZONES. READ (5,750) ZTWO, ZFIV, ZTEN, ZEPZ, ISTG, EX, EPZ C. C \*\*\*\*\* CHECK \*\*\*\*\* WRITE (LU, 760) ZTWO, ZFIV, ZTEN, ZEPZ, ISTG, EX, EPZ С ASSIGN EACH VEHICLE ON ALL ROADS A LOADING POSITION BY EQUALLY C (: DISTRIBUTING THE POPULATION IN GROUPS OF POP. VEH PER VEHICLE C ALONG THE ROADWAY SECTION PROPORTIONAL TO THEIR LENGTH. THE FIRST VEHICLE IS ASSIGNED TO THE BEGINNING OF THE ROADWAY AND С EACH VEHICLE THEREAFTER AN INCREMENTAL DISTANCE AWAY. C PROCESS EACH ROAD IN THE 24 ZONES COMPOSED OF EIGHT EQUAL SECTORS DIVIDED AT THE TWO AND FIVE MILE MARK.

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M = 0С ZONE 25 INCLUDES ALL AREAS AND ROADS OUTSIDE 10 MILE RADIUS. 10 IF (M. GT. ZEPZ) GO TO 100 M = M+1J = 0READ (5,770) POPZN, NRDS(M), LENRDS С C \*\*\*\*\* CHECK \*\*\*\*\* WRITE (LU, 780) M, POPZN, NRDS(M), LENRDS С 20 IF (J. EQ. NRDS(M)) GO TO 90 J = J+1READ (5,790) ZNRD(M, J), LINK(ZNRD(M, J)), LEN(ZNRD(M, J)), RADIS(ZNRD(M \$, J) >, NOMVEL (ZNRD(M, J) >, NLANES (ZNRD(M, J) ), NRSEC (ZNRD(M, J) ) С \*\*\*\*\* CHECK \*\*\*\*\* С WRITE (LU, 800) ZNRD(M, J), LINK(ZNRD(M, J)), LEN(ZNRD(M, J)), RADIS(ZNRD \$(M, J)), NOMVEL(ZNRD(M, J)), NLANES(ZNRD(M, J)), NRSEC(ZNRD(M, J)) С С CHANGE VELOCITY FROM MILES/HOUR TO METERS/SECOND. NOMVEL(ZNRD(M, J)) = (FLOAT(NOMVEL(ZNRD(M, J)))\*, 447)С INITIALLY, THERE ARE NO TRAFFIC JAMS OR QUEUES ON THE С ROADS, SET FLAGS TO ZERO. С QFL(ZNRD(M, J)) = 0С С INITIALLY, NO ROADS HAVE BEEN LOADED. FLAG LDT KEEPS С RECORD OF THIS - (LDT=1: LOADED LDT=0: NOT LOADED) LDT(ZNRD(M, J)) = 0INITIALLY, VELOCITY OF TRAVEL ON ROAD IS EQUAL TO THE ROAD'S NOMINAL VELOCITY. С VEL(ZNRD(M, J)) = NOMVEL(ZNRD(M, J))С С INITIALIZE ARRAYS TO ZERO TO START. QROAD(ZNRD(M, J)) = ZNRD(M, J)NRAN(ZNRD(M, J)) = 0FLRAN(ZNRD(M, J)) = 0NLOD(ZNRD(M, J)) = 0FLLOD(ZNRD(M, J)) = 0NBAC(ZNRD(M, J)) = 0FLBAC(ZNRD(M, J)) = 0NTOT(ZNRD(M, J)) = 0FLTOT(ZNRD(M, J)) = 0С IF (M. GT. ZEPZ) GD TD 100 С PERLEN = FLOAT(LEN(ZNRD(M, J)))/LENRDS POPRD(ZNRD(M, J)) = PERLEN\*POPZNС С MAKE NRAN ROUNDUP BY ADDING POPVEH-1 TO POPULATION. NRAN(ZNRD(M, J)) = (POPRD(ZNRD(M, J))+(POPVEH-1))/POPVEHPOPRD(ZNRD(M, J)) = NRAN(ZNRD(M, J)) \* POPVEHINCDIS = LEN(ZNRD(M, J))/NRAN(ZNRD(M, J)) WRITE(LU, 299) POPRD(ZNRD(M, J)), NRAN(ZNRD(M, J)), INCDIS

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299
                      FORMAT(' POPRD= ', 18, ' NRAN= ', 18, ' INCDIS= ', 18)
С
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¢:
             RANDOMLY ASSIGN THE NRAN VEHICLES A LOADING POSITION ON
             ROADWAY ZNRD(M, J) AND PUT THEM IN A QUEUE QROAD(ZNRD(M, J))
C
       A = 0
   30 IF (A. GE. NRAN(ZNRD(M, J))) GO TO 40
       A = A+1
      RANP(A) = A
       GO TO 30
   40 CONTINUE
С
      K = NRAN(ZNRD(M, J))
      N' = 0
   50 IF (N. GE. NRAN(ZNRD(M, J))) GO TO 80
      N = N+1
С
(:
                FLAG NRAN.
С
                FLRAN(ZNRD(M, J))=1
C
С
                RANDOMLY SELECT A NUMBER I FROM ZERO TO NRAN-1.
С
      A = IRND(K)
        IKAL=0
        A=IRND(IKAL)
71
        IF(A. LT. K) GOTO 72
        A=A/10
        GOTO 71
72
      A = A+1
      I = RANP(A)
      DISRAN(QROAD(ZNRD(M, J)), N) = LEN(ZNRD(M, J)) - (INCDIS*(I-1))
                INITIALLY, NO VEHICLES HAVE BEEN PROCESSED, SET
a
            . 'FLAG TO ZERO.
      ZNRDT(ZNRD(M, J), N) = 0
C٠
С
                REMOVE NUMBER I FROM BEING PROCESSED AGAIN BY
C
                RELISTING REMAINING NUMBERS.
      B = A
   50 IF (B.GE.K) GO TO 70
      RANP(B) = RANP(B+1)
      B = B+1
      GO TO 60
   70 CONTINUE
C
      K = K-1
С
      GO TO 50
   80 CONTINUE
С
      GO-TO 20
   90 CONTINUE
С
      GD TO 10
  JOO CONTINUE
€.
      ADD INDEPENDENT SPECIAL TRAFFIC GENERATORS TO CORRESPONDING
      RGADS. THE ADDITIONAL VEHICLES WILL BE PUT ON THE END OF THE
      EXISTING NRAN LIST.
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110 IF (ISTG, EQ. 0) GO TO 130
C.
        - READ IN INDEPENDENT SPECIAL TRAFFIC GENERATOR INFORMATION.
С
      READ (5,810) ZNRD(M, J), LENSTG, POPSTG, PVSTG
C
         *** CHECK ***
      WRITE (LU, 820) ZNRD(M, J), LENSTG, POPSTG, PVSTG
С
С
         DETERMINE AND ADD NUMBER OF VEHICLES TO NRAN LIST.
      A = (POPSTG+(PVSTG-1))/PVSTG
      I1 = (NRAN(ZNRD(M, J))+1)
      I2 = (NRAN(ZNRD(M, J)) + A)
      DO 120 B=I1, I2
        DISRAN(QROAD(ZNRD(M, J)), B) = LENSTG
C
  120 CONTINUE
C.
      NRAN(ZNRD(M, J)) = NRAN(ZNRD(M, J)) + A
      POPRD(ZNRD(M, J)) = POPRD(ZNRD(M, J)) + (A*POPVEH)
      ISTG = ISTG-1
      .GO TO 110
  130 CONTINUE
С
С
      INITIALIZE INTEGER INT USED TO INCREMENT TIME.
      INT = 0.
      TIME = 0
      C = 0
С
      SAVE THE VALUE OF DELT IN SAVET BECAUSE DELT MAY BE REDUCED
      BY THE AMOUNT OF TIME NECESSARY FOR A VEHICLE TO REACH THE
      LINKING ROAD AT THE ROAD'S VELOCITY OF TRAVEL.
                                                        SAVET WILL
      RESTORE DELT ORIGINAL VALUE AT THE END OF EACH VEHICLE LOOP.
      SAVET = DELT
Ċ,
¢:
      PRINT INITIAL POPULATION STATISTICS.
      GO TO 420
С
С
      MAIN LOOP - STOPPING CONDITION WHEN POPULATION IS TOTALLY
      EVACUATED.
С
  140 IF (POPEPZ, EQ. 0) GO TO 690
C
С
         INCREMENT TIME
      TIME = INTL(INT)*INTL(DELT)
С
с.
         EXECUTE THE EVACUATION MOVEMENT ONE ZONE, GNE ROAD, AND ONE
C
         POPULATION GROUP IN A VEHICLE AT A TIME.
      M = 0
  150 IF (M. EQ. ZEPZ) GO TO 380
      M = M+1
      \mathbf{J} = \mathbf{0}
С
  160 IF (J.EQ. NRDS(M)) GO TO 370
      J = J+1
С
                LOAD THE LOADING QUEUE OF THE LINK OF ZNRD(M, J) IF
                IT HAS NOT ALREADY BEEN LOADED FOR THIS DELT AND SET
                UP A TOTAL LIST OF QUEUED VEHICLES BY COMBINING THE
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|---|-------------|---|
|   | С           | LOADING QUEUE AND BACKUP QUEUE.<br>IF (LDT(LINK(ZNRD(M,J))).NE.0) GO TO 180   |
|   | 0000        | LOAD THE QUEUE ONLY IF THERE IS AN EVACUATING<br>POPULATION SCHEDULED TO LEAVE DURING THIS DELT.<br>IF (TIME.GT.INTL(MAXDEP)) GO TO 170<br>USE SUBROUTINE LOAD<br>INDEX = LINK(ZNRD(M,J))<br>CALL LOAD (INDEX, DELT, TIME, FRACT, POPVEH, QROAD(INDEX), NRAN(INDEX), N  |
|   | C<br>C      | <pre>\$LOD(INDEX), FLLOD(INDEX), MAXDEP, POPRD(INDEX)) FLAG LINK AS HAVING BEEN LOADED FOR THIS DELT. LDT(LINK(ZNRD(M,J))) = 1 170 CONTINUE</pre>   |
|   | C<br>C      | B = LEN(LINK(ZNRD(M, J))) * NLANES(LINK(ZNRD(M, J)))  |
|   | 00000       | IF THERE IS ROOM ON THE ROAD, PLACE VEHICLES ON THE<br>ROADWAY LINK FROM THE TOTAL QUEUE LIST. DELETE<br>VEHICLES FROM QUEUES IF PLACED ON LINK'S LIST OF<br>MOVING VEHICLES. USE SUBROUTINE PLACE.<br>CALL PLACE (INDEX, VMOTO(INDEX), GROAD(INDEX), NLOD(INDEX), FLLOD(INDE<br>\$X), NBAC(INDEX), FLBAC(INDEX), NTOT(INDEX), FLTOT(INDEX), B, LEN(INDEX),<br>\$EVL) |
|   | с<br>С      | DETERMINE VELOCITY OF TRAVEL ON LINK. USE   |
|   | С           | SUBROUTINE VELCP.<br>CALL VELCP (NLANES(INDEX),NOMVEL(INDEX),VMOTO(INDEX),VEL(INDEX),LE<br>\$N(INDEX),FREFLO,VELZ)  |
|   | с<br>с      | 180 CONTINUE  |
|   | 0000        | LOAD THE LOADING QUEUE FOR ROAD ZNRD(M,J) IF IT HAS<br>NOT ALREADY BEEN LOADED FOR THIS DELT AND SET UP A<br>TOTAL LIST OF QUEUED VEHICLES BY COMBINING THE LOADING<br>QUEUE AND BACKUP QUEUE.<br>IF (LDT(ZNRD(M,J)) NE.0) GO TO 200  |
|   | 000,0       | LOAD THE QUEUE ONLY IF THERE IS AN EVACUATING<br>POPULATION SCHEDULED TO LEAVE DURING THIS DELT.<br>IF (TIME.GT.INTL(MAXDEP)) GO TO 190   |
| X | C           | USE SUBROUTINE LOAD<br>CALL LOAD (ZNRD(M, J), DELT, TIME, FRACT, POPVEH, QROAD(ZNRD(M, J)), NRAN(<br>\$ZNRD(M, J)), NLOD(ZNRD(M, J)), FLLOD(ZNRD(M, J)), MAXDEP, POPRD(ZNRD(M, J)<br>\$))   |
| - | 0<br>0<br>0 | FLAG ROAD AS HAVING BEEN LOADED FOR THIS DELT.<br>LDT(ZNRD(M,J)) = 1<br>190 CONTINUE  |
|   | c<br>C      | B = LEN(ZNRD(M, J)) * NLANES(ZNRD(M, J))  |
|   |             | IF THERE IS ROOM ON THE ROAD, PLACE VEHICLES ONTO<br>ROADWAY FROM TOTAL QUEUE LIST. DELETE VEHICLES<br>FROM QUEUES IF PLACED IN ROAD'S LIST OF MOVING<br>VEHICLES. USE SUBROUTINE PLACE.  |

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CALL PLACE (ZNRD(M, J), VMOTO(ZNRD(M, J)), QROAD(ZNRD(M, J)), NLOD(ZNRD(
     $M, J)), FLLOD(ZNRD(M, J)), NBAC(ZNRD(M, J)), FLBAC(ZNRD(M, J)), NTOT(ZNRD(
     $M, J)), FLTOT(ZNRD(M, J)), B, LEN(ZNRD(M, J)), EVL)
C:
                   DETERMINE VELOCITY OF TRAVEL ON ROAD.
                                                            USE
С
                   SUBROUTINE VELCP.
      CALL VELCP (NLANES(ZNRD(M, J)), NONVEL(ZNRD(M, J)), VMOTO(ZNRD(M, J)), V
     $EL(ZNRD(M, J)), LEN(ZNRD(M, J)), FREFLO, VELZ)
C
  200 CONTINUE
С
С
                CHECK IF ZNRD(M, J) INTERSECTS WITH ANY OTHER ROADS
С
                AT ITS LINK. IF SO, DETERMINE THE PERCENTAGE OF
С
                GREEN LIGHT TIME, PERCP, GIVEN TO ZNRD(M, J) AND THE
C.
                CORRESPONDING NUMBER OF VEHICLES TO ADVANCE.
      IF (NRSEC(ZNRD(M, J)), EG. 0) GO TO 210
      IF (ZNRDT(NRSEC(ZNRD(M, J)), 1). EQ. 0) GO TO 230
С
  210 CONTINUE
C.
           .
C
                   THERE IS NO INTERSECTING ROAD OR THE OTHER
C
                   INTERSECTING ROAD HAS ALREADY BEEN PROCESSED
C
                   AND USED ITS SHARE OF THE LINKS CAPACITY.
  220 PERAD = 9999
      GREEN = -9999
С
С
                   *** CHECK ***
C.
                   WRITE(LU, 673) ZNRD(M, J), NRSEC(ZNRD(M, J))
С
      673
                           FORMAT(' +INTERSECTION HAS A GREEN LIGHT '
      Х
                               'CONDITION FOR ROAD= ', 14,
      X
                                INTERSECTING WITH NRSEC= (, 14)
      GO TO 250
  230 CONTINUE
C
С
                THERE IS AN INTERSECTING ROAD AND IT HAS NOT BEEN
С
                                          DETERMINE THE NUMBER OF
                PROCESSED FOR THIS DELT.
C
                VEHICLES THAT COULD ADVANCE, PERAD, BY THE PERCENTAGE
С
                OF VEHICLES IN MOTION ON THE TWO ROADS.
      IF ((VMOTO(NRSEC(ZNRD(M, J))).GT.O).AND.(VMOTO(ZNRD(M, J)).GT.O))
     $ GO TO 240
      GO TO 220
  240 CONTINUE
C
G
                DETERMINE CAPACITIES ON ROAD, INTERSECT, AND LINK.
      CAPVM = (FREFLO*FLOAT(NLANES(ZNRD(M, J)))*FLOAT(LEN(ZNRD(M, J))))/
     $FLOAT(VEL(ZNRD(M, J)))
      CAPNR = (FREFLO*FLOAT(NLANES(NRSEC(ZNRD(M, J))))*FLOAT(LEN(NRSEC))
     $(ZNRD(M, J))))/FLOAT(VEL(NRSEC(ZNRD(M, J))))
      CAPLK = (FREFLO*FLOAT(NLANES(LINK(ZNRD(M, J))))*FLOAT(LEN(LINK(ZNRD
     $(M, J))))/FLOAT(VEL(LINK(ZNRD(M, J))))
С
C
               CALCULATE THE MOVING VEHICLE VERSUS CAPACITY
c
               RELATIONSHIP FOR THE ROAD AND THE INTERSECTING ROAD
C
                IN ORDER, TO DETERMINE THE PERCENTAGE OF AVAILABLE
               OPENINGS ASSIGNED TO THE ROAD'S MOVING VEHICLES.
      PERCP = (FLOAT(VMOTO(ZNRD(M, J)))/FLOAT(CAPVM))/((FLOAT(VMOTO(NRSEC
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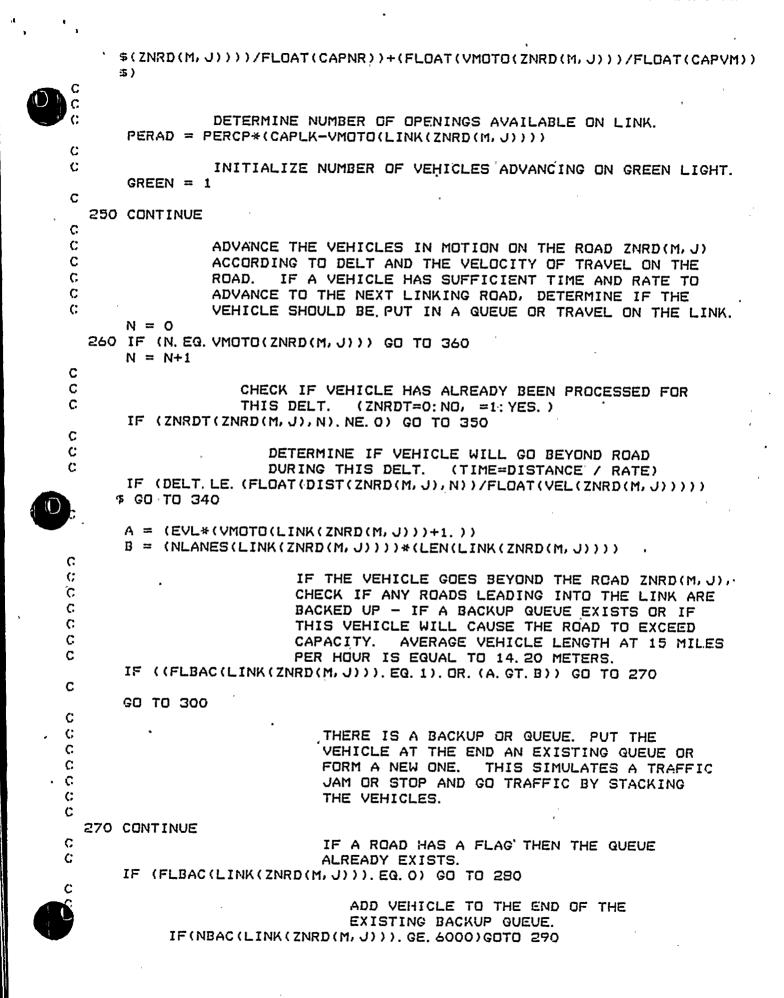
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NBAC(LINK(ZNRD(M, J))) = NBAC(LINK(ZNRD(M, J)))+1
      GO TO 290
  280 CONTINUE
С
                               START A QUEUE AS VEHICLES IN MOTION BE-
C
                               GIN. TO EXCEED ROAD'S SPACE LIMITATIONS.
      NBAC(LINK(ZNRD(M, J))) = 1
      FLBAC(LINK(ZNRD(M, J))) = 1
  290 CONTINUE
С
С
                            SET VEHICLES DISTANCE IN BACKUP QUEUE.
      DISBAC(QRDAD(LINK(ZNRD(M, J))), NBAC(LINK(ZNRD(M, J)))) = LEN(LINK)
     (ZNRD(M, J)) + 2
С
      GO TO 310
  300 CONTINUE
. C
C
                         DETERMINE IF THIS VEHICLE SHOULD BE ADVANCED
С
                         UNDER GREEN LIGHT CONDITIONS.
      IF (GREEN. GT. PERAD) GO TO 270
      GREEN = GREEN+1
С
C
                         THE PATH INTO THE LINK IS CLEAR AND THE
С
                         VEHICLE GOES BEYOND THE ROAD ONTO THE NEXT
                         ROAD, ITS LINK.
                                          DETERMINE DELT REMAINING.
С
      DELT = DELT - (FLOAT(DIST(ZNRD(M, J), N))/FLOAT(VEL(ZNRD(M, J))))
С
                         ADD THE NEW VEHICLE TO THE LINK'S LIST OF
С
                         MOVING VEHICLES.
С
      VMOTO(LINK(ZNRD(M, J))) = VMOTO(LINK(ZNRD(M, J)))+1
                       I BECOMES NEXT MOVING VEHICLE IN, LINK.
С
      I = VMOTO(LINK(ZNRD(M, J)))
С
                        DETERMINE POSITION OF VEHICLE I ON LINK.
C
      DIST(LINK(ZNRD(M, J)), I) = LEN(LINK(ZNRD(M, J)))-(DELT*VEL(LINK(ZNRD
     $(M, J))))
C
С
                        FLAG THIS VEHICLE SO THAT IT WILL NOT BE
С
                        PROCESSED AGAIN FOR THIS DELT.
      ZNRDT(LINK(ZNRD(M, J)), I) = 1
                        RETURN DELT TO ORIGINAL VALUE.
(:
      DELT = SAVET
C
  310 CONTINUE
С
                     SINCE THE VEHICLE PASSED BEYOND THE ROAD INTO
C
С
                      ITS LINK, RELIST ALL OTHER MOVING VEHICLES ON THE
¢
                     ROAD SEQUENTIALLY.
