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# A Method for Determining Radioactive Material Shipment Patterns in Urban Areas

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## Abstract

This report details the development of representative sets of radioactive material shipments into, out of, and through a number of densely populated urban areas. These data represent a large portion of the information required for the assessment of the risks associated with the transportation of radioactive materials in these urban settings. Standard shipment models have been developed for twenty highly populated urban areas, using background data from a 1975 survey of shippers of radioactive materials. These models and the methods and assumptions required for their formulations are presented. Each shipment is specified by the material shipped (nuclide), transport mode, number of shipments per year of that type, size of shipment (curies), transport index (TI), package type, physical form, and material end use (medical/research, industrial, fuel cycle, and waste).

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## INTRODUCTION

On May 10, 1976, Sandia National Laboratories began work for the Nuclear Regulatory Commission to assess the risk associated with the transportation of radioactive materials through densely populated urban areas. The study was to address both radiological and nonradiological impacts from radioactive material transport under four causative events: 1) incident-free transport, 2) vehicular accidents, 3) human errors or deviations from quality assurance practices, and 4) sabotage. A working draft assessment, published in May 1978, contained the preliminary results of Sandia's modeling efforts.<sup>1</sup>

The working draft assessment focused on a base case urban environment. A 100 square-kilometer area in New York City was selected for initial detailed analysis because of its variation in population characteristics and land use. This area was subdivided into one-square-kilometer cells forming a 10 by 10 km grid. Parameters were assigned to each cell based on its location within the grid and time of day. The result was an extensive data base including parameters dependent on cell location (fraction of land area occupied by streets, building type, etc.); time (freeway velocity, etc.); cell and time (traffic counts, population densities, etc.); and other, independent data base variables.

Also developed as part of the data base was a model of standard radioactive shipments for the limited New York City study area. The large number and variety of radioactive shipments into, out of, and through New York City required that a representative and manageable set of shipment types be selected for consideration in the transportation study. This standard shipments model was generated using as the basis a nationwide 1975 survey of shippers of radioactive material.<sup>2</sup> The background data from the survey, in combination with a geographic data base,<sup>3</sup> enabled a characterization by isotope, of shipments in the grid area. The limited New York City area standard shipment model also included a designation of shipment direction from cell center to cell center and a route start time.

In November 1978 the NRC requested that the working draft assessment be expanded, in part, by simplifying the consequence models developed for New York City through sensitivity analysis techniques, and applying the simplified models to other large cities. The sensitivity analysis was successful in greatly reducing the data base and number of calculations required for estimating risk associated with incident-free transport. Modeling complexities prevented the development of simplified equations for the other causative events. However, less precise estimates of risk were made for the causative event categories other than incident-free transport.\* The sensitivity analysis and results of the generic extension to other cities are

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\*Appendix B of this report describes the categories of shipment data used to derive the risk estimates from vehicular accidents and human errors. These shipment data were not used to evaluate the effects of location shifts on the consequences of sabotage.

reported in the revised draft assessment of the environmental impacts of radioactive material transport in urban areas.<sup>4</sup>

For each of the sites selected for inclusion in the generic extension of the New York City model, a reduced standard shipment model was developed. This involved using the same techniques employed in generating the New York City shipment model, but without specifying routes or route start times through each urban area. This report discusses the method used to determine these radioactive shipment patterns. A reduced standard shipment model for the limited New York City area is also presented for comparative purposes.

#### SELECTION OF ADDITIONAL CITIES

Metropolitan areas have been variously defined to reflect their political, social, and economic characteristics. In selecting cities for inclusion in the generic extension of the transportation study, the U. S. Office of Federal Statistical Policy and Standards' definition of standard metropolitan statistical areas (SMSA's) was used. The SMSA is a generally recognized socio-economic unit encompassing the county in which the central city is located and contiguous counties with close economic ties to the central city.

A list of the twenty most populous SMSA's was prepared using information given in the 1978 Statistical Abstract of the United States and is shown in Table 1.<sup>5</sup> The list includes cities which represent different regions of the country, population densities, and transportation networks. Approximately 31 percent of the total U. S. population resides in these SMSA's. It was felt that these twenty areas would be sufficiently representative of the nation's large urban cities for purposes of the generic extension.

#### SHIPMENT DATA

In 1975 Battelle Pacific Northwest Laboratories conducted a survey of shippers of radioactive material in the U. S.<sup>2</sup> The standard shipment model for each of the twenty SMSA's relies upon the data base established by the survey. A description of the Battelle survey procedures and the adaptation of survey results follow.

A list of potential shippers of radioactive material was compiled using information supplied by the NRC, its Agreement States, and the Energy Research and Development Agency (now Department of Energy). From this list two subsets were identified, shippers of special nuclear material (SNM) and probable major shippers. The first group was comprised of those known to have shipped more than one gram of SNM, primarily uranium and plutonium, per year. The second group was identified by regulatory agencies. Given the importance of these two groups, all shippers of SNM and probable major shippers were sent detailed questionnaires. The detailed questionnaires requested information on every shipment of radioactive material made during the survey period. The only differences in the detailed questionnaires sent to the two groups were in the survey time period and reporting units.

Table 1  
Twenty Most Populous SMSA's

Rank	SMSA	July 1, 1976 Population (thousands)
1	New York	9509
2	Los Angeles-Long Beach	6997
3	Chicago	6993
4	Philadelphia	4803
5	Detroit	4406
6	San Francisco-Oakland	3158
7	Washington, D.C.	3037
8	Boston	2862
9	Nassau-Suffolk	2677
10	Dallas-Ft. Worth	2611
11	Houston	2423
12	St. Louis	2384
13	Pittsburgh	2303
14	Baltimore	2144
15	Minneapolis-St. Paul	2048
16	Newark	1993
17	Cleveland	1967
18	Atlanta	1805
19	Anaheim-Santa Ana-Garden Grove	1756
20	San Diego	1624
<b>Total</b>		<b>67 500</b>

Shippers of SNM were asked to report shipments over a one year period and to specify the amount of material shipped in grams. Probable major shippers reported over time periods varying from one week to six months, depending on the number of packages shipped. The responses were then extrapolated to cover a one-year period. Probable major shippers receiving detailed questionnaires were asked to report quantity shipped in curies. These two groups included 1,049 shippers of radioactive material.

About nine percent of the remaining 14,000 shippers of radioactive material were sampled and received summary questionnaires. The summary questionnaires did not request specific information on individual shipments. Instead the respondent was asked to provide general information to the best of his knowledge on shipping activity over a one-year period. 1,226 shippers received summary questionnaires, and the results were extrapolated to represent this large group of shippers of small quantities of radioactive materials.

The combination of information collected from the three sample groups mentioned above completes the shipment data base. Among the items available on computer reports are: shipment origin and destination, major mode of transportation, the quantity shipped (in either grams or curies), Transport Index,\* the type of shipping containers used, and the chemical and physical form of the radioactive material.

The origin of a radioactive shipment and its destination were recorded in different formats in the Battelle survey. Shipment origin was specified by Zip Code while destination was given by a city and state. In order to have a common method of accessing information either to or from a given location, the Battelle survey data were merged with a Geographic Data File.<sup>3</sup>

The Zip Code data of shipment origins in the Battelle survey were checked against the file of latitude and longitude of Zip Codes found in Reference 3. Government organizations whose Zip Codes appeared in Reference 2, but not in the Geographic Data Base, were assigned the latitude and longitude for downtown Washington, DC.

Reference 3 was also used to generate an alphabetical listing of cities within each state. This was compared to the 3,600 unique city-state pairs recorded as destinations in the Battelle survey, and a latitude and longitude were then assigned to each city-state pair. The latitude and longitude of the shipment destination corresponds to the city center.

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\*The Transport Index (TI) is the dose rate in mrem/hr at three feet from the package surface. For Fissile Class II packages only, the TI is "calculated by dividing the number "50" by the number of similar packages which may be transported together" (49 CFR 173.389). Radiation TI is used in this report to maintain consistency.



Knowledge of the latitude and longitude of both the origin and destination allows choice of subset of shipment data which fits any one (or all) of the following criteria:

- 1) The shipment origin is in the vicinity of a given latitude and longitude;
- 2) The shipment destination is in the vicinity of a given latitude and longitude;
- 3) An imaginary line joining the origin and destination passes through the vicinity of a given latitude and longitude.

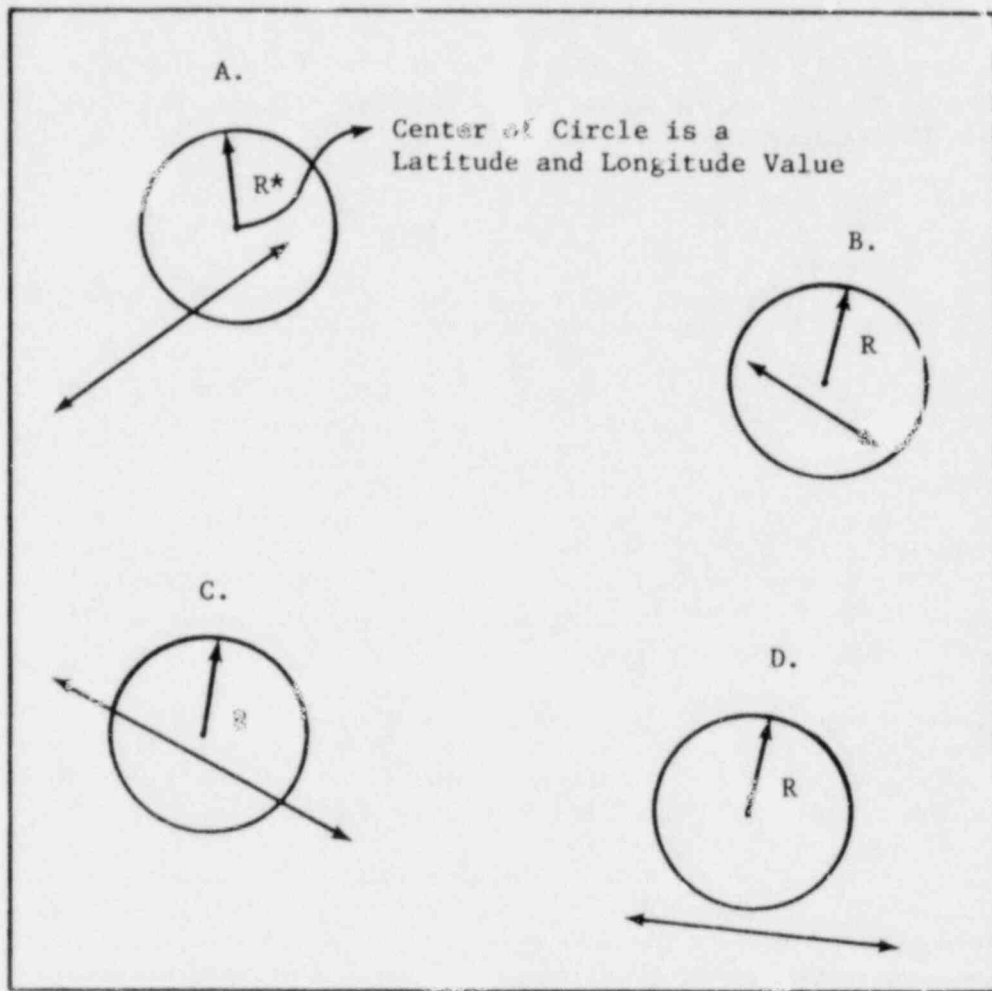
The "vicinity" is designated by a circle of radius R measured in degrees and centered at the given latitude and longitude. (This area is actually somewhat elliptical since a longitude degree represents a distance on the earth's surface that varies with latitude.) The criteria for accessing shipment data regarding an area about a specific latitude and longitude are graphically presented in Figure 1.

Acquiring shipment data for the 20 SMSA's included in the generic transportation study required that each SMSA be represented by a circular area. To do this the boundaries of each SMSA were outlined on a large scale map. The geographic center of each SMSA was then located and a latitude and longitude assigned to that point. Given the geographic center of the SMSA it was then possible to draw a circle of smallest possible radius which would include all land area within the SMSA. Thus each SMSA was bounded by a circle with a radius measured in degrees and a center expressed in degrees latitude and longitude. Figure 2 is a map indicating the location of the 20 SMSA's and the relative land areas enclosed by the circles. The latitude and longitude selected for the center of these 20 SMSA's as well as the radii in kilometers and degrees are listed in Table 2.

A list of radioactive shipments into, out of, and passing through each of the twenty circular areas corresponding to the SMSA's was then generated. The circular areas are, of course, larger than the area enclosed by the actual SMSA boundaries and this may cause an over estimate of shipments to, from, or through a given SMSA. It should also be noted that the circular areas overlap in some cases, particularly along the northeast coast. Some shipments would then be included in the standard shipment models for more than one SMSA.

#### STANDARD SHIPMENT MODELS FOR THE TWENTY SMSA'S

The development of a standard shipment model for each of the SMSA's required the condensation of the shipment listing to a representative and workable set of shipments which retained those characteristics significant to the transportation risk analysis. This involved the combination of some shipments and the elimination of others. A number of assumptions were necessary in categorizing the original shipment data into standard shipment models. These assumptions affected the shipment models in the areas of transport mode, package type, physical form, end use, and material shipped.



Types of information which can be acquired:

- A. Either origin or destination is within circle,
- B. Both origin and destination are within circle,
- C. Neither origin nor destination is within circle but path between passes through circle, or
- D. Neither origin nor destination is within circle and path between excludes circle.

\* $R$  is the radius of the circle within which shipment information is requested.

Figure 1. Differing Criteria for Shipment Routes into, out of, through, and in the Vicinity of a Given Latitude and Longitude

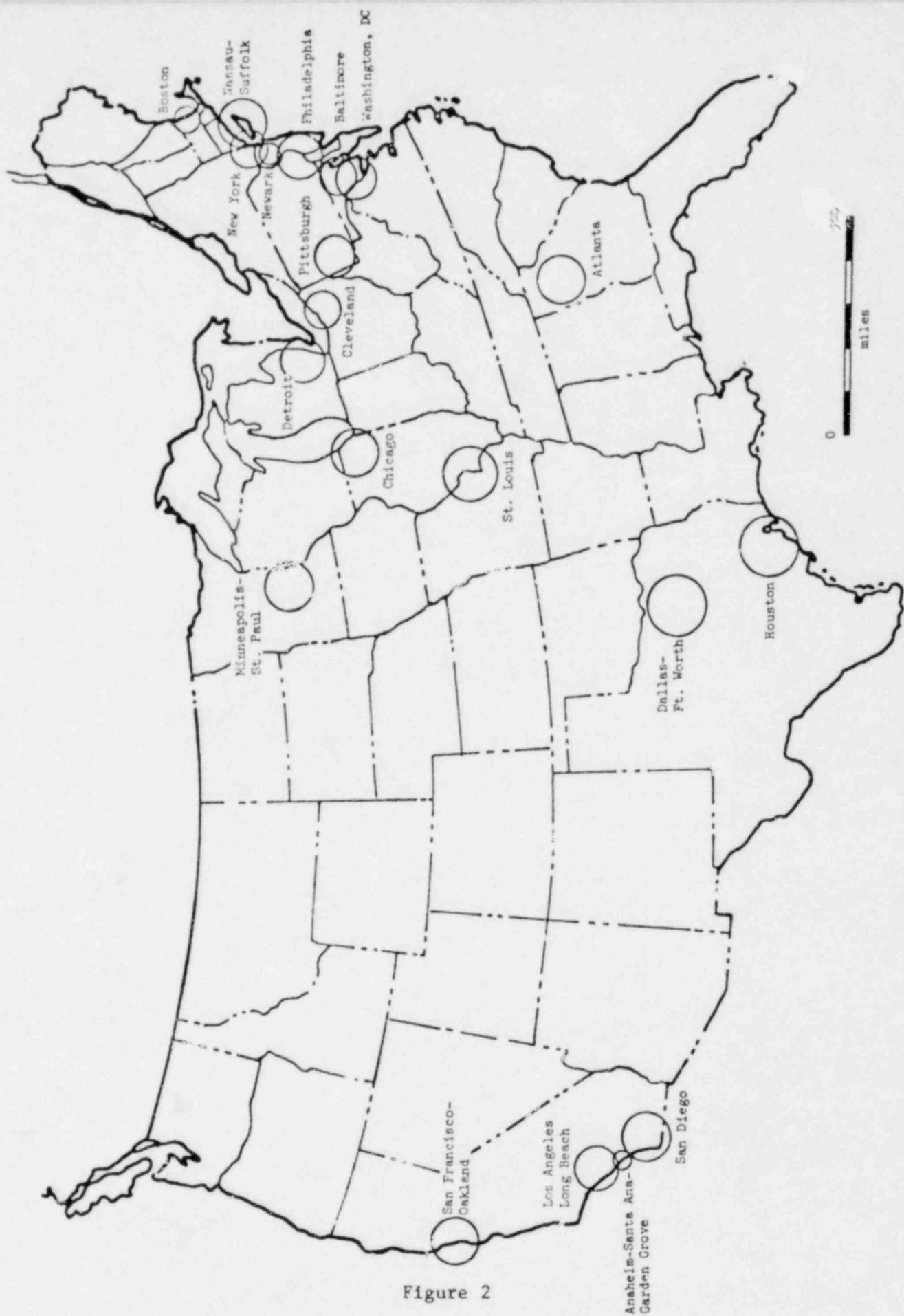


Figure 2

Table 2

Assigned Geographic Center and Radii  
of the Twenty Most Populous SMSA's

SMSA	Geographic Center		Radius	
	Latitude	Longitude	Km.	Degrees
New York	41°00'N	73°52'W	63	.69
Los Angeles-Long Beach	34°22'N	118°16'W	78	.85
Chicago	41°53'N	88°7' W	83	.91
Philadelphia	39°55'N	75°13'W	80	.87
Detroit	42°41'N	83°14'W	81	.88
San Francisco-Oakland	37°47'N	122°20'W	83	.91
Washington, D.C.	38°46'N	77°17'W	75	.82
Boston	42°17'N	71°3' W	46	.50
Nassau-Suffolk	40°50'N	72°49'W	83	.91
Dallas-Ft. Worth	32°44'N	97°5' W	108	1.18
Houston	29°46'N	95°26'W	105	1.16
St. Louis	38°29'N	90°16'W	100	1.09
Pittsburgh	40°25'N	79°53'W	75	.82
Baltimore	39°17'N	76°44'W	63	.69
Minneapolis-St. Paul	45°4' N	93°13'W	88	.96
Newark	40°44'N	74°36'W	40	.44
Cleveland	41°25'N	81°35'W	68	.74
Atlanta	33°53'N	84° 8'W	84	.92
Anaheim-Santa Ana- Garden Grove	33°40'N	117°47'W	35	.38
San Diego	33°2' N	116°49'W	84	.92

### Transport Mode

Three categories of transport mode were eliminated from the shipment model. Government shipments were outside the scope of the urban transportation study and were deleted. Mail shipments were eliminated as they must conform to limited quantity packaging requirements, thus the amount of material shipped by mail is small enough that contribution to radiological risk is not significant.<sup>6</sup> Also eliminated were the relatively few shipments for which the transport mode was unknown.

The original listing of shipment data delineated three separate modes of truck transport; contract, commercial, and private. These were collapsed into one truck category for inclusion in the shipment model.

The final shipment models for the twenty SMSA's categorized transport mode as follows:

- o Automobile
- o Freight aircraft
- o Passenger aircraft
- o Ship
- o Rail, and
- o Truck

### Package Type

Limited quantity shipments, or exempt shipments, were eliminated from the shipment model. As mentioned above, the amount shipped contributes little to overall risk.

Packages specified as type A and type A fissile were combined in the shipment models as were type B and type B fissile. Shipments for which package type was not given were assumed to be in type A packages. Shipment model package types were then categorized as type A, type B, large quantity (LQ), or low specific activity (LSA).

### Physical Form

For purposes of the urban transportation study the only distinction in physical form considered necessary was between dispersible and nondispersible materials. Dispersible materials include those shipments listed in the original data as liquids, gases, and dispersible solids (powders). In cases where physical form was not specified, it was assumed to be dispersible. The shipment model designation "nondispersible" also includes those shipments originally identified as special form.

### End Use

The end use of a radioactive material was assigned based on most common practical use and the radioactive half life of the material. (Materials with short half lives are more likely to be used in the medical and research fields.) Each shipment was placed into one of four end use categories; medical/research, industrial, fuel cycle, and waste. Certain materials utilized in both medical and industrial applications were assigned to both categories, though, in some cases, small amounts may be used for medical and large amounts for industrial or vice versa. Table 3 lists those isotopes shipped through the twenty SMSA's and the end uses to which they are assigned.

### Material Shipped

Only two categories of materials were eliminated from the standard shipment models -- unknown radionuclides and empty containers. Neither of these categories appeared with any frequency in the original data listing.

More significant is the combination of isotopes, primarily of uranium. Shipments of unspecified isotopes of uranium, all enrichments of U-235, and various mixtures of uranium and plutonium were combined as U-235. Unspecified isotopes of plutonium were tabulated as Pu-238. Mo-99m was combined with Mo-99 and Tc-99 was included with shipments of Tc-99m.

The resulting standard shipment models are presented for each of the twenty SMSA's in Appendix A. Each shipment model is first categorized by those shipments with either origin or destination in the SMSA and then by shipments traveling through the SMSA. Through shipments are defined by a straight line, between the origin and destination, which intersects the circular SMSA area in question and thus does not consider actual routing information. Shipments of each isotope are then successively subdivided by transport mode, end use, package type, and physical form. Values for total shipments per year, total activity per year, total TI per year, average activity per shipment, and average TI per shipment were then calculated for each isotope. The values listed for activity per year and average activity per shipment correspond to the quantity shipped. It should be recalled that quantity shipped was expressed in grams for SNM shipments and curies for other radioactive materials. Those isotopes for which quantity shipped is expressed in grams are indicated by an asterisk in the activity columns. Otherwise the quantity shipped is expressed in curies.

### SUMMARY TABLES

Each standard shipment model has been summarized in Tables 4-23. Shipments per year (SPY), activity per year, and TI per year have been tabulated by end use, transport mode, and package type. Activity per year is expressed in curies in the summary tables. In order to combine the activity of SNM with other materials a conversion factor from grams to curies was used. Table 24 lists the conversion factor used for each of the SNM shipments. Those shipments of isotopes for which the end uses were medical and industrial are included in both categories. This results in some double

Table 3

## Assigned End Use Categories\*

Medical/Research			Fuel		Waste	Med-Ind
			Industrial	Cycle		
Ag 110	I 125	Sc 46	Am 241	Pu 236	Waste	Cm 244
Au 198	I 129	Si 31	Ca 45	Pu 238		Co 60
Bk 249	I 130	Sr 82	Cf 252	Pu 239		Co 60m
Br 82	I 131	Sr 85	Cs 137	Pu 240		Cr 51
C 14	In 111	Ta 182	Eu 152	Pu 241		Xe 127
Ca 47	In 114m	Tc 99m	Fe 55	Pu 242		Xe 130
Cd 109	K 42	Tl 201	H 3	Pu 244		Xe 133
Ce 137	K 43	Tl 204	Ir 192	Th 228		
Ce 141	Lu 177	Tm 170	Kr 85	Th 230		
Ce 144	Mg 28	V 48	Na 22	Th 232		
Cl 35	Mn 54	Yb 169	Np 237	U 232		
Co 57	Mo 99		Pa 231	U 233		
Co 58	Na 24		Po 210	U 235		
Cs 134	Nb 95		Ra 226	U 236		
Cu 64	Ni 63		S 35	U 238		
Fe 52	P 32		Se 75		Mixed corrosion products	
Fe 59	P 33		Sn 113		Mixed fission products	
Ga 67	Pa 226		Sr 89		Spent fuel	
Gd 153	Pm 147					
Hg 197	Rb 85					
Hg 203	Rb 86					
I 123	Ru 106					

\*This classification of end use was considered appropriate for extension of the limited New York City transportation study. Other designations of end use are possible.



counting of total annual shipments, activity, and TI, which has insignificant impact on the results of the transportation study extension. Shipments for which the package type is "E", or limited quantity, appear in the shipment model listing though they were not utilized in the risk calculations for the generic extension and are not included in the summary tables.



Table 4  
New York

	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$1.3 \times 10^5$	$1.6 \times 10^6$	$8.2 \times 10^4$
Industrial	$2.0 \times 10^4$	$1.5 \times 10^6$	$2.4 \times 10^4$
Fuel Cycle	$3.0 \times 10^4$	$1.4 \times 10^8$	$1.5 \times 10^4$
Waste	$7.9 \times 10^2$	$6.1 \times 10^{-2}$	$7.2 \times 10^3$
	$1.8 \times 10^5$	$1.4 \times 10^8$	$1.3 \times 10^5$
Transport Mode			
Automobile	$2.2 \times 10^2$	$4.0 \times 10^1$	$8.9 \times 10^1$
Air Freight	$1.3 \times 10^4$	$2.1 \times 10^5$	$1.0 \times 10^4$
Air Passenger	$3.4 \times 10^4$	$2.6 \times 10^4$	$8.0 \times 10^3$
Rail	$1.0 \times 10^0$	$9.2 \times 10^{-9}$	---
Ship	$2.3 \times 10^3$	$8.3 \times 10^0$	$7.8 \times 10^2$
Truck	$1.4 \times 10^5$	$1.6 \times 10^8$	$1.1 \times 10^5$
	$1.9 \times 10^5$	$1.4 \times 10^8$	$1.3 \times 10^5$
Package Type			
A	$1.5 \times 10^5$	$2.4 \times 10^4$	$7.5 \times 10^4$
B	$4.7 \times 10^3$	$1.4 \times 10^8$	$1.2 \times 10^4$
LSA	$2.7 \times 10^4$	$2.9 \times 10^3$	$4.1 \times 10^4$
	$1.8 \times 10^5$	$1.4 \times 10^8$	$1.3 \times 10^5$

Table 5  
Los Angeles - Long Beach

End Use	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
Medical	$7.2 \times 10^4$	$2.5 \times 10^4$	$1.8 \times 10^4$
Industrial	$9.3 \times 10^3$	$4.2 \times 10^4$	$7.0 \times 10^3$
Fuel Cycle	$5.7 \times 10^2$	$2.2 \times 10^8$	$4.7 \times 10^2$
Waste	$6.9 \times 10^2$	$1.3 \times 10^{-4}$	$4.2 \times 10^3$
	$8.3 \times 10^4$	$2.2 \times 10^8$	$3.0 \times 10^4$
Transport Mode			
Automobile	$4.2 \times 10^2$	$2.0 \times 10^1$	$4.9 \times 10^3$
Air Freight	$6.3 \times 10^3$	$2.0 \times 10^4$	$5.2 \times 10^3$
Air Passenger	$2.3 \times 10^4$	$1.8 \times 10^3$	$1.2 \times 10^4$
Rail	$5.0 \times 10^0$	$1.2 \times 10^1$	$2.0 \times 10^{-1}$
Truck	$5.2 \times 10^4$	$2.2 \times 10^8$	$7.9 \times 10^3$
	$8.2 \times 10^4$	$2.2 \times 10^8$	$3.0 \times 10^4$
Package Type			
A	$8.2 \times 10^4$	$9.8 \times 10^3$	$2.4 \times 10^4$
B	$4.1 \times 10^2$	$6.0 \times 10^4$	$9.6 \times 10^2$
LSA	$3.4 \times 10^2$	$1.4 \times 10^2$	$4.2 \times 10^3$
LQ	$1.4 \times 10^1$	$2.2 \times 10^8$	0
	$8.3 \times 10^4$	$2.2 \times 10^8$	$2.9 \times 10^4$

Table 6  
Chicago

	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$1.4 \times 10^5$	$4.5 \times 10^5$	$9.4 \times 10^4$
Industrial	$2.0 \times 10^4$	$3.3 \times 10^5$	$1.1 \times 10^3$
Fuel Cycle	$1.7 \times 10^4$	$2.3 \times 10^8$	$3.1 \times 10^3$
Waste	$1.7 \times 10^3$	$2.6 \times 10^{-2}$	$2.5 \times 10^2$
	$1.8 \times 10^5$	$2.3 \times 10^8$	$9.9 \times 10^4$
Transport Mode			
Automobile	$6.8 \times 10^2$	$5.0 \times 10^1$	$6.2 \times 10^1$
Air Freight	$2.3 \times 10^4$	$1.4 \times 10^6$	$8.6 \times 10^3$
Air Passenger	$9.4 \times 10^4$	$1.4 \times 10^4$	$7.5 \times 10^4$
Truck	$5.6 \times 10^4$	$2.3 \times 10^8$	$1.4 \times 10^4$
	$1.8 \times 10^5$	$2.3 \times 10^8$	$9.8 \times 10^4$
Package Type			
A	$1.6 \times 10^5$	$1.7 \times 10^5$	$9.5 \times 10^4$
B	$2.6 \times 10^3$	$2.3 \times 10^6$	$3.1 \times 10^3$
LSA	$1.4 \times 10^4$	$1.0 \times 10^3$	$6.3 \times 10^1$
LQ	$1.7 \times 10^1$	$2.3 \times 10^8$	$4.6 \times 10^2$
	$1.8 \times 10^5$	$2.3 \times 10^8$	$9.9 \times 10^4$

Table 7  
Philadelphia

	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
End Use:			
Medical	$3.6 \times 10^5$	$1.8 \times 10^5$	$1.3 \times 10^5$
Industrial	$1.4 \times 10^4$	$2.9 \times 10^5$	$9.7 \times 10^3$
Fuel Cycle	$1.7 \times 10^4$	$9.2 \times 10^5$	$7.6 \times 10^4$
Waste	$5.7 \times 10^3$	$1.3 \times 10^{-3}$	$6.4 \times 10^3$
	$2.0 \times 10^5$	$1.4 \times 10^6$	$2.2 \times 10^5$
Transport Mode			
Automobile	$2.6 \times 10^2$	$3.4 \times 10^{-1}$	$3.3 \times 10^1$
Air Freight	$3.5 \times 10^4$	$1.9 \times 10^5$	$3.5 \times 10^4$
Air Passenger	$7.4 \times 10^4$	$4.0 \times 10^4$	$7.3 \times 10^4$
Rail	$1.0 \times 10^0$	$9.2 \times 10^{-9}$	0
Ship	$2.3 \times 10^3$	$1.4 \times 10^1$	$7.8 \times 10^2$
Truck	$8.8 \times 10^4$	$1.2 \times 10^6$	$1.2 \times 10^5$
	$2.0 \times 10^5$	$1.4 \times 10^6$	$2.3 \times 10^5$
Package Type			
A	$1.8 \times 10^5$	$2.4 \times 10^5$	$2.1 \times 10^5$
B	$7.0 \times 10^3$	$1.2 \times 10^6$	$2.1 \times 10^3$
LSA	$1.1 \times 10^4$	$9.1 \times 10^2$	$1.6 \times 10^4$
LQ	$1.2 \times 10^1$	$9.4 \times 10^0$	$2.4 \times 10^0$
	$2.0 \times 10^5$	$1.4 \times 10^6$	$2.3 \times 10^5$

Table 8  
Detroit

End Use	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
Medical	$3.0 \times 10^4$	$3.1 \times 10^5$	$2.6 \times 10^4$
Industrial	$5.5 \times 10^3$	$3.1 \times 10^5$	$6.6 \times 10^2$
Fuel Cycle	$1.2 \times 10^3$	$2.7 \times 10^7$	$6.7 \times 10^3$
Waste	$9.9 \times 10^1$	$2.8 \times 10^{-6}$	$3.0 \times 10^1$
	$3.7 \times 10^4$	$2.8 \times 10^7$	$3.3 \times 10^4$
Transport Mode			
Automobile	$2.8 \times 10^1$	$3.0 \times 10^0$	$9.9 \times 10^1$
Air Freight	$9.8 \times 10^3$	$1.3 \times 10^4$	$6.6 \times 10^3$
Air Passenger	$2.2 \times 10^4$	$3.0 \times 10^3$	$1.6 \times 10^4$
Rail	$1.3 \times 10^1$	$1.9 \times 10^7$	$1.6 \times 10^1$
Truck	$5.9 \times 10^3$	$8.3 \times 10^6$	$1.0 \times 10^4$
	$3.8 \times 10^4$	$2.7 \times 10^7$	$3.3 \times 10^4$
Package Type			
A	$3.7 \times 10^4$	$1.1 \times 10^4$	$2.7 \times 10^4$
B	$2.8 \times 10^2$	$6.3 \times 10^6$	$6.0 \times 10^3$
LSA	$2.6 \times 10^1$	$4.6 \times 10^1$	$3.1 \times 10^0$
LQ	$3.6 \times 10^1$	$1.9 \times 10^7$	$5.4 \times 10^1$
	$3.7 \times 10^4$	$2.7 \times 10^7$	$3.3 \times 10^4$

Table 9  
San Francisco - Oakland

	<u>SPY</u>	<u>C1/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$4.6 \times 10^4$	$2.5 \times 10^5$	$2.1 \times 10^4$
Industrial	$1.0 \times 10^4$	$5.0 \times 10^5$	$3.8 \times 10^3$
Fuel Cycle	$1.0 \times 10^4$	$3.7 \times 10^4$	$2.9 \times 10^3$
Waste	$1.1 \times 10^3$	$1.8 \times 10^{-5}$	$1.7 \times 10^1$
	$6.7 \times 10^4$	$7.9 \times 10^5$	$2.8 \times 10^4$
Transport Mode			
Automobile	$9.9 \times 10^1$	$3.4 \times 10^{-2}$	$4.3 \times 10^1$
Air Freight	$1.6 \times 10^4$	$4.5 \times 10^5$	$1.6 \times 10^4$
Air Passenger	$1.3 \times 10^4$	$1.5 \times 10^5$	$6.4 \times 10^3$
Ship	$7.9 \times 10^3$	$4.5 \times 10^1$	$2.0 \times 10^3$
Truck	$3.0 \times 10^4$	$1.9 \times 10^5$	$3.1 \times 10^3$
	$6.7 \times 10^4$	$7.9 \times 10^5$	$2.8 \times 10^4$
Package Type			
A	$5.5 \times 10^4$	$1.4 \times 10^5$	$2.1 \times 10^4$
B	$1.1 \times 10^4$	$6.4 \times 10^5$	$6.1 \times 10^3$
LSA	$9.5 \times 10^2$	$1.2 \times 10^{-1}$	$2.1 \times 10^1$
	$6.7 \times 10^4$	$7.8 \times 10^5$	$2.7 \times 10^4$

Table 10  
Washington, D.C.

	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$3.8 \times 10^4$	$8.2 \times 10^4$	$3.2 \times 10^4$
Industrial	$5.0 \times 10^3$	$2.2 \times 10^5$	$1.7 \times 10^3$
Fuel Cycle	$7.4 \times 10^3$	$3.3 \times 10^6$	$6.7 \times 10^4$
Waste	$2.8 \times 10^2$	$1.2 \times 10^{-3}$	$7.0 \times 10^2$
	$5.1 \times 10^4$	$3.6 \times 10^6$	$1.0 \times 10^5$
Transport Mode			
Automobile	$3.8 \times 10^2$	$7.8 \times 10^1$	$1.3 \times 10^3$
Air Freight	$1.0 \times 10^4$	$1.5 \times 10^5$	$1.1 \times 10^4$
Air Passenger	$2.3 \times 10^4$	$1.4 \times 10^4$	$1.9 \times 10^4$
Ship	$1.8 \times 10^2$	$2.5 \times 10^1$	$7.9 \times 10^2$
Truck	$1.7 \times 10^4$	$3.4 \times 10^6$	$7.0 \times 10^4$
	$5.1 \times 10^4$	$3.6 \times 10^6$	$1.0 \times 10^5$
Package Type			
A	$4.7 \times 10^4$	$1.5 \times 10^5$	$9.7 \times 10^4$
B	$8.2 \times 10^2$	$1.7 \times 10^5$	$1.6 \times 10^3$
LSA	$2.8 \times 10^3$	$6.5 \times 10^2$	$3.3 \times 10^3$
LQ	$5.0 \times 10^0$	$3.3 \times 10^6$	$5.9 \times 10^1$
	$5.1 \times 10^4$	$3.6 \times 10^6$	$1.0 \times 10^5$

Table 11  
Boston

End Use	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
Medical	$1.3 \times 10^4$	$6.9 \times 10^4$	$2.3 \times 10^4$
Industrial	$7.0 \times 10^3$	$4.6 \times 10^5$	$1.8 \times 10^4$
Fuel Cycle	$2.1 \times 10^3$	$3.7 \times 10^5$	$8.9 \times 10^2$
Waste	$5.6 \times 10^3$	$2.1 \times 10^{-6}$	$5.5 \times 10^3$
	$2.8 \times 10^4$	$9 \times 10^5$	$4.7 \times 10^4$
Transport Mode			
Automobile	$5.4 \times 10^2$	$2.3 \times 10^1$	$4.0 \times 10^1$
Air Freight	$5.7 \times 10^2$	$3.7 \times 10^5$	$1.9 \times 10^3$
Air Passenger	$7.1 \times 10^3$	$5.3 \times 10^4$	$2.5 \times 10^3$
Rail	$4.0 \times 10^0$	$3.5 \times 10^{-1}$	$2.0 \times 10^1$
Truck	$1.4 \times 10^4$	$4.7 \times 10^5$	$4.2 \times 10^4$
	$2.7 \times 10^4$	$8.9 \times 10^5$	$4.6 \times 10^4$
Package Type			
A	$1.9 \times 10^4$	$1.4 \times 10^5$	$6.7 \times 10^3$
B	$1.7 \times 10^3$	$7.5 \times 10^5$	$4.5 \times 10^3$
LSA	$6.9 \times 10^3$	$4.4 \times 10^2$	$3.6 \times 10^4$
	$2.8 \times 10^4$	$8.9 \times 10^5$	$4.7 \times 10^4$



Table 12  
Nassau - Suffolk

	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$2.6 \times 10^4$	$2.1 \times 10^4$	$2.0 \times 10^4$
Industrial	$4.8 \times 10^3$	$1.8 \times 10^5$	$7.1 \times 10^3$
Fuel Cycle	$2.9 \times 10^3$	$3.7 \times 10^5$	$2.6 \times 10^2$
Waste	$6.1 \times 10^3$	$6.5 \times 10^{-3}$	$1.2 \times 10^4$
	$4.0 \times 10^4$	$5.7 \times 10^5$	$3.9 \times 10^4$
Transport Mode			
Automobile	$9.3 \times 10^1$	$3.3 \times 10^1$	$5.0 \times 10^1$
Air Freight	$3.2 \times 10^3$	$1.6 \times 10^5$	$1.3 \times 10^3$
Air Passenger	$4.5 \times 10^3$	$5.0 \times 10^3$	$2.0 \times 10^3$
Rail	$1.0 \times 10^0$	$9.2 \times 10^{-9}$	0
Truck	$3.2 \times 10^4$	$4.1 \times 10^5$	$3.6 \times 10^4$
	$4.0 \times 10^4$	$5.8 \times 10^5$	$3.9 \times 10^4$
Package Type			
A	$3.1 \times 10^4$	$1.3 \times 10^5$	$3.1 \times 10^4$
B	$9.4 \times 10^2$	$4.4 \times 10^5$	$2.4 \times 10^3$
LSA	$8.0 \times 10^3$	$2.6 \times 10^2$	$5.6 \times 10^3$
	$4.0 \times 10^4$	$5.7 \times 10^5$	$3.9 \times 10^4$

Table 13  
Dallas - Fort Worth

	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$1.9 \times 10^4$	$1.0 \times 10^4$	$1.2 \times 10^4$
Industrial	$1.2 \times 10^3$	$1.2 \times 10^5$	$6.9 \times 10^2$
Fuel Cycle	$3.0 \times 10^2$	$5.7 \times 10^0$	$2.5 \times 10^1$
Waste	-----	-----	-----
	$2.1 \times 10^4$	$1.3 \times 10^5$	$1.3 \times 10^4$
Transport Mode			
Automobile	$1.5 \times 10^1$	$7.9 \times 10^{-1}$	$2.6 \times 10^1$
Air Freight	$7.8 \times 10^3$	$1.1 \times 10^5$	$1.7 \times 10^3$
Air Passenger	$1.1 \times 10^4$	$9.8 \times 10^2$	$9.9 \times 10^3$
Truck	$1.9 \times 10^3$	$2.0 \times 10^4$	$1.1 \times 10^3$
	$2.1 \times 10^4$	$1.3 \times 10^5$	$1.3 \times 10^4$
Package Type			
A	$2.0 \times 10^4$	$2.3 \times 10^3$	$1.2 \times 10^4$
B	$3.5 \times 10^2$	$1.3 \times 10^5$	$6.2 \times 10^2$
LSA	$1.0 \times 10^0$	$1.1 \times 10^{-4}$	0
	$2.0 \times 10^4$	$1.3 \times 10^5$	$1.3 \times 10^4$

Table 14  
Houston

	<u>SPY</u>	<u>Ci/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$3.1 \times 10^4$	$6.3 \times 10^4$	$8.9 \times 10^3$
Industrial	$3.8 \times 10^3$	$7.6 \times 10^6$	$2.2 \times 10^3$
Fuel Cycle	$1.9 \times 10^2$	$4.3 \times 10^2$	$4.3 \times 10^2$
Waste	$1.8 \times 10^1$	$1.3 \times 10^{-5}$	$3.6 \times 10^2$
	$3.5 \times 10^4$	$7.7 \times 10^6$	$1.2 \times 10^4$
Transport Mode			
Automobile	$1.6 \times 10^1$	$1.1 \times 10^2$	$8.4 \times 10^1$
Air Freight	$1.1 \times 10^4$	$1.5 \times 10^4$	$2.3 \times 10^3$
Air Passenger	$1.4 \times 10^4$	$7.6 \times 10^6$	$6.9 \times 10^3$
Truck	$9.2 \times 10^3$	$6.4 \times 10^4$	$2.7 \times 10^3$
	$3.4 \times 10^4$	$7.7 \times 10^6$	$1.2 \times 10^4$
Package Type			
A	$3.4 \times 10^4$	$9.1 \times 10^3$	$1.0 \times 10^4$
B	$8.0 \times 10^2$	$7.7 \times 10^6$	$1.7 \times 10^3$
LSA	$2.2 \times 10^1$	$2.0 \times 10^1$	$6.7 \times 10^1$
	$3.5 \times 10^4$	$7.7 \times 10^6$	$1.2 \times 10^4$

Table 15  
St. Louis

End Use	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
Medical	$2.2 \times 10^5$	$1.1 \times 10^5$	$1.4 \times 10^5$
Industrial	$2.4 \times 10^4$	$8.3 \times 10^4$	$5.3 \times 10^3$
Fuel Cycle	$8.4 \times 10^4$	$5.3 \times 10^7$	$4.8 \times 10^2$
Waste	$4.0 \times 10^1$	$8.4 \times 10^{-6}$	$1.2 \times 10^2$
	$3.3 \times 10^5$	$5.3 \times 10^7$	$1.5 \times 10^5$
Transport Mode			
Air Freight	$2.0 \times 10^4$	$4.1 \times 10^4$	$2.0 \times 10^4$
Air Passenger	$1.1 \times 10^5$	$3.1 \times 10^4$	$5.3 \times 10^4$
Rail	$8.3 \times 10^4$	$6.6 \times 10^3$	0
Ship	$2.0 \times 10^0$	$1.0 \times 10^0$	$2.0 \times 10^{-1}$
Truck	$1.2 \times 10^5$	$5.3 \times 10^7$	$7.3 \times 10^4$
	$3.3 \times 10^5$	$5.3 \times 10^7$	$1.5 \times 10^5$
Package Type			
A	$2.4 \times 10^5$	$6.3 \times 10^4$	$1.5 \times 10^5$
B	$8.1 \times 10^2$	$5.3 \times 10^7$	$1.3 \times 10^3$
LSA	$8.3 \times 10^4$	$6.6 \times 10^3$	$1.4 \times 10^{-1}$
LQ	$1.5 \times 10^1$	$1.7 \times 10^0$	$8.4 \times 10^0$
	$3.2 \times 10^5$	$5.3 \times 10^7$	$1.5 \times 10^5$

Table 16  
Pittsburgh

	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$1.0 \times 10^5$	$1.0 \times 10^5$	$8.2 \times 10^4$
Industrial	$1.2 \times 10^4$	$1.1 \times 10^5$	$1.7 \times 10^4$
Fuel Cycle	$6.8 \times 10^3$	$6.3 \times 10^6$	$4.6 \times 10^3$
Waste	$7.5 \times 10^2$	$4.3 \times 10^{-5}$	$7.5 \times 10^2$
	$1.2 \times 10^5$	$6.5 \times 10^6$	$1.0 \times 10^5$
Transport Mode			
Automobile	$2.1 \times 10^1$	$7.8 \times 10^1$	$2.7 \times 10^0$
Air Freight	$1.8 \times 10^4$	$1.3 \times 10^6$	$1.6 \times 10^4$
Air Passenger	$4.5 \times 10^4$	$2.3 \times 10^4$	$3.7 \times 10^4$
Ship	$8.0 \times 10^0$	$7.0 \times 10^0$	$2.0 \times 10^{-1}$
Truck	$5.6 \times 10^4$	$5.1 \times 10^6$	$5.1 \times 10^4$
	$1.2 \times 10^5$	$6.4 \times 10^6$	$1.0 \times 10^5$
Package Type			
A	$1.1 \times 10^5$	$4.6 \times 10^5$	$7.1 \times 10^4$
B	$2.7 \times 10^3$	$2.0 \times 10^6$	$1.9 \times 10^3$
LSA	$2.1 \times 10^3$	$1.5 \times 10^3$	$3.2 \times 10^4$
LQ	$6.0 \times 10^0$	$4.1 \times 10^6$	$1.1 \times 10^1$
	$1.1 \times 10^5$	$6.6 \times 10^6$	$1.0 \times 10^5$

Table 17  
Baltimore

	<u>SPY</u>	<u>Ci/Yr</u>	<u>Ti/Yr</u>
End Use			
Medical	$4.8 \times 10^4$	$6.2 \times 10^4$	$3.9 \times 10^4$
Industrial	$5.1 \times 10^3$	$1.9 \times 10^5$	$1.6 \times 10^3$
Fuel Cycle	$1.7 \times 10^3$	$3.8 \times 10^6$	$6.8 \times 10^4$
Waste	$2.8 \times 10^2$	$1.2 \times 10^{-3}$	$7.0 \times 10^2$
	$6.1 \times 10^4$	$4.1 \times 10^6$	$1.1 \times 10^5$
Transport Mode			
Automobile	$4.4 \times 10^2$	$7.8 \times 10^1$	$1.3 \times 10^3$
Air Freight	$1.0 \times 10^4$	$1.5 \times 10^5$	$1.0 \times 10^4$
Air Passenger	$2.6 \times 10^4$	$1.2 \times 10^4$	$2.4 \times 10^4$
Ship	$1.8 \times 10^2$	$3.1 \times 10^1$	$7.9 \times 10^2$
Truck	$2.3 \times 10^4$	$3.9 \times 10^6$	$7.3 \times 10^6$
	$6.0 \times 10^4$	$4.1 \times 10^6$	$1.1 \times 10^5$
Package Type			
A	$5.7 \times 10^4$	$1.4 \times 10^5$	$1.0 \times 10^5$
B	$7.6 \times 10^2$	$6.7 \times 10^5$	$1.5 \times 10^3$
LSA	$2.8 \times 10^3$	$6.5 \times 10^2$	$3.3 \times 10^3$
LQ	$5.0 \times 10^0$	$3.3 \times 10^6$	$5.9 \times 10^1$
	$6.1 \times 10^4$	$4.1 \times 10^6$	$1.0 \times 10^5$

Table 18  
 Minneapolis - St. Paul

	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$6.2 \times 10^3$	$1.2 \times 10^4$	$6.9 \times 10^3$
Industrial	$1.7 \times 10^3$	$1.5 \times 10^4$	$2.1 \times 10^2$
Fuel Cycle	$1.7 \times 10^2$	$1.7 \times 10^1$	$2.7 \times 10^1$
	$8.1 \times 10^3$	$2.7 \times 10^4$	$7.1 \times 10^3$
Transport Mode			
Air Freight	$3.4 \times 10^3$	$7.2 \times 10^3$	$4.3 \times 10^3$
Air Passenger	$3.7 \times 10^3$	$1.7 \times 10^3$	$2.8 \times 10^3$
Truck	$1.0 \times 10^3$	$1.8 \times 10^4$	$1.3 \times 10^2$
	$8.1 \times 10^3$	$2.7 \times 10^4$	$7.2 \times 10^3$
Package Type			
A	$8.0 \times 10^3$	$4.9 \times 10^3$	$7.1 \times 10^3$
B	$1.1 \times 10^2$	$2.0 \times 10^4$	$7.6 \times 10^1$
LSA	$3.2 \times 10^1$	$4.0 \times 10^1$	$1.1 \times 10^1$
LQ	$1.2 \times 10^1$	$1.7 \times 10^3$	$2.3 \times 10^1$
	$8.2 \times 10^3$	$2.7 \times 10^4$	$7.2 \times 10^3$

Table 19  
Newark

	<u>SPY</u>	<u>Ci/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$2.0 \times 10^5$	$1.4 \times 10^6$	$1.6 \times 10^5$
Industrial	$1.8 \times 10^4$	$1.4 \times 10^6$	$8.9 \times 10^3$
Fuel Cycle	$1.1 \times 10^4$	$1.4 \times 10^8$	$1.2 \times 10^4$
Waste	$7.2 \times 10^2$	$6.0 \times 10^{-2}$	$6.4 \times 10^3$
	$2.3 \times 10^5$	$1.4 \times 10^8$	$1.9 \times 10^5$
Transport Mode			
Automobile	$1.6 \times 10^2$	$7.0 \times 10^0$	$5.4 \times 10^1$
Air Freight	$3.5 \times 10^4$	$1.9 \times 10^5$	$3.6 \times 10^4$
Air Passenger	$8.6 \times 10^4$	$3.9 \times 10^4$	$7.6 \times 10^4$
Rail	$1.0 \times 10^0$	$9.2 \times 10^{-9}$	0
Ship	$3.3 \times 10^1$	$3.4 \times 10^1$	$2.1 \times 10^2$
Truck	$1.1 \times 10^5$	$1.4 \times 10^8$	$7.8 \times 10^4$
	$2.3 \times 10^5$	$1.4 \times 10^8$	$1.9 \times 10^5$
Package Type			
A	$2.2 \times 10^5$	$2.3 \times 10^5$	$1.8 \times 10^5$
B	$1.5 \times 10^3$	$1.4 \times 10^8$	$4.8 \times 10^3$
LSA	$9.4 \times 10^3$	$1.4 \times 10^3$	$1.0 \times 10^4$
LQ	$1.2 \times 10^2$	$9.4 \times 10^0$	$2.4 \times 10^0$
	$2.3 \times 10^5$	$1.4 \times 10^8$	$1.9 \times 10^5$