      A = N
  320 IF (A. EQ. VMOTO(ZNRD(M, J))) GO TO 330
      С
      DIST(ZNRD(M, J), A) = DIST(ZNRD(M, J), A+1)
      ZNRDT(ZNRD(M, J), A) = ZNRDT(ZNRD(M, J), A+1)
      A = A+1
      GO TO 320
  330 CONTINUE
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C:
       VMOTO(ZNRD(M, J)) = VMOTO(ZNRD(M, J)) - 1
      N = N-1
       GO TO 350
  340 CONTINUE
С
С
                    THE MOVING VEHICLE STAYS WITHIN THE ROAD
Ç.
                    ZNRD(M, J) DURING DELT. DETERMINE ITS NEW POSITION
C
                    ON THE ROADWAY.
       DIST(ZNRD(M, J), N) = DIST(ZNRD(M, J), N) - (DELT*VEL(ZNRD(M, J)))
       ZNRDT(ZNRD(M, J), N) = 1
  350 CONTINUE
С
       GO TO 260
  360 CONTINUE
С
С
             REEVALUATE VELOCITY OF TRAVEL ON ROAD ZNRD(M, J) USING THE
С
             SUBROUTINE VELCP.
      CALL VELCP (NLANES(ZNRD(M, J)), NOMVEL(ZNRD(M, J)), VMOTO(ZNRD(M, J)), V
     $EL(ZNRD(M, J)), LEN(ZNRD(M, J)), FREFLO, VELZ)
С
      GO TO 160
  370 CONTINUE
С
      GO TO 150
  380 CONTINUE
С
t:
      INITIALIZE FLAGS TO ZERO SINCE THIS DELT HAS BEEN COMPLETED.
      DO 410 M=1, ZEPZ
C.
С
          PULL LOADING FLAGS FROM ALL ROADS.
         I1 = NRDS(M)
         DO 400 J=1, I1
           LDT(ZNRD(M, J)) = 0
C
С
             PULL PROCESS FLAGS FROM ALL VEHICLES.
           I2 = VMOTO(ZNRD(M, J))
           DO 390 N=1, I2
             ZNRDT(ZNRD(M, J), N) = 0
С
  390
           CONTINUE
  400
        CONTINUE
  410 CONTINUE
С
      INCREMENT TIME USING INTEGER INT.
С
  420 \text{ INT} = \text{INT}+1
      C = C+1
С
С
      PRINT OUTPUT ONCE EVERY FIVE MINUTES.
      IF ((C. NE. TYP). AND. (POPEPZ. NE. 0)) GO TO 680
      C = 0
С
С
      CLEAR DUMMY EXIT ROAD OF VEHICLES.
      VMOTO(EX) = 0
      CALCULATE TIME IN HOURS, MINUTES, AND SECONDS.
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KTL = TIME
      ITL = 0
      BTL = 0
C
  430 IF (KTL. LT. KIMIN) GO TO 440
      KTL = KTL-KIMIN
      ITL = ITL+KIONE
      GD TD 430
  440 CONTINUE
С
  450 IF (KTL. LT. KIHOUR) GO TO 460
      KTL = KTL-KIHOUR
      BTL = BTL+KIONE
      GD TD 450
  460 CONTINUE
С
C
      PRINT INITIAL VEHICLE POPULATION.
      WRITE (LU, 830) INTPOP
С
C
      PRINT PRESENT TIME.
      WRITE (LU, 840) TIME, ITL, BTL, KTL
С
С
      INITIALIZE POPULATION BY RADIAL DISTANCE TO ZERO.
      DO 470 A=1, EPZ
        POPRAD(A) = 0
  470 CONTINUE
С
С
      PRINT POPULATION ON EACH ROAD SEGMENT IN THE ZTWO
      NUMBER OF ZONES BETWEEN THE ORIGIN AND THE TWO MILE RADIUS
C
      AND DETERMINE THE POPULATION IN TWO MILE RADIUS.
      POPTWO = 0
      POPZN = 0
      M = 0
  480 IF (M. EQ. ZTWO) GO TO 520
      M = M+1
      J = 0
C.
  490 IF (J. EQ. NRDS(M)) GD TD 510
      J = J+1
      POP = (NRAN(ZNRD(M, J))+NLOD(ZNRD(M, J))+NBAC(ZNRD(M, J))+VMOTO(ZNRD)
     $(M, J))
      IF (POP. EQ. 0) GO TO 500
      WRITE (LU, 850) M, ZNRD(M, J), POP, NRAN(ZNRD(M, J)), NLOD(ZNRD(M, J)),
     $NBAC(ZNRD(M, J)), VMOTO(ZNRD(M, J))
  500 POPZN = POPZN+POP
      POPRAD(RADIS(ZNRD(M, J))) = POPRAD(RADIS(ZNRD(M, J)))+POP
      GO TO 490
  510 CONTINUE
С
      WRITE (1,860) M, POPZN
      WRITE (LU, 860) M, POPZN
      POPTWO = POPTWO+POPZN
      POPZN = 0
      GO TO 480
  520 CONTINUE
      WRITE (LU, 870) POPTWO
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С
 C
                PRINT THE POPULATION OF EACH ROAD SEGMENT IN THE ZFIV
 C
                NUMBER OF ZONES BETWEEN THE TWO AND FIVE MILE RADIUS
 С
                AND DETERMINE THE POPULATION IN THE FIVE MILE RADIUS.
                POPFIV = POPTWO
      530 IF (M. EQ. ZFIV) GO TO 570
                M = M+1
                J = 0
 С
      540 IF (J. EQ. NRDS(M)) GO TO 560
                J = J+1
                POP = (NRAN(ZNRD(M, J)) + NLOD(ZNRD(M, J)) + NBAC(ZNRD(M, J)) + VMOTO(ZNRD(M, J)) + VMOTO(ZNM(M, J)) + VMOTO(ZNM
              $(M, J))
                IF (POP. EQ. 0) GO TO 550
                WRITE (LU, 850) M, ZNRD(M, J), POP, NRAN(ZNRD(M, J)), NLOD(ZNRD(M, J)),
              $NBAC(ZNRD(M, J)), VMOTO(ZNRD(M, J))
      550 POPZN = POPZN+POP
                POPRAD(RADIS(ZNRD(M, J))) = POPRAD(RADIS(ZNRD(M, J)))+POP
                GO TO 540
      550 CONTINUE
С
                WRITE (1,860) M, POPZN
                WRITE (LU, 860) M, POPZN
                POPFIV = POPFIV+POPZN
                POPZN = 0
                GO TO 530
      570 CONTINUE
С
               WRITE (LU, 880) POPFIV
               PRINT POPULATION OF EACH ROAD SEGMENT IN THE ZTEN
                ZONES BETWEEN THE FIVE AND TEN MILE RADIUS AND
C
C
               DETERMINE THE POPULATION IN THE TEN MILE RADIUS.
               POPTEN = POPFIV
     580 IF (M. EQ. ZTEN) GO TO 620
               M = M+1
                J = 0
С
     590 IF (J. EQ. NRDS(M)) GO TO 610
               J = J + i
               POP = (NRAN(ZNRD(M, J))+NLOD(ZNRD(M, J))+NBAC(ZNRD(M, J))+VMOTO(ZNRD
             $(M, J)))
                IF (POP. EQ. 0) GO TO 600
               WRITE (LU, 850) M, ZNRD(M, J), POP, NRAN(ZNRD(M, J)), NLOD(ZNRD(M, J)),
             $NBAC(ZNRD(M, J)), VMOTO(ZNRD(M, J))
     500 \text{ POPZN} = \text{POPZN+POP}
               POPRAD(RADIS(ZNRD(M, J))) = POPRAD(RADIS(ZNRD(M, J)))+POP
               GO TO 570
     610 CONTINUE
С
               WRITE (1,860) M, POPZN
               WRITE (LU, 860) M, POPZN
               POPTEN = POPTEN+IFIX(POPZN)
               POPZN = 0
               GO TO 580
      520 CONTINUE
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WRITE (LU, 890) POPTEN
С
      PRINT POPULATION OF EACH ROAD SEGMENT IN THE ZEPZ
С
      ZONES BETWEEN THE TEN MILE RADIUS AND THE BOUNDARIES
С
C
      FOR THE ENTIRE EPZ AND DETERMINE POPULATION IN THE EPZ.
      POPEPZ = POPTEN
  630 IF (M. EQ. ZEPZ) GO TO 660
      M = M+1
      J = 0
C
  640 IF (J. EQ. NRDS(M)) GO TO 650
      J = J+1
      POP = (NRAN(ZNRD(M, J))+NLOD(ZNRD(M, J))+NBAC(ZNRD(M, J))+VMOTO(ZNRD)
     $(M, J)))
      WRITE (LU, 850) M, ZNRD(M, J), POP, NRAN(ZNRD(M, J)), NLOD(ZNRD(M, J)),
     $NBAC(ZNRD(M, J)), VMOTO(ZNRD(M, J))
      POPZN = POPZN+POP
      POPRAD(RADIS(ZNRD(M, J))) = POPRAD(RADIS(ZNRD(M, J)))+POP
      GO TO 640
  650 CONTINUE
C
      WRITE (1,860) M, POPZN
      WRITE (LU, 860) M, POPZN
      POPEPZ = POPEPZ+POPZN
      POPZN = 0
      GD TD 630
  560 CONTINUE
С
      WRITE (LU, 900) POPEPZ
      IF (INT.EQ. 1) INTPOP = POPEPZ
С
    ***** WRITE THE PERCENT OF VEHECLES THAT HAVE BEEN EVACUATED SO FAR *
      IF(INT .GT. 1)PERPOP=(1-FLOAT(POPTEN)/FLOAT(INTPOP))*100.
      WRITE(LU, 905) PERPOP
      WRITE (LU, 910) INT
С
С
      PRINT POPULATION AS A FUNCTION OF RADIAL DISTANCE.
      WRITE (LU, 920) ITL, BTL, KTL
С
      IF (POPEPZ.LE.O) GO TO 690
      IF (INTPOP. LE. 0) GO TO 670
      DO 570 A=1, EPZ
        PERLEN = ((FLOAT(POPRAD(A))/FLOAT(POPEPZ))*100.0)
        PERCP = ((FLOAT(POPRAD(A))/FLOAT(INTPOP))*100.0)
        I1 = A - 1
        WRITE (LU, 930) I1, A, POPRAD(A), PERLEN, PERCP
  670 CONTINUE
С
С
      PRINT VEHICLES REMAINING AND NUMBER OF VEHICLES EXITED.
      A = INTPOP - POPTEN
      WRITE (LU, 940) POPTEN, A
С
      A = INTPOP - POPEPZ
      WRITE (LU, 950) POPEPZ, A
C.
      END OF MAIN LOOP
  680 CONTINUE
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С \* С GO TO 140 **690 CONTINUE** \*\*\*\* CALL THE SYSTEM TIMER FOR ENDING TIME \*\*\*\*\*\*\* CALL TIMDAT (ITIME, 15) PRINT 960, (ITIME(I), I=1, 10) WRITE (LU, 960) (ITIME(I), I=1, 10) CALL CLOS\$A (1) CALL CLOS\$A (2) CALL EXIT STOP C \*\*\*\*\* С C 705 FORMAT(' THIS IS A RUN MADE ON THE ', 16A2, ' COUNTY FILE ON DATE=', \$1X, 2(A2,, '/'), A2, 4X, 20(1H\*), ////) 710 FORMAT (16A2) 720 FORMAT (' INPUT FILE NAME IS ... ', 16A2) 730 FORMAT (11, 14, 13, F4. 2, 15, 12, 12, 15, F6. 2, F6. 2) 740 FORMAT (//, ' LU= ', I1, ' DELT= ', I4, ' TYP= ', I3, ' FRACT= ', F4. 2, ' M \$AXDEP= ', I5, ' POPVEH= ', I2, ' LGCODE= ', I2, ' FLORAT= ', I5, ' EVL= ', \$F6.2, V= ', F6.2) 750 FORMAT (13, 13, 13, 13, 13, 13, 13) 760 FORMAT (' ZTWO= ', 13, ' ZFIV= ', 13, ' ZTEN= ', 13, ' ZEPZ= ', 13, ' ISTG \$=`',I3,' EX= ',I3,' EPZ= ',I3) 770 FORMAT (F10. 0, I10, F10. 0) 780 FORMAT ( ' \*\*\*ZONE: ', I2, ' POPZN= ', F6. 0, ' NRDS= ', I2, ' LENRDS= ' \$, F7.0) 790 FORMAT (I10, I10, I10, I10, I10, I10, I10) 800 FORMAT (' ZNRD: ', I3, ' LINK= ', I3, ' LEN= ', I6, ' RADIS= ', I2, ' \$NOMVEL= ', I2, ' NLANES= ', I2, ' NRSEC= ', I3) 810 FORMAT (110, 110, 110, F10. 2) 820 FORMAT ( ' \*\*ISTG: ROAD= ', 13, ' LENSTG= ', 15, ' POPSTG= ', 15, ' PVS \$TG= ', F6. 2) 830 FORMAT (///, ' THE INITIAL VEHICLE POPULATION WAS = ', 19) 840 FORMAT (' TOTAL TIME ELAPSED=', 18, ' SECONDS OR ', 14, ' HOURS, ', 14, \$' MINUTES, AND ', 14, ' SECONDS. ') 850 FORMAT (' VEHICLE POPULATION OF ZONE=', 12, ' ROAD=', 13, ' IS EQUAL \$TO ', I5, 2X, ' QUEUES: NRAN= ', I4, ' NLOD= ', I3, ' NBAC= ', I4, ' VMO \$TO= ', I3) 850 FORMAT (16X, ' THE VEHICLE POPULATION IN ZONE=', 12, ' 13 ', 19) 870 FORMAT (4X, ' THE VEHICLE POPULATION IN THE TWO MILE RADIUS', ' IS ' \$,I7) SBO FORMAT (3X, ' THE VEHICLE POPULATION IN THE FIVE MILE RADIUS', ' IS \$1, I9) 990 FORMAT (6%, ' THE TOTAL VEHICLE POPULATION IN THE TEN MILE ', 'RADIU \$S = (, 15)900 FORMAT (6X, ' THE TOTAL VEHICLE POPULATION IN THE ENTIRE EPZ=', 17) 905 FORMAT(/, 6%, 'THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN  $\pm VACUATED = (F6, 2, (%', /))$ 910 FORMAT ( / \_\_\_\_\_ -----5--------', '------------', ī \$5) 920 FORMAT (/, ' VEHICLE POPULATION AS A FUNCTION OF RADIAL ', 'DISTANCE \$ AT TIME: ', I4, ' HOURS, ', I4, ' MINUTES, AND ', I4, ' SECONDS. ') 930 FORMAT (' RADIUS----', 12, '-TO-', 12, '---POPULATION= ', 15, ' \* THE % \$ OF REMAINING VEHICLES=', F6. 2, ' % \* ', ' THE % OF INITIAL VEHICLE

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C. \$S= 1, FS. 2, 1 % 1) 940 FORMAT (' ----TOTAL VEHICLE POPULATION WITHIN TEN MILES= ',, I5, \$' ---VEHICLE POPULATION OUTSIDE TEN MILES= ', I5, ' ---·5------ ( ) 750 FORMAT ( ' -----TOTAL VEHICLE POPULATION WITHIN EPZ= ', I5, ' --#-VEHICLE POPULATION OUTSIDE EPZ= ', I5, ' ------', '-------\$----/) 950 FORMAT ('1',////, T5, 'DATE: ', 2(A2, '/'), A2, //, T5, 'TIME (MIN, SEC, TIC \$KS): ', 2(13, ': '), 13, /, T5, 'CPU TIME (SEC, TICKS): ', 14, ': ', 13, /, T5, \$'DISK I/O (SEC, TICKS): ', 14, ': ', 13, //, T5, '( 330 TICKS/SECOND )') END SUBROUTINE LOAD (ROAD, DELT, TIME, FRACT, POPVEH, GROAD, NRAN, NLOD, FLLOD \$, MAXDEP, PCPRD) C **(;** AN INTERNAL PROCEDURE LOAD LOADS STATIONARY VEHICLES INTO THE LOADING QUEUE FOR THE ROADWAY PARAMETERIZED. C . С С DECLARATION OF VARIABLES. С IMPLICIT INTEGER (D) C С LABELLED COMMON: С COMMON /LCOM/ DIST(30,6000), DISRAN(30,6000), DISLOD(30,6000), \$DISBAC(30,6000),DISTOT(30,6000),ZNRDT(30,6000) С REAL VEHLD(145) С NUMBER OF VEH LOADING IN THIS DELT REAL FRACT =FRACT INTEGER A(145) COUNTER FOR VEHICLES ORIGINAL POS. (: INTEGER\*4 TIME INTEGER \*2 MAXDEP, POPVEH, POPRD, I, ROAD, NRAN, NLOD, FLLOD, QROAD С C FLLOD=FLLOD(ROAD) I= C REPRESENTS VEHICLE NUMBER С NLOD=NLOD(ROAD) С NRAN=NRAN(ROAD) C. POPRD=POPRD(ROAD) С QRDAD=QRDAD ROAD=REPRESENTS ROAD PARAMETER EXCHANGED С C. INITIALIZE VEHICLE LOADING ARRAY TO ZERO AT THE START. IF (TIME, NE, INTL(DELT)) GO TO 10 VEHLD(ROAD) = 0.0A(ROAD) = 010 CONTINUE С DETERMINE THE PERCENTAGE OF THE POPULATION AND THE C C CORRESPONDING NUMBER OF VEHICLES THAT SHOULD BE LOADED С DURING DELT ACCORDING TO THE LOADING FUNCTION. С IF (((MAXDEP\*0.5), GE. TIME), OR. (TIME. GT. (MAXDEP\*0.75))) GO TO 20 C IF ((INTL(MAXDEP\*0.5).GE.TIME).OR.(TIME.GT.INTL(MAXDEP\*0.75))) 1 GO TO 20 VEHLD(ROAD) = ((((1, -FRACT)\*FLOAT(DELT))/(FLOAT(MAXDEP)\*, 5))\*

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$(FLOAT(POPRD)/FLOAT(POPVEH)))+VEHLD(ROAD)
С
С
   20 CONTINUE
С
       IF ((TIME. LE. (MAXDEP*, 25)). OR. ((TIME. GT. (MAXDEP*, 5)). AND. (TIME. LE.
С
C
     $(MAXDEP*.75))) GO TO 30
C. . . .
      IF ((TIME. LE. INTL(MAXDEP*. 25)), OR. ((TIME. GT. INTL(MAXDEP*, 5)), AND.
      1
          (TIME, LE, INTL(MAXDEP*, 75)))) GOTO30
C.....
       VEHLD(ROAD) = ((((1, -FRACT)*FLOAT(DELT))/FLOAT(MAXDEP))*(FLOAT
     $(POPRD)/FLOAT(POPVEH)))+VEHLD(ROAD)
С
C
   30 CONTINUE
С
      IF (TIME. GT. INTL(MAXDEP*, 25)) GO TO 40
      VEHLD(ROAD) = (((FRACT*FLOAT(DELT))/(.25*FLOAT(MAXDEP)))*(FLOAT
     $(POPRD)/FLOAT(POPVEH)))+VEHLD(ROAD)
С
С
   40 CONTINUE
С
С
С
          IN AN EFFORT TO AVOID ROUND-OFF ERROR, REDUCE REQUIREMENT
C
         TO LOAD VEHICLE WHEN NRAN IS EQUAL TO THE LAST VEHICLE.
   50 IF (NRAN, NE. 1) GO TO 60
                                                                               13.
      IF (VEHLD(ROAD). LT. 0. 699) GO TO 100
      GO TO 70
   60 CONTINUE
С
С
         LOAD THE VEHICLES INTO THE LOADING QUEUE IN ORDER FROM
С
         RANDOMLY ORDERED QUEUE NRAN FOR THIS DELT.
      IF (VEHLD(ROAD), LT. 1,'0) GO TO 100
С
   70 CONTINUE
С
      I = NLOD+1
      A(ROAD) = A(ROAD)+1
С
C٠
      IF (NRAN. EQ. 0) GO TO 90
      DISLOD(QROAD, I) = DISRAN(QROAD, A(ROAD))
С
      NRAN = NRAN - 1.
      NLOD = NLOD+1
С
С
                   IF THE VEHICLE IS THE FIRST ELEMENT IN THE
С
                   ROAD'S LOADING QUEUE, PUT A FLAG ON THE QUEUE.
      IF (NLOD. GT. 1) GO TO 80
      FLLOD = 1
   80 CONTINUE
                   WRITE(LU, 878) FLLOD
      878
                           FORMAT(' LOADR: FLLOD= ', I2)
```

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| ',<br>C<br>C | REDUCE VEHLD(ROAD) BY THE VEHICLE LOADED.  |
|--------------|--|
| C C          | VEHLD(ROAD) = VEHLD(ROAD)-1.0  |
|              | GD TD 50<br>90 CONTINUE<br>100 CONTINUE<br>RETURN  |
| C            | **************************************   |
| с            | SUBROUTINE PLACE (ROAD, VMOTO, QROAD, NLOD, FLLOD, NBAC, FLBAC, NTOT,<br>\$FLTOT, NLLEN, LEN, EVL)                                       |
| ,<br>0000    | AN INTERNAL PROCEDURE PLACE WILL DETERMINE IF A ROAD'S<br>CAPACITY IS FULL AND SET VEHICLES IN MOTION FROM THE COMBINED<br>LIST OF NTOT. |
| с<br>с       | DECLARATION OF VARIABLES.  |
| <i>(</i> 1)  | REAL EVL<br>Implicit integer (d)   |
| 0<br>0<br>0  | LABELLED COMMON:   |
|              | COMMON /LCOM/ DIST(30,6000),DISRAN(30,6000),DISLOD(30,6000),<br>\$DISBAC(30,6000),DISTOT(30,6000),ZNRDT(30,6000)                         |
| c            | INTEGER *4 LEN<br>INTEGER *2 A, B, C, I, ROAD, NLLEN, VMOTO, QROAD, NLOD, FLLOD, NBAC, FLBAC, N<br>\$TOT, FLTOT                          |
|              | ROADREPRESENTS ROAD PARAMETER<br>NLLENREPRESENTS ROAD LENGTH * NLANES<br>LENREPRESENTS ROAD LENGTH<br>VMOTO=VMOTO(ROAD)                  |
| 0<br>0<br>0  | SET UP A TOTAL LIST OF QUEUED VEHICLES TO BE PUT<br>ON THE ROAD BY COMBINING LOAD ON TOP OF BACKUP QUEUE.                                |
|              | NTOT = 0<br>IF (FLLOD.EQ.O) GO TO 30<br>I = 0  |
|              | 10 IF (I.EQ.NLOD) GO TO 20<br>I = I+1<br>NTOT = NTOT+1   |
| С            | DISTOT(QROAD, NTOT) = DISLOD(QROAD, I)   |
| С            | GD TO 10<br>20 CONTINUE  |
| С            | FLTOT = 1<br>GD TD 40<br>30 CONTINUE   |
| G            | FLTOT = 0<br>40 CONTINUE   |

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С
      IF (FLBAC. EQ. 0) GO TO 70
       I = 0
   50 IF (I.EQ. NBAC) GO TO 50
       I = I+1
      NTOT = NTOT+1
      DISTOT(QROAD, NTOT) = DISBAC(QROAD, I)
      GO TO 50
   60 CONTINUE
С
      FLTOT = 1
С
      IF (FLLOD. EQ. 1) GO TO 70
      NTOT = NBAC
      GO TO 80
   70 CONTINUE
C.