Table 20  
Cleveland

	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$4.7 \times 10^4$	$3.3 \times 10^5$	$4.3 \times 10^4$
Industrial	$6.4 \times 10^3$	$4.7 \times 10^5$	$1.0 \times 10^3$
Fuel Cycle	$1.4 \times 10^4$	$5.3 \times 10^6$	$1.8 \times 10^4$
Waste	$2.4 \times 10^1$	$1.0 \times 10^{-7}$	$7.2 \times 10^0$
	$6.7 \times 10^4$	$6.1 \times 10^6$	$6.2 \times 10^4$
Transport Mode			
Automobile	$7.0 \times 10^0$	$2.0 \times 10^0$	$2.4 \times 10^0$
Air Freight	$1.4 \times 10^4$	$1.5 \times 10^6$	$9.6 \times 10^3$
Air Passenger	$3.4 \times 10^4$	$5.8 \times 10^4$	$3.1 \times 10^4$
Ship	$3.0 \times 10^0$	$7.4 \times 10^{-5}$	0
Truck	$2.0 \times 10^4$	$4.5 \times 10^6$	$2.2 \times 10^4$
	$6.8 \times 10^4$	$6.1 \times 10^6$	$6.3 \times 10^4$
Package Type			
A	$5.5 \times 10^4$	$7.1 \times 10^4$	$6.1 \times 10^4$
B	$9.7 \times 10^2$	$2.0 \times 10^6$	$1.7 \times 10^3$
LSA	$1.2 \times 10^4$	$9.9 \times 10^2$	$1.4 \times 10^2$
LQ	$8.0 \times 10^0$	$4.0 \times 10^6$	$3.2 \times 10^2$
	$6.8 \times 10^4$	$6.1 \times 10^6$	$6.3 \times 10^4$

Table 21  
Atlanta

	<u>SPY</u>	<u>¢1/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$1.1 \times 10^4$	$1.2 \times 10^4$	$1.0 \times 10^4$
Industrial	$1.4 \times 10^3$	$4.3 \times 10^4$	$1.2 \times 10^3$
Fuel Cycle	$1.2 \times 10^4$	$1.8 \times 10^5$	$1.1 \times 10^4$
Waste	$1.7 \times 10^3$	$7.6 \times 10^{-3}$	$7.0 \times 10^2$
	$2.6 \times 10^4$	$2.4 \times 10^5$	$2.3 \times 10^4$
Transport Mode			
Automobile	$2.0 \times 10^0$	$3.0 \times 10^0$	$2.0 \times 10^0$
Air Freight	$3.5 \times 10^3$	$3.5 \times 10^4$	$3.5 \times 10^3$
Air Passenger	$7.0 \times 10^3$	$1.8 \times 10^3$	$5.5 \times 10^3$
Rail	$3.0 \times 10^0$	$2.0 \times 10^{-1}$	$2.5 \times 10^0$
Ship	$7.9 \times 10^3$	$1.2 \times 10^1$	$2.0 \times 10^3$
Truck	$8.5 \times 10^3$	$2.0 \times 10^5$	$1.2 \times 10^4$
	$2.7 \times 10^4$	$2.4 \times 10^5$	$2.3 \times 10^4$
Package Type			
A	$1.3 \times 10^4$	$8.7 \times 10^3$	$1.0 \times 10^4$
B	$1.0 \times 10^4$	$2.3 \times 10^5$	$3.3 \times 10^3$
LSA	$3.4 \times 10^3$	$6.1 \times 10^{-1}$	$9.3 \times 10^3$
LQ	$2.0 \times 10^0$	$1.9 \times 10^{-3}$	$2.0 \times 10^{-1}$
	$2.6 \times 10^4$	$2.4 \times 10^5$	$2.3 \times 10^4$

Table 22  
 Anaheim - Santa Ana - Garden Grove

	<u>SPY</u>	<u>Ci/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$2.3 \times 10^4$	$1.2 \times 10^4$	$9.5 \times 10^3$
Industrial	$3.7 \times 10^3$	$3.0 \times 10^4$	$1.1 \times 10^3$
Fuel Cycle	$2.8 \times 10^2$	$2.3 \times 10^2$	$2.2 \times 10^2$
Waste	-----	-----	-----
	$2.7 \times 10^4$	$4.2 \times 10^4$	$1.1 \times 10^4$
Transport Mode			
Automobile	$9.6 \times 10^1$	$5.3 \times 10^{-1}$	$4.8 \times 10^1$
Air Freight	$4.0 \times 10^3$	$1.2 \times 10^4$	$3.5 \times 10^3$
Air Passenger	$1.1 \times 10^4$	$1.1 \times 10^3$	$5.9 \times 10^3$
Truck	$1.2 \times 10^4$	$2.8 \times 10^4$	$1.4 \times 10^3$
	$2.7 \times 10^4$	$4.1 \times 10^4$	$1.1 \times 10^4$
Package Type			
A	$2.6 \times 10^4$	$4.5 \times 10^3$	$1.0 \times 10^4$
B	$2.0 \times 10^2$	$3.7 \times 10^4$	$7.2 \times 10^2$
LSA	$4.2 \times 10^1$	$4.0 \times 10^1$	$6.6 \times 10^0$
	$2.6 \times 10^4$	$4.2 \times 10^4$	$1.1 \times 10^4$

Table 23  
San Diego

	<u>SPY</u>	<u>CI/Yr</u>	<u>TI/Yr</u>
End Use			
Medical	$1.5 \times 10^4$	$1.7 \times 10^3$	$3.3 \times 10^3$
Industrial	$2.0 \times 10^3$	$5.1 \times 10^3$	$4.7 \times 10^2$
Fuel Cycle	$3.8 \times 10^3$	$3.0 \times 10^4$	$3.1 \times 10^2$
Waste	$4.0 \times 10^0$	$2.2 \times 10^{-2}$	$6.0 \times 10^{-1}$
	$2.1 \times 10^4$	$3.7 \times 10^4$	$4.1 \times 10^3$
Transport Mode			
Automobile	$2.0 \times 10^0$	$4.0 \times 10^{-5}$	$1.0 \times 10^{-1}$
Air Freight	$2.4 \times 10^3$	$7.0 \times 10^3$	$1.4 \times 10^3$
Air Passenger	$5.7 \times 10^3$	$4.2 \times 10^2$	$2.0 \times 10^3$
Truck	$1.3 \times 10^4$	$3.0 \times 10^4$	$7.1 \times 10^2$
	$2.1 \times 10^4$	$3.7 \times 10^4$	$4.1 \times 10^3$
Package Type			
A	$1.8 \times 10^4$	$2.6 \times 10^4$	$3.8 \times 10^3$
B	$8.0 \times 10^1$	$6.9 \times 10^3$	$1.9 \times 10^2$
LSA	$3.2 \times 10^3$	$3.8 \times 10^3$	$9.6 \times 10^0$
LQ	$1.0 \times 10^0$	$4.2 \times 10^{-6}$	$1.0 \times 10^{-1}$
	$2.1 \times 10^4$	$3.7 \times 10^4$	$4.0 \times 10^3$

Table 24  
Specific Activity Conversion Factors

Isotope	Specific Activity (Ci/g)
Pu 236	$5.3 \times 10^2$
Pu 238	$1.7 \times 10^1$
Pu 239	$6.1 \times 10^{-2}$
Pu 240	$2.3 \times 10^{-1}$
Pu 241	$1.1 \times 10^2$
Pu 242	$3.9 \times 10^{-3}$
Pu 244	$1.1 \times 10^2$
Th 228	$1.9 \times 10^{-2}$
Th 230	$1.9 \times 10^{-2}$
Th 232	$1.9 \times 10^{-2}$
U 232	$2.1 \times 10^{-6}$
U 233	$9.5 \times 10^{-3}$
U 235	$2.1 \times 10^{-6}$
U 236	$2.1 \times 10^{-6}$
U 238	$3.3 \times 10^{-7}$
Mixed Fission Products (MF)	$2.1 \times 10^{-6}$
Spent Fuel (SF)	$6.2 \times 10^1$
Waste	$2.1 \times 10^{-6}$

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5. U. S. Department of Commerce, Statistical Abstract of the United States, 1978.
6. U. S. Nuclear Regulatory Commission, Office of Standards Development, Final Environmental Statement on the Transportation of Radioactive Materials by Air or Other Modes, NUREG-0170, December 1977. \*

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\*Available for purchase from the National Technical Information Service, Springfield, VA 22161.

Appendix A

Standard Shipment Models for  
Twenty SMSA's By Isotope

TABLE A- 1

CITY LAT = 4.100000E+01 CITY LONG = 7.388000E+01 RADIUS = 5.900000E-01  
 CITY = NEW YORK CITY TO DR FROM

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	U 235	24.2	1.3302E-05	0.	5.5000E-07	0.	E	0	FUEL CY
AUTOMOBILE	U 238	26.2	2.6186E-03	8.0000E-01	1.0000E-04	3.0551E-02	LS	0	FUEL CY
AUTOMOBILE	U 238	3.0	1.2999E+04	7.5000E-01	4.3330E+03	2.5000E-01	B	0	FUEL CY
AUTOMOBILE	CF252	1.0	1.0000E-08	0.	1.0000E-08	0.	A	ND	INDUSTR
AUTOMOBILE	H 3	4.3	2.1667E+01	0.	5.0000E+00	0.	A	0	INDUSTR
AUTOMOBILE	NA 22	2.0	8.0000E-06	8.0000E-01	4.0000E-06	4.0000E-01	LS	0	INDUSTR
AUTOMOBILE	CO 60	1.0	2.0000E-03	6.5000E-01	2.0000E-03	5.5000E-01	A	0	MED-IND
AUTOMOBILE	XE127	2.0	2.0000E-01	2.0000E-01	1.0000E-01	1.0000E-01	A	0	MED-IND
AUTOMOBILE	C 14	5.3	1.4333E-02	0.	2.6875E-03	0.	A	0	MEDICAL
AUTOMOBILE	C 14	4.3	2.1667E-02	0.	5.0000E-03	0.	A	ND	MEDICAL
AUTOMOBILE	CS134	1.0	2.0000E-03	3.5000E-01	2.0000E-03	3.5000E-01	A	0	MEDICAL
AUTOMOBILE	FE 52	4.0	1.0089E+01	1.6000E+01	2.5222E+00	4.0000E+00	A	0	MEDICAL
AUTOMOBILE	I 123	62.0	5.2103E-01	3.4200E+01	8.4032E-03	5.5161E-01	A	0	MEDICAL
AUTOMOBILE	I 131	12.1	1.2093E-05	0.	1.0000E-06	0.	E	0	MEDICAL
AUTOMOBILE	P 32	8.7	5.2030E-02	0.	6.0000E-03	0.	A	0	MEDICAL
AUTOMOBILE	TC 99M	52.0	6.7600E+00	5.2000E+00	1.3000E-01	1.0000E-01	A	0	MEDICAL
AUTOMOBILE	TL201	5.0	1.8400E-02	3.4000E+00	3.0667E-03	5.6667E-01	A	0	MEDICAL

TABLE A- 2

CITY LAT = 4.100000E+01 CITY LONG = 7.388000E+01 RADIUS = 5.900000E-01  
 CITY = NEW YORK CITY ACROSS

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MF	28.0	2.6020E-02	2.6000E+01	9.2929E-04	9.2857E-01	A	ND	FUEL CY
AUTOMOBILE	RU239	1.0	1.6000E-05	0.	1.6000E-05	0.	E	ND	FUEL CY
AUTOMOBILE	C 14	4.3	4.3333E-03	0.	1.0000E-03	0.	A	0	MEDICAL
AUTOMOBILE	P 32	4.3	4.3333E-03	0.	1.0000E-03	0.	A	0	MEDICAL



TABLE A- 3

CITY LAT = 4.100000E+01 CITY LONG = 7.388000E-01 RADIUS = 5.900000E-01  
 \* \* \* \* \* CITY = NEW YORK CITY TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	10.4	8.7786E-03	2.0920E+01	8.4759E-04	2.0199E+00	A	D	FUEL CY
AIR,FRT.	PU238	7.0	1.0975E+02	1.0400E+00	1.5679E+01	1.4857E-01	A	ND	FUEL CY
AIR,FRT.	PU239	8.0	2.8000E+02	0.	3.5000E+01	0.	A	ND	FUEL CY
AIR,FRT.	PU242	2.0	1.0001E+01	2.0000E-01	5.0035E+00	1.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 233	1.0	1.2000E-01	4.0000E-01	1.2000E-01	4.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 235	81.0	1.2164E+03	8.6667E-01	1.5017E+01	1.0700E-02	A	D	FUEL CY
AIR,FRT.	U 235	14.1	1.1404E+02	6.4465E+00	8.0917E+00	4.5743E-01	A	ND	FUEL CY
AIR,FRT.	U 235	28.0	3.3405E+04	1.3000E+00	1.1930E+03	4.6429E-02	B	D	FUEL CY
AIR,FRT.	U 235	62.0	7.1275E+05	6.2000E+00	1.1496E+04	1.0000E-01	B	ND	FUEL CY
AIR,FRT.	U 235	5.0	1.2510E-01	0.	2.5020E-02	0.	E	D	FUEL CY
AIR,FRT.	U 235	1.0	1.1000E+01	0.	1.1000E+01	0.	E	ND	FUEL CY
AIR,FRT.	U 235	4.0	4.0000E-03	6.0000E+00	1.0000E-03	1.5000E+00	LS	D	FUEL CY
AIR,FRT.	U 235	1.0	1.0000E-04	0.	1.0000E-04	0.	LS	ND	FUEL CY
AIR,FRT.	U 238	1.0	1.5000E+04	1.0000E+00	1.5000E+04	1.0000E+00	A	ND	FUEL CY
AIR,FRT.	AM241	109.8	1.0619E+01	3.5109E+00	9.6676E-02	3.1964E-02	A	ND	INDUSTR
AIR,FRT.	AM241	48.4	6.3325E+02	1.4512E+01	1.3091E+01	3.0000E-01	B	ND	INDUSTR
AIR,FRT.	AM241	2.0	2.0000E-06	0.	1.0000E-06	0.	E	ND	INDUSTR
AIR,FRT.	CS137	12.1	2.6605E-01	3.6279E+01	2.2000E-02	3.0000E+00	A	D	INDUSTR
AIR,FRT.	CS137	4.0	4.0000E-04	4.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
AIR,FRT.	H 3	832.9	1.2100E+04	0.	1.4529E+01	0.	A	D	INDUSTR
AIR,FRT.	H 3	4.3	4.3333E-03	0.	1.0000E-03	0.	A	ND	INDUSTR
AIR,FRT.	IR192	54.0	4.1601E+03	5.2000E+01	7.7039E+01	9.6296E-01	A	ND	INDUSTR
AIR,FRT.	IR192	396.7	3.7877E+04	5.6595E+02	9.5491E+01	1.4268E+00	B	ND	INDUSTR
AIR,FRT.	KR 85	82.1	2.0723E+02	2.7321E+01	2.5243E+00	3.3280E-01	A	D	INDUSTR
AIR,FRT.	PO210	208.0	5.2364E+00	0.	2.5175E-02	0.	E	D	INDUSTR
AIR,FRT.	S 35	216.7	1.6397E+01	2.6000E+01	7.5680E-02	1.0000E-01	A	D	INDUSTR
AIR,FRT.	SE 75	104.0	8.4552E-01	2.0800E+01	8.1300E-03	2.0000E-01	A	D	INDUSTR
AIR,FRT.	CO 60	2.0	2.0000E-06	2.0000E-01	1.0000E-06	1.0000E-01	A	D	MED-IND
AIR,FRT.	CO 60	11.4	2.0802E+02	1.0900E+01	1.8247E+01	9.5614E-01	A	ND	MED-IND
AIR,FRT.	CO 60	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	MED-IND
AIR,FRT.	CR 51	190.7	6.2403E-01	2.4267E+01	3.2729E-03	1.2727E-01	A	D	MED-IND
AIR,FRT.	XE133	1260.1	7.7050E+03	5.7442E+02	6.1146E+00	4.5585E-01	A	D	MED-IND
AIR,FRT.	AU198	64.1	8.3216E+02	3.1321E+02	1.2984E+01	4.8868E+00	A	D	MEDICAL
AIR,FRT.	BK249	2.0	1.3400E+00	2.0000E-01	6.7000E-01	1.0000E-01	B	ND	MEDICAL
AIR,FRT.	C 14	793.9	2.2341E+02	2.6121E+02	2.8141E-01	3.2902E-01	A	D	MEDICAL
AIR,FRT.	C 14	4.3	4.3333E-03	0.	1.0000E-03	0.	A	ND	MEDICAL
AIR,FRT.	CL 35	52.0	5.2000E-03	0.	1.0000E-04	0.	A	D	MEDICAL
AIR,FRT.	CO 57	56.3	4.5933E-02	5.6333E+00	8.1538E-04	1.0000E-01	A	D	MEDICAL
AIR,FRT.	CO 57	52.0	1.1960E-02	0.	2.3000E-04	0.	A	ND	MEDICAL
AIR,FRT.	CS134	12.1	1.2093E-03	3.6279E+00	1.0000E-04	3.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	16.0	1.8400E+01	7.0000E+01	1.1500E+00	4.3750E+00	A	D	MEDICAL
AIR,FRT.	HG197	52.0	3.3800E+00	1.5600E+01	6.5000E-02	3.0000E-01	A	D	MEDICAL
AIR,FRT.	HG203	2.0	4.0000E-03	8.0000E-01	2.0000E-03	4.0000E-01	LS	D	MEDICAL
AIR,FRT.	I 125	1394.6	1.6788E+02	1.3203E+02	1.2037E-01	9.4667E-02	A	D	MEDICAL
AIR,FRT.	I 131	1399.4	4.9245E+02	2.5220E+03	3.5131E-01	1.8022E+00	A	D	MEDICAL
AIR,FRT.	I 131	120.9	4.3970E+03	2.4549E+02	3.6360E+01	2.0300E+00	B	D	MEDICAL
AIR,FRT.	IN111	214.0	2.1520E+01	6.4800E+01	1.0056E-01	3.0280E-01	A	D	MEDICAL
AIR,FRT.	K 42	24.2	3.9907E-01	3.5070E+01	1.6500E-02	1.4500E+00	A	D	MEDICAL
AIR,FRT.	MO 99	1200.8	1.4644E+03	2.7209E+03	1.2135E+00	2.2659E+00	A	D	MEDICAL
AIR,FRT.	MO 99	100.4	1.3063E+04	3.7609E+02	1.3014E+02	3.7470E+00	B	D	MEDICAL
AIR,FRT.	NA 24	84.7	4.8372E-01	1.5600E+02	5.7143E-03	1.8429E+00	A	D	MEDICAL
AIR,FRT.	P 32	161.0	5.1053E+01	7.8877E+01	3.1702E-01	4.8980E-01	A	D	MEDICAL

A3

TABLE A- 4

CITY LAT = 4.100000E+01		CITY LONG = 7.3880000E+01		CITY = NEW YORK CITY		RADIUS = 5.9000000E-01		ACROSS	
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT	MF	2.0	2.000E+04	2.000E+00	1.000E-04	1.000E+00	A	ND	FUEL CY
AIR,FRT	PU238	1.0	3.500E-03	1.000E-02	3.500E-03	1.000E-02	B	ND	FUEL CY
AIR,FRT	PU242	1.0	5.000E-07	0.	5.000E-07	0.	A	D	FUEL CY
AIR,FRT	U 235	13.0	6.933E-02	0.	5.333E-03	0.	A	D	FUEL CY
AIR,FRT	U 235	28.0	1.872E+04	1.200E+01	6.689E+02	4.571E-01	A	ND	FUEL CY
AIR,FRT	U 235	1.0	4.451E+03	0.	4.451E+03	0.	B	D	FUEL CY
AIR,FRT	H 3	302.2	1.015E+05	0.	3.361E+02	0.	A	D	INDUSTR
AIR,FRT	H 3	8.7	1.500E-01	0.	1.500E-02	0.	A	ND	INDUSTR
AIR,FRT	IR192	72.8	4.524E+03	7.280E+01	6.214E+01	1.000E+00	A	ND	INDUSTR
AIR,FRT	IR192	113.4	1.355E+04	1.353E+02	1.1950E+02	1.1776E+00	B	ND	INDUSTR
AIR,FRT	KR 85	48.4	8.526E+02	1.281E+02	1.762E+01	2.6500E+00	A	D	INDUSTR
AIR,FRT	NA 22	4.3	4.333E-04	4.333E-01	1.000E-04	1.000E-01	A	D	INDUSTR
AIR,FRT	PO210	104.0	3.300E-01	0.	3.250E-03	0.	E	D	INDUSTR
AIR,FRT	RA226	2.0	1.000E-02	2.800E+00	5.000E-03	1.400E+00	A	ND	INDUSTR
AIR,FRT	S 35	30.3	1.256E-01	0.	4.142E-03	0.	A	D	INDUSTR
AIR,FRT	SR 89	12.1	1.203E-01	2.418E+00	1.000E-02	2.000E-01	A	D	INDUSTR
AIR,FRT	CO 60	20.8	3.156E+01	2.080E+01	1.5075E+00	1.000E+00	A	ND	MED-IND
AIR,FRT	CR 51	52.0	4.073E-01	5.200E+00	7.833E-03	1.000E-01	A	D	MED-IND
AIR,FRT	XE133	21.7	4.463E+00	0.	2.0630E-01	0.	A	D	MED-IND
AIR,FRT	C 14	160.3	3.791E-01	0.	2.3649E-03	0.	A	D	MEDICAL
AIR,FRT	C 14	13.0	1.733E-02	0.	1.333E-03	0.	A	ND	MEDICAL
AIR,FRT	CF144	24.2	2.418E+01	7.255E+01	1.000E+00	3.000E+00	A	D	MEDICAL
AIR,FRT	CO 57	52.0	2.080E-03	5.200E+00	4.000E-05	1.000E-01	A	D	MEDICAL
AIR,FRT	FE 59	4.3	4.333E-03	8.667E-01	1.000E-03	2.000E-01	A	D	MEDICAL
AIR,FRT	GA 67	43.3	4.940E-01	2.080E+01	1.140E-02	4.800E-01	A	D	MEDICAL
AIR,FRT	I 125	242.3	8.917E-01	1.300E+00	2.609E-03	3.7975E-03	A	D	MEDICAL
AIR,FRT	I 131	17.3	3.900E-02	3.033E+00	2.250E-03	1.750E-01	A	D	MEDICAL
AIR,FRT	K 42	84.7	1.209E+00	7.0140E+01	1.428E-02	8.2857E-01	A	D	MEDICAL
AIR,FRT	K 43	72.6	5.441E-01	5.320E+01	7.500E-03	7.333E-01	A	D	MEDICAL
AIR,FRT	MO 99	104.0	6.950E+01	2.600E+01	6.683E-01	2.500E-01	A	D	MEDICAL
AIR,FRT	NA 24	96.7	5.200E-01	2.128E+02	5.3750E-03	2.200E+00	A	D	MEDICAL
AIR,FRT	P 32	47.7	5.980E-01	3.4667E+00	1.254E-02	7.2727E-02	A	D	MEDICAL
AIR,FRT	P 33	12.1	1.451E+00	0.	1.200E-01	0.	A	D	MEDICAL