      NTOT = NLOD+NBAC
   80 CONTINUE
С
   90 CONTINUE
С
         CHECK THE CAPACITY OF THE LENGTH OF THE ROAD.
С
                                                          AS LONG AS
C:
         THERE IS ROOM ON THE ROAD AND VEHICLES IN NTOT, THEY WILL
¢.
         BE PLACED ON THE ROAD.
                                   IF THE LENGTH OF ALL VEHICLES ON THE
         ROAD PLUS THE NEW ONE IS LESS THAN THE LENGTH OF THE ROAD
C
С
         THEN IT WILL BE ADDED. AT 15 MILES PER HOUR AN AVERAGE
         VEHICLE OCCUPIES 14.20 METERS.
      A = 0
      B = 0
  100 IF ((FLTOT. EQ. 0). OR. (B. EQ. -1)) GO TO 170
      IF ((EVL*(VMOTO+1)), GT. NLLEN) GO TO 140
      VMOTO = VMOTO+1
      A = A+1
С
      IF (DISTOT(QROAD, A), GT. LEN) GO TO 110
      DIST(ROAD, VMOTO) = DIST(QROAD, A)
      ZNRDT(ROAD, VMOTO) = 0
      GO TO 120
  110 CONTINUE
С
      DIST(ROAD, VMOTO) = LEN
      ZNRDT(ROAD, VMOTO) = 1
  120 CONTINUE
      NTOT = NTOT-1
С
      IF (NTOT. GT. 0) GO TO 130
      FLTOT = 0
      NTOT = 0
      FLLOD = 0
      NLOD = 0
      FLBAC = 0
      NBAC = 0
      RETURN
```

С

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130 CONTINUE
С
      GD TD 130
  140 CONTINUE
C
      WRITE (1,260) ROAD
С
      II = A+1
      DO 150 C=II, NTOT
        IF (DIST(QROAD, C), LE. LEN) GO TO 150
        DIST(QROAD, C) = LEN
  150 CONTINUE
С
      B = -1
  150 CONTINUE
С
      GO TO 100
  170 CONTINUE
C
C
        DELETE PLACED VEHICLES FROM THE QUEUES THEY WERE ORIGINALLY
С
        IN. (EITHER NLOD OR NBAC.)
      IF (A. EQ. 0) GD TD 250
      B = NLOD-A
С
      IF (B. NE. 0) GO . TO 180
      FLLOD = 0
      NLOD = 0
      GO TO 230
  180 CONTINUE
      IF (B.GT.O) GO TO 190
      FLLOD = 0
      NLOD = 0
      NBAC = NBAC+B
      GO TO 240
  190 CONTINUE
Ç,
      IF (B. LT. 0) GO TO 220
      I = 0
  200 IF (I. GE. (NLOD-A)) GO TO 210
      DISLOD(QROAD, NLOD-A) = DISLOD(QROAD, NLOD)
      NLOD = NLOD-1
      GO TO 200
  210 CONTINUE
      NLOD = B
C:
  220 CONTINUE
С
 230 CONTINUE
С
 240 CONTINUE
С
 250 CONTINUE
С
     RETURN
```

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С C С 260 FORMAT(' \*\*\* ROAD', I4, ' IS FULL. \*\*') END SUBROUTINE VELCP (NLANES, NMVEL, VVMOTO, VVEL, VLEN, FREFLO, VELZ) С C AN INTERNAL PROCEDURE VELCP DETERMINES THE VELOCITY OF С TRAVEL ON A ROADWAY ACCORDING TO THE CAPACITY FUNCTION. C THEREFORE, CHECK IF THE NUMBER OF VEHICLES LOADING WILL С INCREASE THE ROAD'S VEHICLE POPULATION BEYOND THE ROAD'S С THE MINIMUM VELOCITY SET FOR NOMINAL LOADING CAPACITY. C. A ROAD IS STOP AND GO TRAFFIC AT 15.0 MILES PER HOUR. С 15.0 MI/HR IS EQUAL TO MINVEL IN METERS PER SECOND. С С DECLARATION OF VARIABLES. С REAL MM С SLOPE OF THE VELOCITY CAPACITY FUNCTION REAL Ż С TIMES CAPACITY DETERMINES CHANGE FROM VELOCITY C A FREE FLOW TO VELOCITY LESS THAN FREE FLOW. REAL FREFLO С IS FREE FLOW RATE IN AUTOS/LANE-SECOND INTEGER \*4 VLEN INTEGER \*2 X, B, NLANES, NMVEL, VVMOTO, VVEL, V, NMCAP, MXCAP, MINVEL С С B.....Y-INTERCEPT OF FUNCTIONS SLOPING LINE С MINVEL. MIN. VEL. IN METERS/SECOND MXCAP... ROAD'S CAPACITY AT MINIMUM VELOCITY NLANES. . REPRESENTS NUMBER OF LANES ON ROADWAY NMCAP... ROAD'S CAPACITY AT FREE FLOW VELOCITY C NMVEL... REPRESENTS NOMINAL VELOCITY PARAMETER С ROAD.... REPRESENTS ROAD PARAMETER С V..... IS MIN. VEL. IN MI/HR = . С VLEN.... REPRESENTS ROAD LENGTH PARAMETER С VVEL.... REPRESENTS VELOCITY PARAMETER С VVMOTO. . REPRESENTS VMOTO PARAMETER Ĉ X..... VALUE OF X COORDINATE OF FUNCTION C FIND THE ROAD'S VELOCITY BY THE LINEAR FUNCTION Y=(M\*X)+B. С IF THE NUMBER OF VEHICLES IN MOTION AND LOADING FOR THIS С DELT DOES NOT EXCEED THE ROAD'S NOMINAL CAPACITY, THEN THE С ROAD'S VELOCITY REMAINS THE NOMINAL VELOCITY. С Z = 0.8С SHOULD BE 0.8 V = VELZC. . . . V IS NOW AN DATA INPUT VARIABLE, 9/14/81, MAITLAND LEE С... С SHOULD BE 15 MILES HOUR С С DETERMINE MINIMUM VELOCITY IN METERS PER SECOND. MINVEL = (FLOAT(V) \*, 447)C DETERMINE CAPACITY FROM MAX. VELOCITY AND MIN. VEL. SLOPE. (: NMCAP = (FREFLO\*FLOAT(NLANES)\*FLOAT(VLEN))/FLOAT(NMVEL) MXCAP = (FREFLO\*FLOAT(NLANES)\*FLOAT(VLEN))/FLOAT(MINVEL)

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\*\*\*\*\*\* IF (VVMOTO.LE. (Z\*NMCAP)) GO TO 20 С WRITE(LU, 408) VVMOTO, NMCAP, ROAD С 408 FORMAT(' \*\*\* NOTICE: VEHICLES= ', I10, ' HAVE EXCEEDED', С Х ' O. 8 NOMINAL CAPACITY= ', I10, ' ON ROAD= ', I4) С С C MM=NOMINAL VELOCITY OF THE ROAD DIVIDED BY ITS NOMINAL С CAPACITY. MM = (FLOAT(MINVEL)-FLOAT(NMVEL))/(FLOAT(MXCAP)-(Z\*FLOAT(NMCAP))) С С X=NUMBER OF VEHICLES IN MOTION PLUS THE NUMBER LOADING С MINUS THE ROAD'S NOMINAL CAPACITY. X = (VVMOTO - (Z\*NMCAP))С С B=THE ROAD'S NOMINAL VELOCITY. B = NMVELС С DETERMINE NEW VELOCITY OF TRAVEL VVEL = (MM \* X) + BС С BE SURE MIN VALUE OF ROAD'S VELOCITY IS MINVEL. IF (VVEL. GE. MINVEL) GO TO 10 VVEL = MINVEL **10 CONTINUE** С 20 CONTINUE RETURN - C

END

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## **ATTACHMENT 2**

This attachment includes two example computer runs. The first run is FRKTREE8, a residential population only, normal weather condition run from Franklin County, Quadrant II, Tree 8 sectors; east southeast, southeast, and south southeast. This tree took the longest to evacuate in Quadrant II and is therefore the limiting factor for that Quadrant as indicated in Table 7 and illustrated in Figure 8.

The second run is BENTREE1, a general population, normal weather condition run for Benton County, Quadrant III, Tree 1 sectors; south southwest and south southeast. This area starts at WNP-1, -2, and -4, and includes many of the ISTGs (Independent Special Traffic Generators).





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## USER: RADPRO -AT

## **PFRKTREE8A**

| W  | annn Ann |    | WWWW |    | NNNM |    | W   | WW | NWW |    |    |
|----|----------|----|------|----|------|----|-----|----|-----|----|----|
| ų. | ų,       | ¥. | ų    | ų. | ¥    | ų. | - 1 | W  | - ¥ | ų. | ¥  |
| IJ | ¥        | ¥  | H    | ¥  | ¥    | X  | N   | N  | N   | ¥  | W  |
| WW | uu       | WW | 444  | 7  | ų,   | WW | 11  | WW | WW  | ų  | ¥  |
| Ħ  | U        | ų. | ¥    | Ħ  | N    | ų  |     | ¥  | ¥   | N  | W  |
| ų  | ¥        | ¥. | 4    | ¥  | Ч    | ¥. |     | ¥  | ¥   | ų. | W  |
| W  | ¥        | ¥  | W    | WW | IN   | V  |     | ¥  | W   | N  | WW |

## ĸ

| WW | W  | NAMAN | ЯŇ  | WW | ¥ | Ч  | uuuuu | W  | WW  | HANNA | annan | uu. | ł | ų  | WW  |
|----|----|-------|-----|----|---|----|-------|----|-----|-------|-------|-----|---|----|-----|
| ¥  | N  | ų.    | ¥   | V  | Ņ | Я  | ¥     | ¥  | V   | V     | ¥     | ¥   | ¥ | Ŵ  | W   |
| W  | W  | ¥     | 4   | Я  | ¥ | ¥  | ¥     | ¥  | ų,  | ¥     | ¥     | ¥.  | ¥ | ¥  | ¥   |
| WW | 11 | WWW   | NW  | WW | W | 1  | · N   | ¥  | WWW | WWW   | NNNN  | NHI | ł | ЯW | WWW |
| ų. |    | ¥     | ¥ 1 | V  | ¥ | ¥. | ¥.    | ų, | 4   | ¥     | ¥     | ¥.  | ų | ¥  | ¥   |
| V  |    | N .   | ¥   | V  | ¥ | W  | ¥     | ¥  | W   | ¥     | W     | ¥   | W | ¥  | ¥   |
| ¥  |    | 3     | 4   | ¥  | ¥ | ¥  | u     | ų  | H   | WWWWW | NNNNN | UUU | ł | ¥  | . 8 |

## 

LABEL: PRTOD1 -FORM PRE

SPOOLED: 82-09-23.09:19 STARTED: 82-09-23.09:20, ON: AMLC BY: PRE

PRINTED ON REMOTE PRINTER PRE (MPF 1-263)





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THIS IS A RUN MADE ON THE FRKTREESA

THIS IS A RUN MADE ON THE FRKTREEBA

COUNTY FILE ON DATE= 09/23/82

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DATE: 09/23/82

TIME (MIN,SEC,TICKS): 558: 20:251. CPU TIME (SEC,TICKS): 5:203 DISK I/O (SEC,TICKS): 8:299

( 330 TICKS/SECOND )

| LU= 6 DEL | .T= 25 TYP= 24 I | FRACT= 0.10 MAXDEP= 3600 POPVEH= 3 LGCODE= 1 FLORAT= 1000 EVL= 14.20 V= 1 | 5.00 |
|-----------|------------------|---|------|
|           | ZFIV= 1 ZTEN=    | 4 ZEPZ= 4 ISIG= 1 EX= 40 EPZ= 11  |      |
|           | 1 POPZN= 26.     |   |      |
| ZNRD: 1   | LINK= 3 LEN=     | 1500 RADIS= 5 NONVEL= 40 NLANES= 1 NRSEC= 2                               |      |
| POPRD=    | 15 NRAN=         | 5 INCDIS= 300   |      |
|           | LINK= 3 LEN=     |   |      |
| POPRD=    | 15 NRAN=         | 5 INCDIS= 300   |      |
|           | 2 POPZN= 168.    |   |      |
| 'ZNRD: 3  | LINK= 7 LEN=     | 1500 RADIS= 7 NONVEL= 40 NLANES= 1 NRSEC= 4                               |      |
| POPPD-    | 9 NRAN=          | 3 INCDIS= 500   |      |
| Z1 4      | LINK= 7 LEN=     | 1500 RADIS= 7 NORVEL= 40 NLANES= 1 NRSEC= 3                               |      |
| PO        | 9 NRAN=          | 3 INCDIS= 500   |      |
| ZNRD: 5   | LINK= 9 LEN=     | 3500 RADIS= 9 NONVEL= 40 NLANES= '1 NRSEC= 6                              |      |
| popro=    | 18 NRAN=         | S INCDIS= 583   |      |
| ZNRD: 6   | LINK= 9 LEN=     |   |      |
| POPRD=    | 9 NRAN=          | 3 INCDIS= 666   |      |
| ZNRD: 7   | LINK= 14 LEN=    | 2000 RADIS= 7 NONVEL= 40 NLANES= 1 NRSEC= 10                              |      |
| POPRD=    | 9 NRAN=          | 3 INCOIS= 666 *   |      |
|           | LINK= 12 LEN=    |   |      |
| POPRD=    | 12 NRAN=         | 4 INCDIS= 625   |      |
|           | LINK= 13 LEN=    | 2500 RADIS= 9 NONVEL= 30 NLANES= 1 NRSEC= 12                              |      |
| POPRO=    | 12 NRAN=         | 4 INCOIS= 625   |      |
|           | LINK= 14 LEN=    | 1000 RADIS= 7 NONVEL= 30 NLANES= 1 NRSEC= 7                               |      |
| POPRD=    | 5 NRAN=          | 2 INCOIS= 500   |      |
|           | LINK= 12 LEN=    | 1500 RADIS= 8 NONVEL= 40 NLANES= 1 NRSEC= 8                               |      |
| POPRD=    | 9 NRAN=          | 3 INCOIS= 500   |      |
|           | LINK= 13 LEN=    | 2500 RADIS= 9 NONVEL= 40 NLANES= 1 NRSEC= 9                               |      |
| POPRD=    | 12 NRAN=         | 4 INCOIS= 625   |      |
| ZNRD: 13  | LINK= 40 LEN=    | 2000 RADIS= 10 NOAVEL= 40 NLANES= 1 NRSEC= 0                              |      |
| POPRD=    | 9 NRAN=          | 3 INCDIS= 666   |      |
|           | LINK= 23 LEN=    | 1500 RADIS= 8 NORVEL= 40 NLANES= 1 NRSEC= 16                              |      |
| POPRD=    | 9 NRAN=          | 3 INCDIS= 500   |      |
|           | LINK= 18 LEN=    | 1500 RADIS= 9 NOAVEL= 30 NLANES= 1 NRSEC= 17                              |      |
| POPRD=    | 9 NRAN=          | 3 INCOIS= 500   |      |
|           | LINK= 23 LEN=    | 250D RADIS= 7 NORVEL= 40 NLANES= 1 NRSEC= 14                              |      |
| POPP      | 12 NRAN=         | 4 INCDIS= 625   |      |
| ZRIE      | LINK= 18 LEN=    | 1000 RADIS= 9 NOAVEL= 30 NLANES= 1 NRSEC= 15                              |      |
| POPRO-    | 6 NRAN=          | 2 INCDIS= 500   |      |
| ZNRD: 18  | LINK= 40 LEN=    | 3000 RADIS= 10 NOAVEL= 30 NLANES= 1 NRSEC= 0                              |      |
| POPRD=    | 15 NRAN=         | 5 INCOIS= 600   |      |
|           |                  |   |      |



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|---|--|--|
| ZNBD: 19 LINK= 29 LEN=<br>18 NRAN=        | 3500 RADIS= 10 NOAVEL= 30 NLANES= 1 NRSEC= 28<br>6 INCDIS= 583 |  |
| 18 AKAN=<br>E: 3 POPZN= 190.              |  |  |
|   |  |  |
| POPRO= 33 NRAN=                           | 6000 RADIS= 7 NOAVEL= 40 NLANES= 1 NRSEC= 22<br>11 INCOIS= 545 |  |
| ZNRD: 21 LINK= 24 LEN=                    |  |  |
|   |  |  |
| POPRO= 12 NRAN=<br>ZNRD: 22 LINK= 27 LEN= | 4 INCOIS= 500  |  |
|   |  |  |
|   | 4 INCOIS= 500  |  |
|   |  |  |
|   | 3 INCOIS= 500  |  |
|   | · · · · · · · · · · · · · · · · · · ·                          |  |
|   | 2 INCOIS= 500 +  |  |
|   | 1000 RADIS= 9 NONVEL= 40 NLANES= 1 NRSEC= 27                   |  |
|   | 2 INCOIS= 500  |  |
| · · · · · · · ·                           |  |  |
| POPRO= 18 NRAN=<br>ZNRD: 27 LINK= 30 LEN= | 6 INCOIS= 593  |  |
|   |  |  |
| POPRD= 13 NRAN=<br>ZNRD: 28 LINK= 29 LEN= | 5 INCOIS= 500<br>35D0 RADIS= 10 NORVEL= 30 HLANES= 1 NRSEC= 19 |  |
| POPRD= 18 NRAN=                           | 35D0 RADIS= 10 NOAVEL= 30 NLANES= 1 NRSEC= 19<br>3 INCOIS= 583 |  |
| ZNRD: 29 LINK= 40 LEN=                    |  |  |
| POPRD= 3 HRAN=                            | 500 RADIS= 10 NONVEL= 30 NLANES= 1 NRSEC= 19<br>1 INCDIS= 500  |  |
| ZNRD: 30 LINK= 33 LEN=                    | 2000 RADIS= 9 NONVEL= 40 NLANES= 1 NRSEC= 31                   |  |
| POPRD= 12 NRAN=                           | 4 INCDIS= 500  |  |
|   | - 3500 RADIS= 9 NOAVEL= 30 NLANES= 1 NRSEC= 30                 |  |
|   | 6 INCOIS= 583  |  |
|   | 3000 RADIS= 10 NOAVEL= 30 NLANES= 1 NRSEC= 33                  |  |
| PONNE 18 NRAN=                            | 6 INCDIS= 500  |  |
| ZNRD: 33 LINK= 34 LEN=                    |  |  |
| POPRD= 12 NRAN=                           | 4 INCDIS= 500  |  |
|   | 500 RADIS= 10 NORVEL= 40 NLANES= 1 NRSEC= 0                    |  |
| POPRD= 3 NRAN=                            | 1 INCDIS= 500  |  |
| ***ZONE: 4 POPZN= 45.                     | NRDS= 5 LENRDS= 15500.   |  |
| ZNRO: 35 LINK= 37 LEN=                    | 3500 RADIS= 8 NONVEL= 40 NLANES= 1 NRSEC= 36                   |  |
| POPRD= 12 NRAN=                           | 4 INCOIS= 875  |  |
| ZNRD: 36 LINK= 37 LEN=                    | 5500 RADIS= 8 NORVEL= 30 NLANES= 1 NRSEC= 35                   |  |
| POPRD= 15 NRAN=                           | 5 INCOIS= 1100   |  |
| ZNRD: 37 LINK= 39 LEN=                    | 2500 RADIS= 10 NONVEL= 40 NLANES= 1 NRSEC= 38                  |  |
| POPRD= 9 NRAN=                            | 3 INCDIS= 833  |  |
| ZNRO: 38 LINK= 39 LEN=                    |  |  |
| POPKD= 12 NRAN=                           | 4 INCDIS= 875  |  |
| ZNRD: 39 LINK= 40 LEN=                    | 500 RADIS= 10 NONVEL= 40 NLANES= 1 NRSEC= 0                    |  |
| POPRD= 3 NRAN=                            | 1 INCDIS= 500  |  |
| ***ZONE: 5 POPZN= 0.                      |  |  |
| ZIRD: 40 LINK= 40 LEN=                    | 9999 RADIS= 11 NONVEL= 40 NLANES= 9 NRSEC= 0                   |  |
| **151G; XOAD= 14 LENSTG=                  | 1500 POPSTG= 250 PVSTG= 35.00                                  |  |
|   |  |  |

THE INITIAL VEHICLE POPULATION WAS = 0 AL TIME ELAPSED = O SECONDS OR U HOURS, THE VEHICLE POPULATION IN THE TWO AILE RADIUS IS OPULATION OF ZONE = 1 ROAD = 1 IS EQUAL TO O MINUTES, AND TOTAL TINE ELAPSED= U SECONDS. 0 VEN 5 QUEUES: NRAN= S NLOD= 0 NBAC= o vhoto= 0 FOPULATION OF ZONE= 1 ROAD= 2 IS EQUAL TO VERS 5 QUEUES: NRAN= O NBÁC= 5 NLOD= O VMOTO= 0 THE VEHICLE POPULATION IN ZONE= 1 IS ŋ 10 THE VEHICLE POPULATION IN THE FIVE MILE RADIUS IS 10

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| VEHICLE POPULATION OF ZONE= 2 ROAD=    | 3 IS EQUAL TO    | 3      | QUEUES: NRAN=   | 3           | NLOD=     | 0 NBAC               | = 0     | VMOTO=    | 0       |
|--|------------------|--------|-----------------|-------------|-----------|----------------------|---------|-----------|---------|
| E POPULATION OF ZONE= 2 ROAD=          | 4 IS EQUAL TO    | 3      | QUEUES: NRAN=   | 3           | NLOD=     | O NBAC=              |         | VNOTO=    | Ő       |
| E POPULATION OF ZONE= 2 ROAD=          | 5 IS EQUAL TO    | 6      | QUEUES: NRAN=   | 6           | NLOD=     | O NBAC               |         | VHOTO=    | Õ       |
| VEHICLE POPULATION OF ZONE= 2 ROAD=    |                  | 3      | QUEUES: NRAN=   | 3           | NLOD=     | O NBAC=              |         | VNOTO=    | Õ       |
| VEHICLE POPULATION OF ZONE= 2 ROAD=    | 7 IS EQUAL TO    | 3      | QUEUES: NRAH=   | 3           | NLOD=     | 0 NBAC               |         | VNOTO=    | 0       |
|  | 8 IS EQUAL TO    | 4      | QUEUES: NRAN=   | ž           | NLOD=     | 0 NBAC=              |         | VNOTO=    | 0       |
|  | 9 IS EQUAL TO    | 4      | QUEUES: NRAN=   | 4           | NLOD=     | O NBAC:              |         |           |         |
|  | 10 IS EQUAL TO   |        | QUEUES: NRAN=   | 2           |           |                      |         | VAOTO=    | 0       |
|  | 11 IS EQUAL TO   | 3      |                 |             |           | 0 NBAC=              |         | VMOTO=    | 0       |
|  |                  | -      | QUEUES: NRAN=   | 3           | NLOD=     | O NBAC=              |         | VAOTO=    | 0       |
|  | 12 IS EQUAL TO   |        | QUEUES: NRAN=   | 4           | NLOD=     | O NBAC=              |         | VAOTO=    | 0       |
|  | 13 IS EQUAL TO   | 3      | QUEUES: NRAN=   | 3           | NLOD=     | O NBAC=              |         | VAOTO=    | 0       |
|  | 14 IS EQUAL TO   | 11     | QUEUES: NRAN=   | 11          | NLOD=     | O NBAC=              |         | vroto=    | 0       |
|  | 15 IS EQUAL TO   |        | QUEUES: NRAN=   | 3           | HLOD=     | O NBAC=              | : 0     | VNOTO=    | 0       |
|  | 16 IS EBUAL TO   | 4      | GUEUES: NRAN=   | - 4         | NLOD=     | 0 NBAC=              | • 0     | VHOTO=    | 0       |
|  | 17 IS EQUAL TO   | 2      | QUEUES: NRAN=   | 2           | NLOD=     | 0 NBAC=              | : 0     | vrioto=   | 0       |
|  | 18 IS EQUAL TO   | 5      | QUEUES: NRAN=   | 5           | NLOD=     | O NBAC=              | : 0     | VMOTO=    | 0       |
| VEHICLE POPULATION OF ZONE= 2 SCA2 =   | 19 IG ELINE 70 - | 3      | OUEUES: NRAN=   | 3           | NLOD=     | 0 NBAC=              | 0       | VAOTO=    | 0       |