TABLE A- 5

CITY LAT = 4.100000E+01		CITY LONG = 7.3880000E+01		RADIUS = 5.900000E-01		TO OR FROM	
CITY = NEW YORK CITY		CITY = NEW YORK CITY		RADIUS = 5.900000E-01		TO OR FROM	
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL YI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	END USE
AIR+PASS	PU236	1.0	5.0000E-04	2.0000E-01	5.0000E-04	2.0000E-01	FUEL CY
AIR+PASS	PU238	10.0	5.7500E+00	4.6000E-01	5.7500E-01	4.6000E-02	FUEL CY
AIR+PASS	PU238	1.0	2.1000E+00	1.0000E+01	2.1000E+00	1.0000E+01	FUEL CY
AIR+PASS	PU239	1.0	5.0000E-01	0.	5.0000E-01	0.	FUEL CY
AIR+PASS	PU24C	1.0	6.6000E-04	0.	6.6000E-04	0.	FUEL CY
AIR+PASS	PU241	1.0	1.0000E-02	0.	1.0000E-02	0.	FUEL CY
AIR+PASS	PU242	5.0	5.3300E-01	0.	1.0660E-01	0.	FUEL CY
AIR+PASS	TH232	6.0	7.0800E+01	0.	1.1800E+01	0.	FUEL CY
AIR+PASS	U 233	9.0	1.7130E-01	0.	1.9033E-02	0.	FUEL CY
AIR+PASS	U 233	4.0	2.2415E+02	4.0000E-01	5.6038E+01	1.0000E-01	FUEL CY
AIR+PASS	U 235	29.8	1.8934E+00	1.4093E+00	5.3623E-02	4.7356E-02	FUEL CY
AIR+PASS	U 235	17.0	3.6534E-01	1.2000E+00	2.1490E-02	7.0388E-02	FUEL CY
AIR+PASS	U 235	35.2	3.3316E+00	0.	9.4685E-02	0.	FUEL CY
AIR+PASS	U 235	2.0	1.6000E-01	2.0000E-01	8.0000E-02	1.0000E-01	FUEL CY
AIR+PASS	U 235	2.0	1.9610E+00	1.0000E-01	9.8050E-01	5.0000E-02	FUEL CY
AIR+PASS	U 235	8.0	9.6242E+02	0.	1.2030E+02	0.	FUEL CY
AIR+PASS	U 235	5.0	3.9200E-01	0.	7.8000E-02	0.	FUEL CY
AIR+PASS	U 236	1.0	3.0000E-01	1.0000E-01	3.0000E-01	1.0000E-01	FUEL CY
AIR+PASS	U 238	12.1	6.5302E+04	2.4186E+00	5.4000E+03	2.0000E-01	FUEL CY
AIR+PASS	U 238	1.0	4.0000E-03	0.	4.0000E-03	0.	FUEL CY
AIR+PASS	AM241	14.1	1.4093E-06	1.2093E+00	1.3000E-07	9.5809E-02	INDUSTR
AIR+PASS	AM241	42.2	2.7958E+01	2.4186E-03	6.6274E-01	5.7332E-05	INDUSTR
AIR+PASS	CF252	4.0	1.0800E-01	2.0000E+01	2.7000E-02	5.0000E+00	INDUSTR
AIR+PASS	CF137	4.0	1.8200E+02	4.0000E-01	4.5000E+01	1.0000E-01	INDUSTR
AIR+PASS	FE 55	4.3	8.6667E-03	0.	2.0000E-03	0.	INDUSTR
AIR+PASS	H 3	3903.3	1.4324E+01	2.0000E-01	3.6698E-03	5.1238E-05	INDUSTR
AIR+PASS	H 3	4.3	4.3333E-03	0.	1.0000E-03	0.	INDUSTR
AIR+PASS	H 3	10.0	1.4600E-02	0.	1.4600E-03	0.	INDUSTR
AIR+PASS	KR 85	14.0	7.0000E+00	2.2000E+00	5.0000E-01	1.5714E-01	INDUSTR
AIR+PASS	KR 85	12.1	1.2093E+04	0.	1.0000E-05	0.	INDUSTR
AIR+PASS	RA226	12.1	2.4186E-03	1.2093E+01	2.0000E-04	1.0000E+00	INDUSTR
AIR+PASS	S 35	164.7	1.4560E+00	5.2730E+00	8.8421E-03	3.1579E-02	INDUSTR
AIR+PASS	SE 75	52.0	1.3000E-02	1.0400E+01	2.5000E-04	2.0000E-01	INDUSTR
AIR+PASS	SN115	48.4	1.0642E+00	7.1349E+01	2.2000E-02	1.4750E+00	INDUSTR
AIR+PASS	SR 89	12.1	5.4413E-01	4.8372E+00	4.5013E-02	4.0000E-01	INDUSTR
AIR+PASS	CM244	12.1	2.4186E+02	0.	2.0000E+01	0.	MED-IND
AIR+PASS	CR 51	36.3	7.8363E+00	3.7488E+01	2.1600E-01	1.0333E+00	MED-IND
AIR+PASS	KE133	600.3	4.2721E+02	4.7767E+01	7.1165E-01	7.9570E-02	MED-IND
AIR+PASS	AU198	48.4	3.7851E-01	9.6744E+00	7.8250E-03	2.0000E-01	MEDICAL
AIR+PASS	C 14	135.6	6.1912E-01	0.	4.5739E-04	0.	MEDICAL
AIR+PASS	C 14	12.1	4.8372E-03	0.	4.0000E-04	0.	MEDICAL
AIR+PASS	CO139	6.0	2.1002E-01	4.0000E-02	3.5000E-02	5.6667E-03	MEDICAL
AIR+PASS	CE137	52.0	5.2000E-02	1.0400E+01	1.0000E-03	2.0000E-01	MEDICAL
AIR+PASS	CO 57	144.2	1.4513E+01	5.2884E+01	7.8699E-03	3.4098E-02	MEDICAL
AIR+PASS	CO 57	2.0	1.9600E-03	2.0000E-01	9.8000E-04	1.0000E-01	MEDICAL
AIR+PASS	GA 67	167.0	1.8179E+02	9.0940E+02	1.0859E-01	5.4325E-01	MEDICAL
AIR+PASS	M6233	52.0	5.2000E-01	1.5600E+01	1.0000E-02	3.0000E-01	MEDICAL
AIR+PASS	I 123	353.0	5.5520E+00	4.8938E+02	1.8529E-03	1.3846E-01	MEDICAL
AIR+PASS	I 125	8805.8	1.4634E+02	9.2270E+01	1.6518E-02	1.0478E-02	MEDICAL
AIR+PASS	I 125	208.0	1.7368E+02	8.3500E-05	0.	0.	MEDICAL

CITY LAT = 4.100000E+01 CITY LONG = 7.388000E+01 RADIUS = 5.900000E-01  
 TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS	I 125	2.0	1.000E+02	2.000E-02	5.000E-03	1.000E-02	LS	D	MEDICAL
AIR,PASS	I 131	1916.7	6.995E+01	1.286E+03	3.649E-02	8.277E-01	A	D	MEDICAL
AIR,PASS	I 131	48.4	1.591E+03	9.059E+01	3.290E+01	1.875E+00	B	D	MEDICAL
AIR,PASS	IN111	802.0	1.505E+01	3.140E+01	1.877E-02	3.915E-02	A	D	MEDICAL
AIR,PASS	K 93	28.2	4.832E+02	9.574E+00	2.800E-03	4.000E-01	A	D	MEDICAL
AIR,PASS	MG 28	46.0	2.376E+03	5.100E+01	5.165E+01	1.108E+00	A	D	MEDICAL
AIR,PASS	MO 99	1725.7	2.191E+03	7.347E+02	1.259E+00	4.257E-01	A	D	MEDICAL
AIR,PASS	MO 99	105.4	1.463E+04	4.559E+02	1.458E+02	4.542E+00	B	D	MEDICAL
AIR,PASS	P 32	408.9	3.651E+01	1.260E+02	8.929E-02	3.081E-01	A	D	MEDICAL
AIR,PASS	TC 99*	1612.0	1.134E+02	3.718E+02	1.035E-02	2.306E-01	A	D	MEDICAL
AIR,PASS	TL201	2.0	6.000E+03	0*	3.000E-03	?	A	D	MEDICAL
AIR,PASS	TL204	2.0	2.000E+04	?	1.000E-04	?	A	D	MEDICAL





TABLE A- 7

CITY LAT = 4.1000000E+01      CITY LONG = 7.3880000E+01      RADIUS = 5.9000000E-01  
 \* \* \* \* \* CITY = NEW YORK CITY      TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	U 235	2264.0	2.1724E+06 *	5.6600E+12	9.5952E+02 *	2.5000E-01	B	D	FUEL CY
SHIP	U 235	42.0	1.1457E+06 *	2.1000E+02	2.7278E+04 *	5.0000E+00	B	ND	FUEL CY
SHIP	U 235	1.0	2.4300E-02 *	0.	2.4300E-02 *	1.	E	D	FUEL CY
SHIP	U 235	1.0	4.2600E-01 *	0.	4.2600E-01 *	1.	LS	D	FUEL CY
SHIP	U 238	36.3	9.2632E+05 *	7.2558E+00	2.5533E+04 *	2.0000E-01	A	D	FUEL CY
SHIP	KR 85	2.0	1.0000E+00	2.9000E-01	5.0000E-01	1.0000E-01	A	D	INDUSTR

TABLE A- 8

CITY LAT = 4.1000000E+01      CITY LONG = 7.3880000E+01      RADIUS = 5.9000000E-01  
 \* \* \* \* \* CITY = NEW YORK CITY      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
RAIL	U 235	1.0	4.4000E-03 *	0.	4.4000E-03 *	1.	B	D	FUEL CY

TABLE A- 9

CITY LAT = 4.100000E+01		CITY LONG = 7.3880000E+01		CITY = NEW YORK CITY		RADIUS = 5.9000000E-01		TO OR FROM		
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL Y1 PER SHPMT	AVERAGE ACTIVITY PER SHPMT	AVERAGE Y1 PER SHPMT	AVERAGE YI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	12.0	3.2680E-03	4.0000E-01	2.7233E-04	3.5333E-02	3.5333E-02	A	D	FUEL CY
TRUCK	MC	4541.8	1.6630E+03	1.0884E+02	3.6616E-01	2.3963E-02	2.3963E-02	LS	D	FUEL CY
TRUCK	MF	9857.0	4.5342E+03	7.3405E+03	4.6000E-01	7.4469E-01	7.4469E-01	LS	D	FUEL CY
TRUCK	PU238	1.0	2.4000E+00	1.1000E+00	2.4000E+00	2.4000E+00	2.4000E+00	A	ND	FUEL CY
TRUCK	PU239	1.0	1.4900E+02	1.4900E+02	1.4900E+02	1.4900E+02	1.4900E+02	B	ND	FUEL CY
TRUCK	SF	6.0	2.2996E+06	3.6330E+02	3.8327E+05	3.6000E+01	3.6000E+01	B	ND	FUEL CY
TRUCK	U 233	2.0	2.0000E+00	5.0000E-01	1.0000E+00	2.5000E-01	2.5000E-01	A	ND	FUEL CY
TRUCK	U 235	1836.8	1.2753E+03	1.1960E+02	6.9411E-01	5.5112E-02	5.5112E-02	A	O	FUEL CY
TRUCK	U 235	7413.0	1.7985E+06	2.2239E+03	2.4263E+02	3.0000E-01	3.0000E-01	A	ND	FUEL CY
TRUCK	U 235	33.0	1.2634E+02	7.7500E+00	3.8194E+00	2.3485E-01	2.3485E-01	B	O	FUEL CY
TRUCK	U 235	38.0	1.5171E+06	5.0650E+01	1.9923E+04	1.3329E+01	1.3329E+01	B	ND	FUEL CY
TRUCK	U 235	1.0	1.0000E-03	3.0000E-02	1.0000E-03	3.0000E-02	3.0000E-02	E	O	FUEL CY
TRUCK	U 235	40.0	4.5349E+02	0.0	1.3355E+01	0.0	0.0	E	ND	FUEL CY
TRUCK	U 235	3814.4	5.2142E+03	2.8600E+03	1.3670E+00	7.4979E-01	7.4979E-01	LS	D	FUEL CY
TRUCK	U 235	20.0	1.5174E+01	0.0	7.5870E-01	0.0	0.0	LS	ND	FUEL CY
TRUCK	U 238	5.0	1.5800E+02	0.0	3.1800E+01	0.0	0.0	E	ND	FUEL CY
TRUCK	U 238	2055.8	1.6744E+08	0.0	3.7330E+05	0.0	0.0	LS	O	FUEL CY
TRUCK	AM241	4.0	8.0000E-01	0.0	2.0000E-01	0.0	0.0	A	ND	INDUSTR
TRUCK	AM241	2.0	2.0000E-02	0.0	1.0000E-02	0.0	0.0	E	ND	INDUSTR
TRUCK	CS137	6.0	5.6031E+03	2.0000E-01	9.3335E+02	3.3335E-02	3.3335E-02	A	ND	INDUSTR
TRUCK	CS137	57.3	3.3052E+00	3.3540E+01	5.7733E-02	5.3345E-01	5.3345E-01	LS	O	INDUSTR
TRUCK	EU152	12.1	2.4186E-02	9.6744E+00	2.0000E-03	3.0000E-01	3.0000E-01	A	O	INDUSTR
TRUCK	FE 55	1.0	1.5000E-01	0.0	1.5000E-01	0.0	0.0	A	O	INDUSTR
TRUCK	H 3	2292.0	1.2331E+02	2.0000E+00	5.3800E-02	8.7260E-04	8.7260E-04	A	O	INDUSTR
TRUCK	H 3	82.0	6.7200E+02	0.0	8.1951E+00	0.0	0.0	B	O	INDUSTR
TRUCK	IR192	38.3	2.3270E+02	1.6000E+02	6.0790E+00	4.1788E+00	4.1788E+00	A	O	INDUSTR
TRUCK	KR 85	4.0	1.6000E+00	4.0000E-01	4.0000E-01	1.0000E-01	1.0000E-01	A	O	INDUSTR
TRUCK	NP237	1.0	1.8500E-07	0.0	1.8500E-07	0.0	0.0	A	O	INDUSTR
TRUCK	PO210	6.0	1.1000E-02	0.0	1.8335E-03	0.0	0.0	A	ND	INDUSTR
TRUCK	RA226	2.0	1.0000E-01	1.4000E+01	5.0000E-02	7.0000E+00	7.0000E+00	A	ND	INDUSTR
TRUCK	SE 75	988.0	5.2811E-01	2.7040E+02	5.3453E-04	2.7368E-01	2.7368E-01	A	O	INDUSTR
TRUCK	CO 60	2.0	1.4600E+01	2.6000E+00	7.3000E+00	1.3000E+00	1.3000E+00	A	O	INDUSTR
TRUCK	CO 60	30.0	1.2725E+05	2.8600E+01	4.2419E+04	9.5333E-01	9.5333E-01	B	ND	MED-IND
TRUCK	CO 60	1578.0	2.7460E+02	1.8000E-01	1.7402E-01	1.1407E-04	1.1407E-04	LS	O	MED-IND
TRUCK	CO 50	907.0	1.3605E-02	9.0698E+01	1.5000E-05	1.0000E-01	1.0000E-01	LS	ND	MED-IND
TRUCK	CR 51	468.0	5.2780E-01	8.3200E+01	1.1278E-03	1.7778E-01	1.7778E-01	A	O	MED-IND
TRUCK	XE133	2768.1	1.5683E+04	3.8456E+01	5.6657E+00	1.3893E-02	1.3893E-02	A	O	MED-IND
TRUCK	AU198	882.8	1.5504E+03	3.7196E+03	1.7563E+00	4.2134E+00	4.2134E+00	A	O	MEDICAL
TRUCK	AU198	7.0	4.0000E-07	0.0	1.0000E-07	0.0	0.0	A	ND	MEDICAL
TRUCK	C 14	1406.0	8.6067E-01	0.0	6.1214E-04	0.0	0.0	A	O	MEDICAL
TRUCK	C 14	4.3	4.3333E-03	0.0	1.0000E-03	0.0	0.0	A	ND	MEDICAL
TRUCK	CO 57	1924.0	5.2357E+00	1.3520E+02	2.7212E-03	7.0270E-02	7.0270E-02	A	O	MEDICAL
TRUCK	CO 57	678.0	5.4645E-02	1.0600E+01	7.9740E-05	1.5634E-02	1.5634E-02	A	ND	MEDICAL
TRUCK	CO 57	104.0	3.9000E-04	0.0	3.7500E-06	0.0	0.0	E	O	MEDICAL
TRUCK	CO 57	40.0	4.0000E-02	4.2000E-01	1.0000E-03	1.0000E-02	1.0000E-02	LS	O	MEDICAL
TRUCK	FE 59	52.0	2.6000E-02	3.1200E+01	5.0000E-04	5.0000E-01	5.0000E-01	A	O	MEDICAL
TRUCK	FE 59	52.0	2.6000E-04	0.0	5.0000E-06	0.0	0.0	E	O	MEDICAL
TRUCK	GA 67	3328.0	2.4492E+01	2.2880E+02	7.3594E-03	6.0750E-02	6.0750E-02	A	O	MEDICAL
TRUCK	H6197	260.0	2.3709E+01	8.4400E+01	9.1380E-02	3.4000E-01	3.4000E-01	A	O	MEDICAL
TRUCK	I 123	5408.0	6.3360E+00	4.4920E+02	1.1827E-03	9.2368E-02	9.2368E-02	A	O	MEDICAL

CITY LAT = 40.1000000E+01    CITY LONG = 7.3880000E+01    RADIUS = 5.9000000E-01  
 \* \* \* \* \* CITY = NEW YORK CITY    TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	I 125	4062.0	4.3169E+00	1.4753E+02	1.0627E-03	3.6320E-02	A	D	MEDICAL
TRUCK	I 125	1144.0	2.4388E-02	0.	2.1318E-05	0.	E	D	MEDICAL
TRUCK	I 131	8125.3	6.3388E+01	4.2229E+03	7.8013E-03	5.1972E-01	A	D	MEDICAL
TRUCK	I 131	2496.0	8.7308E+00	1.7056E+03	3.4979E-03	5.8333E-01	A	ND	MEDICAL
TRUCK	I 131	95.7	5.9147E+02	1.2456E+02	6.1138E+00	1.2875E+00	B	D	MEDICAL
TRUCK	IN111	1506.0	4.9920E+00	3.1200E+01	3.3103E-03	2.0690E-02	A	D	MEDICAL
TRUCK	MO 99	470.4	1.3735E+03	1.7901E+03	2.8347E+00	3.8054E+00	A	D	MEDICAL
TRUCK	MO 99	1612.0	1.871E+03	4.3056E+03	1.1657E+00	2.6710E+00	A	ND	MEDICAL
TRUCK	MO 99	580.5	7.3111E+04	8.4579E+03	1.2595E+02	1.4571E+01	B	D	MEDICAL
TRUCK	NI 63	32.0	5.3840E-04	0.	1.6825E-05	0.	A	ND	MEDICAL
TRUCK	P 32	980.7	1.2017E+02	3.1768E+02	1.2253E-01	3.2592E-01	A	D	MEDICAL
TRUCK	PM147	2.0	1.2000E-03	0.	6.0000E-04	0.	A	ND	MEDICAL
TRUCK	SI 31	60.5	1.8140E+00	4.5712E+02	3.0000E-02	7.5600E+00	A	ND	MEDICAL
TRUCK	TC 99M	73624.0	4.4366E+03	9.1226E+03	1.1197E-01	2.3023E-01	A	D	MEDICAL
TRUCK	W	162.0	6.5531E+01	3.0000E+01	4.0451E-01	1.8019E-01	A	D	WASTE
TRUCK	W	24.2	2.5794E+04	5.0465E+02	1.0665E+03	2.5000E+01	A	ND	WASTE
TRUCK	W	5.0	2.2400E+02	5.0000E-02	4.4800E+01	1.0000E-02	E	D	WASTE



TABLE A-10

CITY LAT = 4.100000E+01		CITY LONG = 7.3890000E+01		RADIUS = 5.3000000E-01		A-00SS	
CITY = NEW YORK CITY		CITY = NEW YORK CITY		RADIUS = 5.3000000E-01		A-00SS	
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL T1 PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE T1 PER SHPMT	END USE
TRUCK	MC	4.0	1.8000E-03	2.2000E+00	4.5000E-04	5.5000E-01	FUEL CY
TRUCK	MC	66.0	5.5400E-03	1.5800E+01	8.3939E-05	2.3439E-01	FUEL CY
TRUCK	MF	2.0	2.0000E-05	0.	1.0000E-06	0.	FUEL CY
TRUCK	MF	50.0	2.0300E+02	3.5600E+02	4.0619E+00	7.1200E+00	FUEL CY
TRUCK	PU238	2.0	2.1136E+04	1.0000E+01	1.0568E+04	5.0000E+00	FUEL CY
TRUCK	U 235	6.0	2.9250E+03	2.4550E+01	4.8750E+02	4.0917E+00	FUEL CY
TRUCK	U 235	165.0	2.1756E+05	3.9820E+01	2.0729E+03	3.7924E-01	FUEL CY
TRUCK	U 235	339.0	1.3811E+06	1.0500E+02	4.0739E+03	3.0973E-01	FUEL CY
TRUCK	U 235	35.0	1.5417E+06	0.	4.4049E+04	0.	FUEL CY
TRUCK	U 235	8.0	1.2440E-01	0.	1.5550E-02	0.	FUEL CY
TRUCK	U 235	200.0	2.0000E+02	2.0000E+01	1.0000E+00	1.0000E-01	FUEL CY
TRUCK	U 238	653.0	1.4367E+05	1.9591E+02	2.2000E+02	3.0000E-01	FUEL CY
TRUCK	U 238	145.1	5.0388E+06	5.1395E+01	3.4723E+04	3.5417E-01	FUEL CY
TRUCK	U 238	12.1	1.7936E+06	2.4186E+00	1.4891E+05	2.3000E-01	FUEL CY
TRUCK	AM241	24.2	4.9823E+03	2.6605E+01	2.0670E+02	1.1000E+00	INDUSTR
TRUCK	AM241	4.0	4.0000E-02	0.	1.0000E-02	0.	INDUSTR
TRUCK	FE 55	2.0	2.7518E+02	1.6000E+00	1.3759E+02	8.0000E-01	INDUSTR
TRUCK	FE 55	2.0	4.0000E-02	0.	2.0000E-02	0.	INDUSTR
TRUCK	IR192	10.4	5.2000E+02	1.0400E+01	5.0000E+01	1.0000E+00	INDUSTR
TRUCK	IR192	20.8	2.6800E+03	2.0800E+01	1.0000E+02	1.0000E+00	INDUSTR
TRUCK	KR 85	14.1	1.2103E+03	2.4385E+01	8.5810E+01	1.7304E+00	INDUSTR
TRUCK	SE 75	260.0	7.8000E-02	6.7600E+01	3.0000E-04	2.5000E-01	INDUSTR
TRUCK	CO 60	2.0	2.0000E-03	2.0000E-01	1.0000E-03	1.0000E-01	MED-IND
TRUCK	CO 60	628.4	1.2246E+02	5.0278E+01	1.9489E+01	9.2592E+00	MED-IND
TRUCK	CO 60	16.0	1.1578E+03	5.8000E+01	7.2365E+01	3.5250E+00	MED-IND
TRUCK	CO 60	20.0	6.5746E-04	6.0000E-01	3.2893E+05	3.0000E-02	MED-IND
TRUCK	CO 60	594.0	2.2157E+02	1.5010E+04	3.7302E-01	2.5269E+01	MED-IND
TRUCK	CR 51	312.0	8.8720E-01	3.2000E+01	1.4333E-03	1.6667E-01	MED-IND
TRUCK	AU198	156.0	6.3804E+00	1.8720E+02	4.0900E-02	1.2000E+00	MEDICAL
TRUCK	CO109	2.0	4.0000E-03	0.	2.0000E+03	0.	MEDICAL
TRUCK	CO 57	155.0	3.1200E-04	2.0000E+01	2.0000E-06	1.3333E-01	MEDICAL
TRUCK	FE 59	52.0	2.6000E-04	0.	5.0000E-05	0.	MEDICAL
TRUCK	GA 67	12.1	1.8260E+03	1.4512E+01	1.5100E+02	1.2000E+00	MEDICAL
TRUCK	HG197	52.0	6.2400E-02	2.6000E+01	1.2000E-03	3.0000E-01	MEDICAL
TRUCK	I 125	260.0	1.3020E-02	2.0800E+01	5.0000E-05	8.0000E-02	MEDICAL
TRUCK	I 125	104.0	7.2800E-04	0.	7.0000E-06	0.	MEDICAL
TRUCK	I 131	3744.0	2.4274E+01	2.6936E+03	6.4833E-03	7.1944E-01	MEDICAL
TRUCK	I 131	1196.0	2.9427E+00	1.0348E+03	2.4634E+03	9.5522E-01	MEDICAL
TRUCK	MO 99	52.0	1.0400E+02	1.5120E+02	2.0000E+00	3.1000E+00	MEDICAL
TRUCK	MO 99	2132.0	1.2253E+03	3.9676E+03	5.7471E-01	1.8510E+00	MEDICAL
TRUCK	TC 99M	3900.0	2.7155E+02	3.1648E+03	6.9653E-02	2.9867E-01	MEDICAL
TRUCK	W	598.0	2.2782E+03	6.5278E+03	3.8097E+00	1.0916E+01	WASTE
TRUCK	W	5.0	8.0000E+02	1.0100E+01	1.3333E+02	1.6833E+00	WASTE

TABLE A- 11

CITY LAT = 3.437000E+01		CITY LONG = 1.1827000E+02		CITY = LOS ANGELES		RADIUS = 8.500000E-01		TO OR FROM *		*****		*****		*****	
MAJOR TRANSPORT MODE	FACIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE						
AUTOMOBILE	MC	130.0	1.2524E+00	6.4100E+01	9.4800E-03	4.9308E-01	A	ND	FUEL CY						
AUTOMOBILE	MC	2.0	6.0600E-05	0.	3.0000E-05	0.	E	ND	FUEL CY						
AUTOMOBILE	PU239	1.0	4.0600E+00	0.	4.0000E+00	0.	A	ND	FUEL CY						
AUTOMOBILE	PU239	2.0	8.0000E+00	0.	4.0000E+00	0.	B	ND	FUEL CY						
AUTOMOBILE	U 235	12.1	4.8372E-06	1.2093E+00	4.0000E-07	1.0000E-01	A	D	FUEL CY						
AUTOMOBILE	U 235	1.0	2.0000E-01	0.	2.0000E-01	0.	A	ND	FUEL CY						
AUTOMOBILE	U 235	6.0	6.0000E-01	0.	1.0000E-01	0.	B	ND	FUEL CY						
AUTOMOBILE	U 238	4.0	4.0000E+02	0.	1.0000E+02	0.	B	ND	FUEL CY						
AUTOMOBILE	CS137	12.1	1.4312E-02	1.2093E+01	1.2000E-03	1.0000E+C0	A	D	INDUSTR						
AUTOMOBILE	CS137	2.0	2.0000E-05	0.	1.4000E-05	0.	A	ND	INDUSTR						
AUTOMOBILE	KR 85	12.1	4.8372E-01	1.2093E+00	4.0000E-02	1.0000E-01	A	D	INDUSTR						
AUTOMOBILE	RA226	242.7	1.7151E+01	4.8573E+03	7.0679E-02	2.0000E+01	A	ND	INDUSTR						