| THE VEHICLE POPULATIO                  | N IN ZONE= 2 IS  |        | 69              |             |           |                      |         |           | -       |
|  | 20 IS EQUAL TO   | 11     | WEHES: XRAN=    | 11          | NLOD=     | O NBAC=              | 0       | VROTO=    | 0       |
|  | 21 IS EQUAL TO   |        | QUEUES: NRAN=   | 4           |           | 0 NBAC=              |         | VAOTO=    | 0       |
|  | 22 IS EQUAL TO   |        | QUEUES: NRAN=   | 4           |           | O NBAC=              |         | VNOTO=    | 0       |
|  | 23 IS EQUAL TO   |        | QUEUES: NRAN=   | 3           |           | O NBAC=              |         | VMOTO=    | 0       |
|  | 24 IS EQUAL TO   |        | QUEUES: NRAN=   | -           |           |                      |         |           | +       |
|  | 25 IS EQUAL TO   |        | QUEUES: NRAN=   | 2           |           | O NBAC=              |         | VAOTO=    | Û       |
|  | 26 IS EQUAL TO   |        |                 | 2           |           | 0 NBAC=              |         | VAOTO=    | 0       |
|  |                  |        | QUEUES: NRAN=   | 6           |           | O NBAC=              |         | VMOTO=    | 0       |
|  | 27 IS EQUAL TO   |        | QUEUES: NRAN=   | 6           |           | O NBAC=              |         | VAOTO=    | 0       |
|  | 28 IS EQUAL TO   |        | QUEUES: NRAN=   | 6           |           | 0 NBAC=              |         | VHOTO=    | 0       |
| POPULATION OF ZONE= 3 ROAD=            | 29 IS EQUAL TO   |        | QUEUES: NRAN=   |             |           | O NBAC=              |         | VHOTO=    | 0       |
|  | 30 IS EQUAL TO   |        | QUEUES: NRAN=   | 4           | NLOD=     | 0 NBAC=              | 0       | VROTO=    | 0       |
|  | 31 IS EQUAL TO   |        | QUEUES: NRAN=   | 6           | NLOD=     | O NBAC=              | 0       | vnoto=    | 0       |
|  | 32 IS EQUAL TO   | 5      | QUEUES: NRAN=   | 6           | NLOD=     | D NBAC=              | 0       | VROTO=    | 0       |
|  | 33 IS EQUAL TO   | 4      | QUEUES: NRAN=   | 4           | NLOD=     | O NBAC=              | 0       | VNOTO=    | 0       |
| VEHICLE POPULATION OF ZONE= 3 ROAD=    | 34 IS EQUAL TO   | 1      | QUEUES: NRAN=   | 1           | NLOD=     | ) NBAC=              | 0       | VNOTO=    | 0       |
| THE VEHICLE POPULATIO                  | IN ZONE= 3 IS    |        | 66              |             |           |                      |         |           | -       |
| VEHICLE POPULATION OF ZONE= 4 ROAD= 3  | 5 IS EQUAL TO    | 4 (    | QUEUES: NRAN=   | 4           | NLOD=     | ) NBAC=              | 0       | vaoto=    | 0       |
| VEHICLE POPULATION OF ZONE= 4 ROAD=    | 36 IS EQUAL TO   |        | QUEUES: NRAN=   |             |           | D NBAC=              | -       | VAOTO=    | Ū       |
|  | 7 IS EQUAL TO    |        | QUEUES: NRAN=   |             |           | ) NBAC=              |         | VNOTO=    | 0       |
| VEHICLE POPULATION OF ZONE= 4 ROAD=    |                  |        | QUEUES: NRAN=   |             |           | ) NBAC=              |         | VAOTO=    | -       |
| VEHICLE POPULATION OF ZONE= 4 ROAD= 3  | 19 IS FRIIAL TO  |        | QUEUES: NRAN=   |             |           | ) NBAC=              |         | VNOTO=    |         |
| THE VEHICLE POPULATIO                  |                  |        | 17              | •           | 1200-     | / 1000-              | v       | 411010-   | U       |
| THE TOTAL VEHICLE POPULATION IN        |                  |        | 162             |             |           |                      |         |           |         |
| THE TOTAL VEHICLE POPULATION IN        |                  | 162    |                 |             |           |                      |         |           |         |
| THE TOTHE VEHICLE TO DEATION IN        | THE LATINE LIL-  | 102    |                 |             |           |                      |         |           |         |
| THE PERCENT OF THE INITIAL POPULA      | TTAN THAT WAS OF |        | ACUATED - 0.00  | <b>1</b> Y  |           |                      |         |           |         |
|  |                  | CH CY  | HCUHIEV - 0.00  | u%          |           |                      |         |           |         |
|  |                  |        |                 |             |           |                      |         |           | 1       |
| VEHICLE POPULATION AS A FUNCTION OF RA | 0101 019100C AT  | TTACE  | 0 NVIDG (       | 1 111       | IITCO ANT |                      | CANPO   |           |         |
| RADIUS 0-TO- 1POPULATION= 0            | * THE Y AE DEM   | ATHING |                 | រអះជ<br>៣ ។ | s the     | ט ט טני<br>ארי דאודי | .CVNVJ. | 11701 50- | 0 00 8  |
|  | * THE Z OF REA   |        |                 |             |           |                      |         |           |         |
|  | * THE X OF REA   |        |                 |             |           |                      |         |           | 0.00 %  |
|  | * THE Z OF REA   |        |                 |             | * THE 2   |                      |         |           | 0.00 %  |
|  | * THE 7 OF REA   |        |                 |             | * THE Z   |                      |         |           |         |
|  | * THE % OF REA   |        |                 |             | * THE X   |                      |         |           | 6.17 %  |
|  | # THE X OF REA   |        |                 |             | ¥ THE %   |                      |         |           | 0.00 %  |
|  | * THE Z OF REA   |        |                 |             | * THE X   |                      |         |           |         |
|  | ¥ THE 7 OF REA   |        |                 |             | * THE X   |                      |         |           |         |
| RADIUS 8-TO- 9POPULATION= 40           | * THE Z OF REP   | ATHTHE | VEHICLES= 24.69 | 2           | ± THE 2   | OF THIT              | TAL UF  | HTCI FS=  | 24.19 2 |

RADIUS--- 8-TO- 9---POPULATION= 40 \* THE % OF RERAINING VEHICLES= 24.69 % \* THE % OF INITIAL VEHICLES= 24.69 % RADIUS--- 9-TO-10---POPULATION= 40 \* THE % OF REMAINING VEHICLES= 24.69 % \* THE % OF INITIAL VEHICLES= 24.69 %

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|---|--------|-----------------|---|---------------|----------------|-------------|----------------|---------|------------------|--------|
| THE INITIAL VEHICLE POPULATION WAS = 162<br>TOTAL TIME ELAPSED= 600 SECONDS OR 0 HOURS, 1 | 0 41   | MITCO AN        | <b>N</b> 0                                | erea          | ine            |             |                |         |                  |        |
| THE VEHICLE POPULATION IN THE TWO MILE RADIUS IS  | .0 41  | NUTES, AND<br>0 | <b>U</b>                                  | SECO          | 105.           |             |                |         |                  |        |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 1 IS EQUAL TO   | 5      | QUEUES:         | 10AN-                                     | 5             | W 40-          | 0           | 2010-          | 0       |                  | ~      |
| VEHICLE POPULATION OF ZONE= 1 ROAD= . 2 IS EQUAL TO                                       | J<br>5 | QUEUES:         |   |               | NLOD=<br>NLOD= | 0           |                |         | VAOTO=           | 0      |
| THE VEHICLE POPULATION IN ZONE= 1 IS  | J      | 10              | аана-                                     | ى             | ALVU-          | 0           | NBAC=          | 0       | VMOTO=           | 0      |
| THE VEHICLE POPULATION IN THE FIVE MILE RADIUS IS   |        | 10              |   |               |                |             |                |         |                  |        |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 3 IS EQUAL TO   | 3      | QUEUES:         | иран-                                     | 7             | NLOD=          | 0           | NBAC=          | a       | 10070-           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 4 IS EQUAL TO   | 3      | QUEUES:         |   | 3             |                |             | NBAC=          | 1)<br>0 | VAOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 5 IS EQUAL TO   | 5      | QUEUES:         |   | 5             | NLOD=          | 0<br>1)     | NBAC=          | 0<br>0  | VROTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 6 IS EQUAL TO   | 3      | QUEVES:         |   | 3             |                |             | NOHC-<br>NBAC= | 0       | VNOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 7 IS EQUAL TO   | 3      | QUEUES:         |   | 3             | NLOD=          | 8<br>0      | NBAC=          | 0       | VROTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 8 IS EQUAL TO   | 4      | QUEUES:         |   | 3<br>4        | NLOD=          | 0           |                | 0       | VAOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 9 IS EQUAL TO   | 4      | QUEUES:         |   | -             | NLOD=          | 0           | NBAC=<br>NBAC= | 0       | VROTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 10 IS EQUAL TO  | 2      | QUEUES:         |   |               | NLOD=          | 0<br>0      | NBAC=          | 0       | VNOTO=<br>Vnoto= | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 11 IS EQUAL TO  | 3      | QUEUES:         |   |               | NLOD=          | 0           | NBAC=          | 0       | VAOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 12 IS EQUAL TO  | 4      | QUEUES:         |   | 4             | NLOD-          | 0           | NBAC=          | 0       | VNOTO=           | 0<br>0 |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 13 IS EQUAL TO  | 3      | QUEUES:         |   | -             | NLOD=          | 0           | NBAC=          | 0       | VNOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 14 IS EQUAL TO  | 11     | QUEUES:         |   | 11            |                | 0           | NBAC=          | 0       | VAOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 15 IS EQUAL TO  | 3      | QUEUES:         |   |               | NLOD=          | 0           | NBAC=          | 0       | VAOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 16 IS EQUAL TO  | 4      | QUEUES:         |   |               | NLOD=          | 0           | NBAC=          | 0       | VAOTO=           | 0      |
| V. D POPULATION OF ZONE= 2 ROAD= 17 IS EQUAL TO   | 2      | QUEUES:         |   |               | NLOD=          | õ           | NBAC=          | Ő       | VNOTO=           | Õ      |
| VENUEL POPULATION OF ZONE= 2 ROAD= 18 IS EQUAL TO   | 5      | QUEUES:         |   |               | NLOD=          | Ő           | NBAC=          | Ő       | VROTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 19 IS EQUAL TO  | 5      | QUEUES          | F. C. |               | NLOD=          | Õ           | NBAC=          | 0       | VNOTO=           | 0      |
| THE VEHICLE POPULATION IN ZONE= 2 IS  | •      | 69              |   | Ŭ.,           |                | v           | Nono-          | U       | 11010-           | U      |
| VENICLE POPULATION OF ZONE= 3 ROAD= 20 IS EQUAL TO  | 11     | QUEUES:         | NRAN=                                     | 11            | NLOD=          | 0           | NBAC=          | 0       | VNOTO=           | 9      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 21 IS EQUAL TO  | 4      | QUEUES:         |   | 4             |                | Õ           | NBAC=          | Ŭ       | VMOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 22 IS EQUAL TO  | 4      | QUEUES:         |   | 4             | NLOD=          | 0           | NBAC=          | õ       | VROTO=           | õ      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 23 IS EQUAL TO  | 3      | QUEUES:         |   | 3             | NLOD=          | Ō           | NBAC=          | Õ       | VNOTO=           | Õ      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 24 IS EQUAL TO  | 2      | QUEUES:         |   | 2             |                | 0           | NBAC=          | Ō       | VAOTO=           | Ō      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 25 IS EQUAL TO  | 2      | QUEUES:         |   |               | NLOD=          | Ō           | NBAC=          | Ō       | VNOTO=           | Ō      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 26 IS EBUAL TO  | 5      | QUEUES:         |   | \$            | NLOD=          | Ō           | NBAC=          | Ō       | VNOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 27 IS EQUAL TO  | 6      | QUEUES:         | NRAN=                                     | 6             | NLOD=          | 0           | NBAC=          | Ō       | VAOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 28 IS EQUAL TO  | 6      | QUEUES;         | NRAN=                                     | 6             | NLOD=          | 0           | N8AC=          | 0       | VAOTO=           | 8      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 3D IS EQUAL TO  | 4      | QUEUES:         | NRAN=                                     | 4             | NLOD=          | 0           | NBAC=          | 0       | VAOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 31 IS EQUAL TO  | 6      | QUEUES:         | NRAN=                                     | 6             | NLOD=          | Ð           | NBAC=          | 8       | Vnoto=           | 0      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 32 IS EQUAL TO  | 6      | QUEUES:         | NRAN=                                     | 6             | NLOD=          | 0           | NBAC=          | 0       | VHOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 33 IS EQUAL TO  | 4      | QUEUES: 1       | NRAN=                                     | 4             | NLOD=          | 0           | NBAC=          | 8       | Vnoto=           | 0      |
| THE VEHICLE POPULATION IN ZONE= 3 IS  |        | 64              |   |               |                |             |                |         |                  |        |
| VEHICLE POPULATION OF ZONE= 4 ROAD= 35 IS EQUAL TO  | 4      | QUEUES:         | NRAN=                                     | 4             | NLOD=          | Û           | NBAC=          | 0       | vnoto=           | 0      |
| VEHICLE POPULATION OF ZONE= 4 ROAD= 36 IS EQUAL TO  |        | QUEUES:         | Nran=                                     |               | NLOD=          |             |                | 0       | VNOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 4 ROAD= 37 IS EQUAL TO  |        | QUEUES: 1       | NRAN=                                     | 3             | NLOD=          | 0           | NBAC=          | 8       | VMOTO=           | 0      |
| VEHICLE POPULATION OF ZONE= 4 ROAD= 38 IS EQUAL TO  | 4      | QUEVES: 1       | NRAN=                                     | 4             | NLOD=          | 0           | NBAC=          | 9       | VAOTO=           | 8      |
| THE VEHICLE POPULATION IN ZONE= 4 IS  |        | 16              |   |               |                |             |                |         |                  |        |
| THE TOTAL VEHICLE POPULATION IN THE TEN MILE RADI   |        | -               |   |               |                |             |                |         |                  |        |
| THE TOTAL VEHICLE POPULATION IN THE ENTIRE EPZ=   | 15     | 9               |   |               |                |             |                |         |                  |        |
| DEDEDIT OF THE INTTAL CADINATION THAT WAS NOT   | - 11   |                 |   |               |                |             | -              |         |                  |        |
| PERCENT OF THE INITIAL POPULATION THAT HAS BEE  | .N E   | VRCUATED :      | = 1.8                                     | 13%           |                |             |                |         |                  |        |
|   |        | *******         |   |               |                |             |                |         | *******          |        |
| VEHICLE POPULATION AS A FUNCTION OF RADIAL DISTANCE AT                                    | TINC   | • 0 UA11        |   | 0 <b>8</b> 13 | -              | חונ         | 0 000          | 0100    |                  |        |
| ACTIVACE A ALOCHIAN NO A LONDITAN AL VRAINE ATOLNUCE HI                                   | 11112  | : O HOUF        | 10, 1                                     | 0 111         | IUTES, A       | un <b>v</b> | 0 SEC          | VK05.   | ı.               |        |

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| RADIUS O-TO- 1POPULATION= O * THE Z OF KE          | ENAINING VEHICLES= 0.00 X * THE Z OF INITIAL VEHICLES= 0.00 X   |
|  |   |
|  | ENAINING VEHICLES= 0.00 Z * THE Z OF INITIAL VEHICLES= 0.00 Z   |
|  | REMAINING VEHICLES= 0.00 % * THE % OF INITIAL VEHICLES= 0.00 %  |
| RADIUS 3-TO- 4POPULATION= 0 * THE X OF RE          | ENAINING VEHICLES= 0.00 % ¥ THE % OF INITIAL VEHICLES= 0.00 %   |
|  | EMAINING VEHICLES= 6.29 Z * THE Z OF INITIAL VEHICLES= 6.17 Z   |
|  |   |
|  |   |
|  | EMAINING VEHICLES= 16.35 Z * THE Z OF INITIAL VEHICLES= 16.05 Z |
| RADIUS 7-TO- 8POPULATION= 46 # THE X OF RE         | EMAINING VEHICLES= 28.93 % * THE % OF INITIAL VEHICLES= 28.40 % |
|  | ENAINING VEHICLES= 25.16 Z * THE Z OF INITIAL VEHICLES= 24.69 Z |
|  |   |
|  |   |
| RADIUS10-T0-11POPULATION= Q * THE % OF RE          | ENAINING VEHICLES= 0.00 X * THE X OF INITIAL VEHICLES= 0.00 X   |
| TOTAL VEHICLE POPULATION WITHIN TEN MILES= 1       | 159VEHICLE POPULATION OUTSIDE TEN MILES= 3                      |
| TOTAL VEHICLE POPULATION WITHIN EPZ= 159           | VEHICLE POPULATION OUTSIDE EPZ= 3                               |
|  | · · · · · · · · · · · · · · · · · · ·                           |
|  |   |
|  |   |
|  | ·   |
| THE INITIAL VEHICLE POPULATION WAS = 162           |   |
| TOTAL TIME ELAPSED= 1200 SECONDS OR O HOURS,       | 20 MINUTES, AND B SECONDS.                                      |
| THE VEHICLE POPULATION IN THE TWO MILE RADIUS IS   |   |
|  |   |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 1 IS EQUAL TO  | 5 QUEUES; NRAN= 5 NLOD= 0 NBAC= 0 VMOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 2 IS EQUAL TO  | 5    QUEUES:   NRAN=  |
| THE VEHICLE POPULATION IN ZONE= 1 IS               |   |
| THE VEHICLE POPULATION IN THE FIVE MILE RADIUS IS  |   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 3 IS ERUAL TO  |   |
|  | 3 QUEUES; NRAN= 3 NLOD= 0 NBAC= 0 VNOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 4 IS EQUAL TO  | 3 UUEUES: NRAN= 3 NLOD= 0 NBAC= 0 VNOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 5 IS EQUAL TO  | 5 QUEVES: NRAN= 5 NLOD= 0 NBAC= 0 VNOTO= 0                      |
| VELLOS POPULATION OF ZONE= 2 ROAD= 6 IS ERUAL TO   | 3 QUEUES: NRAN= 3 NLOD= 0 NBAC= '0 VHOTO= 0                     |
| VE POPULATION OF ZONE= 2 ROAD= 7 IS EQUAL TO       |   |
| VENIC POPULATION OF ZONE= 2 ,ROAD= 8 IS EQUAL TO   |   |
|  | 4 QUEUES: NRAN= 4 NLOD= 0 NBAC= 0 VHOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 9 IS EQUAL TO  | 5 QUEUES; NRAN= 4 NLOD= 0 NBAC= 0 VAOTO= 1                      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 10 IS EQUAL TO | 2 QUEUES: NRAN= 2 NLOD= 0 N8AC= 0 VMOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 11 IS EQUAL TO | 3 QUEUES: NRAN= 3 NLOD= 0 NBAC= 0 VNOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 12 IS EQUAL TO |   |
|  |   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 13 IS EDUAL TO | 3 QUEUES: NRAN= 3 NLOD= 0 NBAC= 0 VMOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 14 IS EQUAL TO | 10 QUEUES: NRAN= 10 NLOD= 0 NBAC= 0 VNOTO= 0                    |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 15 IS EQUAL TO | 3 QUEUES: NRAN= 3 NLOD= 0 NBAC= 0 VNOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 16 IS EQUAL TO | 4 QUEUES: NRAN= 4 NLOD= 0 NBAC= 0 VNOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 17 IS EQUAL TO | · ·······   |
|  |   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 18 IS EQUAL TO | 5 QUEUES: NRAN= 5 NLOD= 0 NBAC= 0 VNOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 19 IS EQUAL TO | 5 QUEUES; NRAN= 5 NLOD= 0 NBAC= 0 VMOTO= 0                      |
| THE VEHICLE POPULATION IN ZONE= 2 IS               | 67  |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 20 IS EBUAL TO | 10 QUEUES: NRAN= 10 NLOD= 0 NBAC= 0 VNOTO= 0                    |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 21 IS EQUAL TO |   |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 22 IS EQUAL TO |   |
|  | 4 QUEVES; NRAN= 4 NLOD= 0 NBAC= 0 VNOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 23 IS EQUAL TO | 3 QUEUES; NRAN= 3 NLOD= 0 NBAC= 0 VAOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 24 IS EQUAL TO | 2 QUEUES; NRAN= 2 NLOD= 0 NBAC= 0 VNOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 25 IS EQUAL TO | 3 QUEUES: NRAN= 2 NLOO= 0 NBAC= 0 VAOTO= 1                      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 26 IS EQUAL TO | 5 QUEVES; NRAN= 5 NLOD= 0 NBAC= 0 VMOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 27 IS EQUAL TO |   |
|  |   |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 28 IS EQUAL TO | 5    QUEUES:  NRAN=   |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 30 IS EQUAL TO | 5 QUEUES; NRAN= 4 NLOD= 0 NBAC= 0 VNOTO= 1                      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 31 IS EQUAL TO | 5 QUEUES; NRAN= 5 NLOD= 0 NBAC= 0 VAOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 32 IS EQUAL TO | 5 QUEUES: NRAN= 5 NLOD= 0 NBAC= 0 VNOTO= 0                      |
| VEH OPULATION OF ZONE= 3 ROAD= 33 IS EBUAL TO      |   |
|  |   |
| THE PERIOCE IN GENTIOR IN LUNC- 0 10               |   |
| VEHICLE POPULATION OF ZONE= 4 ROAD= 35 IS EQUAL TO | 4 QUEUES; NRAN= 4 NLOD= 0 NBAC= 0 VNOTO= 0                      |
| VEHICLE POPULATION OF ZONE= 4 ROAD= 36 IS EQUAL TO | 5   QUEUES;  NRAN=  |
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| VEHICLE POPULATION OF ZONE= 4 RO<br>POPULATION OF ZONE= 4 RO<br>THE VEHICLE POPUL<br>THE TOTAL VEHICLE POPULATIO<br>THE TOTAL VEHICLE POPULATIO   | AD= 38 IS EQUAL TO 4<br>Ation in Zone= 4 is<br>N in the ten Mile Radius   | OUEUES: NRAN= 4<br>16   | NLOD= U<br>NLOD= O   | NBAC=<br>NBAC=   | 0 VNOTO=<br>0 VNOTO=  | 0<br>0   |
|---|---|---|--|--|---|--|
| THE PERCENT OF THE INITIAL P  | OPULATION THAT HAS BEEN   | EVACUATED = 3.70%   |  |  |   | 49   |
| VEHICLE POPULATION AS A FUNCTION<br>RADIUS 0-TO- 1POPULATION=<br>RADIUS 1-TO- 2POPULATION=<br>RADIUS 2-TO- 3POPULATION=<br>RADIUS 3-TO- 4POPULATION=<br>RADIUS 4-TO- 5POPULATION=<br>RADIUS 5-TO- 6POPULATION=<br>RADIUS 5-TO- 7POPULATION= | 0. * THE % OF REMAIN<br>0 * THE % OF REMAIN<br>0 * THE % OF REMAIN<br>0 * THE % OF REMAIN<br>10 * THE % OF REMAIN<br>0 * THE % OF REMAIN  | ING VEHICLES= 0.00 %<br>ING VEHICLES= 0.00 %<br>ING VEHICLES= 0.00 %<br>ING VEHICLES= 0.00 %<br>ING VEHICLES= 6.41 %<br>ING VEHICLES= 0.00 %  | * THE %<br>* THE %<br>* THE %<br>* THE %<br>* THE %<br>* THE %     | OF INITIAL<br>OF INITIAL<br>OF INITIAL<br>OF INITIAL<br>OF INITIAL<br>OF INITIAL | VEHICLES=<br>VEHICLES=<br>VEHICLES=<br>VEHICLES=<br>VEHICLES= | 0.00 X<br>0.00 X<br>0.00 X<br>0.00 X<br>6.17 X<br>0.00 X |
| RADIUS 7-TO- 8POPULATION=<br>RADIUS 8-TO- 9POPULATION=<br>RADIUS 9-TO-10POPULATION=   | 25 * THE X OF RENAIND<br>44 * THE X OF RENAIND<br>40 * THE X OF RENAIND<br>37 * THE X OF RENAIND<br>0 * THE X OF RENAIND<br>1THIN TEN MILES= 156VE<br>4 WITHIN EPZ= 156VE   | ING VEHICLES= 28.21 %<br>ING VEHICLES= 25.64 %<br>ING VEHICLES= 23.72 %<br>ING VEHICLES= 0.00 %<br>VEHICLE POPULATION   | * THE %<br>* THE %<br>* THE %<br>* THE %<br>* THE %<br>OUTSIDE TEN | OF INITIAL<br>OF INITIAL<br>OF INITIAL<br>OF INITIAL<br>AILES=                   |   | 27.16 %<br>24.69 %<br>22.84 %<br>0.00 %                  |
| THE DITIAL VEHICLE POPULATION WAS<br>TO THE ELAPSED = 1800 SECOND<br>VEHICLE POPULATION IN THE<br>VEHICLE POPULATION OF ZONE = 1 ROA<br>VEHICLE POPULATION OF ZONE = 1 ROA  | OS OR O HOURS, 30 MI<br>TWO MILE RADIUS IS<br>AD= 1 IS EQUAL TO 4   |   | NLOD= 0  |  | VAOTO=<br>VAOTO=  | 0  |
| THE VEHICLE POPULA<br>THE VEHICLE POPULATION IN THE F<br>VEHICLE POPULATION OF ZONE= 2 ROA<br>VEHICLE POPULATION OF ZONE= 2 ROA<br>VEHICLE POPULATION OF ZONE= 2 ROA  | ATION IN ZONE= 1 IS<br>TIVE MILE RADIUS IS<br>ID= 3 IS EQUAL TO 3<br>ID= 4 IS EQUAL TO 3<br>ID= 5 IS EQUAL TO 5   | 8<br>8<br>QUEUES: NRAN= 3<br>QUEUES: NRAN= 3<br>QUEUES: NRAN= 5   | NLOD= 0<br>NLOD= 0<br>NLOD= 0                                      | NBAC= O<br>NBAC= O   | VNOTO=<br>VNOTO=  | 0<br>0<br>0  |
| VEHICLE POPULATION OF ZONE= 2 ROA<br>VEHICLE POPULATION OF ZONE= 2 ROA                  | D=       7 IS EQUAL TO       3         D=       8 IS EQUAL TO       3         D=       9 IS EQUAL TO       3         D=       10 IS EQUAL TO       2  | QUEUES: NRAN= 3<br>QUEUES: NRAN= 3<br>QUEUES: NRAN= 3<br>QUEUES: NRAN= 2  | NLOD= 0<br>NLOD= 0<br>NLOD= 0<br>NLOD= 0                           | NBAC= O<br>NBAC= O<br>NBAC= O<br>NBAC= O<br>NBAC= O                              | VMOTO=<br>VMOTO=<br>VMOTO=                                    | 0<br>0<br>0<br>0<br>0                                    |
| VEHICLE POPULATION OF ZONE= 2 ROA<br>VEHICLE POPULATION OF ZONE= 2 ROA   | D=       12       IS       EQUAL       TO       3         D=       13       IS       EQUAL       TO       3         D=       14       IS       EQUAL       TO       8         D=       15       IS       EQUAL       TO       3 | OUEUES:         NRAN=         3           OUEUES:         NRAN=         3           OUEUES:         NRAN=         3           OUEUES:         NRAN=         8           OUEUES:         NRAN=         3           OUEUES:         NRAN=         3           OUEUES:         NRAN=         3           OUEUES:         NRAN=         3           OUEUES:         NRAN=         3 | NLOD= 0<br>NLOD= 0<br>NLOD= 0<br>NLOD= 0<br>NLOD= 0<br>NLOD= 0     | NBAC= 0<br>NBAC= 0<br>NBAC= 0<br>NBAC= 0<br>NBAC= 0<br>NBAC= 0<br>NBAC= 0        | Vnoto=<br>Vnoto=<br>Vnoto=<br>Vnoto=                          | Q<br>Q<br>Q<br>Q<br>Q<br>Q<br>Q                          |
| VEHICLE POPULATION OF ZONE= 2 ROA<br>VEHICLE POPULATION OF ZONE= 2 ROA<br>VEHICLE POPULATION OF ZONE= 2 ROA<br>THE VEHICLE POPULATION OF ZONE= 3 ROA<br>VEHICLE POPULATION OF ZONE= 3 ROA   | D= 17 IS EQUAL TO 2<br>D= 18 IS EQUAL TO 4<br>D= 19 IS EQUAL TO 5<br>TION IN ZONE= 2 IS   | QUEUES:         NRAN=         2           QUEUES:         NRAN=         2           QUEUES:         NRAN=         4           QUEUES:         NRAN=         5           59         QUEUES:         NRAN=         8  | HLOD= 0<br>HLOD= 0<br>NLOD= 0                                      | NBAC= 0<br>NBAC= 0<br>NBAC= 0<br>NBAC= 0<br>NBAC= 0                              | vaoto=<br>vaoto=<br>vaoto=                                    | 0<br>0<br>0  |
| VEHICLE POPULATION OF ZONE= 3 ROAN<br>VEHICLE POPULATION OF ZONE= 3 ROAN  | D= 21 IS EQUAL TO       3         D= 22 IS EQUAL TO       3         D= 23 IS EQUAL TO       3         D= 24 IS EQUAL TO       2   | QUEUES: NRAN= 3<br>QUEUES: NRAN= 3<br>QUEUES: NRAN= 3<br>QUEUES: NRAN= 2  | NLOD= 0<br>NLOD= 0<br>NLOD= 0<br>NLOD= 0                           | NBAC= 0<br>NBAC= 0<br>NBAC= 0<br>NBAC= 0<br>NBAC= 0<br>NBAC= 0                   | VAOTO=<br>VAOTO=<br>VAOTO=<br>VAOTO=                          | 0<br>0<br>0<br>0<br>3                                    |

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| VENICLE POPULATION OF ZONE= 3 ROAD= 26 IS EQUAL TO 5       | QUEUES: NRAN= 5 NLOD= 0 NBAC= 0 VNOTO= 0   |
|--|--|
| POPULATION OF ZONE= 3 ROAD= 27 IS EQUAL TO 5               | QUEUES: NRAN= 5 NLOD= 0 NBAC= 0 VNOTO= 0   |
| POPULATION OF ZONE= 3 ROAD= 23 IS EQUAL TO 5               | QUEUES; NRAN= 5 NLOD= 0 NBAC= 0 VNOTO= 0   |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 30 IS EQUAL TO 5       | OUEUES; NRAN= 3 NLOD= 0 NBAC= 0 VNOTO= 0   |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 30 IS EQUAL TO 5       | QUEUES; NRAN= 5 NLOD= 0 NBAC= 0 VNOTO= 2<br>QUEUES; NRAN= 5 NLOD= 0 NBAC= 0 VNOTO= 0 |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 32 IS EQUAL TO 5       | QUEUES; NRAN= 5 NLOD= 0 NBAC= 0 VNOTO= 0   |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 32 IS EQUAL TO 5       | QUEUES: NRAN= 3 NLOD= 0 NBAC= 0 VAOTO= 0<br>DUEUES: NRAN= 3 NLOD= 0 NBAC= 0 VAOTO= 2 |
| THE VEHICLE POPULATION IN ZONE= 3 IS                       | 00E0E3; WKKN= 3 NLVD= 0 NBHC= 0 VNVIV= 2<br>59                                       |
|  |  |
|  | QUEUES: NRAN= `3 NLOD= O NBAC= O VNOTO= O  |
| VEHICLE POPULATION OF ZONE= 4 ROAD= 36 IS EQUAL TO 4       |  |
| VEHICLE POPULATION OF ZONE= 4 ROAD= 37 IS EQUAL TO 3       |  |
| VEHICLE POPULATION OF ZONE= 4 ROAD= 38 IS EQUAL TO 3       |  |
| THE VEHICLE POPULATION IN ZONE= 4 IS                       | 13   |
| THE TOTAL VEHICLE POPULATION IN THE TEN AILE RADIUS        |  |
| THE TOTAL VEHICLE POPULATION IN THE ENTIRE EPZ= 1          | 39   |
|  |  |
| THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN I      |  |
| # 4 5 5 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5                    | 73   |
| IPUTALE DADID LTTAN 10 1 PULATTAN AP DIATAN APATINAP 17 TH |  |
| VEHICLE POPULATION AS A FUNCTION OF RADIAL DISTANCE AT TIM |  |
|  | IG VEHICLES= 0.00 % * THE % OF INITIAL VEHICLES= 0.00 %                              |
| RADIUS 1-TO- 2POPULATION= 0 * THE X OF REMAININ            |  |
| RADIUS 2-TO- 3POPULATION= 0 * THE Z OF REMAINING           |  |
| RADIUS 3-TO- 4POPULATION= 0 * THE Z OF REMAININ            |  |
| RADIUS 4-TO- 5POPULATION= 8 * THE X OF REMAINING           |  |
| RADIUS 5-TO- 6POPULATION= 0 * THE X OF REMAININ            |  |
| RADION- 6-TO- 7POPULATION= 22 * THE X OF REMAINING         |  |
| RATE 7-TO- 8POPULATION= 37 * THE Z OF REMAININ             |  |
|  | IG VEHICLES= 28.06 % * THE % OF INITIAL VEHICLES= 24.07 %                            |
| RADIUS 9-TO-10POPULATION= 33 * THE X OF REMAININ           |  |
| RADIUS10-TO-11POPULATION= 0 * THE X OF REMAINING           |  |
| TOTAL VEHICLE POPULATION WITHIN TEN NILES= 139             |  |
| TOTAL VEHICLE POPULATION WITHIN EPZ= 139VE                 | NICLE POPULATION OUTSIDE EPZ= 23   |
|  |  |
|  |  |
|  | ×  |
| THE INITIAL VEHICLE POPULATION WAS = 162                   |  |
| TOTAL TIME ELAPSED= 2400 SECONDS OR O HOURS, 40 MI         | IUTES, AND O SECONDS.  |
| THE VEHICLE POPULATION IN THE TWO MILE RADIUS IS           | 0  |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 1 IS EQUAL TO 2        | QUEUES; NRAN= 2 NLOD= 0 NBAC= 0 VAOTO= 0   |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 2 IS EQUAL TO 2        | QUEUES; NRAN= 2 NLOD= 0 NBAC= 0 VNOTO= 0   |
| THE VEHICLE POPULATION IN ZONE= 1 IS                       | 4  |
| THE VEHICLE POPULATION IN THE FIVE MILE RADIUS IS          | 4  |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 3 IS EQUAL TO 4        | QUEUES: NRAN= 2 NLOD= 0 NBAC= 0 VMOTO= 2   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 4 IS EQUAL TO 2        | QUEUES: NRAN= 2 NLOD= 0 NBAC= 0 VNOTO= 0   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 5 IS EQUAL TO 3        | QUEUES; NRAN= 3 NLOD= 0 NBAC= 0 VNOTO= 0   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 6 IS EQUAL TO 2        | QUEUES; NRAN= 2 NLOD= 0 NBAC= 0 VNOTO= 0   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 7 IS EQUAL TO 2        | QUEUES: NRAN= 2 NLOD= 0 NBAC= 0 VMOTO= 0   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 8 IS EQUAL TO 2        | QUEUES: NRAN= 2 NLOD= 0 NBAC= 0 VAOTO= 0   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 9 IS EBUAL TO 2        | QUEUES: NRAN= 2 NLOD= 0 NBAC= 0 YROTO= 0   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 11 IS EQUAL TO 2       | QUEUES: NRAN= 2 NLOD= 0 NBAC= 0 VNOTO= 0   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 12 IS EQUAL TO 2       | QUEUES: NRAN= 2 NLOD= 0 NBAC= 0 VMOTO= 0   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 13 IS EQUAL TO 4       | QUEUES: NRAN= 2 NLOD= 0 NBAC= 0 VNOTO= 2   |
| VER DPULATION OF ZONE= 2 ROAD= 14 IS ERUAL TO 5            | QUEVES: NRAN= 5 NLOD= 0 NBAC= 0 VAOTO= 0   |
| VERNE POPULATION OF ZONE= 2, 20101= 15 IS EQUAL TO 2       | SUEVES: NRAM= 2 NLOD= 0 NBAC= 0 VNOTO= 0   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 16 IS EQUAL TO 2       | QUEUES: NRAN= 2 NLOD= 0 NBAC= 0 VNOTO= 0   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 18 IS EQUAL TO         | SUELUES: NRAN= 2 NLVO= 0 NBAC= 0 VNOTO= 0  |
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| VENTCLE POPUL   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |   |
|---|--|--|---|---|---|---|--|--|---|--|---|---|--|---|---|
|   | ATION OF ZONE= 2   |  |   |   |   | VEVES:  | HRAN=  | 3  | NLOD=   | 0  | NBAC=   | 0   | vnoto=   | 0   |   |
|   | THE VEHICLE PO<br>ATION OF ZONE= 3   | OPULATION IN   | ZONE= 2   | 2 15  |   | 9   |  |  |   |  |   | _   |  | _   |   |
| POPUL   | ATION OF ZONE= 3   | ROAD= 20 1   | S EQUAL   | TO  |   | UEUES:  |  |  | HLOD=   |  | NBAC=   |   | VHOTO=   | 0   |   |
|   | ATION OF ZONE= 3   |  |   |   |   | UEUES:  |  |  | NLOD=   |  | NBAC=   |   | VHOTO=   | 0   |   |
|   | ATION OF ZONE= 3   |  |   |   |   | UEUES:  |  |  | HLOD=   |  | HBAC=   | _   | vaoto=   | 0   |   |
|   | ATION OF ZONE= 3   |  |   |   |   | UEUES:  |  |  | NLOD=   | 0  | NBAC=   | 0   | VAOTO=   | 0   |   |
|   | ATION OF ZONE= 3   |  |   |   |   | UEUES   |  |  | hlod=   | 0  |   | 0   | vmoto=   | 5   |   |
|   | ATION OF ZONE= 3   |  |   |   |   | UEUES:  |  |  | NLOD=   | 0  | NBAC=   | 0   | VAOTO=   | 0   | h |
|   | ATION OF ZONE= 3   |  |   |   |   | UEUES:  |  |  | NL00=   | 0  |   | 0   | vnoto=   | 1   |   |
|   | ATION OF ZONE= 3   |  |   |   |   | <b>UEUES</b> :  |  |  | NLOD=   | 0  | NBAC=   | 0   | VAOTO=   | 0   |   |
|   | ATION OF ZONE= 3   |  |   |   | 4 Q   | UEUES:  | NRAN=  | 2  | XL00=   | 0  | NBAC=   | IJ  | vnoto=   | 2   |   |
| VEHICLE POPUL   | ATION OF ZONE= 3   | ROAD= 31 I   | S EQUAL   | TO  | 3 0   | UEUES:  | NRAN=  | 3  | NLOD=   | 0  | NBAC=   | 0   | VAOTO=   | 0   |   |
| VEHICLE POPUL   | ATION OF ZONE= 3   | ROAD= 32 I   | S EQUAL   | TO  | 3 Q   | UEUES:  | NRAN=  | 3  | NLOD=   | 0  | NBAC=   | Q   | vaoto=   | 0   |   |
| VEHICLE POPUL   | ATION OF ZONE= 3   | ROAD= 33 1   | S EQUAL   | T0 1  | 11 Q  | UEUES:  | NRAN=  | 2  | NL00=   | 0  | NBAC=   | 0   | VHOTO=   | 9   |   |