TABLE A- 12

CITY LAT = 3.437000E+01 CITY LONG = 1.1827000E+02 RADIUS = 8.5000000E-01  
 \* \* \* \* \* CITY = LOS ANGELES \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE	
AIR,FRT.	MC	2.0	2.0000E-05	0.	1.0000E-05	0.	E	ND	FUEL CY	
AIR,FRT.	FR	42.0	4.8081E+02	*	1.1120E+02	1.1448E+01	*	A	D	FUEL CY
AIR,FRT.	MF	2.0	2.0000E-06	*	0.	1.0000E-06	*	A	ND	FUEL CY
AIR,FRT.	PU238	1.0	2.7000E+00	*	1.0000E-01	2.7000E+00	*	B	ND	FUEL CY
AIR,FRT.	PU239	1.0	1.6000E-05	*	0.	1.6000E-05	*	E	ND	FUEL CY
AIR,FRT.	TH232	10.0	1.2000E+04	*	0.	1.2000E+03	*	A	ND	FUEL CY
AIR,FRT.	U 235	64.1	2.8095E-01	*	1.1609E+01	4.3834E-03	*	A	D	FUEL CY
AIR,FRT.	U 235	45.0	5.3180E+03	*	9.3600E+01	1.1818E+02	*	A	ND	FUEL CY
AIR,FRT.	U 235	4.0	7.6000E-01	*	0.	1.9000E-01	*	E	ND	FUEL CY
AIR,FRT.	AM241	118.1	1.4190E+00		1.4093E+00	1.2016E-02		A	D	INDUSTR
AIR,FRT.	CS137	36.3	1.4475E+01		1.8140E+02	3.9900E-01		A	D	INDUSTR
AIR,FRT.	FE 55	14.1	1.2047E-03		1.4052E+00	8.5479E-05		A	D	INDUSTR
AIR,FRT.	H 3	368.3	5.2958E+01		0.	1.4378E-01		A	D	INDUSTR
AIR,FRT.	H 3	2.0	2.0000E+00		0.	1.0000E+00		A	ND	INDUSTR
AIR,FRT.	IR192	2.0	3.0000E+01		2.0000E+00	1.5000E+01		A	ND	INDUSTR
AIR,FRT.	IR192	34.6	3.0233E+03		8.2958E+01	8.7413E+01		B	ND	INDUSTR
AIR,FRT.	KR 85	24.2	3.0233E+02		5.2000E+01	1.2500E+01		A	D	INDUSTR
AIR,FRT.	KR 85	9.0	6.0000E+01		9.6000E+00	1.5000E+01		LS	D	INDUSTR
AIR,FRT.	NA 22	52.0	6.2400E-02		8.3200E+01	1.2000E-03		A	D	INDUSTR
AIR,FRT.	PO210	1300.0	1.1580E+01		0.	8.9080E-03		E	D	INDUSTR
AIR,FRT.	S 35	56.3	6.0667E-02		0.	1.0769E-03		A	D	INDUSTR
AIR,FRT.	SN113	52.0	1.5600E+01		1.5600E+02	3.0000E-01		A	D	INDUSTR
AIR,FRT.	CM244	2.0	1.2000E-03		2.0000E-01	6.0000E-04		A	D	MED-IND
AIR,FRT.	CM244	2.0	2.0000E-06		0.	1.0000E-06		E	ND	MED-IND
AIR,FRT.	CO 60	2.0	2.0000E-05		2.0000E-01	1.0000E-05		A	D	MED-IND
AIR,FRT.	CR 51	260.0	6.4480E-01		3.1200E+01	2.4800E-03		A	D	MED-IND
AIR,FRT.	XE133	360.4	5.6837E+02		1.6930E+02	1.5772E+00		A	D	MED-IND
AIR,FRT.	C 14	225.3	3.8133E-02		0.	1.6923E-04		A	D	MEDICAL
AIR,FRT.	CO109	12.1	3.0233E-01		1.2052E+00	2.5000E-02		A	D	MEDICAL
AIR,FRT.	CO 57	24.2	7.2558E-02		7.2558E+00	3.0000E-03		A	D	MEDICAL
AIR,FRT.	CS134	12.1	1.2093E-03		3.6279E+00	1.0000E-04		A	D	MEDICAL
AIR,FRT.	GA 67	52.0	3.1200E-01		5.2000E+00	6.0000E-03		A	D	MEDICAL
AIR,FRT.	HG197	52.0	4.8360E-01		5.2000E+00	9.3000E-03		A	D	MEDICAL
AIR,FRT.	I 125	469.6	1.9584E+00		2.6847E+01	4.1703E-03		A	D	MEDICAL
AIR,FRT.	I 131	866.1	6.7318E+01		1.1110E+03	7.7728E-02		A	D	MEDICAL
AIR,FRT.	I 131	524.0	4.5443E+00		8.4240E+02	7.2825E-03		A	ND	MEDICAL
AIR,FRT.	IN111	52.0	6.2400E-01		0.	1.2000E-02		A	D	MEDICAL
AIR,FRT.	K 42	12.1	2.2977E-01		1.2052E+01	1.9000E-02		A	D	MEDICAL
AIR,FRT.	MO 99	21.7	1.1700E+01		0.	5.4000E-01		A	D	MEDICAL
AIR,FRT.	MO 99	468.0	3.5249E+02		1.0140E+03	7.5318E-01		A	ND	MEDICAL
AIR,FRT.	MO 99	204.4	1.2959E+04		4.8009E+02	6.3408E+01		B	D	MEDICAL
AIR,FRT.	NA 24	12.1	3.6279E-02		1.6930E+01	3.0000E-03		A	D	MEDICAL
AIR,FRT.	NI 63	2.0	6.0000E-06		2.0000E-01	3.0000E-06		A	D	MEDICAL
AIR,FRT.	P 32	104.0	7.8000E-01		5.2000E+00	7.5000E-03		A	D	MEDICAL
AIR,FRT.	PM147	14.1	4.4237E+01		1.6032E+00	3.1389E+00		A	D	MEDICAL
AIR,FRT.	RU106	12.1	2.4186E-01		8.4651E+00	2.0000E-02		A	D	MEDICAL
AIR,FRT.	TA182	12.1	2.4186E-02		8.4651E+00	2.0000E-03		A	ND	MEDICAL
AIR,FRT.	TE204	52.0	2.6000E+00		2.6000E+01	5.0000E-02		A	D	MEDICAL
AIR,FRT.	YB159	12.1	3.0233E+01		2.4186E+00	2.5000E+00		A	D	MEDICAL

TABLE A- 13

CITY LAT = 3.4370000E+01      CITY LONG = 1.1827000E+02      RADIUS = 8.5000000E-01  
 \* \* \* \* \* CITY = LOS ANGELES      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	PU238	1.0	2.0100E+01 *	2.0000E-01	2.0100E+01 *	2.0000E-01	B	ND	FUEL CY
AIR,FRT.	PU239	1.0	3.0000E-04 *	0.	3.0000E-04 *	0.	A	ND	FUEL CY
AIR,FRT.	TH228	1.0	1.8000E-08 *	1.0000E-01	1.8000E-08 *	1.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 235	8.0	1.6789E+02 *	7.5800E+00	2.0986E+01 *	9.4750E-01	A	ND	FUEL CY
AIR,FRT.	U 235	2.0	2.2000E-02 *	0.	1.1000E-01 *	0.	E	ND	FUEL CY
AIR,FRT.	U 238	1.0	2.0000E-02 *	0.	2.0000E-02 *	0.	E	ND	FUEL CY
AIR,FRT.	AM241	4.0	4.0000E-06	0.	1.0000E-06	0.	E	ND	INDUSTR
AIR,FRT.	CF252	2.0	8.0000E-02	5.6000E+00	4.0000E-02	2.8000E+00	A	ND	INDUSTR
AIR,FRT.	H 3	52.0	5.2000E-02	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	CM244	2.0	2.0000E-06	0.	1.0000E-06	0.	E	ND	MED-IND
AIR,FRT.	XE133	264.0	5.3040E+02	1.8200E+02	1.4571E+00	5.0000E-01	A	D	MED-IND
AIR,FRT.	C 14	2.0	3.0000E-03	2.0000E-02	1.5000E-03	1.0000E-02	A	D	MEDICAL
AIR,FRT.	P 32	52.0	1.7160E-01	1.0400E+01	3.3000E-03	2.0000E-01	A	D	MEDICAL

TABLE A- 14

CITY LAY = 3.4370000E+01		CITY LONG = 1.1827000E+02		RADIUS = 8.5000000E-01		CITY = LOS ANGELES		TC OR FROM	
MAJOR MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS	MC	8.0	3.0000E-01	1.4000E+01	3.7500E-02	1.7500E+00	A	ND	FUEL CY
AIR,PASS	MF	10.0	1.0000E-02	5.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,PASS	U 235	12.1	1.8140E-02	1.2093E+00	1.5000E-03	1.0000E-01	A	D	FUEL CY
AIR,PASS	U 235	11.0	1.1024E+01	6.0000E-01	1.0022E+00	5.4545E-02	A	ND	FUEL CY
AIR,PASS	U 235	2.0	3.5200E+01	0.0	1.7600E+01	0.0	E	ND	FUEL CY
AIR,PASS	AM241	12.1	1.2093E-06	1.2093E+00	1.0000E-07	1.0000E-01	A	D	INDUSTR
AIR,PASS	AM241	4.0	4.0000E-03	2.0000E-01	1.0000E-03	5.0000E-02	A	ND	INDUSTR
AIR,PASS	AM241	12.1	1.4512E-04	0.0	1.2000E-05	0.0	E	D	INDUSTR
AIR,PASS	CS137	4.0	4.0000E-01	1.6000E+01	1.0000E-01	4.0000E+00	A	ND	INDUSTR
AIR,PASS	FE 55	8.0	1.1080E-02	0.0	1.3850E-03	0.0	A	D	INDUSTR
AIR,PASS	H 3	743.5	4.5544E+01	1.2093E+01	6.1255E-02	1.6265E-02	A	D	INDUSTR
AIR,PASS	H 3	4.3	1.0833E-01	0.0	2.5000E-02	0.0	A	ND	INDUSTR
AIR,PASS	H 3	8.0	3.4000E-02	0.0	1.7500E-03	0.0	E	D	INDUSTR
AIR,PASS	IR192	2.0	3.5000E-01	0.0	1.7500E-01	0.0	B	ND	INDUSTR
AIR,PASS	KR 85	12.1	3.6279E-05	0.0	3.0000E-06	0.0	E	D	INDUSTR
AIR,PASS	NA 22	2.0	4.0000E-06	1.0000E+00	2.0000E-06	5.0000E-01	A	D	INDUSTR
AIR,PASS	S 35	4.3	4.3333E-02	0.0	1.0000E-02	0.0	A	D	INDUSTR
AIR,PASS	SE 75	1456.0	8.7126E-01	4.3680E+02	5.9839E-04	3.0000E-01	A	D	INDUSTR
AIR,PASS	CO 60	2.0	1.0000E-05	0.0	5.0000E-06	0.0	A	ND	MED-IND
AIR,PASS	CR 51	372.7	2.3712E-01	5.8067E+01	6.2628E-04	1.5581E-01	A	D	MED-IND
AIR,PASS	KE133	665.5	1.7845E+02	4.0512E+01	2.6814E-01	6.0372E-02	A	D	MED-IND
AIR,PASS	AU198	52.0	1.0400E-01	5.2000E+01	2.0000E-03	1.0000E+00	A	D	MEDICAL
AIR,PASS	C 14	289.2	6.8262E-01	6.0465E+01	1.7540E-03	1.5537E-01	A	D	MEDICAL
AIR,PASS	C 14	12.1	4.8372E-03	0.0	4.0000E-04	0.0	A	ND	MEDICAL
AIR,PASS	C 14	6.0	1.6000E-02	0.0	2.6667E-03	0.0	E	D	MEDICAL
AIR,PASS	CD109	2.0	2.0000E-01	4.0000E-02	1.0000E-01	2.0000E-02	A	ND	MEDICAL
AIR,PASS	CO 57	272.1	6.5788E-01	2.6000E+01	2.4179E-03	9.5556E-02	A	D	MEDICAL
AIR,PASS	CO 57	1.0	5.0000E-03	1.0000E-01	5.0000E-03	1.0000E-01	A	ND	MEDICAL
AIR,PASS	CO 57	12.1	3.6279E-05	0.0	3.0000E-06	0.0	E	D	MEDICAL
AIR,PASS	FE 59	52.0	5.2000E-03	0.0	1.0000E-04	0.0	E	D	MEDICAL
AIR,PASS	GA 67	329.3	1.3416E+01	5.2000E+00	4.0737E-02	1.5789E-02	A	D	MEDICAL
AIR,PASS	H6197	52.0	2.6000E-02	2.6000E+01	5.0000E-04	5.0000E-01	A	D	MEDICAL
AIR,PASS	H6203	156.0	6.2400E-01	0.0	4.0000E-03	0.0	A	D	MEDICAL
AIR,PASS	I 123	2.0	1.6000E-01	1.0000E+00	8.0000E-02	5.0000E-01	A	D	MEDICAL
AIR,PASS	I 123	156.0	9.8800E-02	1.8200E+01	6.3333E-04	1.1667E-01	A	ND	MEDICAL
AIR,PASS	I 125	1161.3	1.5494E+00	7.2800E+01	1.3342E-03	6.2667E-02	A	D	MEDICAL
AIR,PASS	I 125	106.0	1.0600E-03	0.0	1.0000E-05	0.0	E	D	MEDICAL
AIR,PASS	I 125	2.0	1.0000E-02	2.0000E-02	5.0000E-03	1.0000E-02	LS	D	MEDICAL
AIR,PASS	I 131	11960.0	8.9333E+01	8.3056E+03	7.4693E-03	6.9478E-01	A	D	MEDICAL
AIR,PASS	I 131	416.0	1.438E+00	3.7960E+12	3.4250E-03	9.1250E-01	A	ND	MEDICAL
AIR,PASS	IN111	104.0	7.8000E-01	0.0	7.5000E-03	0.0	A	D	MEDICAL
AIR,PASS	M6 28	10.0	2.4500E-03	1.0000E+01	2.4500E-04	1.0000E+00	A	D	MEDICAL
AIR,PASS	MO 99	572.0	7.5400E+02	1.1960E+03	1.3182E+00	2.0909E+00	A	D	MEDICAL
AIR,PASS	MO 99	156.0	2.0550E+02	3.2760E+02	1.3173E+00	2.1000E+00	A	ND	MEDICAL
AIR,PASS	MO 99	52.0	2.0800E+01	2.0800E+02	4.0000E-01	4.0000E+00	B	D	MEDICAL
AIR,PASS	P 32	112.7	1.8287E+00	2.6000E+01	1.6231E-02	2.3077E-01	A	D	MEDICAL
AIR,PASS	P 32	2.0	6.0000E-04	2.0000E-02	3.0000E-02	1.0000E-02	LS	D	MEDICAL
AIR,PASS	SR 82	2.0	4.0000E-02	1.0000E+00	2.0000E-04	5.0000E-01	A	D	MEDICAL
AIR,PASS	TC 99M	2652.0	2.7300E+02	9.3600E+01	1.0294E-01	3.5294E-02	A	D	MEDICAL
AIR,PASS	YB169	1.2.0	1.5600E-01	4.0000E-01	7.8000E-02	2.8000E-01	A	D	MEDICAL



TABLE A- 15

CITY LAT = 3.4370000E+01 CITY LONG = 1.1827000E+02 RADIUS = 8.5000000E-01  
 \* \* \* \* \* CITY = LOS ANGELES ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PLR YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	U 235	1.0	5.0000E+00	0.	5.0000E+00	0.	A	ND	FUEL CY
AIR,PASS.	U 235	4.0	9.4000E+00	0.	2.3500E+00	0.	E	ND	FUEL CY
AIR,PASS.	U 238	14.1	1.7327E+05	3.2186E-01	1.2295E+04	2.2838E-02	A	ND	FUEL CY
AIR,PASS.	H 3	52.0	2.6000E-01	0.	5.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	I 125	104.0	7.4412E-04	0.	7.1550E-06	0.	A	D	MEDICAL
AIR,PASS.	I 125	52.0	5.2000E-04	0.	1.0000E-05	0.	E	D	MEDICAL
AIR,PASS.	I 131	104.0	1.8408E-01	3.6400E-01	1.7700E-03	3.5000E-01	A	D	MEDICAL
AIR,PASS.	P 32	52.0	2.4960E-01	5.2000E+00	4.8000E-03	1.0000E-01	A	D	MEDICAL

TABLE A- 16

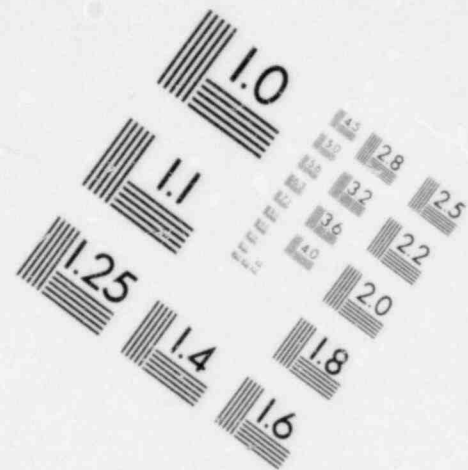
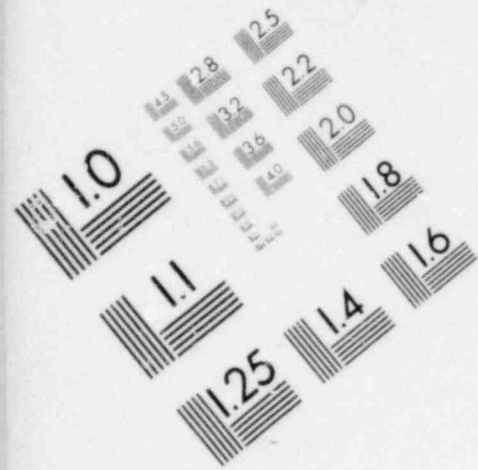
CITY LAT = 3.4370000E+01 CITY LONG = 1.1827000E+02 RADIUS = 8.5000000E-01  
 \* \* \* \* \* CITY = LOS ANGELES TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
RAIL	U 235	1.0	8.5670E+05	1.0000E-01	8.5670E+05	1.0000E-01	B	D	FUEL CY
RAIL	PO210	156.0	1.5080E+00	0.	9.6667E-03	0.	E	D	INDUSTR

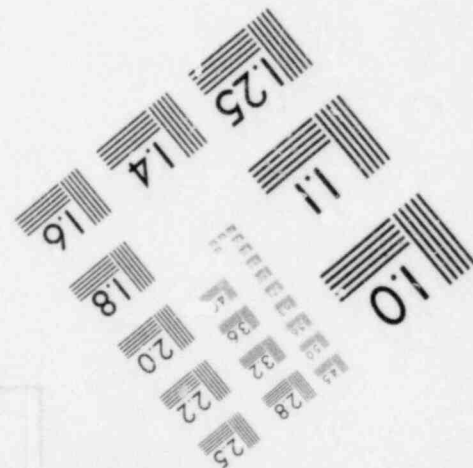
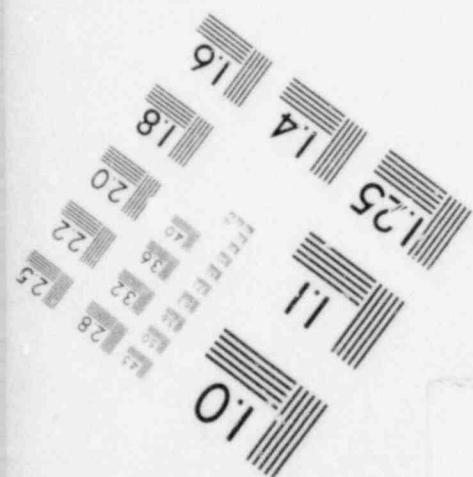
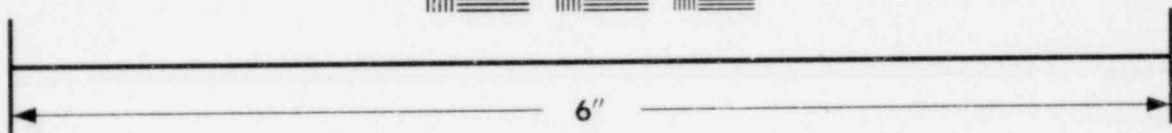
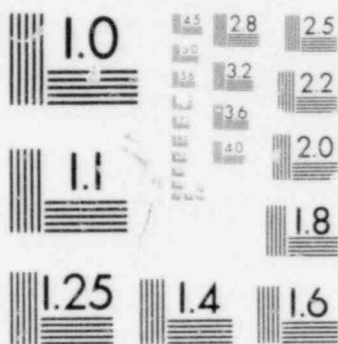
TABLE A- 17

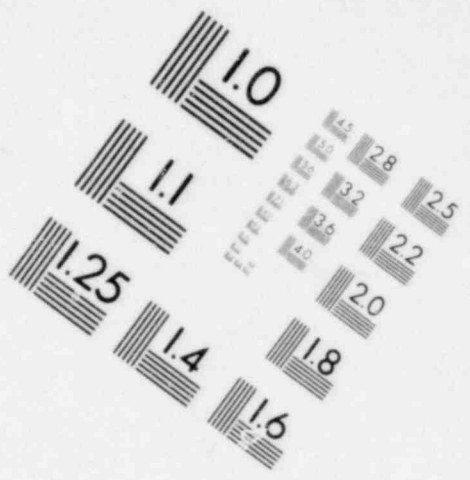
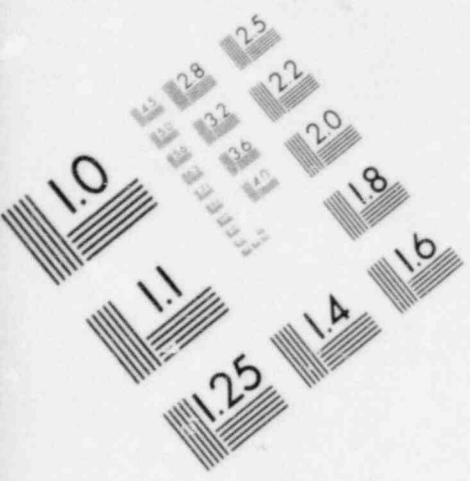
CITY LAT = 3.4370000E+01 CITY LONG = 1.1827000E+02 RADIUS = 8.5000000E-01  
 \* \* \* \* \* CITY = LOS ANGELES ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
RAIL	PU239	2.0	1.2001E+01	0.	6.0005E+00	0.	A	ND	FUEL CY
RAIL	PU239	2.0	1.5500E+02	1.0000E-01	7.7500E+01	5.0000E-02	B	ND	FUEL CY



**IMAGE EVALUATION  
TEST TARGET (MT-3)**





**IMAGE EVALUATION  
TEST TARGET (MT-3)**

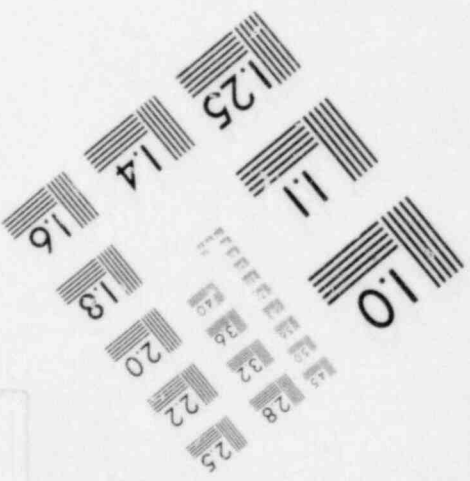
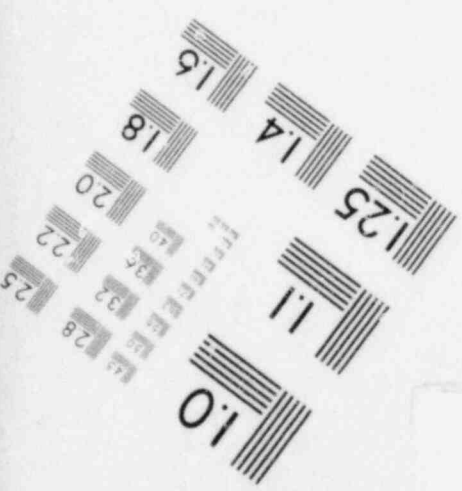
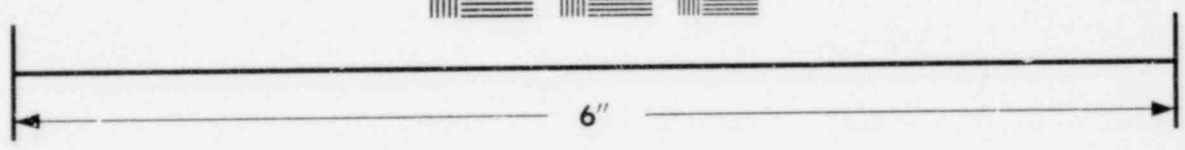
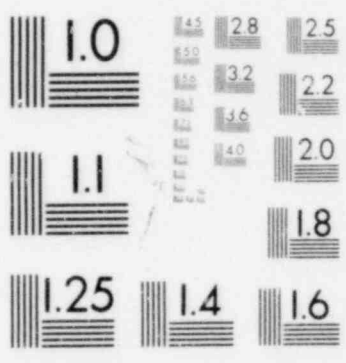




TABLE A-18

CITY LAT = 34370000E+01 CITY LONG = 11827000E+02 RADIUS = 85000000 TO OR FROM CITY = LOS ANGELES

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYP	PHYSICAL FORM	END USE
TRUCK	MC	2.0	2.0000E-04	1.0000E+00	1.0000E-04	5.0000E-01	A	ND	FUEL CY
TRUCK	MF	4.0	4.0000E-01	0.	1.0000E-01	0.	LQ	D	FUEL CY
TRUCK	MF	8.0	1.6200E+01	2.2000E+01	2.0250E+00	2.8750E+00	LS	D	FUEL CY
TRUCK	PU238	3.0	1.9416E+03	2.2000E+01	6.4720E+02	7.3333E+00	E	ND	FUEL CY
TRUCK	PU239	2.0	5.5900E+02	2.6000E+00	4.7950E+02	1.3000E+00	B	D	FUEL CY
TRUCK	SF	10.0	3.6000E+06	0.	3.6000E+05	0.	LQ	ND	FUEL CY
TRUCK	U 235	89.7	5.6073E+01	4.7768E+01	6.2568E-01	5.3215E-01	A	D	FUEL CY
TRUCK	U 235	50.0	3.3167E+05	6.2900E+01	6.6334E+03	1.2580E+00	A	ND	FUEL CY
TRUCK	U 235	1.0	3.7900E+02	1.3000E+00	3.7900E+02	1.3000E+00	B	D	FUEL CY
TRUCK	U 235	1.0	2.9000E+01	1.0000E-02	2.9000E+01	1.0000E-02	B	ND	FUEL CY
TRUCK	U 235	2.0	6.0000E-02	0.	3.0000E-02	0.	E	D	FUEL CY
TRUCK	U 235	2.0	2.0000E+00	0.	1.0000E+00	0.	E	ND	FUEL CY
TRUCK	AM241	12.1	1.2093E-01	2.4186E+00	1.0000E-02	2.0000E-01	A	D	INDUSTR
TRUCK	AM241	8.0	7.2120E+01	2.4000E+01	9.0150E+01	3.0000E+00	A	ND	INDUSTR
TRUCK	CS137	6.0	1.2000E+01	3.0000E+01	2.0000E+00	5.0000E+00	A	ND	INDUSTR
TRUCK	CS137	2.0	2.4000E+04	1.0000E+00	1.2000E+04	5.0000E-01	B	ND	INDUSTR
TRUCK	FE 55	4.0	4.0000E-04	6.0000E-02	1.0000E-04	1.5000E-02	LS	D	INDUSTR
TRUCK	FE 55	36.3	4.5410E+00	3.6279E+00	1.2517E-01	1.0000E-01	A	D	INDUSTR
TRUCK	FE 55	2.0	1.0000E-05	0.	5.0000E-06	0.	A	ND	INDUSTR
TRUCK	H 3	72.6	4.7163E+03	0.	6.5000E+01	0.	E	D	INDUSTR
TRUCK	IR192	3.0	5.2000E+01	2.0000E+01	3.0667E+01	1.0000E+01	B	D	INDUSTR
TRUCK	IR192	72.1	8.2612E+03	1.4600E+02	1.1459E+02	2.0252E+00	B	ND	INDUSTR
TRUCK	KR 85	4.0	8.0000E+01	1.2400E+01	2.0000E+01	3.1000E+00	LS	D	INDUSTR
TRUCK	PO210	12.1	1.2093E-06	1.2093E+00	1.0000E-07	1.0000E-01	A	D	INDUSTR
TRUCK	PO210	1200.0	1.3416E+01	0.	1.0320E-02	0.	E	D	INDUSTR
TRUCK	RA226	6.0	1.6200E-05	0.	2.7000E-06	0.	B	ND	INDUSTR
TRUCK	RA226	48.4	4.3535E-03	4.8372E+00	9.0000E-05	1.0000E-01	A	D	MED-IND
TRUCK	CO 60	12.1	5.6837E+00	9.6744E-00	4.7000E-01	8.0000E-01	A	ND	MED-IND
TRUCK	CO 60	4.0	4.6060E+03	2.0000E+00	1.1515E+03	5.0000E-01	B	ND	MED-IND
TRUCK	CR 51	12.1	1.2093E-02	2.6600E-02	1.0000E-03	2.2000E+01	A	D	MED-IND
TRUCK	CR 51	2.0	4.0000E-03	2.0000E-02	2.0000E-03	1.0000E-02	LS	D	MED-IND
TRUCK	XE133	3588.0	6.2400E+01	8.3200E+01	1.7391E-02	2.3188E-02	A	D	MED-IND
TRUCK	AG110M	12.1	1.2093E-02	2.4186E+01	1.0000E-03	2.0000E-01	A	D	MEDICAL
TRUCK	CD109	12.1	1.2093E-04	1.2093E+00	1.0000E-05	1.0000E-01	A	D	MEDICAL
TRUCK	CE144	12.1	1.2093E-02	2.4186E+01	1.0000E-03	2.0000E+00	A	D	MEDICAL
TRUCK	CO 57	24.2	6.8930E-01	1.8140E+01	2.8500E-02	7.5000E-01	A	D	MEDICAL
TRUCK	CO 57	4.0	4.0000E-03	6.0000E-02	1.0000E-03	1.5000E-02	LS	D	MEDICAL
TRUCK	GA 67	2192.0	1.1388E+01	1.1180E+02	4.7609E-03	4.6719E-02	A	D	MEDICAL
TRUCK	I 123	104.0	5.2208E+00	1.0400E+01	5.0200E-03	1.0000E-01	A	D	MEDICAL
TRUCK	I 123	6656.0	2.1372E+00	5.1240E+02	3.2109E-04	7.6953E-02	A	ND	MEDICAL
TRUCK	I 125	22.0	4.1600E-04	0.	8.0000E-06	0.	A	D	MEDICAL
TRUCK	I 125	22.0	4.6094E-02	2.2000E-01	2.0952E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	I 129	12.1	2.4186E-04	1.2093E+00	2.0000E-05	1.0000E-01	A	D	MEDICAL
TRUCK	I 131	2.0	4.0000E-03	2.0000E-02	2.0000E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	IN111	1612.0	6.1880E+00	3.6400E+01	3.8387E-03	2.2581E-02	A	D	MEDICAL
TRUCK	P 32	104.0	6.5520E+02	1.5600E+02	6.3000E+00	1.5000E+00	A	D	MEDICAL
TRUCK	PM147	2.0	1.2000E+01	2.0000E+01	1.0000E+00	1.0000E-01	A	ND	MEDICAL
TRUCK	RU106	12.1	6.0465E-03	1.2093E+00	5.0000E-04	1.0000E-01	A	D	MEDICAL
TRUCK	TA182	12.1	1.2093E-03	6.0465E+00	1.0000E-04	5.0000E-01	A	D	MEDICAL
TRUCK	TA182	8.0	3.5920E+00	5.0000E+00	4.4900E-01	6.2500E-01	A	ND	MEDICAL

CITY LAT = 3.4370000E+01 CITY LONG = 1.1827000E+02 RADIUS = 8.5000000E-01  
 \* \* \* \* \* CITY = LOS ANGELES \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	TC 99M	32708.0	3.6387E+03	1.6068E+03	1.1125E-01	4.9126E-02	A	D	MEDICAL
TRUCK	YB169	24.2	1.0279E+02	8.4651E+00	4.2500E+00	3.5000E-01	A	D	MEDICAL
TRUCK	W	352.0	4.6552E+01 *	0.	1.3225E-01 *	0.	A	D	WASTE
TRUCK	W	54.0	8.5320E+00 *	0.	1.5800E-01 *	0.	A	ND	WASTE
TRUCK	W	280.0	5.6000E+00 *	4.2000E+03	2.0000E-02 *	1.5000E+01	LS	D	WASTE

TABLE A- 19

CITY LAT = 3.4370000E+01 CITY LONG = 1.1827000E+02 RADIUS = 8.5000000E-01  
 \* \* \* \* \* CITY = LOS ANGELES \* \* \* \* \* ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	PU238	1.0	3.6000E-02 *	5.0000E-01	3.6000E-02 *	5.0000E-01	B	D	FUEL CY
TRUCK	PU238	1.0	7.7900E+01 *	4.0000E-01	7.7900E+01 *	4.0000E-01	B	ND	FUEL CY
TRUCK	PU239	1.0	2.0000E+00 *	1.3000E+00	2.0000E+00 *	1.3000E+00	A	ND	FUEL CY
TRUCK	PU239	2.0	3.7020E+01 *	1.3000E+00	1.8510E+01 *	6.5000E-01	B	ND	FUEL CY
TRUCK	U 235	2.0	3.0400E+02 *	1.4400E+01	1.5200E+02 *	7.2000E+00	A	ND	FUEL CY
TRUCK	U 235	5.0	1.3020E+02 *	0.	2.6040E+01 *	0.	E	ND	FUEL CY
TRUCK	U 238	2.0	3.5000E+04 *	0.	1.7500E+04 *	0.	A	D	FUEL CY
TRUCK	U 238	1.0	1.3800E+02 *	1.3000E+00	1.3800E+02 *	1.3000E+00	A	ND	FUEL CY
TRUCK	U 238	1.0	1.0000E+03 *	1.3000E+00	1.0000E+03 *	1.3000E+00	B	ND	FUEL CY
TRUCK	AM241	2.0	1.0000E-01	1.0000E-01	5.0000E-02	5.0000E-02	A	ND	INDUSTR
TRUCK	CF252	2.0	1.0000E-01	4.0000E+00	5.0000E-02	2.0000E+00	A	ND	INDUSTR
TRUCK	CF252	2.0	1.0000E-02	0.	5.0000E-03	0.	E	ND	INDUSTR
TRUCK	CI137	4.0	8.0000E+00	2.0000E+01	2.0000E+00	5.0000E+00	A	ND	INDUSTR
TRUCK	IR192	2.0	2.0000E+02	4.0000E+00	1.0000E+02	2.0000E+00	B	ND	INDUSTR
TRUCK	CD109	2.0	4.0000E-02	1.0000E-01	2.0000E-02	5.0000E-02	A	ND	MEDICAL
TRUCK	I 123	52.0	1.0400E-02	5.2000E+00	2.0000E-04	1.0000E-01	A	ND	MEDICAL
TRUCK	TC 99M	260.0	4.4200E+01	0.	1.7000E-01	0.	A	D	MEDICAL

TARLE A- 20

CITY LAT = 4-1890000E+01		CITY LONG = 8-8120000E+01		RADIUS = 9-0500000E-01		TO OR FROM *		*****	
*****		***** CITY = CHICAGO		*****		*****		*****	
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER SHPMNT	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	U 235	104.0	1-2329E+01	3-1200E+01	1-1855E-01	3-0000E-01	A	D	FUEL CY
AUTOMOBILE	H 3	104.0	3-1200E-01	0.	3-0000E-03	0.	A	D	INDUSTR
AUTOMOBILE	XE133	52.0	1-2480E+00	0.	2-4000E-02	0.	A	D	MED-IND
AUTOMOBILE	GA 67	104.0	4-1600E-01	1-0400E+07	4-0000E-03	1-0000E-01	A	D	MEDICAL
AUTOMOBILE	I 123	52.0	1-5600E-02	5-2000E+07	3-0000E-04	1-0000E-01	A	ND	MEDICAL
AUTOMOBILE	TC 99M	208.0	4-6904E+01	1-5600E+11	2-2550E-01	7-5000E-02	A	D	MEDICAL

TARLF A- 21

CITY LAT = 4.1890000E+01 CITY LONG = 8.8120000E+01 RADIUS = 9.0500000E-01 TC OR FROM \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL YI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE YI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	4.0	8.0000E-01	0.	2.0000E-01	0.	A	ND	FUEL CY
AIR,FRT.	PU239	1.0	1.0000E-01	0.	1.0000E-01	0.	A	ND	FUEL CY
AIR,FRT.	PU239	1.0	5.5300E-01	0.	5.5300E-01	0.	B	D	FUEL CY
AIR,FRT.	PU239	1.0	2.1300E+02	1.0000E-01	2.1300E+02	1.0000E-01	B	ND	FUEL CY
AIR,FRT.	PU239	2.0	8.7100E-01	1.0000E-01	4.3550E-01	5.0000E-02	E	ND	FUEL CY
AIR,FRT.	PU240	1.0	1.2000E+01	2.0000E-01	1.2000E+01	2.0000E-01	E	ND	FUEL CY
AIR,FRT.	PU241	1.0	1.2000E+01	1.0000E-01	1.2000E+01	1.0000E-01	B	ND	FUEL CY
AIR,FRT.	PU241	1.0	2.3000E-05	0.	3.3000E-05	0.	E	ND	FUEL CY
AIR,FRT.	TH232	12.1	2.2977E+02	0.	1.9000E-01	0.	A	ND	FUEL CY
AIR,FRT.	U 235	572.0	2.2217E-01	2.6000E+01	3.8841E-04	4.5455E-02	A	D	FUEL CY
AIR,FRT.	U 235	20.0	5.0369E+04	2.4700E+01	2.5185E+03	1.2350E+00	A	ND	FUEL CY
AIR,FRT.	U 235	20.0	7.3360E+04	2.0000E+00	3.6680E+03	1.0000E-01	D	ND	FUEL CY
AIR,FRT.	U 235	1.0	2.6880E+00	0.	2.6880E+00	0.	E	D	FUEL CY
AIR,FRT.	U 238	2.0	1.6000E+06	0.	8.0000E+05	0.	A	ND	FUEL CY
AIR,FRT.	AM241	116.1	1.4173E+00	1.2052E+00	1.2208E-02	1.0417E-02	A	D	INDUSTR
AIR,FRT.	AM241	1003.7	4.8252E+01	1.0027E-01	4.8073E-02	1.0000E-04	A	ND	INDUSTR
AIR,FRT.	H 3	4.60.3	5.2912E+03	0.	1.1354E+00	0.	D	D	INDUSTR
AIR,FRT.	IR192	10.4	1.0920E+03	1.0400E+01	1.0500E+02	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	57.1	6.0344E+03	1.2359E+02	1.0572E+02	2.1653E+00	B	ND	INDUSTR
AIR,FRT.	NA 22	52.0	6.2400E-02	8.3200E+01	1.2000E-03	1.6000E+00	A	D	INDUSTR
AIR,FRT.	PA231	12.1	1.1488E-03	1.2052E+00	9.5000E-05	1.0000E-01	A	ND	INDUSTR
AIR,FRT.	PO210	52.0	1.0400E-01	0.	2.0000E-02	0.	A	D	INDUSTR
AIR,FRT.	PO210	156.0	2.2760E+00	0.	2.1000E-02	0.	E	D	INDUSTR
AIR,FRT.	S 35	784.3	2.0583E+00	0.	2.6243E-03	0.	D	D	INDUSTR
AIR,FRT.	SE 75	884.0	6.7314E-01	7.2800E-01	7.6147E-04	8.2353E-02	A	D	INDUSTR
AIR,FRT.	CO 60	54.0	1.2400E-04	5.4000E+00	2.2963E-06	1.0000E-01	A	D	MED-IND
AIR,FRT.	CR 51	544.7	5.8613E+00	1.1570E-02	6.2046E-07	1.2248E-01	A	D	MED-IND
AIR,FRT.	XE133	280.8	2.6220E+01	4.8372E+00	9.3386E-02	1.7229E-02	A	D	MED-IND
AIR,FRT.	AG110	52.0	2.6000E-03	1.0400E-01	5.0000E-05	2.0000E-01	A	D	MEDICAL
AIR,FRT.	AU198	52.0	1.8720E-01	4.1600E+01	3.6000E-03	8.0000E-01	A	D	MEDICAL
AIR,FRT.	BK249	12.1	8.3442E+01	1.2052E+00	6.9000E+00	1.0000E-01	A	ND	MEDICAL
AIR,FRT.	C 14	4034.3	8.2076E+00	4.0000E-01	2.0344E-03	9.9149E-05	A	D	MEDICAL
AIR,FRT.	CA 47	36.3	9.4920E-02	2.5355E+01	2.6167E-03	7.0000E-01	A	D	MEDICAL
AIR,FRT.	CE141	52.0	5.2000E-01	0.	1.0000E-02	0.	A	D	MEDICAL
AIR,FRT.	CL 35	52.0	5.2000E-03	0.	1.0000E-04	0.	A	D	MEDICAL
AIR,FRT.	CO 57	584.1	9.2306E-02	2.1647E+01	1.5603E-04	3.7060E-02	A	D	MEDICAL
AIR,FRT.	FE 59	52.0	7.5400E-03	1.0400E+01	1.4500E-04	2.0000E-01	A	D	MEDICAL
AIR,FRT.	GD153	52.0	5.2000E-03	0.	1.0000E-04	0.	A	D	MEDICAL
AIR,FRT.	HG197	104.0	1.8200E-01	2.6000E+01	1.7500E-03	2.5000E-01	A	D	MEDICAL
AIR,FRT.	HG203	52.0	2.3920E+00	2.6000E+01	4.6000E-02	5.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	4838.5	1.5097E+01	9.7228E+01	3.1201E-03	2.0055E-02	A	D	MEDICAL
AIR,FRT.	I 131	1941.1	1.5278E+01	1.1368E+03	7.8708E-03	5.8562E-01	A	D	MEDICAL
AIR,FRT.	I 131	424.0	1.4779E+00	3.2240E+02	2.3684E-03	5.1667E-01	A	ND	MEDICAL
AIR,FRT.	I 131	48.4	1.4379E+03	1.2335E+02	2.9725E+01	2.5000E+00	B	D	MEDICAL
AIR,FRT.	IN111	104.0	4.6800E+00	3.1200E+01	1.5000E-02	3.0000E-01	A	D	MEDICAL
AIR,FRT.	K 42	12.1	2.2977E-01	1.5721E+01	1.9000E-02	1.0000E-01	A	D	MEDICAL
AIR,FRT.	MN 54	52.0	5.2000E-04	5.2000E+00	1.0000E-05	1.0000E-01	A	D	MEDICAL
AIR,FRT.	MO 59	468.0	5.2308E+03	2.1944E+03	1.9724E+01	4.6889E+00	A	D	MEDICAL
AIR,FRT.	MO 99	832.0	7.7813E+02	1.5912E+03	9.3525E-01	1.9125E+00	A	ND	MEDICAL
AIR,FRT.	MO 99	52.0	8.5800E+03	1.0400E+02	1.6500E+02	2.0000E+00	B	D	MEDICAL

CITY LAT = 4.1890000E+01 CITY LONG = 8.8120000E+01 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = CHICAGO TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	P 32	657.7	6.5303E+00	4.2900E+01	9.3602E-03	6.1491E-02	A	D	MEDICAL
AIR,FRT.	P 33	8.7	8.6667E-03	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,FRT.	PA22K	54.0	1.9120E-04	5.4000E+00	3.5407E-06	1.0000E-01	A	D	MEDICAL
AIR,FRT.	TC 99M	104.0	3.3280E+00	0.	3.2000E-02	0.	A	D	MEDICAL

TABLE A- 22

CITY LAT = 4.1890000E+01 CITY LONG = 8.8120000E+01 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = CHICAGO ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	2.0	1.6600E-02	2.0000E-01	8.3000E-03	1.0000E-01	A	C	FUEL CY
AIR,FRT.	PU238	2.0	2.5010E+03	1.5000E+00	1.2505E+03	7.5000E-01	A	D	FUEL CY
AIR,FRT.	PU238	55.0	7.3253E+04	4.0000E-01	1.3319E+03	7.2727E-03	B	D	FUEL CY
AIR,FRT.	PU239	1.0	1.6000E+02	4.0000E+00	1.6000E+02	4.0000E+00	B	ND	FUEL CY
AIR,FRT.	PU239	3.0	4.8000E-05	0.	1.6000E-05	0.	E	ND	FUEL CY
AIR,FRT.	U 235	17.0	2.9874E+01	0.	1.7573E+00	0.	A	D	FUEL CY
AIR,FRT.	U 235	2.0	4.3200E+02	2.0000E+01	2.1600E+02	1.0000E+01	A	ND	FUEL CY
AIR,FRT.	U 235	23.0	2.5633E+02	1.4000E+00	1.1145E+01	6.0870E-02	B	D	FUEL CY
AIR,FRT.	U 235	84.0	1.4552E+06	2.6760E+02	1.7324E+04	3.1857E+00	B	ND	FUEL CY
AIR,FRT.	U 235	1.0	9.5820E-01	0.	9.5820E-01	0.	LS	D	FUEL CY
AIR,FRT.	U 238	2.0	0.0690E+03	1.5000E+00	3.5345E+03	7.5000E-01	A	D	FUEL CY
AIR,FRT.	U 238	1.0	0.0000E+00	1.0000E-01	6.0000E+00	1.0000E-01	E	D	FUEL CY
AIR,FRT.	AM241	64.7	1.0352E+00	8.4651E-03	1.2229E-02	1.0000E-04	A	ND	INDUSTR
AIR,FRT.	H 3	18.0	1.3067E-01	0.	7.2593E-03	0.	A	D	INDUSTR
AIR,FRT.	IR192	31.2	3.1200E+03	3.1200E+01	1.0000E+02	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	43.3	3.3437E+03	5.5366E+01	7.7235E+01	1.2753E+00	B	ND	INDUSTR
AIR,FRT.	PO210	104.0	5.9800E-01	0.	5.7500E-03	0.	E	D	INDUSTR
AIR,FRT.	S 35	8.7	2.6000E-02	0.	3.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	CO 60	2.0	5.0000E-06	2.0000E-01	2.5000E-06	1.0000E-01	A	D	MED-IND
AIR,FRT.	XE133	104.0	1.5080E+02	5.2000E+01	1.4500E+00	5.0000E-01	A	D	MED-IND
AIR,FRT.	BR 82	24.2	3.3860E+00	1.0884E+02	1.4000E-01	4.5000E+00	A	D	MEDICAL
AIR,FRT.	C 14	12.7	1.0892E-01	0.	8.5987E-03	0.	A	D	MEDICAL
AIR,FRT.	C 14	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	E	D	MEDICAL
AIR,FRT.	CU 64	12.1	4.4744E-01	6.0465E+00	3.7000E-02	5.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	4.3	5.2000E-02	2.1667E+00	1.2000E-02	5.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	116.7	1.1306E-01	4.0000E+00	9.6910E-04	3.4286E-02	A	D	MEDICAL
AIR,FRT.	I 131	156.0	1.0270E+00	8.8400E+01	6.5833E-03	5.6667E-01	A	D	MEDICAL
AIR,FRT.	I 131	312.0	4.5682E-01	1.1960E+02	1.4642E-03	3.8333E-01	A	ND	MEDICAL
AIR,FRT.	K 42	24.2	9.4326E-01	5.6837E+01	3.9000E-02	2.3500E+00	A	D	MEDICAL
AIR,FRT.	LU177	12.1	6.0465E-02	1.2093E+00	5.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	MO 99	624.0	6.3123E+02	1.1336E+03	1.0116E+00	1.8167E+00	A	ND	MEDICAL
AIR,FRT.	NA 24	48.4	3.8698E-01	1.7172E+02	8.0000E-03	3.5500E+00	A	D	MEDICAL
AIR,FRT.	P 32	1.0	5.0000E-03	1.0000E+00	5.0000E-03	1.0000E+00	A	D	MEDICAL
AIR,FRT.	RB 86	24.2	2.4186E-02	6.0465E+00	1.0000E-03	2.5000E-01	A	D	MEDICAL