| VEHICLE POPUL   | ATION OF ZONE= 3   | ROAD= 34 1   | S EQUAL   | TO  | 2 8   | UEUES:  | NRAN=  | 0  | NLOD=   | Q  | NBAC=   | 8   | vnoto=   | 2   |   |
|   | THE VEHICLE PO   | DPULATION IN   | ZONE= 3   | 3 IS  | 4   | 9   |  |  |   |  |   |   |  |   |   |
| VEHICLE POPUL   | ATION OF ZONE= 4   | ROAD= 35 IS  | S EQUAL   | TO  | 2 0   | UEUES:  | NRAN=  | 2  | NL00=   | 0  | NBAC=   | 0   | V#0T0=   | 0   |   |
| VEHICLE POPUL   | ATION OF ZONE= 4   | ROAD= 36 I   | S EQUAL   | TO  |   | UEUES:  |  |  | NLOD=   | 0.   | NBAC=   | Ö   | VMOTO=   | 0   |   |
| VEHICLE POPUL   | ATION OF ZONE= 4   | ROAD= 37 IS  | S EQUAL   | TO  |   | UEUES:  |  |  | NLOD=   | 0  |   | 0   | VAOTO=   | 1   |   |
|   | ATION OF ZONE= 4   |  |   |   |   | UEUES:  |  |  | NLOD=   | -  | NBAC=   |   | VNOTO=   | 0   |   |
|   | THE VEHICLE PO   |  |   |   |   | 9   |  | -  |   | -  |   | •   |  | -   |   |
| THE TOT   | AL VEHICLE POPULA  |  |   |   |   | ,<br>101  |  |  |   |  |   |   |  |   |   |
|   | AL VEHICLE POPULA  |  |   |   | 101   | 301   |  |  |   |  |   |   |  |   |   |
|   |  |  | LIT 11L   | 512-  | 101   |   |  |  |   |  |   |   |  |   |   |
| THE PERC  | ENT OF THE INITIA  |  | и тнат н  | AS REF  | I FUA   | CHATED  | = 37.69  | 5Z   |   |  |   |   |  |   |   |
|   |  |  |   |   |   |   |  |  |   | _~~-   |   |   |  | 97  |   |
|   |  | 1997 - 19 |   |   |   |   |  |  |   |  |   |   | 1  | .,  |   |
| VELOPUL   | ATION AS A FUNCTI  | IN OF RADIA  | DISTAN  | ICE AT T  | ITAF:   | กมก   | 185. 20  | <u>л ит</u>  | NITES.  | ΔND  | O SEC   | פֿמאַמ  | t.   |   |   |
| RAD. (1) - 1-10   | - 1POPULATION  | = Λ ¥  | THE Z Å   | F REMAT   | NTNG I  | VENTCLE   | S= 0.00  | ייין<br>א ר  | ¥ TH  | FΣ   | OF THITE  |   |  | 0.00 Z  |   |
|   |  |  |   |   |   |   |  |  |   |  |   |   |  | 0100 4  |   |
| RAD105 1-0  | )- 2PAPIII ATTAN   | l= 10 ¥  | THE Y O   | F RENAT   | INTHG   | VENTCLE   | ີS= ຄ.ຄ≀   | מ מ  | ¥ 11  | F 7  | OF INITI  | 61 U  | FHICLES=   | 0.00 %  |   |
| RADIUS 1-1<br>RADIUS 2-1  | )- 2POPULATION   | (= () <del>*</del><br>(= () *  | THE X O   | )F REMAI  | INING N   | VEHICLE   | S= 0.00  | 0 %<br>1 %   | * TH<br>* 78  | E %<br>F % ;   | OF INITI  | AL V<br>al u  | EHICLES=   |   |   |
|   | D- 2POPULATION<br>D- 3POPULATION<br>D- 4POPULATION   |  |   |   |   |   |  |  |   |  |   |   |  | 0.00 %  |   |
| RADIUS 3-T  | D- 4POPULATION   | l= 0 *   | THE Z O   | )F RENAI  | INING   | VEHICLE   | S= 0.00  | D X  | ¥ TH  | ΕX   | OF INITI  | AL V  | EHICLES=   | 0.00 %<br>0.00 %  |   |
| RADIUS 3-T<br>RADIUS 4-T  | D- 4POPULATION<br>D- 5POPULATION   | l= 0 *<br> = 4 *   | THE Z O<br>THE Z O  | )f renal<br>If renal  | LNING<br>LNING  | VEHICLE<br>VEHICLE  | S= 0.00<br>S= 3.98   | 0 X<br>5 X   | ¥ TH<br>¥ TH  | E %<br>E %   | OF INITI<br>OF INITI  | AL V<br>Al V  | EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %  |   |
| RADIUS 3-T<br>RADIUS 4-T<br>RADIUS 5-T  | )- 4POPULATION<br>)- 5POPULATION<br>)- 6POPULATION   | l= 0 ×<br> = 4 ×<br>(= 0 ×   | THE Z O<br>THE Z O<br>THE Z O   | )F RENAI<br>)F RENAI<br>)F RENAI  | INING<br>INING<br>INING   | VEHICLE<br>VEHICLE<br>VEHICLE   | S= 0.00<br>S= 3.98<br>S= 0.00  | 0 X<br>5 X<br>0 X  | * TH<br>* TH<br>* TH  | E %<br>E %  <br>E %  | OF INITI<br>OF INITI<br>OF INITI  | AL V<br>AL V<br>AL V  | EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %  |   |
| RADIUS 3-T<br>RADIUS 4-T<br>RADIUS 5-T<br>RADIUS 6-T  | )- 4POPULATION<br>)- 5POPULATION<br>)- 6POPULATION<br>)- 7POPULATION   | l= 0 ×<br>l= 4 ×<br>l= 0 ×<br>l= 15 ×  | THE         Z         O           THE         Z         O           THE         Z         O           THE         Z         O   | )F REMAI<br>)F REMAI<br>)F REMAI<br>)F REMAI  | LNING<br>INING<br>INING<br>INING  | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE  | S= 0.00<br>S= 3.98<br>S= 0.00<br>S= 14.85  | D X<br>5 X<br>D X<br>5 X   | * TH<br>* TH<br>* TH<br>* TH  | E %<br>E %  <br>E %  <br>E %   | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI  | AL V<br>AL V<br>AL V<br>AL V  | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %  |   |
| RADIUS 3-T<br>RADIUS 4-TO<br>RADIUS 5-T<br>RADIUS 6-TO<br>RADIUS 7-T  | )- 4POPULATION<br>)- 5POPULATION<br>)- 6POPULATION<br>)- 7POPULATION<br>)- 8POPULATION   | l= 0 x<br> = 4 x<br>(= 0 x<br> = 15 x<br>l= 22 x   | THE         Z         O   | OF RENAL<br>OF RENAL<br>OF RENAL<br>OF RENAL<br>OF RENAL  | INING<br>INING<br>INING<br>INING<br>INING<br>INING  | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE   | S= 0.00<br>S= 3.98<br>S= 0.00<br>S= 14.85<br>S= 21.78  | D X<br>S X<br>D X<br>S X<br>B X  | * TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E %  <br>E %  <br>E %  <br>E %   | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI  | AL V<br>AL V<br>AL V<br>AL V<br>AL V  | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %                                     |   |
| RADIUS 3-T<br>RADIUS 4-T<br>RADIUS 5-T<br>RADIUS 6-T<br>RADIUS 7-T<br>RADIUS 8-T  | )- 4POPULATION<br>)- 5POPULATION<br>)- 6POPULATION<br>)- 7POPULATION<br>)- 8POPULATION<br>)- 9POPULATION   | l= 0 x<br> = 4 x<br>l= 0 x<br> = 15 x<br> = 22 x<br> = 27 x  | THE Z 0   | OF RENAI<br>OF RENAI<br>OF RENAI<br>OF RENAI<br>OF RENAI  | INING<br>INING<br>INING<br>INING<br>INING<br>INING  | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE  | S= 0.00<br>S= 3.98<br>S= 0.00<br>S= 14.85<br>S= 21.78<br>S= 26.73  | D X<br>5 X<br>D X<br>5 X<br>5 X<br>5 X<br>8 X<br>3 X   | * TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E %  <br>E %  <br>E %  <br>E %   | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V                                    | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %                          |   |
| RADIUS 3-T<br>RADIUS 4-T<br>RADIUS 5-T<br>RADIUS 6-T<br>RADIUS 7-T<br>RADIUS 8-T<br>RADIUS 9-T  | D- 4POPULATION<br>D- 5POPULATION<br>D- 6POPULATION<br>D- 7POPULATION<br>D- 8POPULATION<br>D- 9POPULATION<br>D-10POPULATION   | l= 0 *<br>l= 4 *<br>l= 0 ±<br>l= 15 *<br>l= 22 *<br>l= 27 *<br>l= 33 .*  | THE Z 0   | OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI  | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING   | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE  | S= 0.00<br>S= 3.98<br>S= 0.00<br>S= 14.85<br>S= 21.78<br>S= 26.73<br>S= 32.67  | D X<br>S X<br>D X<br>S X<br>B X<br>S X<br>7 X  | * TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z  | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V                                    | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %               |   |
| RADIUS 3-T<br>RADIUS 4-T4<br>RADIUS 5-T<br>RADIUS 5-T4<br>RADIUS 6-T4<br>RADIUS 7-T<br>RADIUS 9-T<br>RADIUS 9-T<br>RADIUS10-T4  | )- 4POPULATION<br>)- 5POPULATION<br>)- 6POPULATION<br>)- 7POPULATION<br>)- 8POPULATION<br>)- 9POPULATION<br>)-10POPULATION<br>)-11POPULATION   | l= 0 *<br> = 4 *<br> = 0 *<br> = 15 *<br> = 22 *<br> = 27 *<br> = 33 .*<br> = 0 *  | THE Z 0   | OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI  | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING   | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE   | S=       0.00         S=       3.98         S=       0.00         S=       14.85         S=       21.78         S=       26.73         S=       32.67         S=       0.00  | 0 X<br>5 X<br>6 X<br>5 X<br>7 X<br>7 X<br>7 X  | * TH<br>* IN<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E Z X X X X X X X X X X X X X X X X X X  | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V                            | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %     |   |
| RADIUS 3-T<br>RADIUS 4-T4<br>RADIUS 5-T<br>RADIUS 6-T4<br>RADIUS 7-T<br>RADIUS 8-T4<br>RADIUS 9-T<br>RADIUS10-T4<br>T0TAL   | D- 4POPULATION<br>D- 5POPULATION<br>D- 6POPULATION<br>D- 7POPULATION<br>D- 8POPULATION<br>D-10POPULATION<br>D-10POPULATION<br>VEHICLE POPULATION   | l= 0 *<br> = 4 #<br> = 15 *<br> = 22 *<br> = 27 *<br> = 27 *<br> = 0 *<br>N WITHIN TE  | THE Z 0         Y MILES=  | OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI  | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING   | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>HICLE F   | S=       0.00         S=       3.98         S=       0.00         S=       14.85         S=       21.76         S=       26.73         S=       32.67         S=       0.00         POPULATION   | D X<br>5 X<br>5 Z<br>5 Z<br>7 Z<br>7 Z<br>0 N OI   | * TH<br>* IH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E X  <br>E X Z  <br>E X Z  <br>E Z X  <br>E Z X  <br>E Z X  <br>E Z  <br>E TEN | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>MILES=  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>61                      | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %     |   |
| RADIUS 3-T<br>RADIUS 4-T4<br>RADIUS 5-T<br>RADIUS 6-T4<br>RADIUS 7-T<br>RADIUS 8-T4<br>RADIUS 9-T<br>RADIUS10-T4<br>T0TAL   | )- 4POPULATION<br>)- 5POPULATION<br>)- 6POPULATION<br>)- 7POPULATION<br>)- 8POPULATION<br>)- 9POPULATION<br>)-10POPULATION<br>)-11POPULATION   | l= 0 *<br> = 4 #<br> = 15 *<br> = 22 *<br> = 27 *<br> = 27 *<br> = 0 *<br>N WITHIN TE  | THE Z 0         Y MILES=  | OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI  | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING   | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>HICLE F   | S=       0.00         S=       3.98         S=       0.00         S=       14.85         S=       21.76         S=       26.73         S=       32.67         S=       0.00         POPULATION   | D X<br>5 X<br>5 Z<br>5 Z<br>7 Z<br>7 Z<br>0 N OI   | * TH<br>* IH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E X  <br>E X Z  <br>E X Z  <br>E Z X  <br>E Z X  <br>E Z X  <br>E Z  <br>E TEN | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>61                      | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %     |   |
| RADIUS 3-T<br>RADIUS 4-T4<br>RADIUS 5-T<br>RADIUS 6-T4<br>RADIUS 7-T<br>RADIUS 8-T4<br>RADIUS 9-T<br>RADIUS10-T4<br>T0TAL   | D- 4POPULATION<br>D- 5POPULATION<br>D- 6POPULATION<br>D- 7POPULATION<br>D- 8POPULATION<br>D-10POPULATION<br>D-10POPULATION<br>VEHICLE POPULATION   | l= 0 *<br> = 4 #<br> = 15 *<br> = 22 *<br> = 27 *<br> = 27 *<br> = 0 *<br>N WITHIN TE  | THE Z 0         Y MILES=  | OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI  | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING   | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>HICLE F   | S=       0.00         S=       3.98         S=       0.00         S=       14.85         S=       21.76         S=       26.73         S=       32.67         S=       0.00         POPULATION   | D X<br>5 X<br>5 Z<br>5 Z<br>7 Z<br>7 Z<br>0 N OI   | * TH<br>* IH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E X  <br>E X Z  <br>E X Z  <br>E Z X  <br>E Z X  <br>E Z X  <br>E Z  <br>E TEN | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>MILES=  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>61                      | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %     |   |
| RADIUS 3-T<br>RADIUS 4-T4<br>RADIUS 5-T<br>RADIUS 6-T4<br>RADIUS 7-T<br>RADIUS 8-T4<br>RADIUS 9-T<br>RADIUS10-T4<br>T0TAL   | D- 4POPULATION<br>D- 5POPULATION<br>D- 6POPULATION<br>D- 7POPULATION<br>D- 8POPULATION<br>D-10POPULATION<br>D-10POPULATION<br>VEHICLE POPULATION   | l= 0 *<br> = 4 #<br> = 15 *<br> = 22 *<br> = 27 *<br> = 27 *<br> = 0 *<br>N WITHIN TE  | THE Z 0         Y MILES=  | OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI  | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING   | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>HICLE F   | S=       0.00         S=       3.98         S=       0.00         S=       14.85         S=       21.76         S=       26.73         S=       32.67         S=       0.00         POPULATION   | D X<br>5 X<br>5 Z<br>5 Z<br>7 Z<br>7 Z<br>0 N OI   | * TH<br>* IH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E X  <br>E X Z  <br>E X Z  <br>E Z X  <br>E Z X  <br>E Z X  <br>E Z  <br>E TEN | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>MILES=  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>61                      | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %     |   |
| RADIUS 3-T<br>RADIUS 4-T<br>RADIUS 5-T<br>RADIUS 6-T<br>RADIUS 7-T<br>RADIUS 8-T<br>RADIUS 9-T<br>RADIUS 9-T<br>RADIUS10-T<br>TOTAL   | D- 4POPULATION<br>D- 5POPULATION<br>D- 6POPULATION<br>D- 8POPULATION<br>D- 8POPULATION<br>D- 9POPULATION<br>D-10POPULATION<br>D-11POPULATION<br>VEHICLE POPULATION   | =       0       *          =       4       *          =       15       *          =       22       *          =       27       *          =       27       *          =       33       .*          =       0       *         N       WITHIN       TEINTION         NTION       WITHIN       *  | THE Z 0<br>THE Z 0  | OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI<br>OF REMAI  | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING   | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>HICLE F   | S=       0.00         S=       3.98         S=       0.00         S=       14.85         S=       21.76         S=       26.73         S=       32.67         S=       0.00         POPULATION   | D X<br>5 X<br>5 Z<br>5 Z<br>7 Z<br>7 Z<br>0 N OI   | * TH<br>* IH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E X  <br>E X Z  <br>E X Z  <br>E Z X  <br>E Z X  <br>E Z X  <br>E Z  <br>E TEN | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>MILES=  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>61                      | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %     |   |
| RADIUS 3-T<br>RADIUS 4-T<br>RADIUS 5-T<br>RADIUS 6-T<br>RADIUS 7-T<br>RADIUS 8-T<br>RADIUS 9-T<br>RADIUS 9-T<br>RADIUS10-T<br>TOTAL<br>TOTAL  | D- 4POPULATION<br>D- 5POPULATION<br>D- 6POPULATION<br>D- 8POPULATION<br>D- 8POPULATION<br>D- 9POPULATION<br>D-10POPULATION<br>D-11POPULATION<br>VEHICLE POPULATION   | I=       0       ¥         I=       4       ¥         I=       15       ¥         I=       22       ¥         I=       27       ¥         I=       33       .¥         I=       0       ¥         N       WITHIN       TEIN         N       WITHIN       TEIN         I       WAS       =  | THE Z 0<br>THE Z 0   | )F REMAI<br>F REMAI<br>F REMAI<br>F REMAI<br>F REMAI<br>F REMAI<br>F REMAI<br>F REMAI<br>101  | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>VE<br>INING<br>VEHIC   | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>HICLE F<br>LE POPU   | ES= 0.00<br>S= 3.98<br>S= 0.00<br>S= 14.85<br>S= 21.78<br>S= 26.73<br>S= 32.67<br>S= 0.00<br>POPULATION O  | D X<br>5 X<br>D X<br>5 Z<br>B X<br>5 Z<br>7 X<br>7 X<br>0 X<br>0 D<br>0 UTS  | * TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E X  <br>E X Z  <br>E X Z  <br>E Z X  <br>E Z X  <br>E Z X  <br>E Z  <br>E TEN | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>MILES=  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>61                      | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %     |   |
| RADIUS 3-T<br>RADIUS 4-TA<br>RADIUS 5-TA<br>RADIUS 6-TA<br>RADIUS 7-T<br>RADIUS 8-TA<br>RADIUS 9-TA<br>RADIUS 9-TA<br>RADIUS10-TA<br>TOTAL<br>TOTAL<br>THE INITIAL V<br>TOTAL TIME EL   | D- 4POPULATION<br>D- 5POPULATION<br>D- 6POPULATION<br>D- 8POPULATION<br>D- 9POPULATION<br>D-10POPULATION<br>D-10POPULATION<br>D-11POPULATION<br>VEHICLE POPULATION<br>AL VEHICLE POPULATION<br>AL VEHICLE POPULATION<br>APSED= 3000 SE   | I=       0       X         I=       4       X         I=       0       X         I=       22       X         I=       27       X         I=       27       X         I=       33       X         I=       0       X         I=       0       X         INN       WITHIN       TEN         ATION       WITHIN       X         A       WAS       =         CONDS       OR  | THE Z 0         THE Z 0 <td< td=""><td>)F REMAI<br/>F REMAI<br/>F REMAI<br/>F REMAI<br/>F REMAI<br/>F REMAI<br/>F REMAI<br/>F REMAI<br/>101<br/>5, 50</td><td>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>VE<br/>INING<br/>VEHIC</td><td>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>HICLE F</td><td>ES= 0.00<br/>S= 3.98<br/>S= 0.00<br/>S= 14.85<br/>S= 21.78<br/>S= 26.73<br/>S= 32.67<br/>S= 0.00<br/>POPULATION O</td><td>D X<br/>5 X<br/>5 Z<br/>5 Z<br/>7 Z<br/>7 Z<br/>0 N OI</td><td>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH</td><td>E X  <br/>E X Z  <br/>E X Z  <br/>E Z X  <br/>E Z X  <br/>E Z X  <br/>E Z  <br/>E TEN</td><td>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>MILES=</td><td>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>61</td><td>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=</td><td>0.00 %<br/>0.00 %<br/>2.47 %<br/>0.00 %<br/>9.26 %<br/>13.58 %<br/>16.67 %<br/>20.37 %<br/>0.00 %</td><td></td></td<>   | )F REMAI<br>F REMAI<br>F REMAI<br>F REMAI<br>F REMAI<br>F REMAI<br>F REMAI<br>F REMAI<br>101<br>5, 50   | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>VE<br>INING<br>VEHIC   | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>HICLE F   | ES= 0.00<br>S= 3.98<br>S= 0.00<br>S= 14.85<br>S= 21.78<br>S= 26.73<br>S= 32.67<br>S= 0.00<br>POPULATION O  | D X<br>5 X<br>5 Z<br>5 Z<br>7 Z<br>7 Z<br>0 N OI   | * TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E X  <br>E X Z  <br>E X Z  <br>E Z X  <br>E Z X  <br>E Z X  <br>E Z  <br>E TEN | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>MILES=  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>61                      | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %     |   |