## TABLE A- 23

CITY LAT = 4.1850000E+01 CITY LONG = 8.8120000E+01 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = CHICAGO \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPENT	AVERAGE TI PER SH, 'NT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MF	2.0	4.0000E-03	0.	2.0000E-03	0.	A	ND	FUEL CY
AIR,PASS.	MF	1.0	5.0000E-04	0.	5.0000E-04	0.	E	D	FUEL CY
AIR,PASS.	MF	2.0	2.0000E-06	0.	1.0000E-06	0.	E	ND	FUEL CY
AIR,PASS.	PU238	1.0	2.5000E-02	0.	2.5000E-02	0.	A	ND	FUEL CY
AIR,PASS.	PU239	1.0	1.5900E-01	7.5000E-02	1.5900E-01	7.5000E-02	A	ND	FUEL CY
AIR,PASS.	PU239	2.0	7.6000E-01	1.0000E-01	3.8000E-01	5.0000E-02	B	ND	FUEL CY
AIR,PASS.	PU239	6.0	1.4613E+00	4.0000E-01	2.4356E-01	6.6667E-02	E	ND	FUEL CY
AIR,PASS.	U 233	1.0	7.5000E-01	0.	7.5000E-01	0.	A	ND	FUEL CY
AIR,PASS.	U 235	261.0	8.5657E+02	1.3010E+02	3.2819E+00	4.9847E-01	A	D	FUEL CY
AIR,PASS.	U 235	5.0	5.7700E+02	3.0000E-01	1.1540E+02	6.0000E-02	A	ND	FUEL CY
AIR,PASS.	U 235	1.0	2.8000E+00	1.0000E-01	2.8000E+00	1.0000E-01	B	ND	FUEL CY
AIR,PASS.	U 235	1.0	1.0000E-03	0.	1.0000E-03	0.	E	D	FUEL CY
AIR,PASS.	U 235	5.0	8.6640E+01	7.0000E-01	1.7328E+01	1.4000E-01	E	ND	FUEL CY
AIR,PASS.	AM241	54.0	1.2400E+01	1.0400E+01	2.2963E-01	1.9259E-01	A	ND	INDUSTR
AIR,PASS.	CA 45	52.0	5.2000E-02	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	CS137	2.0	2.0000E-01	4.0000E+00	1.0000E-01	2.0000E+00	E	D	INDUSTR
AIR,PASS.	H 3	3284.7	1.8168E+01	0.	5.5312E-03	0.	A	D	INDUSTR
AIR,PASS.	H 3	2.0	1.2000E-02	0.	6.0000E-03	0.	A	ND	INDUSTR
AIR,PASS.	H 3	6.0	1.2774E-04	0.	2.1270E-05	0.	E	D	INDUSTR
AIR,PASS.	PO210	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	S 35	264.3	1.1293E+00	0.	4.2721E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	988.0	6.4194E-01	2.1320E+02	6.4974E-04	2.1579E-01	A	D	INDUSTR
AIR,PASS.	CO 60	54.0	1.0400E+01	1.0400E+01	1.9259E-01	1.9259E-01	A	ND	MED-IND
AIR,PASS.	CR 51	884.0	5.0180E+00	1.4560E+02	5.6765E-03	1.6471E-01	A	D	MED-IND
AIR,PASS.	XE133	468.0	1.2480E+01	0.	2.6667E-02	0.	A	D	MED-IND
AIR,PASS.	AU198	52.0	1.6068E+00	6.2400E+01	3.0900E-02	1.2000E+00	A	D	MEDICAL
AIR,PASS.	C 14	2774.4	4.8079E-01	0.	1.7329E-04	0.	A	D	MEDICAL
AIR,PASS.	C 14	2.0	2.0000E-05	0.	1.0000E-05	0.	E	D	MEDICAL
AIR,PASS.	CD109	52.0	5.2000E-02	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	CE144	52.0	5.2000E-01	2.6000E+01	1.0000E-02	5.0000E-01	A	D	MEDICAL
AIR,PASS.	CO 57	832.0	3.0628E-02	5.7200E+01	3.6812E-05	6.8750E-02	A	D	MEDICAL
AIR,PASS.	FE 52	10.0	2.1200E-01	2.8000E+01	2.1200E-02	2.8000E+00	A	D	MEDICAL
AIR,PASS.	GA 67	468.0	3.0264E+01	2.1320E+02	6.4667E-02	4.5556E-01	A	D	MEDICAL
AIR,PASS.	HG197	104.0	1.4040E-01	5.2000E+00	1.3500E-03	5.0000E-02	A	D	MEDICAL
AIR,PASS.	I 123	4.3.0	2.2880E+00	1.1440E+02	4.8889E-03	2.4444E-01	A	D	MEDICAL
AIR,PASS.	I 125	5124.5	1.3115E+02	1.5975E+02	2.5593E-02	3.1173E-02	A	D	MEDICAL
AIR,PASS.	I 125	156.0	5.3600E-04	0.	6.0000E-06	0.	E	D	MEDICAL
AIR,PASS.	I 131	6450.0	3.6244E+02	6.3951E+04	5.5803E-03	9.8524E-01	A	D	MEDICAL
AIR,PASS.	I 131	52.0	4.1600E-02	2.0800E+01	8.0000E-04	4.0000E-01	A	ND	MEDICAL
AIR,PASS.	I 131	52.0	5.2000E-02	0.	1.0000E-03	0.	E	D	MEDICAL
AIR,PASS.	IN111	260.0	3.0160E+00	0.	1.1600E-02	0.	A	D	MEDICAL
AIR,PASS.	MN 54	52.0	5.2000E-03	1.0400E+01	1.0000E-04	2.0000E-01	A	D	MEDICAL
AIR,PASS.	MO 59	424.7	2.2880E+02	4.4720E+02	5.3878E-01	1.0531E+00	A	D	MEDICAL
AIR,PASS.	MO 99	832.0	5.9372E+03	1.6276E+03	1.1944E+01	1.9563E+00	B	D	MEDICAL
AIR,PASS.	P 32	680.3	7.3121E+00	4.7233E+01	1.0748E-02	6.9427E-02	A	D	MEDICAL
AIR,PASS.	P 32	2.0	6.0000E-02	2.0000E-02	3.0000E-02	1.0000E-02	LS	D	MEDICAL
AIR,PASS.	RU106	52.0	2.6000E-03	5.2000E+00	5.0000E-05	1.0000E-01	A	D	MEDICAL
AIR,PASS.	SC 46	52.0	2.6000E-01	1.4560E+02	5.0000E-03	2.8000E+00	A	D	MEDICAL
AIR,PASS.	SI 31	2.0	5.4000E-01	1.4000E+00	2.7000E-01	7.0000E-01	A	D	MEDICAL
AIR,PASS.	SR 85	52.0	1.3000E-02	1.0400E+01	2.5000E-04	2.0000E-01	A	D	MEDICAL

CITY LAT = 4.1890000E+01 CITY LONG = 8.8120000E+01 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = CHICAGO TO OR FRGM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	TC 99M	1144.0	5.9543E+01	2.3400E+02	5.2048E-02	2.0455E-01	A	D	MEDICAL
AIR,PASS.	TL201	2.0	1.2000E-02	1.0000E+00	6.0000E-03	5.0000E-01	A	D	MEDICAL
AIR,PASS.	V 48	52.0	5.2000E-02	1.0400E+00	1.0000E-03	2.0000E+00	A	D	MEDICAL

TABLE A- 24

CITY LAT = 4.1890000E+01 CITY LONG = 8.8120000E+01 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = CHICAGO ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	PU238	1.0	5.0000E+00	0.	5.0000E+00	0.	B	ND	FUEL CY
AIR,PASS.	U 233	9.0	1.7130E-01	0.	1.9033E-02	0.	A	D	FUEL CY
AIR,PASS.	U 235	35.0	1.6051E+04	2.2000E+00	4.5860E+02	6.2857E-02	A	D	FUEL CY
AIR,PASS.	U 235	2.0	7.1600E-02	2.0000E-01	1.0800E-02	1.0000E-01	A	ND	FUEL CY
AIR,PASS.	U 235	6.0	3.0200E+00	0.	4.2000E-01	0.	B	D	FUEL CY
AIR,PASS.	U 235	1.0	3.9207E+00	0.	3.9207E+00	0.	E	D	FUEL CY
AIR,PASS.	U 235	2.0	8.0000E+00	0.	4.0000E+00	0.	E	ND	FUEL CY
AIR,PASS.	U 238	114.0	8.8240E+05	9.7500E+01	7.7404E+03	8.5526E-01	A	ND	FUEL CY
AIR,PASS.	H 3	156.0	2.2102E-01	0.	1.4168E-03	0.	A	D	INDUSTR
AIR,PASS.	KR 85	8.0	1.2000E+01	1.6000E+00	1.5000E+00	2.0000E-01	A	D	INDUSTR
AIR,PASS.	NP237	2.0	2.6200E-02	1.0000E+00	1.3100E-02	5.0000E-01	A	D	INDUSTR
AIR,PASS.	SE 75	52.0	1.3000E-02	1.0400E+01	2.5000E-04	2.0000E-01	A	D	INDUSTR
AIR,PASS.	CO 60	52.0	4.7580E+02	5.2000E+00	9.1500E+00	1.0000E-01	A	D	MED-IND
AIR,PASS.	CR 51	17.3	6.8250E-02	1.7333E+00	3.9375E-03	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	104.0	3.1200E+00	0.	3.0000E-02	0.	A	D	MED-IND
AIR,PASS.	AU198	208.0	2.0800E+01	1.1804E+03	1.0000E-01	5.6750E+00	A	D	MEDICAL
AIR,PASS.	C 14	13.0	1.3000E-02	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	CD109	2.0	2.0000E-03	2.0000E-01	4.0000E-03	1.0000E-01	A	ND	MEDICAL
AIR,PASS.	CO 57	260.0	4.1600E-04	3.1200E+01	1.6000E-06	1.2000E-01	A	D	MEDICAL
AIR,PASS.	GA 67	8.7	6.0667E-02	1.7333E+00	7.0000E-03	2.0000E-01	A	D	MEDICAL
AIR,PASS.	I 125	489.7	8.2023E-02	5.6333E+00	1.6751E-04	1.1504E-02	A	D	MEDICAL
AIR,PASS.	I 125	260.0	3.2240E-03	0.	1.2400E-05	0.	E	D	MEDICAL
AIR,PASS.	I 131	1908.3	2.0006E+01	8.7203E+02	1.0484E-02	4.5697E-01	A	D	MEDICAL
AIR,PASS.	I 131	1092.0	2.9545E+00	6.0840E+02	2.7056E-03	5.5714E-01	A	ND	MEDICAL
AIR,PASS.	MO 99	8.7	1.9000E+00	0.	4.5000E-01	0.	A	D	MEDICAL
AIR,PASS.	MO 99	2792.0	1.8351E+03	4.3888E+03	7.6720E-01	1.8348E+00	A	ND	MEDICAL
AIR,PASS.	P 32	86.7	9.8800E-01	2.7300E+01	1.1400E-02	3.1500E-01	A	D	MEDICAL
AIR,PASS.	TC 99M	468.0	1.7836E+01	4.1600E+01	3.8111E-02	4.3889E-02	A	D	MEDICAL
AIR,PASS.	W	12.1	2.4186E-01	1.6930E+01	2.0000E-02	1.4000E+00	A	D	WASTE

TABLE A-25

CITY LAT = 4.1890000E+01 CITY LONG = 8.8120000E+01 RADIUS = 9.0500000E-01 TO OR FROM . . . . .

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MF	9.7	9.7143E-03	1.4743E+01	1.0000E-03	1.5176E+00	A	D	FUEL CY
TRUCK	MF	1.0	1.0300E+02	0.	1.0300E+02	0.	B	ND	FUEL CY
TRUCK	PU238	1.0	2.3604E+04	3.0500E-01	2.3604E+04	3.0000E-01	B	D	FUEL CY
TRUCK	PU238	1.0	1.0000E-01	2.0000E-01	1.0000E-01	2.0000E-01	B	ND	FUEL CY
TRUCK	PU239	4.0	8.0000E+00	0.	2.0000E+00	0.	A	D	FUEL CY
TRUCK	PU239	149.0	1.9973E+05	1.0513E+02	1.3405E+03	7.0570E-01	B	D	FUEL CY
TRUCK	PU239	4.0	6.0270E+02	3.0000E-01	1.5068E+02	7.5000E-02	B	ND	FUEL CY
TRUCK	PU239	3.0	3.0000E-01	3.0000E-01	1.0000E-01	1.0000E-01	E	ND	FUEL CY
TRUCK	PU240	1.0	2.5000E+01	1.0000E-01	2.5000E+01	1.0000E-01	E	ND	FUEL CY
TRUCK	PU241	1.0	1.1860E+01	0.	1.1860E+01	0.	B	ND	FUEL CY
TRUCK	PU242	1.0	6.2000E+01	1.0000E-01	6.2000E+01	1.0000E-01	B	D	FUEL CY
TRUCK	SF	1.0	4.9500E+02	1.0000E+00	4.9500E+02	1.0000E+00	B	ND	FUEL CY
TRUCK	SF	16.0	3.6480E+06	3.0000E+02	2.2800E+05	1.8750E+01	LQ	ND	FUEL CY
TRUCK	U 233	4516.0	1.0000E+00	2.0000E-01	1.0000E+00	2.0000E-01	E	ND	FUEL CY
TRUCK	U 235	85.0	8.1918E+04	1.3898E+03	7.95E+01	3.0775E-01	A	D	FUEL CY
TRUCK	U 235	453.0	1.9643E+06	1.6305E+02	4.3562E+03	1.0926E+00	A	ND	FUEL CY
TRUCK	U 235	17.0	4.5525E+03	5.1200E+01	2.6780E+02	3.0118E+00	B	ND	FUEL CY
TRUCK	U 235	8.0	1.4600E-01	0.	1.8250E-02	0.	E	D	FUEL CY
TRUCK	U 235	4.0	2.5000E-01	1.0000E-01	6.2500E-02	2.5000E-02	E	ND	FUEL CY
TRUCK	U 235	20.0	7.0515E+04	2.8250E+01	3.5258E+03	1.4125E+00	LQ	D	FUEL CY
TRUCK	U 235	1.0	2.0000E+00	1.0000E-01	2.0000E+00	1.0000E-01	LQ	ND	FUEL CY
TRUCK	U 235	1.0	2.0000E+00	0.	2.0000E+00	0.	LS	ND	FUEL CY
TRUCK	U 238	12.1	3.0716E+05	2.4186E+00	2.5400E+04	2.0000E-01	A	D	FUEL CY
TRUCK	U 238	2.0	1.5682E+05	2.4000E+01	7.8412E+04	1.2000E+01	B	D	FUEL CY
TRUCK	AM241	60.0	8.6595E+01	8.4000E+00	1.4433E+00	1.4000E-01	A	ND	INDUSTR
TRUCK	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	E	D	INDUSTR
TRUCK	CA 45	52.0	5.2000E-02	0.	1.0000E-03	0.	A	D	INDUSTR
TRUCK	CS137	1.0	1.0000E-01	0.	1.0000E-01	0.	A	ND	INDUSTR
TRUCK	CS137	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
TRUCK	H 3	2652.0	1.5458E+01	0.	5.8286E-03	0.	A	D	INDUSTR
TRUCK	IR192	22.5	1.3060E+03	2.8540E+01	5.8065E+01	1.2688E+00	B	ND	INDUSTR
TRUCK	KR 85	7.0	5.2000E+00	6.0000E-01	7.4286E-01	8.5714E-02	A	D	INDUSTR
TRUCK	RA226	52.0	2.8080E-04	5.2000E+00	5.4000E-06	1.0000E-01	A	D	INDUSTR
TRUCK	S 35	364.0	1.2220E-01	0.	3.3571E-03	0.	A	D	INDUSTR
TRUCK	SE 75	468.0	2.2334E-01	6.7600E+01	4.7722E-04	1.4444E-01	A	D	INDUSTR
TRUCK	CM244	24.2	2.4186E-03	2.4186E+00	1.0000E-04	1.0000E-01	A	D	MED-IND
TRUCK	CO 60	2.0	1.4000E-04	2.0000E-01	7.0000E-05	1.0000E-01	A	D	MED-IND
TRUCK	CO 60	8.0	2.0000E+00	8.0000E-01	2.5000E-01	1.0000E-01	A	ND	MED-IND
TRUCK	CO 60	6.0	2.8976E+05	6.8000E+00	4.8293E+04	1.1323E+00	B	ND	MED-IND
TRUCK	CO 60M	2.0	3.0000E+01	2.0000E+01	1.5000E+01	1.0000E+01	B	D	MED-IND
TRUCK	CR 51	104.0	1.5600E-01	1.0400E+01	1.5000E-03	1.0000E-01	A	D	MED-IND
TRUCK	XE130	52.0	6.2400E-01	0.	1.2000E-02	0.	A	D	MED-IND
TRUCK	L 14	1664.0	1.9838E-01	0.	1.1922E-04	0.	A	D	MEDICAL
TRUCK	CO109	2.0	4.0000E-03	0.	2.0000E-03	0.	E	ND	MEDICAL
TRUCK	CO 57	156.0	5.2208E-01	5.2000E+00	3.3467E-03	3.3333E-02	A	D	MEDICAL
TRUCK	CO 57	208.0	1.3000E-02	0.	6.2500E-05	0.	A	ND	MEDICAL
TRUCK	CO 57	2.0	2.1000E-03	2.0000E-02	1.0000E-03	1.0000E-02	S	D	MEDICAL
TRUCK	FE 59	104.0	5.2000E-02	8.3200E+01	5.0000E-04	8.0000E-01	D	D	MEDICAL
TRUCK	GA 67	1300.0	1.4092E+01	2.0800E+02	1.0840E-02	1.6000E-01	A	D	MEDICAL



CITY LAT = 4.1890000E+01    CITY LONG = 8.8120000E+01    RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = CHICAGO    TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	HG197	104.0	1.3000E-01	2.6000E+01	1.2500E-03	2.5000E-01	A	D	MEDICAL
TRUCK	I 123	104.0	5.2000E-02	2.6000E+01	5.0000E-04	2.5000E-01	A	ND	MEDICAL
TRUCK	I 125	1768.0	1.3914E+01	6.2400E+01	7.0000E-03	3.5294E-02	A	D	MEDICAL
TRUCK	I 131	2340.0	5.5240E+00	1.1544E+03	5.0000E-03	4.9333E-01	A	D	MEDICAL
TRUCK	IN111	312.0	8.8400E-01	0.	0.0000E-03	0.	A	D	MEDICAL
TRUCK	MO 99	1196.0	1.5038E+03	4.4668E+03	3.7348E+00	3.7348E+00	A	D	MEDICAL
TRUCK	NA 24	2.0	2.0000E-03	1.0000E-01	5.0000E-03	5.0000E-02	A	D	MEDICAL
TRUCK	P 32	104.0	2.0800E-01	0.	2.0000E-03	0.	A	D	MEDICAL
TRUCK	RU106	12.1	6.0465E-03	1.2093E+00	5.0000E-04	1.0000E-01	A	D	MEDICAL
TRUCK	TC 99M	21008.0	5.8755E+04	3.2344E+03	1.5396E+00	1.5396E-01	A	D	MEDICAL
TRUCK	TM170	2.0	5.1000E+01	2.0000E-01	2.5000E+01	1.0000E-01	B	D	MEDICAL
TRUCK	W	38.0	6.2000E-02	1.4200E+01	1.6316E-03	3.7362E-01	A	D	WASTE
TRUCK	W	36.0	1.3014E+07	0.	3.6150E+05	0.	E	D	WASTE
TRUCK	W	10.0	5.0000E-01	0.	5.0000E-02	0.	LQ	ND	WASTE

TABLE A- 26

CITY LAT = 4.1890000E+01 CITY LONG = 8.8120000E+01 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = CHICAGO \* \* \* \* \* ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	2733.5	9.8546E+02	1.0000E+01	3.6051E-01	3.6583E-03	LS	D	FUEL CY
TRUCK	MC	26.0	5.7500E-01	2.0150E+01	3.7500E-02	7.7500E-01	LS	ND	FUEL CY
TRUCK	MF	7.0	1.0159E+03	1.6200E+01	1.4570E+02	2.3143E+00	B	D	FUEL CY
TRUCK	MF	1.0	2.4900E+00	1.0000E-01	2.4900E+00	1.0000E-01	LQ	D	FUEL CY
TRUCK	MF	7666.8	2.4188E+02	0.	3.1549E-02	0.	LS	D	FUEL CY
TRUCK	PU238	1.0	4.1000E+00	0.	4.1000E+00	0.	A	D	FUEL CY
TRUCK	PU238	4.0	6.9200E+00	1.0000E-01	1.7300E+00	2.5000E-02	B	D	FUEL CY
TRUCK	PU239	2.0	4.7400E+02	0.	2.3700E+02	0.	B	ND	FUEL CY
TRUCK	SF	25.0	6.5000E+03	1.3100E+02	2.6000E+02	5.2400E+00	LQ	ND	FUEL CY
TRUCK	U 233	419.0	1.1423E+04	3.2000E+00	2.7263E+01	7.6372E-03	B	D	FUEL CY
TRUCK	U 233	2.0	2.6100E+02	1.0000E-01	1.3050E+02	5.0000E-02	B	ND	FUEL CY
TRUCK	U 235	1.0	2.0000E+01	6.0000E+00	2.0000E+01	6.0000E+00	A	D	FUEL CY
TRUCK	U 235	1.0	5.4200E+02	0.	5.4200E+02	0.	A	ND	FUEL CY
TRUCK	U 235	90.0	4.0301E+05	3.1050E+01	4.4779E+03	3.4500E-01	B	D	FUEL CY
TRUCK	U 235	26.0	6.2652E+05	1.3290E+02	2.4097E+04	5.1115E+00	B	ND	FUEL CY
TRUCK	U 235	10.0	1.0392E+03	1.0000E-01	1.0392E+02	1.0000E-02	E	D	FUEL CY
TRUCK	U 235	1564.3	1.5751E+02	0.	1.0069E-01	0.	LS	D	FUEL CY
TRUCK	U 235	3.0	1.8000E+01	0.	6.0000E+00	0.	LS	ND	FUEL CY
TRUCK	U 238	96.7	4.5361E+06	7.2558E+00	4.6887E+04	7.5000E-02	A	D	FUEL CY
TRUCK	U 238	12.1	4.6788E+07	0.	3.8690E+06	0.	A	ND	FUEL CY
TRUCK	AM241	6.0	6.0000E+00	0.	1.0000E+00	0.	A	ND	INDUSTR
TRUCK	CS137	2.0	1.0000E-01	1.0000E+0	5.0000E-02	5.0000E-01	A	ND	INDUSTR
TRUCK	CS137	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
TRUCK	FE 55	2.0	2.7518E+02	1.6000E+00	1.3759E+02	8.0000E-01	B	ND	INDUSTR
TRUCK	KR 85	8.0	8.0000E+00	8.0000E-01	1.0000E+00	1.0000E-01	A	D	INDUSTR
TRUCK	RA226	2.0	1.0000E-01	1.4000E+01	5.0000E-02	7.0000E+00	A	ND	INDUSTR
TRUCK	RA226	24.0	2.4000E-05	1.2000E+00	1.0000E-06	5.0000E-02	B	ND	INDUSTR
TRUCK	S 35	1.0	4.0000E-03	0.	4.0000E-03	0.	A	D	INDUSTR
TRUCK	SE 75	52.0	5.2000E-02	1.5600E+01	1.0000E-03	3.0000E-01	A	D	INDUSTR
TRUCK	CO 60	4.0	2.5000E-03	4.0000E-01	6.2500E-04	1.0000E-01	A	D	MED-IND
TRUCK	CO 60	2.0	3.6400E-04	2.0000E-01	1.8200E-04	1.0000E-01	A	ND	MED-IND
TRUCK	CO 60	2.0	2.2000E+01	2.0000E-01	1.1000E+01	1.0000E-01	B	D	MED-IND
TRUCK	CO 60	4.0	1.8738E+04	5.8000E+00	4.6845E+03	1.4500E+00	B	ND	MED-IND
TRUCK	CO 60	6.0	3.3600E-04	1.6000E-01	5.6000E-05	2.6667E-02	E	ND	MED-IND
TRUCK	CO 60	2.0	3.6000E+03	2.0000E-01	1.8000E+03	1.0000E-01	LQ	D	MED-IND
TRUCK	CO 60	39.0	6.5130E+00	0.	1.6700E-01	0.	LS	D	MED-IND
TRUCK	C 14	53.0	5.2250E-02	0.	9.8585E-04	0.	A	D	MEDICAL
TRUCK	CO 57	2.0	2.0000E-03	2.0000E-02	1.0000E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	I 125	104.0	5.7200E-04	0.	5.5000E-06	0.	A	D	MEDICAL
TRUCK	I 131	572.0	1.5678E+00	1.5080E+02	2.7409E-03	2.6364E-01	A	D	MEDICAL
TRUCK	MO 99	936.0	1.0036E+03	2.0176E+03	1.0722E+00	2.1556E+00	A	D	MEDICAL
TRUCK	W	2.0	1.4000E-01	0.	7.0000E-02	0.	A	ND	WASTE
TRUCK	W	66.0	1.2122E+04	1.8200E+02	1.8367E+02	2.7576E+00	B	ND	WASTE
TRUCK	W	329.3	6.5867E-02	3.2933E+01	2.0000E-04	1.0000E-01	LS	D	WASTE
TRUCK	W	1256.0	1.9601E+02	0.	1.5606E-01	0.	LS	ND	WASTE

TABLE A- 27

CITY LAT = 3.9920000E+01 CITY LONG = 7.5220000E+01 RADIUS = 8.7200000E-01  
 \* \* \* \* \* CITY = PHILADELPHIA TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MF	30.0	6.3840E-03 *	6.0000E+00	1.280E-04 *	2.0000E-01	A	ND	FUEL CY
AUTOMOBILE	PU239	2.0	3.2000E-05 *	0.	1.6000E-05 *	0.	E	ND	FUEL CY
AUTOMOBILE	U 235	24.2	1.3302E-05 *	0.	5.5000E-07 *	0.	E	D	FUEL CY
AUTOMOBILE	U 235	24.2	2.4186E-03 *	0.	1.0000E-04 *	0.	LS	D	FUEL CY
AUTOMOBILE	U 235	1.0	5.0000E-02 *	0.	5.0000E-02 *	0.	LS	ND	FUEL CY
AUTOMOBILE	AM241	2.0	2.0000E-05	0.	1.0000E-05	0.	A	D	INDUSTR
AUTOMOBILE	H 3	26.0	5.9864E-02	0.	3.8409E-03	0.	A	D	INDUSTR
AUTOMOBILE	CR 51	7.1	2.8364E-02	0.	4.0000E-03	0.	A	D	MED-IND
AUTOMOBILE	XE133	2.4	2.3636E-02	0.	1.0000E-02	0.	A	D	MED-IND
AUTOMOBILE	C 14	30.7	5.0700E-02	0.	1.6500E-03	0.	A	D	MEDICAL
AUTOMOBILE	I 125	66.2	2.8789E-02	0.	4.3500E-04	0.	A	D	MEDICAL
AUTOMOBILE	I 125	11.8	1.1818E-03	0.	1.0000E-04	0.	E	D	MEDICAL
AUTOMOBILE	K 42	18.9	3.7818E-02	0.	2.0000E-03	0.	A	D	MEDICAL
AUTOMOBILE	P 32	4.7	1.1818E-03	0.	2.5000E-04	0.	A	D	MEDICAL

TABLE A- 28

CITY LAT = 3.9920000E+01 CITY LONG = 7.5220000E+01 RADIUS = 8.7200000E-01  
 \* \* \* \* \* CITY = PHILADELPHIA ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MF	30.0	2.6220E-02 *	2.6000E+01	8.7400E-04 *	8.6667E-01	A	ND	FUEL CY
AUTOMOBILE	U 238	3.0	1.2999E+04 *	7.5000E-01	4.3330E+03 *	2.5000E-01	B	D	FUEL CY
AUTOMOBILE	C 14	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	MEDICAL
AUTOMOBILE	I 131	12.1	1.2093E-05	0.	1.0000E-06	0.	E	D	MEDICAL
AUTOMOBILE	P 32	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	MEDICAL