| RADIUS 3-T<br>RADIUS 4-TA<br>RADIUS 5-TA<br>RADIUS 6-TA<br>RADIUS 7-T<br>RADIUS 8-TA<br>RADIUS 9-TA<br>RADIUS 9-TA<br>RADIUS10-TA<br>TOTAL<br>TOTAL<br>THE INITIAL V<br>TOTAL TIME EL   | 0- 4POPULATION<br>0- 5POPULATION<br>0- 6POPULATION<br>0- 8POPULATION<br>0- 8POPULATION<br>0- 9POPULATION<br>0-10POPULATION<br>0-11POPULATION<br>10 VEHICLE POPULATION<br>10 VEHICLE POPULATION<br>10 SED= 3000 SE<br>10 POPULATION IN  | I=       0 ×         I=       4 ×         I=       0 ×         I=       22 ×         I=       27 ×         I=       33 ·×         I=       0 ×         N       WITHIN         NTION       WITHIN         NONS       R         THE       TWO  | THE Z 0         THE Z 0 <td< td=""><td>&gt;F         REMAI           &gt;F         REMAI     <td>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>VE<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING</td><td>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>FILE POPU<br/>ES, AND<br/>O</td><td>ES= 0.00<br/>S= 3.98<br/>S= 0.00<br/>S= 14.85<br/>S= 21.78<br/>S= 26.73<br/>S= 32.67<br/>S= 0.00<br/>POPULATION O</td><td>D X<br/>5 X<br/>D X<br/>5 Z<br/>B X<br/>5 Z<br/>7 X<br/>7 X<br/>0 X<br/>0 D<br/>0 UTS</td><td>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH</td><td>E X  <br/>E X Z  <br/>E X Z  <br/>E Z X  <br/>E Z X  <br/>E Z X  <br/>E TEN</td><td>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>MILES=</td><td>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>61</td><td>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=</td><td>0.00 %<br/>0.00 %<br/>2.47 %<br/>0.00 %<br/>9.26 %<br/>13.58 %<br/>16.67 %<br/>20.37 %<br/>0.00 %</td><td></td></td></td<>  | >F         REMAI           >F         REMAI <td>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>VE<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING</td> <td>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>FILE POPU<br/>ES, AND<br/>O</td> <td>ES= 0.00<br/>S= 3.98<br/>S= 0.00<br/>S= 14.85<br/>S= 21.78<br/>S= 26.73<br/>S= 32.67<br/>S= 0.00<br/>POPULATION O</td> <td>D X<br/>5 X<br/>D X<br/>5 Z<br/>B X<br/>5 Z<br/>7 X<br/>7 X<br/>0 X<br/>0 D<br/>0 UTS</td> <td>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH</td> <td>E X  <br/>E X Z  <br/>E X Z  <br/>E Z X  <br/>E Z X  <br/>E Z X  <br/>E TEN</td> <td>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>MILES=</td> <td>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>61</td> <td>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=</td> <td>0.00 %<br/>0.00 %<br/>2.47 %<br/>0.00 %<br/>9.26 %<br/>13.58 %<br/>16.67 %<br/>20.37 %<br/>0.00 %</td> <td></td> | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>VE<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING  | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>FILE POPU<br>ES, AND<br>O   | ES= 0.00<br>S= 3.98<br>S= 0.00<br>S= 14.85<br>S= 21.78<br>S= 26.73<br>S= 32.67<br>S= 0.00<br>POPULATION O  | D X<br>5 X<br>D X<br>5 Z<br>B X<br>5 Z<br>7 X<br>7 X<br>0 X<br>0 D<br>0 UTS  | * TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E X  <br>E X Z  <br>E X Z  <br>E Z X  <br>E Z X  <br>E Z X  <br>E TEN          | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>MILES=  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>61                      | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %     |   |
| RADIUS 3-T<br>RADIUS 4-TG<br>RADIUS 5-T<br>RADIUS 6-TG<br>RADIUS 7-T<br>RADIUS 8-TG<br>RADIUS 9-T<br>RADIUS 9-T<br>RADIUS10-TG<br>TOTAL<br>TOTAL<br>TOTAL<br>THE INITIAL V<br>TOTAL TIME EL<br>THE VEHIC  | D- 4POPULATION<br>- 5POPULATION<br>- 6POPULATION<br>- 7POPULATION<br>- 8POPULATION<br>- 9POPULATION<br>-10POPULATION<br>-11POPULATION<br>VEHICLE POPULATION<br>AL VEHICLE POPULATION<br>APSED= 3000 SE<br>LE POPULATION IN<br>THE VEHICLE PO   | I=       0       *         I=       4       *         I=       0       *         I=       15       *         I=       22       *         I=       27       *         I=       33       .*         I=       0       *         IN WITHIN TEN       *         NTION WITHIN       TEN         NON SOR       *         THE TWO MILLION IN   | THE Z 0         THE Z 0 <td< td=""><td>&gt;F       REMAI         &gt;F       REMAI         101          S,       50         S       IS         IS       IS</td><td>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING<br/>INING</td><td>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>VEHICLE<br/>FICLE F<br/>LE POPU<br/>ES, AND<br/>O<br/>O</td><td>ES= 0.00<br/>S= 3.98<br/>S= 0.00<br/>S= 14.85<br/>S= 21.78<br/>S= 26.73<br/>S= 32.67<br/>S= 0.00<br/>POPULATION O</td><td>D X<br/>5 X<br/>D X<br/>5 Z<br/>B X<br/>5 Z<br/>7 X<br/>7 X<br/>0 X<br/>0 D<br/>0 UTS</td><td>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH<br/>* TH</td><td>E X  <br/>E X Z  <br/>E X Z  <br/>E Z X  <br/>E Z X  <br/>E Z X  <br/>E TEN</td><td>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>OF INITI<br/>MILES=</td><td>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>AL V<br/>61</td><td>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=<br/>EHICLES=</td><td>0.00 %<br/>0.00 %<br/>2.47 %<br/>0.00 %<br/>9.26 %<br/>13.58 %<br/>16.67 %<br/>20.37 %<br/>0.00 %</td><td></td></td<>  | >F       REMAI         101          S,       50         S       IS         IS       IS   | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING   | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>FICLE F<br>LE POPU<br>ES, AND<br>O<br>O  | ES= 0.00<br>S= 3.98<br>S= 0.00<br>S= 14.85<br>S= 21.78<br>S= 26.73<br>S= 32.67<br>S= 0.00<br>POPULATION O  | D X<br>5 X<br>D X<br>5 Z<br>B X<br>5 Z<br>7 X<br>7 X<br>0 X<br>0 D<br>0 UTS  | * TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH  | E X  <br>E X Z  <br>E X Z  <br>E Z X  <br>E Z X  <br>E Z X  <br>E TEN          | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>MILES=  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>61                      | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %     |   |
| RADIUS 3-T<br>RADIUS 4-TG<br>RADIUS 5-T<br>RADIUS 6-TG<br>RADIUS 7-T<br>RADIUS 8-TG<br>RADIUS 8-TG<br>RADIUS 9-T<br>RADIUS10-TG<br>TOTAL<br>TOTAL<br>THE INITIAL V<br>TOTAL TIME EL<br>THE VEHICL   | D- 4POPULATION<br>D- 5POPULATION<br>D- 6POPULATION<br>D- 8POPULATION<br>D- 8POPULATION<br>D- 9POPULATION<br>D-10POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11POPULATION<br>D-11   | I=       0       X         I=       4       X         I=       15       X         I=       22       X         I=       27       X         I=       27       X         I=       33       .X         I=       0       X         IN       WITHIN       TEN         INTION       TEN       TEN         INTION       TEN       TEN  | THE Z 0         Y MILES=         EPZ=         162         0 HOURS         E RADIUS         ZONE= 1         E RADIUS   | F       REMAI         I       101         S       101         S       15         S       15   | INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING<br>INING   | VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>VEHICLE<br>FICLE F<br>LE POPU<br>ES, ANU<br>O<br>O<br>O   | ES= 0.00<br>S= 3.98<br>S= 0.00<br>S= 14.85<br>S= 21.78<br>S= 26.73<br>S= 32.67<br>S= 0.00<br>POPULATION (<br>ALATION (   | D X<br>5 X<br>D X<br>5 X<br>B X<br>5 X<br>7 X<br>D X<br>D X<br>OUTS<br>D<br>X<br>OUTS<br>D   | * TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>* TH<br>UTSIDE<br>IDE EPZ   | E E E E E E E E E E E E E E E E E E E  | OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>OF INITI<br>AILES=<br>61  | AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>AL V<br>61                      | EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=<br>EHICLES=   | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %     |   |
| RADIUS 3-T<br>RADIUS 4-TG<br>RADIUS 5-T<br>RADIUS 5-T<br>RADIUS 6-TG<br>RADIUS 8-TG<br>RADIUS 8-TG<br>RADIUS 9-T<br>RADIUS 9-T<br>RADIUS10-TG<br>TOTAL<br>TOTAL<br>THE INITIAL V<br>TOTAL TIME EL<br>THE VEHICL<br>THE VEHICL<br>VEHICLE POPUL                              | D- 4POPULATION<br>D- 5POPULATION<br>D- 6POPULATION<br>D- 8POPULATION<br>D- 8POPULATION<br>D- 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%<br/>0.00 %<br/>2.47 %<br/>0.00 %<br/>9.26 %<br/>13.58 %<br/>16.67 %<br/>20.37 %<br/>0.00 %<br/></td><td></td></td<>   | F       REMAI         F       REM   | 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                           | 0.00 %<br>0.00 %<br>2.47 %<br>0.00 %<br>9.26 %<br>13.58 %<br>16.67 %<br>20.37 %<br>0.00 %<br> |   |

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| VENER POPULATION OF ZONE= 3 ROAD= 33 IS EQUAL TO 14 QUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VNOTO= 14<br>POPULATION OF ZONE= 3 ROAD= 34 IS EQUAL TO 1 QUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VNOTO= 14<br>THE VEHICLE POPULATION IN ZONE= 3 IS 27<br>THE VEHICLE POPULATION IN ZONE= 4 IS 0<br>THE TOTAL VEHICLE POPULATION IN THE TEN MILE RADIUS = 35<br>THE TOTAL VEHICLE POPULATION IN THE ENTIRE EPZ=' 35  |        |
|--|--------|
| THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN EVACUATED = 78.40%   | - 121  |
| VEHICLE POPULATION AS A FUNCTION OF RADIAL DISTANCE AT TIME:0 HOURS,50 MINUTES, AND0 SECONDS.RADIUS0-TO-1POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS1-TO-2POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS2-TO-3POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS3-TO-4POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS4-TO-5POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS5-TO-6POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS5-TO-6POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS5-TO-7POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS6-TO-7POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS7-TO-8POPULATION=3 * THE Z OF REMAINING VEHICLES=17.14 Z * THE Z OF INITIAL VEHICLES=RADIUS9-TO-10POPULATION=11 * THE Z OF REMAINING VEHICLES=3.143 Z * THE Z OF INITIAL VEHICLES=RADIUS0-TO-11POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS10-TO-11POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS10-TO-11POPULATION=0 * THE Z OF REMAINING VEHICLES=0.00 Z * THE Z OF INITIAL VEHICLES=RADIUS10-TO-11POPULATION=0 | 0.00 % |
| THE VEHICLE POPULATION WAS = 162<br>TOTAL THE ELAPSED= 3500 SECONDS OR 1 HOURS, 0 MINUTES, AND 0 SECONDS.<br>THE VEHICLE POPULATION IN THE TWO MILE RADIUS IS 0<br>THE VEHICLE POPULATION IN THE FIVE MILE RADIUS IS 0<br>THE VEHICLE POPULATION IN THE FIVE MILE RADIUS IS 0<br>THE VEHICLE POPULATION IN THE FIVE MILE RADIUS IS 0<br>VEHICLE POPULATION OF ZONE= 3 ROAD= 33 IS EBUAL TO 4 OUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VHOTO= 4<br>THE VEHICLE POPULATION IN ZONE= 4 IS 0<br>THE VEHICLE POPULATION IN ZONE= 4 IS 0<br>THE TOTAL VEHICLE POPULATION IN THE FIN MILE RADIUS = 4<br>THE TOTAL VEHICLE POPULATION IN THE ENTIRE EPZ= 4  | 4      |
| THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN EVACUATED = 97.53%   | - 145  |
| RADIUS 6-T0- 7POPULATION=0 * THE % OF REMAINING VEHICLES=0.00 % * THE % OF INITIAL VEHICLES=RADIUS 7-T0- 8POPULATION=0 * THE % OF REMAINING VEHICLES=0.00 % * THE % OF INITIAL VEHICLES=RADIUS 8-T0- 9POPULATION=0 * THE % OF REMAINING VEHICLES=0.00 % * THE % OF INITIAL VEHICLES=RADIUS 8-T0- 9POPULATION=0 * THE % OF REMAINING VEHICLES=0.00 % * THE % OF INITIAL VEHICLES=RADIUS 9-T0-10POPULATION=4 * THE % OF REMAINING VEHICLES=10.00 % * THE % OF INITIAL VEHICLES=  | 0.00 X |

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THIS IS A RUN MADE ON THE FRKTREESA

TIAL VEHICLE POPULATION WAS = 162 TOTAL FIME ELAPSED= 4200 SECONDS OR 1 HOURS, 10 MINUTES, AND 0 SECONDS. THE VEHICLE POPULATION IN THE TWO MILE RADIUS IS 0 THE VEHICLE POPULATION IN ZONE= 1 IS 0 THE VEHICLE POPULATION IN THE FIVE MILE RADIUS IS 0 THE VEHICLE POPULATION IN ZONE= 2 IS 8 THE VEHICLE POPULATION IN ZONE= 3 IS 8 THE VEHICLE POPULATION IN ZONE= 4 IS 0 THE TOTAL VEHICLE POPULATION IN THE TEN MILE RADIUS = 0 THE TOTAL VEHICLE POPULATION IN THE ENTIRE EPZ= 0 THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN EVACUATED = 100.002 ----- 169 VEHICLE POPULATION AS A FUNCTION OF RADIAL DISTANCE AT TIME: 1 HOURS, 10 MINUTES, AND O SECONDS. 1

DATE: 09/23/82

 TIME (MIN, SEC, TICKS):
 558:
 52:323

 CPU TIME (SEC, TICKS):
 23:
 48

 DISK I/O (SEC, TICKS):
 10:
 79

TICKS/SECOND )

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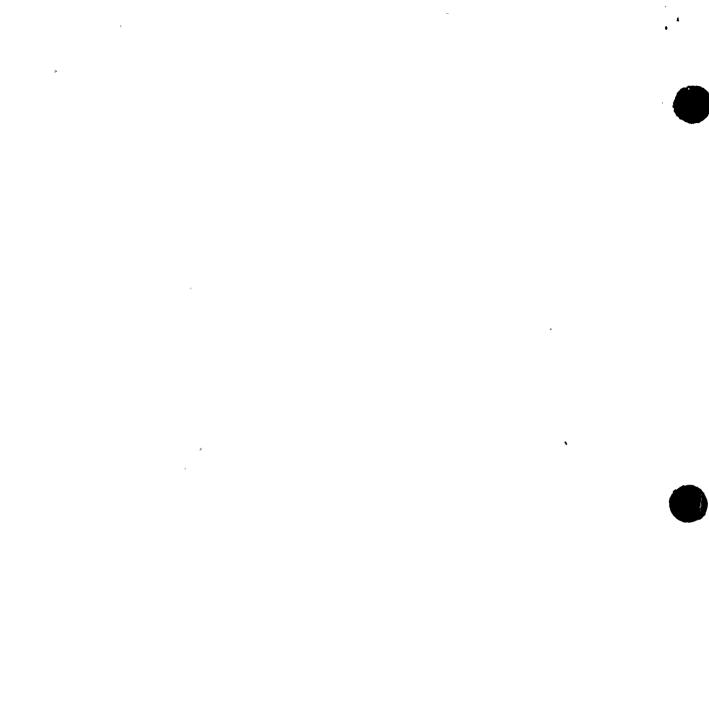
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ANAN N A MANA MANDA N U Н U 8 88 V V V ឹងភិ มม ม 38 U 44 **U** U U ¥ ANAA A A A AAAA AAAA ¥ \* \* \* \* . . . U IJ 444 # ## ## ų NI 1 ¥ ų A A MOOD AAAAA A **u** uuu

PRTOD2 -FORM PRE

SPOOLED: 82-09-23.08:31 STARTED: 82-09-23.08:31, ON: ANLC BY: PRE

PRINTED ON REMOTE PRINTER PRE (MPF 1-263)



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DATE: 08/30/82

 TIME (MIN, SEC, TICKS):
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 6:238

 CPU TIME (SEC, TICKS):
 2:
 33

 DISK I/O (SEC, TICKS):
 4:232

( 330 TICKS/SECOND )

| LU= 6 DELT= 25 TYP= 24 FRACT= 0.10 MAXDEP= 2400 POP<br>ZTW0= 1 ZFIV= 2 ZTEN= 3 ZEPZ= 3 ISTG= 7 EX=<br>***ZONE: 1 POPZN= 0. NRDS= 7 LENRDS= 13500. |                                       | 1700 EVL= 14.20 V= 30.00 |
|---|---------------------------------------|--------------------------|
| ZNRD: 1 LINK= 5 LEN= 500 RADIS= 1 NORVEL= 4   | NLANES= 2 NRSEC= 4                    |                          |
| POPRD= O NRAN= O INCOIS= O<br>ZNRD: 2 LINK= 3 LEN= 1000 RADIS= 1 NONVEL= 40   | NLANES= 2 NRSEC= 0                    |                          |
| POPRD= 0 NRAN= 0 INCDIS= 0  |                                       |                          |
| ZNRD: 3 LINK= 6 LEN= 1500 RADIS= 2 NONVEL= 40<br>D NRAN= 0 INCDIS= 0  | NLANES= 2 NRSEC= 7                    |                          |
| 4 LINK= 5 LEN= 1500 RADIS= 1 NORVEL= 40   | NLANES= 2 NRSEC= 1                    |                          |
| POPRD= 0 NRAN= 0 INCDIS= 0  |                                       |                          |
| ZNRD: 5 LINK= 10 LEN= 3000 RADIS= 2 NORVEL= 44  | NLANES= 2 NRSEC= 9                    |                          |
| POPRD= 0 NRAN= 0 INCDIS= 0<br>ZNRD: 6 LINK= 9 LEN= ~ 2000 RADIS= 2 NORVEL= 44   | WANTER O MOCTER O                     |                          |
| ZNRD: 6 LINK= 9 LEN= ~ 2000 RADIS= 2 NORVEL= 44<br>Poprd= 0 NRAN= 0 Incdis= 0   | NLANES= 2 NRSEC= 8                    |                          |
| ZNRD: 7 LINK= 6 LEN= 4000 RADIS= 2 NOAVEL= 40   | NLANES= 2 NRSEC= 3                    |                          |
| POPRD= O NRAN= O INCOIS= O  |                                       |                          |
| ***ZONE: 2 POPZN= 0. NRDS= 3 LENRDS= 8000.  |                                       | ·                        |
| ZNRD: 8 LINK= 9 LEN= 2000 RADIS= 3 NONVEL= 4  | NLANES= 1 NRSEC= 6                    |                          |
| POPRD= 0 NRAN= 0 INCOIS= 0  |                                       |                          |
| ZNRD: 9 LINK= 10 LEN= 500 RADIS= 3 NONVEL= 44<br>Poprd= "U NRAN= U INCDIS= 0  | NLANES= 2 NRSEC= 5                    |                          |
| POPRD= "U NRAN= U INCDIS= 0<br>ZNRD: 10 LINK= 11 LEN= 5500 RADIS= 5 NOAVEL= 44  | NLANES= 2 NRSEC= 0                    |                          |
| POPRD= U NRAN= O INCOIS= O  | MERNEJ- 2 MAJEG- 0                    |                          |
| ***ZONE: 3 POPZN= 0. NRDS= 3 LENRDS= 16500.   |                                       |                          |
| ZNRD: 11 LINK= 13 LEN= 6000 RADIS= 3 NOAVEL= 40   | NLANES= 2 NRSEC= 12                   |                          |
| POPRD= 0 NRAN= 0 INCDIS= 0  | · · · · · · · · · · · · · · · · · · · |                          |
| ZNRD: 12 LINK= 13 LEN= 8000 RADIS= 9 NONVEL= 40   | NLANES= 1 NRSEC= 11                   |                          |
| POPRD= 0 NRAN= 0 INCDIS= 0<br>ZNRD: 13 LINK= 14 LEN= 2500 RADIS= 10 NONVEL= 40  | W ANCC- 0 NOCCO- 0                    |                          |
| ZNRD: 13 LINK= 14 LEN= 2500 RADIS= 10 NONVEL= 40<br>Poprd= 0 NRAN= 0 Incdis= 0  | HLANES= 2 HRSEC= 0                    |                          |
| ***ZONE: 4 POPZN= 0. NROS= 1 LENROS= 9999.  |                                       |                          |
| ZNRD: 14 LINK= 14 LEN= 9999 RADIS= 11 NONVEL= 40  | NLANES= 9 NRSEC= 0                    |                          |
| **ISTG: ROAD= 1 LENSTG= 500 POPSTG= 2400 PVSTG=   | 1.50                                  |                          |
| ** ROAD= 2 LENSTG= 500 POPSTG= 525 PVSTG=   | 1.50                                  |                          |
| # ROAD= ,4 LENSTG= 1000 POPSTG= 3 PVSTG=  | 1.50                                  |                          |
| *#1510: ROAD= 8 LENSTG= 1500 POPSTG= 1187 PVSTG=  | 1.50                                  |                          |

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|         |       |    |         |      |         | 2918 PVSTG=               |      |
|---------|-------|----|---------|------|---------|---------------------------|------|
| *FISTG: | ROAD= | 12 | LENSTG= | 1500 | POPSTG= | 750 PVSTG=                | 1.50 |
|         | ROAD= | 13 | LENSTG= | 500  | POPSTG= | 750 PVSTG=<br>1040 PVSTG= | 1.50 |
|         |       |    |         |      | 1       |                           |      |

| Initial vehicle population vas =0Total time elapsed=0 seconds or0 hours,0 minutes, and0 seconds.Vehicle population of zone=1 road=1 is equal to1600queues: NRAN=1600NLOD=0NBAC=0 vmoto=Vehicle population of zone=1 road=2 is equal to350queues: NRAN=350NLOD=0NBAC=0 vmoto=Vehicle population of zone=1 road=4 is equal to2 queues: NRAN=2 nLod=0NBAC=0 vmoto=The vehicle population in zone=1 is19521952 | 0       |
|--|---------|
| VEHICLE POPULATION OF ZONE= 2 ROAD= B IS EQUAL TO 791 QUEUES: NRAN= 791 NLOD= O NBAC= O VMOTO=<br>THE VEHICLE POPULATION IN ZONE= 2 IS 791   | 0       |
| THE VEHICLE POPULATION IN THE FIVE MILE RADIUS IS 2743<br>VEHICLE POPULATION OF ZONE= 3 ROAD= 11 IS EQUAL TO 1945 QUEUES: NRAN= 1945 NLOD= 0 NBAC= 0 VMOTO=  |         |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 12 IS EQUAL TO 500 QUEUES: NRAN= 500 NLOD= 0 NBAC= 0 VMOTO=<br>VEHICLE POPULATION OF ZONE= 3 ROAD= 13 IS EQUAL TO 693 QUEUES: NRAN= 693 NLOD= 0 NBAC= 0 VMOTO=   | 0<br>0  |
| THE VEHICLE POPULATION IN ZONE= 3 IS 3138<br>THE TOTAL VEHICLE POPULATION IN THE TEN MILE RADIUS = 5881<br>THE TOTAL VEHICLE POPULATION IN THE ENTIRE EPZ= 5881  |         |
| THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN EVACUATED = 0.002  |         |
| VEHICLE POPULATION AS A FUNCTION OF RADIAL DISTANCE AT TIME: O HOURS, O MINUTES, AND O SECONDS.  | · 1     |
| RADIUS 0-TO- 1POPULATION= 1952 * THE X OF REMAINING VEHICLES= 33.19 X * THE X OF INITIAL VEHICLES=   | 33.19 % |
| THE X OF REMAINING VEHICLES= 0.00 X * THE X OF REMAINING VEHICLES= 0.00 X * THE X OF INITIAL VEHICLES=   | 0.00%   |
| - NOS 2-TO- 3POPULATION= 791 * THE Z OF REMAINING VEHICLES= 13.45 Z * THE Z OF INITIAL VEHICLES=   |         |
| RADIUS 3-TO- 4POPULATION= 0 * THE % OF REMAINING VEHICLES= 0.00 % * THE % OF INITIAL VEHICLES=   | 0.00 %  |
| RADIUS 4-TO- 5POPULATION= 0 * THE % OF REMAINING VEHICLES= 0.00 % * THE % OF INITIAL VEHICLES=   | 0.00 X  |
| RADIUS 5-TO- 5 POPULATION= 0 * THE Z OF REMAINING VEHICLES= 0.00 Z * THE Z OF INITIAL VEHICLES=  |         |
| RADIUS 6-TO- 7POPULATION= 0 * THE Z OF REMAINING VEHICLES= 0.00 Z * THE Z OF INITIAL VEHICLES=   |         |
| RADIUS 7-TO- 8POPULATION= 1945 * THE % OF REMAINING VEHICLES= 33.07 % * THE % OF INITIAL VEHICLES=   |         |
| RADIUS 8-TO- 9 POPULATION= 500 * THE % OF REMAINING VEHICLES= 8.50 % * THE % OF INITIAL VEHICLES=  |         |
| RADIUS 9-TO-10POPULATION= 693 * THE Z OF REMAINING VEHICLES= 11.78 Z * THE Z OF INITIAL VEHICLES=  |         |
| RADIUS10-T0-11POPULATION= O * THE Z OF KENAINING VEHICLES= 0.00 Z * THE Z OF INITIAL VEHICLES=   | 0.00 %  |
| TOTAL VEHICLE POPULATION WITHIN TEN MILES= 5881VEHICLE POPULATION OUTSIDE TEN MILES= 0   |         |
| TOTAL VEHICLE POPULATION WITHIN EPZ= 5881VEHICLE POPULATION OUTSIDE EPZ= 0   |         |
| THE INITIAL VEHICLE POPULATION WAS = 5881  |         |
| TOTAL TIME ELAPSED= 600 SECONDS OR D HOURS, 10 MINUTES, AND D SECONDS.   | _       |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 1 IS EQUAL TO 1441 QUEUES: NRAN= 1441 NLOD= 0 NBAC= 0 VNOTO=   | 0       |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 2 IS EQUAL TO 316 QUEUES: NRAN= 316 NLOD= 0 NBAC= 0 VAOTO=   | 0       |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 3 IS EQUAL TO 4 QUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VNOTO=   | 4       |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 4 IS EQUAL TO 2 QUEUES: NRAN= 2 NLOD= 0 NBAC= 0 VROTO=   | 0       |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 5 IS EQUAL TO 46 QUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VHOTO=  | _       |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 6 IS EQUAL TO 7 QUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VAOTO=   | 7       |
| THE VEHICLE POPULATION IN ZONE= 1 IS 1816  |         |
| THE VEHICLE POPULATION IN THE TWO AILE RADIUS IS 1816  |         |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 8 IS EQUAL TO 712 QUEUES: NRAN= 712 NLOD= 0 NBAC= 0 VNOTO=   |         |
| POPULATION OF ZONE= 2 ROAD= 9 IS EQUAL TO 6 QUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VNOTO=   |         |
| VALUE POPULATION OF ZONE= 2 ROAD= 10 IS EQUAL TO 149 QUEUES; NRAN= 0 NLOD= 0 NBAC= 0 VNOTO=  | 149     |
| THE VEHICLE POPULATION IN ZONE= 2 IS 867   |         |

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| VEHICLE POPULATION IN THE FIVE MILE RADIUS IS 2683<br>VEHICLE POPULATION OF ZONE= 3 ROAD= 11 IS EQUAL TO 1884 QUEUES: NRAN= 1751 NLOD= 0 NBAC= 0 VMOTO= 133<br>VEHICLE POPULATION OF ZONE= 3 ROAD= 12 IS EQUAL TO 451 QUEUES: NRAN= 451 NLOD= 0 NBAC= 0 VMOTO= 0<br>VEHICLE POPULATION OF ZONE= 3 ROAD= 13 IS EQUAL TO 635 QUEUES: NRAN= 624 NLOD= 0 NBAC= 0 VMOTO= 11<br>THE VEHICLE POPULATION IN ZONE= 3 IS 2970<br>THE TOTAL VEHICLE POPULATION IN THE TEN MILE RADIUS = 5653<br>THE TOTAL VEHICLE POPULATION IN THE ENTIRE EPZ= 5653  |   |
|--|---|
| THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN EVACUATED = 3.88%  |   |
| 25   |   |
| VEHICLE POPULATION AS A FUNCTION OF RADIAL DISTANCE AT TIME:0 HOURS,10 MINUTES, AND0 SECONOS.RADIUS 0-T0- 1POPULATION=1759 *THE Z OF REMAINING VEHICLES=31.12 X *THE Z OF INITIAL VEHICLES=29.91 XRADIUS 1-T0- 2POPULATION=57 *THE Z OF REMAINING VEHICLES=1.01 X *THE Z OF INITIAL VEHICLES=0.97 XRADIUS 2-T0- 3POPULATION=718 *THE Z OF REMAINING VEHICLES=12.70 X *THE Z OF INITIAL VEHICLES=12.21 XRADIUS 3-T0- 4POPULATION=0 *THE Z OF REMAINING VEHICLES=0.00 X *THE Z OF INITIAL VEHICLES=0.00 XRADIUS 4-T0- 5POPULATION=149 *THE Z OF REMAINING VEHICLES=2.64 X *THE Z OF INITIAL VEHICLES=2.53 XRADIUS 5-T0- 6POPULATION=0 *THE Z OF REMAINING VEHICLES=0.00 X *THE Z OF INITIAL VEHICLES=0.00 XRADIUS 6-T0- 7POPULATION=0 *THE Z OF REMAINING VEHICLES=0.00 X *THE Z OF INITIAL VEHICLES=0.00 XRADIUS 6-T0- 7POPULATION=0 *THE Z OF REMAINING VEHICLES=0.00 X *THE Z OF INITIAL VEHICLES=0.00 XRADIUS 7-T0- 8POPULATION=0 *THE Z OF REMAINING VEHICLES=0.00 X *THE Z OF INITIAL VEHICLES=0.00 XRADIUS 7-T0- 8POPULATION=0 *THE Z OF REMAINING VEHICLES=0.00 X *THE Z OF INITIAL VEHICLES=0.00 XRADIUS 7-T0- 8POPULATION=1984 *THE Z OF REMAINING VEHICLES=33.33 X *THE Z OF INITIAL VEHICLES=32.04 X |   |
| RADIUS 8-TO- 9POPULATION= 451 * THE % OF REMAINING VEHICLES= 7.98 % * THE % OF INITIAL VEHICLES= 7.67 %  |   |
| RADIUS9-TO-10POPULATION= 635 * THE Z OF REMAINING VEHICLES= 11.23 Z * THE Z OF INITIAL VEHICLES= 10.80 Z<br>RADIUS10-TO-11POPULATION= 0 * THE Z OF REMAINING VEHICLES= 0.00 Z * THE Z OF INITIAL VEHICLES= 0.00 Z  |   |
| TOTAL VEHICLE POPULATION WITHIN TEN MILES= 5653VEHICLE POPULATION OUTSIDE TEN MILES= 228   | - |
| THE INITIAL VEHICLE POPULATION WAS = 5881<br>TOTAL TIME ELAPSED= 1200 SECONDS OR 0 HOWS; 20 #INUTES, AND 0 SECONDS.  |   |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 1 IS EQUAL TO 1081 QUEUES: NRAN= 1081 NLOD= 0 NBAC= 0 VAGIO= 0   |   |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 2 IS EQUAL TO 237 QUEUES: NRAN= 237 NLOD= 0 NBAC= 0 VNOTO= 0   |   |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 3 IS EQUAL TO 10 QUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VAOTO= 10   |   |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 4 IS EQUAL TO 2 QUEUES: NRAN= 2 NLOD= 0 NBAC= 0 VAOTO= 0<br>Vehicle population of Zone= 1 road= 5 is equal to 105 queues: Nran= 0 NLOD= 0 NBAC= 0 vaoto= 105   |   |
| VEHICLE POPULATION OF ZONE= 1 ROAD= 5 IS EQUAL TO '105 QUEUES; NRAN= 0 NLOD= 0 NBAC= 0 VAOTO= 105<br>VEHICLE POPULATION OF ZONE= 1 KOAD= 6 IS EQUAL TO 16 QUEUES; NRAN= 0 NLOD= 0 NBAC= 0 VAOTO= 16  |   |
| THE VEHICLE POPULATION IN ZONE= 1 IS 1451  |   |
| THE VEHICLE POPULATION IN THE TWO AILE RADIUS IS 1451  |   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 8 IS EQUAL TO 534 QUEUES: NRAN= 534 NLOD= 0 NBAC= 0 VNOTO= 0   |   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 9 IS EQUAL TO 11 QUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VMOTO= 11   |   |
| VEHICLE POPULATION OF ZONE= 2 ROAD= 10 IS EQUAL TO 360 QUEUES; NRAN= 0 NLOD= 0 NBAC= 19 VNOTO= 341<br>The vehicle population in Zone= 2 is 905   |   |
| THE VEHICLE POPULATION IN ZONE= 2 IS 905<br>THE VEHICLE POPULATION IN THE FIVE AILE RADIUS IS 2356   |   |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 11 IS EQUAL TO 1543 QUEUES: NRAN= 1313 NLOD= 0 NBAC= 0 VNOTO= 230  |   |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 12 IS EQUAL TO 338 QUEUES: NRAN= 338 NLOD= 0 NBAC= 0 VNOTO= 0  |   |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 13 IS EQUAL TO 726 QUEUES: NRAN= 468 NLOD= 0 NBAC= 0 VNOTO= 258  |   |
| THE VEHICLE POPULATION IN ZONE= 3 IS 2607  |   |
| THE TOTAL VEHICLE POPULATION IN THE TEN MILE RADIUS = 4963<br>The Total Vehicle population in the entire epz= 4963   |   |
|  |   |
| THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN EVACUATED = 15.61%   |   |
| 49<br>V POPULATION AS A FUNCTION OF RADIAL DISTANCE AT TIME: O HOURS, 20 MINUTES, AND O SECONDS.<br>RADIUS 0-TO- 1POPULATION= 1320 # THE % OF REMAINING VEHICLES= 26.60 % # THE % OF INITIAL VEHICLES= 22.45 %<br>RADIUS 1-TO- 2POPULATION= 131 # THE % OF REMAINING VEHICLES= 2.64 % # THE % OF INITIAL VEHICLES= 2.23 %<br>RADIUS 2-TO- 3POPULATION= 545 # THE % OF REMAINING VEHICLES= 10.98 % # THE % OF INITIAL VEHICLES= 9.27 %  |   |

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--- 3-10- 4---POPULATION= 0 \* THE Z OF REMAINING VEHICLES= 0.00 Z \* THE Z OF INITIAL VEHICLES= 0.00 Z --- 4-TO- 5---- YOPULATION= 360 \* THE % OF REMAINING VEHICLES= 7.25 % \* THE % OF INITIAL VEHICLES= 6.12 % RADIUS--- 5-TO- 6---POPULATION= 0 \* THE X OF REMAINING VEHICLES= 0.00 X \* THE X OF INITIAL VEHICLES= 0.00 X RADIUS--- 6-TO- 7---POPULATION= 0 \* THE X OF REMAINING VEHICLES= 0.00 X \* THE X OF INITIAL VEHICLES= 0.00 X RADIUS--- 7-TO- 8---POPULATION= 1543 \* THE X OF REMAINING VEHICLES= 31.09 X \* THE X OF INITIAL VEHICLES= 26.24 X RADIUS--- 8-TO- 9---POPULATION= 338 \* THE X OF REMAINING VEHICLES= 6.81 X \* THE X OF INITIAL VEHICLES= 5.75 X RADIUS--- 9-TO-10---POPULATION= 726 \* THE % OF REMAINING VEHICLES= 14.63 % \* THE % OF INITIAL VEHICLES= 12.34 % RADIUS---10-T0-11---POPULATION= 0 \* THE % OF REMAINING VEHICLES= 0.00 % \* THE % OF INITIAL VEHICLES= 0.00 % ------TOTAL VEHICLE POPULATION WITHIN TEN MILES= 4963 ---VEHICLE POPULATION OUTSIDE TEN MILES= 918 -----------TOTAL VEHICLE POPULATION WITHIN EPZ= 4963 ---VEHICLE POPULATION OUTSIDE EPZ= 918 -----THE INITIAL VEHICLE POPULATION WAS = 5881 30 MINUTES, AND D SECONDS. TOTAL TIME ELAPSED= 180D SECONDS OR O HOURS. QUEUES: NRAN= 361 NLOD= 0 NBAC= 0 VN0T0= 0 VEHICLE POPULATION OF ZONE= 1 ROAD= 1 IS EQUAL TO 361 VEHICLE POPULATION OF ZONE= 1 ROAD= 2 IS EQUAL TO QUEUES: NRAN= 79 NLOD= 0 NBAC= O VAOTO= O 79 O NLOD= O NBAC= VEHICLE POPULATION OF ZONE= 1 ROAD= 3 IS EQUAL TO QUEUES: NRAN= 0 VN0T0= 20 20 0 NLOD= 0 NBAC= 0 VN0T0= 270 VEHICLE POPULATION OF ZONE= 1 ROAD= 5 IS EQUAL TO 270 QUEUES: NRAN= VEHICLE POPULATION OF ZONE= 1 ROAD= 5 IS EQUAL TO J3 QUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VM0T0= 33 THE VEHICLE POPULATION IN ZONE= 1 IS 763 THE VEHICLE POPULATION IN THE TWO MILE RADIUS IS 763 QUEUES: NRAN= 178 NLOD= O VNOTO= VEHICLE POPULATION OF ZONE= 2 ROAD= 8 IS EQUAL TO 178 O NBAC= 0 VEHICLE POPULATION OF ZONE= 2 ROAD= 9 IS EQUAL TO 21 QUEUES: NRAN= O NLOD= 0 NBAC= 0 VN0T0= 21 VEHICLE POPULATION OF ZONE= 2 ROAD= 10 IS EQUAL 10 843 QUEUES: NRAN= O NLOD= 0 NBAC= 102 VAOTO= 741 THE VEHICLE POPULATION IN ZONE= 2 IS 1042 VEHICLE POPULATION IN THE FIVE MILE RADIUS IS 1805 Z POPULATION OF ZONE= 3 ROAD= 11 IS EQUAL TO 874 QUEUES: NRAN= 438 NLOD= 0 NBAC= 0 VAOTO= 436 0 VN0T0= 0 VERICLE POPULATION OF ZONE= 3 ROAD= 12 IS EQUAL TO QUEUES: NRAN= 113 NLOD= O NBAC= 113 VEHICLE POPULATION OF ZONE= 3 ROAD= 13 IS EQUAL TO 963 QUEUES: NRAN= 156 NLOD= 0 NBAC= 500 VHOTO= 307 THE VEHICLE POPULATION IN ZONE= 3 IS 1950 THE FOTAL VEHICLE POPULATION IN THE TEN MILE RADIUS = 3755 THE TOTAL VEHICLE POPULATION IN THE ENTIRE EPZ= 3755 THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN EVACUATED = 36.152 73 VEHICLE POPULATION AS A FUNCTION OF RADIAL DISTANCE AT TIME: O HOURS, 30 MINUTES, AND O SECONDS. RADIUS--- 0-TO- 1---POPULATION= 440 \* THE % OF REMAINING VEHICLES= 11.72 % \* THE % OF INITIAL VEHICLES= 7.48 % RADIUS--- 1-TO- 2---POPULATION= 323 \* THE Z OF REMAINING VEHICLES= 8.60 Z \* THE Z OF INITIAL VEHICLES= 5.49 Z RADIUS--- 2-TO- 3---POPULATION= 199 \* THE X OF REMAINING VEHICLES= 5.30 X \* THE X OF INITIAL VEHICLES= 3.38 % RADIUS--- 8-TO- 9---POPULATION= 113 \* THE 2 OF REMAINING VEHICLES= 3.01 2 \* THE 2 OF INITIAL VEHICLES= 1.92 2 963 \* THE X OF REMAINING VEHICLES= 25.65 X \* THE X OF INITIAL VEHICLES= 16.37 X 0 \* THE X OF REMAINING VEHICLES= 0.00 X \* THE X OF INITIAL VEHICLES= 0.00 X RADIUS--- 9-TO-10---POPULATION= RADIUS---10-T0-11---POPULATION= -----TOTAL VEHICLE POPULATION WITHIN TEN AILES= 3755 ---VEHICLE POPULATION OUTSIDE TEN AILES= 2126 ----------TOTAL VEHICLE POPULATION WITHIN EPZ= 3755 ---VEHICLE POPULATION OUTSIDE EPZ= 2126 -----

THE TAITIAL VEHICLE POPULATION WAS = 5881 TOTAL TIME ELAPSED= 240D SECONDS OR 0 HOURS, 40 MINUTES, AND 0 SECONDS. VEHICLE POPULATION OF ZONE= 1 ROAD= 3 IS EQUAL TO 10 QUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VMOTO= 10

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| THE VEHICLE POPULATION IN THE TWO AILE RADIUS IS 148  |  |
|---|--|
| VEHICLE POPULATION OF ZONE= 2 ROAD= 9 IS EQUAL TO 11 QUEUES: NRAN= 0 NLOD= 0 NBAC= 0 VMOTO= 11<br>VEHICLE POPULATION OF ZONE= 2 ROAD= 10 IS EQUAL TO 618 QUEUES: NRAN= 0 NLOD= 0 NBAC= 25 VMOTO= 593<br>THE VEHICLE POPULATION IN ZONE= 2 IS 629<br>THE VEHICLE POPULATION IN THE FIVE MILE RADIUS IS 777   |  |
| VEHICLE POPULATION OF ZONE= 3 ROAD= 11 IS EQUAL TO 826 QUEUES: NRAN= 0 NLOD= 0 NBAC= 68 VMOTO= 758<br>VEHICLE POPULATION OF ZONE= 3 ROAD= 13 IS EQUAL TO 1057 QUEUES: NRAN= 0 NLOD= 0 NBAC= 734 VMOTO= 323<br>The vehicle population in zone= 3 is 1883<br>The Total vehicle population in the ten mile radius = 2660<br>The Total vehicle population in the entire epz= 2660   |  |
| THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN EVACUATED = 54.77%  | 97   |
| RADIUS1-TO-2POPULATION=148 *THE X OF REMAINING VEHICLES=5.56 X*THE X OF INITIAL VEHICLES=2.RADIUS2-TO-3POPULATION=11 *THE X OF REMAINING VEHICLES=0.41 X*THE X OF INITIAL VEHICLES=0.RADIUS3-TO-4POPULATION=0 *THE X OF REMAINING VEHICLES=0.41 X*THE X OF INITIAL VEHICLES=0.RADIUS4-TO-5POPULATION=0 *THE X OF REMAINING VEHICLES=0.00 X*THE X OF INITIAL VEHICLES=0.RADIUS5-TO-6POPULATION=0 *THE X OF REMAINING VEHICLES=0.00 X*THE X OF INITIAL VEHICLES=10.RADIUS5-TO-6POPULATION=0 *THE X OF REMAINING VEHICLES=0.00 X*THE X OF INITIAL VEHICLES=0.RADIUS5-TO-6POPULATION=0 *THE X OF REMAINING VEHICLES=0.00 X*THE X OF INITIAL VEHICLES=0.RADIUS5-TO-7POPULATION=0 *THE X OF REMAINING VEHICLES=0.00 X*THE X OF INITIAL VEHICLES=0.RADIUS7-TO-8POPULATION=0 *THE X OF REMAINING VEHICLES=0.00 X*THE X OF INITIAL VEHICLES=14.RADIUS7-TO-8POPULATION=0 *THE X OF REMAINING VEHICLES=0.00 X*THE X OF INITIAL VEHICLES=14.RADIUS7-TO-8POPULATION=0 *THE X OF REMAINING VEHICLES=0.00 X*THE X OF INITIAL VEHICLES=14.RADIUS7-TO-9POPULATION=0 *THE X OF REMAINING VEHICLES=0.00 X*THE X OF INITIAL VEHICLES=14.RADIUS7-TO-9P | 00 X<br>52 X<br>19 X<br>60 X<br>51 X<br>00 X<br>00 X<br>00 X<br>97 X<br>00 X |
| THE INITIAL VEHICLE POPULATION WAS = 5881<br>TOTAL TIME ELAPSED= 3000 SECONDS OR 0 HOURS, 50 MINUTES, AND 0 SECONDS.<br>THE VEHICLE POPULATION IN ZONE= 1 IS 0<br>THE VEHICLE POPULATION IN THE TWO AILE RADIUS IS 0<br>THE VEHICLE POPULATION IN THE FIVE AILE RADIUS IS 0<br>THE VEHICLE POPULATION IN THE FIVE AILE RADIUS IS 0<br>VEHICLE POPULATION OF ZONE= 3 ROAD= 11 IS EQUAL TO 582 QUEUES: NRAN= 0 HLOD= 0 NBAC= 0 VMOTO= 582<br>VEHICLE POPULATION OF ZONE= 3 ROAD= 13 IS EQUAL TO 397 QUEUES: NRAN= 0 HLOD= 0 NBAC= 52 VMOTO= 345<br>THE VEHICLE POPULATION IN ZONE= 3 IS 979<br>THE TOTAL VEHICLE POPULATION IN THE TEN AILE RADIUS = 979<br>THE TOTAL VEHICLE POPULATION IN THE ENTIRE EPZ= 979   |  |
| THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN EVACUATED = 83.35%  | 121  |
| RADIUS  | 00 Z<br>10 Z<br>10 Z<br>10 Z<br>10 Z<br>10 Z                                 |

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THIS IS A RUN HADE ON THE NBENI

THE INITIAL VEHICLE POPULATION WAS = 5881 1 HOURS, TOTAL TIME ELAPSED= 3600 SECONDS OR O MINUTES, AND O SECONDS. THE VEHICLE POPULATION IN ZONE= 1 IS 8 THE VEHICLE POPULATION IN THE TWO MILE RADIUS IS 0 THE VEHICLE POPULATION IN ZONE= 2 IS ß THE VEHICLE POPULATION IN THE FIVE MILE RADIUS IS ß THE VEHICLE POPULATION IN ZONE= 3 IS 0 THE TOTAL VEHICLE POPULATION IN THE TEN MILE RADIUS = 8 THE TOTAL VEHICLE POPULATION IN THE ENTIRE EPZ= 0 THE PERCENT OF THE INITIAL POPULATION THAT HAS BEEN EVACUATED = 100.00% ----- 145

VEHICLE POPULATION AS A FUNCTION OF RADIAL DISTANCE AT TIME: 1 HOURS, O MINUTES, AND O SECONDS.

08/30/82

1

 TIME
 (MIN,SEC,TICKS):
 720:
 26:207

 CPU
 TIME
 (SEC,TICKS):
 405:
 32

 OISK
 I/O
 (SEC,TICKS):
 16:302

( 330 TICKS/SECOND )



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