## TARIF A- 29

CITY LAT = 3.9920000E+01 CITY LONG = 7.5220000E+01 RADIUS = 8.7200000E-01  
 \* \* \* \* \* CITY = PHILADELPHIA TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	U 235	56.3	4.6713E-03	0.	8.2923E-05	0.	A	D	FUEL CY
AIR,FRT.	AM241	24.2	3.7488E-02	2.4186E-03	1.5500E-03	1.0000E-04	A	ND	INDUSTR
AIR,FRT.	CS137	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
AIR,FRT.	H 3	563.3	5.2014E+03	0.	9.2332E+00	0.	A	D	INDUSTR
AIR,FRT.	IR192	64.8	2.2590E+03	5.4000E+01	3.4861E+01	8.3333E-C1	A	ND	INDUSTR
AIR,FRT.	IR192	72.6	6.6874E+03	2.4751E+02	5.2167E+01	3.4167E+00	B	ND	INDUSTR
AIR,FRT.	PO210	52.0	2.6000E-02	0.	5.0000E-04	0.	E	D	INDUSTR
AIR,FRT.	S 35	60.7	3.0767E-01	0.	5.0714E-03	0.	A	D	INDUSTR
AIR,FRT.	SE 75	104.0	5.4600E-03	0.	5.2500E-05	0.	A	D	INDUSTR
AIR,FRT.	CO 60	10.4	3.1200E+01	1.0400E+01	3.0000E+00	1.0000E+00	A	ND	MED-IND
AIR,FRT.	CR 51	8.7	6.5000E-02	8.6667E-01	7.5000E-03	1.0000E-01	A	D	MED-IND
AIR,FRT.	XE133	52.0	8.8400E+01	2.6000E+01	1.7000E+00	5.0000E-01	A	D	MED-IND
AIR,FRT.	C 14	358.7	3.4580E-01	0.	8.6739E-04	0.	A	D	MEDICAL
AIR,FRT.	GD153	52.0	5.2000E-03	0.	1.0000E-04	0.	A	D	MEDICAL
AIR,FRT.	HG197	52.0	1.0400E-01	0.	2.0000E-03	0.	A	D	MEDICAL
AIR,FRT.	I 125	424.7	5.5668E-01	8.6667E-01	1.3109E-03	2.0408E-03	A	D	MEDICAL
AIR,FRT.	I 131	52.0	2.0800E-02	1.0400E+01	4.0000E-04	2.0000E-C1	A	D	MEDICAL
AIR,FRT.	K 42	24.2	1.9349E-01	8.4651E+00	8.0000E-03	3.5000E-01	A	D	MEDICAL
AIR,FRT.	K 43	24.2	1.8140E-01	1.4512E+01	7.5000E-03	6.0000E-01	A	D	MEDICAL
AIR,FRT.	P 32	4.3	2.1667E-02	4.3333E-01	5.0000E-03	1.0000E-C1	A	D	MEDICAL

TABLE A- 30

CITY LAT = 3.9520000E+01 CITY LONG = 7.5220000E+01 RADIUS = 8.7200000E-01  
 \* \* \* \* \* CITY = PHILADELPHIA \* \* \* \* \* ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	10.4	8.7786E-03	2.0920E+01	0.4759E-04	2.0199E+00	A	D	FUEL CY
AIR,FRT.	MF	2.0	2.0000E-04	2.0000E+00	1.0000E-04	1.0000E+00	A	ND	FUEL CY
AIR,FRT.	MF	2.0	2.0000E-05	4.0000E-02	1.0000E-05	2.0000E-02	E	ND	FUEL CY
AIR,FRT.	PU238	7.0	1.0975E+02	1.0400E+00	1.5679E+01	1.4857E-01	A	ND	FUEL CY
AIR,FRT.	PU239	8.0	2.8000E+02	0.	3.5000E+01	0.	A	ND	FUEL CY
AIR,FRT.	PU242	1.0	5.0000E-07	0.	5.0000E-07	0.	A	D	FUEL CY
AIR,FRT.	PU242	2.0	1.0001E+01	2.0000E-01	5.0005E+00	1.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 233	1.0	1.2000E-01	4.0000E-01	1.2000E-01	4.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 235	220.7	1.2426E+03	8.3200E+01	5.6313E+00	3.7704E-01	A	D	FUEL CY
AIR,FRT.	U 235	31.0	1.8843E+04	1.3200E+01	6.0785E+02	4.2581E-01	A	ND	FUEL CY
AIR,FRT.	U 235	6.0	3.3154E+04	0.	5.5257E+03	0.	B	D	FUEL CY
AIR,FRT.	U 235	62.0	7.1275E+05	6.2000E+00	1.1496E+04	1.0000E-01	B	ND	FUEL CY
AIR,FRT.	U 235	6.0	1.1251E+00	0.	1.8752E-01	0.	E	D	FUEL CY
AIR,FRT.	U 235	1.0	1.1000E+01	0.	1.1000E+01	0.	E	ND	FUEL CY
AIR,FRT.	U 238	1.0	1.5000E+04	1.0000E+00	1.5000E+04	1.0000E+00	A	ND	FUEL CY
AIR,FRT.	U 238	1.0	0.0000E-02	0.	2.0000E-02	0.	E	ND	FUEL CY
AIR,FRT.	AM241	49.4	3.0810E+00	3.5048E+00	6.2404E-02	7.0988E-02	A	ND	INDUSTR
AIR,FRT.	AM241	48.4	6.3325E+02	1.4512E+01	1.3091E+01	3.0000E-01	B	ND	INDUSTR
AIR,FRT.	AM241	2.0	2.0000E-06	0.	1.0000E-06	0.	E	ND	INDUSTR
AIR,FRT.	CS137	12.1	2.6605E-01	3.6279E+01	2.2000E-02	3.0000E+00	A	D	INDUSTR
AIR,FRT.	H 3	649.1	1.1368E+05	0.	1.7514E+02	0.	A	D	INDUSTR
AIR,FRT.	H 3	8.7	1.3000E-01	0.	1.5000E-02	0.	A	ND	INDUSTR
AIR,FRT.	IR192	41.6	2.4440E+03	4.1600E+01	5.8750E+01	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	171.2	1.8732E+04	3.5868E+02	1.0939E+02	2.0946E+00	B	ND	INDUSTR
AIR,FRT.	KR 85	94.2	5.0955E+02	7.2065E+01	5.4101E+00	7.6514E-01	A	D	INDUSTR
AIR,FRT.	NA 22	4.3	4.3333E-04	4.3333E-01	1.0000E-04	1.0000E-01	A	D	INDUSTR
AIR,FRT.	PO210	264.0	5.7304E+00	0.	1.5743E-02	0.	E	D	INDUSTR
AIR,FRT.	RA226	2.0	1.0000E-02	2.8000E+00	5.0000E-03	1.4000E+00	A	ND	INDUSTR
AIR,FRT.	S 35	73.7	3.3800E-01	0.	4.5882E-03	0.	A	D	INDUSTR
AIR,FRT.	SE 75	208.0	3.0069E+01	3.5360E+02	1.4456E-01	1.7000E+00	A	D	INDUSTR
AIR,FRT.	SR 85	12.1	1.2093E-01	2.4186E+00	1.0000E-02	2.0000E-01	A	D	INDUSTR
AIR,FRT.	CO 60	158.0	9.6980E+02	1.5800E+01	6.1380E+00	1.0000E-01	A	D	MED-IND
AIR,FRT.	CO 60	63.4	4.7805E+02	2.1300E+01	7.5402E+00	3.3596E-01	A	ND	MED-IND
AIR,FRT.	CR 51	559.0	6.9891E-01	9.2300E+01	1.2503E-03	1.6512E-01	A	D	MED-IND
AIR,FRT.	XE133	1273.1	7.7092E+03	5.7442E+02	6.0555E+00	4.5120E-01	A	D	MED-IND
AIR,FRT.	AU198	104.0	8.3219E+02	3.5360E+02	8.0018E+00	3.4000E+00	A	D	MEDICAL
AIR,FRT.	BK249	2.0	1.3400E+00	2.0000E-01	6.7000E-01	1.0000E-01	B	ND	MEDICAL
AIR,FRT.	C 14	310.0	2.1946E+02	2.6121E+02	7.0797E-01	8.4265E-01	A	D	MEDICAL
AIR,FRT.	C 14	13.0	1.7333E-02	0.	1.3333E-03	0.	A	ND	MEDICAL
AIR,FRT.	CE144	24.2	2.4186E+01	7.2558E+01	1.0000E+00	3.0000E+00	A	D	MEDICAL
AIR,FRT.	CO 57	208.0	7.2800E-04	2.6000E+01	3.5000E-06	1.2500E-01	A	D	MEDICAL
AIR,FRT.	CO 57	260.0	1.3416E-02	2.6000E+01	5.1600E-05	1.0000E-01	A	ND	MEDICAL
AIR,FRT.	CO 57	52.0	4.6800E-04	0.	5.0000E-06	0.	E	ND	MEDICAL
AIR,FRT.	CS134	12.1	1.2093E-03	3.6279E+00	1.0000E-04	3.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	59.3	1.8894E+01	9.0800E+01	3.1844E-01	1.5303E+00	A	D	MEDICAL
AIR,FRT.	HG197	468.0	5.2104E+00	9.8800E+01	1.1133E-02	2.1111E-01	A	D	MEDICAL
AIR,FRT.	I 125	1314.2	6.4225E+00	1.1244E+02	4.8869E-03	8.5860E-02	A	D	MEDICAL
AIR,FRT.	I 131	5779.7	4.0563E+02	5.1711E+03	7.0182E-02	8.9471E-01	A	D	MEDICAL
AIR,FRT.	I 131	5356.0	3.1539E+01	3.7856E+03	5.8885E-03	7.0680E-01	A	ND	MEDICAL
AIR,FRT.	I 131	24.2	9.4809E+02	4.3545E+01	3.5200E+01	1.8000E+00	B	D	MEDICAL

CITY LAT = 3.9920000E+01 CITY LONG = 7.5220000E+01 RADIUS = 8.7200000E-01  
 \* \* \* \* \* CITY = PHILADELPHIA ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	IN111	214.0	2.1520E+01	6.4800E+01	1.0056E-01	3.0280E-01	A	D	MEDICAL
AIR,FRT.	K 43	72.6	5.4419E-01	5.3209E+01	7.5000E-03	7.3333E-01	A	D	MEDICAL
AIR,FRT.	MO 99	1248.0	1.4446E+03	2.4960E+03	1.1575E+00	2.0000E+00	A	D	MEDICAL
AIR,FRT.	MO 99	10556.0	9.5134E+03	1.9037E+04	9.0123E-01	1.8034E+00	A	ND	MEDICAL
AIR,FRT.	MO 99	52.0	7.6440E+03	5.2000E+01	1.4700E+02	1.0000E+00	B	D	MEDICAL
AIR,FRT.	P 32	455.7	5.4070E+01	1.4561E+02	1.1865E-01	3.1953E-01	A	D	MEDICAL
AIR,FRT.	P 33	12.1	1.4512E+00	0.	1.2000E-01	0.	A	D	MEDICAL

TABLE A- 31

CITY LAT = 3.9920000E+01 CITY LONG = 7.5220000E+01 RADIUS = 8.7200000E-01  
 \* \* \* \* \* CITY = PHILADELPHIA TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MF	2.0	2.0000E-03	1.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,PASS.	PU238	13.0	8.0140E+00	4.0000E-02	6.1646E-01	3.0769E-03	A	ND	FUEL CY
AIR,PASS.	U 235	5.0	8.3600E-02	0.	1.6720E-02	0.	B	D	FUEL CY
AIR,PASS.	CS137	2.0	2.1400E-04	2.0000E-01	1.0700E-04	1.0000E-01	A	ND	INDUSTR
AIR,PASS.	H 3	30.3	4.5933E-01	0.	1.5143E-02	0.	A	D	INDUSTR
AIR,PASS.	IR192	28.0	7.7840E+02	4.7800E+01	2.7800E+01	1.7071E+00	A	ND	INDUSTR
AIR,PASS.	IR192	8.0	3.2300E+02	8.0000E-01	4.0375E+01	1.0000E-01	B	ND	INDUSTR
AIR,PASS.	NA 22	4.3	2.1677E-03	8.6667E-01	5.0000E-04	2.0000E-01	A	D	INDUSTR
AIR,PASS.	CR 51	4.3	4.3333E-03	4.3333E-01	1.0000E-03	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE127	4.0	5.7000E-01	4.0000E-01	1.4250E-01	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	8.7	2.3400E+00	0.	2.7000E-01	0.	A	D	MED-IND
AIR,PASS.	C 14	20.8	1.2960E-01	1.2053E+01	6.2427E-03	5.8252E-01	A	D	MEDICAL
AIR,PASS.	CO109	2.0	8.0000E-03	2.0000E-01	4.0000E-03	1.0000E-01	A	ND	MEDICAL
AIR,PASS.	HG197	104.0	1.3000E-01	4.6800E+01	1.2500E-03	4.5000E-01	A	D	MEDICAL
AIR,PASS.	I 125	212.3	2.8655E-02	0.	1.3496E-04	0.	A	D	MEDICAL
AIR,PASS.	I 131	1872.0	3.9000E+00	1.9136E+03	2.0833E-03	1.0222E+00	A	D	MEDICAL
AIR,PASS.	MG 28	2.0	5.1600E-04	2.0000E-01	2.5800E-04	1.0000E-01	A	D	MEDICAL
AIR,PASS.	MO 99	52.0	5.2000E+00	5.2000E+01	1.0000E-01	1.0000E+00	B	D	MEDICAL
AIR,PASS.	P 32	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	TC 99M	104.0	2.0800E+01	5.2000E+01	2.0000E-01	5.0000E-01	A	D	MEDICAL



TABLE A- 32

CITY LAY = 3.9920000E+01		CITY LONG =		CITY = PHILADELPHIA		RADIUS =		8.7200000E-01		ACROSS	
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL II PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE		
AIR,PASS	MF	2.0	2.0000E-03	2.0000E-02	1.0000E-03	1.0000E-02	A	ND	FUEL CY		
AIR,PASS	PU236	1.0	5.0000E-04	2.0000E-01	5.0000E-04	2.0000E-01	A	D	FUEL CY		
AIR,PASS	PU238	14.0	9.0420E+00	4.6000E-01	6.4586E-01	3.2857E-02	A	ND	FUEL CY		
AIR,PASS	PU238	1.0	2.1000E+00	1.0000E+01	2.1000E+00	1.0000E+01	B	ND	FUEL CY		
AIR,PASS	PU239	1.0	5.0000E-01	0.	5.0000E-01	0.	A	ND	FUEL CY		
AIR,PASS	PU240	1.0	6.6000E-04	0.	6.6000E-04	0.	A	ND	FUEL CY		
AIR,PASS	PU241	1.0	1.0000E-02	0.	1.0000E-02	0.	A	ND	FUEL CY		
AIR,PASS	PU242	5.0	5.3300E-01	0.	1.0660E-01	0.	A	ND	FUEL CY		
AIR,PASS	YH228	1.0	1.2000E-08	0.	1.2000E-08	0.	E	ND	FUEL CY		
AIR,PASS	YH232	6.0	7.0800E+01	0.	1.1800E+01	0.	E	ND	FUEL CY		
AIR,PASS	U 233	4.0	2.2415E+02	4.0000E-01	5.6038E+01	1.0000E-01	A	ND	FUEL CY		
AIR,PASS	U 235	726.8	1.6031E+04	6.4308E+02	2.2057E+01	8.8481E-01	A	D	FUEL CY		
AIR,PASS	U 235	73.2	1.2981E+01	9.8400E+01	1.7701E-01	1.3418E+00	A	ND	FUEL CY		
AIR,PASS	U 235	25.2	1.4728E+01	5.0000E-02	5.877E-01	1.9852E-03	B	D	FUEL CY		
AIR,PASS	U 235	2.0	1.6000E-01	2.0000E-01	8.0000E-02	1.0000E-01	B	ND	FUEL CY		
AIR,PASS	U 235	20.1	6.1008E+01	1.0000E-01	3.0363E+00	1.769E-03	E	D	FUEL CY		
AIR,PASS	U 235	12.0	1.2654E+03	0.	1.0545E+02	0.	E	ND	FUEL CY		
AIR,PASS	U 235	1.0	2.0000E-03	0.	2.0000E-03	0.	LS	ND	FUEL CY		
AIR,PASS	U 236	1.0	3.0000E-01	1.0000E-01	3.0000E-01	1.0000E-01	A	ND	FUEL CY		
AIR,PASS	U 238	12.1	4.9581E+04	2.4186E+00	4.1000E+03	2.0000E-01	A	D	FUEL CY		
AIR,PASS	U 238	1.0	4.0000E-03	0.	4.0000E-03	0.	E	ND	FUEL C/		
AIR,PASS	U 238	26.0	4.3583E+05	2.6000E+00	1.6763E+04	1.0000E-01	LS	D	FUEL CY		
AIR,PASS	AM241	14.1	1.4093E-06	1.205E+00	1.0000E-07	8.5809E-02	A	D	INDUSTR		
AIR,PASS	AM241	24.0	4.1000E-01	0.	1.7083E-02	0.	A	ND	INDUSTR		
AIR,PASS	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	E	ND	INDUSTR		
AIR,PASS	CA 45	19.3	1.1347E-01	2.0000E-01	5.8690E-03	1.0345E-02	A	D	INDUSTR		
AIR,PASS	CF252	2.0	5.4000E-02	1.0000E+01	2.7000E-02	5.0000E+00	A	ND	INDUSTR		
AIR,PASS	CS137	52.0	5.2000E-04	0.	1.0000E-05	0.	A	D	INDUSTR		
AIR,PASS	CS137	16.1	1.8553E+02	1.245E+01	1.1529E+01	7.7630E-01	A	ND	INDUSTR		
AIR,PASS	FE 55	2.0	4.0000E-02	0.	2.0000E-02	0.	E	ND	INDUSTR		
AIR,PASS	H 3	1118.7	8.5624E+00	1.0200E+00	7.6550E-03	9.1180E-04	A	D	INDUSTR		
AIR,PASS	H 3	6.0	4.4400E-01	0.	7.4000E-02	0.	E	D	INDUSTR		
AIR,PASS	KR 85	14.0	7.0000E+00	2.2000E+00	5.0000E-01	1.5714E-01	A	D	INDUSTR		
AIR,PASS	KR 85	36.3	4.2326E-04	0.	1.1667E-05	0.	E	D	INDUSTR		
AIR,PASS	NA 22	4.3	1.7333E-02	1.733E+00	4.0000E-03	4.0000E-01	A	D	INDUSTR		
AIR,PASS	PO210	2.0	6.0000E-02	2.0000E-01	3.0000E-02	1.0000E-01	B	D	INDUSTR		
AIR,PASS	RA226	12.1	2.4186E-03	1.205E+01	2.0000E-04	1.0000E+00	A	D	INDUSTR		
AIR,PASS	S 35	78.0	7.8000E-02	0.	1.0000E-03	0.	A	D	INDUSTR		
AIR,PASS	SE 75	52.0	1.3000E-02	1.0400E+01	2.5000E-04	2.0000E-01	A	D	INDUSTR		
AIR,PASS	SR 89	12.1	5.4419E-01	4.832E+00	4.5000E-02	4.0000E-01	A	D	INDUSTR		
AIR,PASS	CM244	12.1	2.4186E+02	0.	2.0000E+01	0.	A	D	MED-IND		
AIR,PASS	CO 60	104.0	4.7580E+02	1.5600E+01	4.5750E+00	1.5000E-01	A	D	MED-IND		
AIR,PASS	CO 60	52.0	1.0400E+01	1.0400E+01	2.0000E-01	2.0000E-01	A	D	MED-IND		
AIR,PASS	CR 51	1291.3	2.0354E+00	2.5913E+02	1.576E-03	2.0067E-01	A	ND	MED-IND		
AIR,PASS	XE127	14.0	1.1360E+00	2.2000E+00	8.1143E-02	1.5714E-01	A	D	MED-IND		
AIR,PASS	XE133	509.3	8.241E+02	4.7767E+01	7.5082E-01	9.3787E-02	A	D	MED-IND		
AIR,PASS	AU198	724.4	4.8094E+01	2.5577E+03	6.6394E-02	3.5309E+00	A	D	MEDICAL		
AIR,PASS	C 14	408.9	3.1387E-01	0.	7.6752E-04	0.	A	D	MEDICAL		
AIR,PASS	C 14	16.4	5.1705E-03	0.	5.5828E-04	0.	A	ND	MEDICAL		
AIR,PASS	CO109	6.0	2.1002E-01	4.0000E-02	3.5003E-02	5.6667E-03	A	ND	MEDICAL		

CITY LAT = 3.9920000E+01 CITY LONG = 7.5220000E+01 RADIUS = 8.7200000E-01  
 \* \* \* \* \* CITY = PHILADELPHIA ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	CD109	12.1	3.6279E-05	0.	3.0000E-06	0.	E	D	MEDICAL
AIR,PASS.	CE137	52.0	3.2000E-02	1.0400E+01	1.0000E-03	2.0000E-01	A	D	MEDICAL
AIR,PASS.	CO 57	1896.2	2.4649E+01	2.1888E+02	7.7257E-03	1.1543E-01	A	D	MEDICAL
AIR,PASS.	CO 57	366.0	4.6640E-03	4.7000E+01	1.2743E-05	1.2842E-01	A	ND	MEDICAL
AIR,PASS.	FE 52	10.0	1.1460E-01	1.8000E+01	1.1460E-02	1.8000E+00	A	D	MEDICAL
AIR,PASS.	FE 59	4.3	2.1667E-03	8.6667E-01	3.0000E-04	2.0000E-01	A	D	MEDICAL
AIR,PASS.	GA 67	1557.0	1.7937E+02	9.0320E+02	1.1520E-01	5.8073E-01	A	D	MEDICAL
AIR,PASS.	HG197	156.0	6.8120E-01	1.5600E+01	4.3667E-03	1.0000E-01	A	D	MEDICAL
AIR,PASS.	HG197	104.0	4.1168E-01	3.1200E+01	3.9585E-03	3.0000E-01	A	ND	MEDICAL
AIR,PASS.	HG203	52.0	5.2000E-01	1.5600E+01	1.0000E-02	3.0000E-01	A	D	MEDICAL
AIR,PASS.	I 123	3282.0	6.5040E+00	4.6358E+02	1.9817E-03	1.4125E-01	A	D	MEDICAL
AIR,PASS.	I 125	4755.3	1.6033E+00	2.7817E+02	3.3716E-04	5.8496E-02	A	D	MEDICAL
AIR,PASS.	I 125	208.0	1.7368E-02	0.	8.3500E-05	0.	E	D	MEDICAL
AIR,PASS.	I 131	12593.4	2.8291E+02	1.1982E+04	2.2465E-02	9.5144E-01	A	D	MEDICAL
AIR,PASS.	I 131	11180.0	4.1254E+01	8.2160E+03	3.6900E-03	7.3488E-01	A	ND	MEDICAL
AIR,PASS.	I 131	12.1	3.9786E+02	3.3860E+01	3.2900E+01	2.8000E+00	B	D	MEDICAL
AIR,PASS.	IN111	750.0	1.4952E+01	3.1400E+01	1.9936E-02	4.1867E-02	A	D	MEDICAL
AIR,PASS.	K 43	24.2	4.8372E-02	9.6744E+00	2.0000E-03	4.0000E-01	A	D	MEDICAL
AIR,PASS.	MG 28	18.0	1.8200E+03	2.0000E+01	1.0111E+02	1.1111E+00	A	D	MEDICAL
AIR,PASS.	MO 99	1512.3	1.9214E+03	2.7907E+02	1.2705E+00	1.8453E-01	A	D	MEDICAL
AIR,PASS.	MO 99	23608.0	2.0862E+04	4.3644E+04	8.8368E-01	1.8487E+00	A	ND	MEDICAL
AIR,PASS.	MO 99	52.0	1.0348E+04	1.5600E+02	1.9900E+02	3.0000E+00	B	D	MEDICAL
AIR,PASS.	P 32	881.7	1.0428E+01	1.4970E+02	1.1828E-02	1.6979E-01	A	D	MEDICAL
AIR,PASS.	P 33	4.3	4.3333E-02	0.	1.0000E-02	0.	A	D	MEDICAL
AIR,PASS.	TC 99M	1612.0	1.1341E+02	3.7180E+02	7.0355E-02	2.3065E-01	A	D	MEDICAL
AIR,PASS.	TL201	12.0	8.0554E+00	4.8000E+00	6.7128E-01	4.0000E-01	A	D	MEDICAL
AIR,PASS.	TL204	2.0	2.0000E-04	0.	1.0000E-04	0.	A	D	MEDICAL

TABLE A- 33

CITY LAT = 3.9920000E+01 CITY LONG = 7.5220000E+01 RADIUS = 8.7200000E-01  
 \* \* \* \* \* CITY = PHILADELPHIA ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	U 235	2264.0	2.1724E+06	5.6600E+02	9.5952E+02	2.5000E-01	B	D	FUEL CY
SHIP	U 235	42.0	1.1457E+06	2.1000E+02	2.7278E+04	5.0000E+00	B	ND	FUEL CY
SHIP	U 235	1.0	2.4300E-02	0.	2.4300E-02	0.	E	D	FUEL CY
SHIP	KR 85	2.0	1.0000E+00	2.0000E-01	5.0000E-01	1.0000E-01	A	D	INDUSTR



TABLE A- 34

CITY LAT = 3.9920000E+01 CITY LONG = 7.5220000E+01 RADIUS = 8.7200000E-01  
 \* \* \* \* \* CITY = PHILADELPHIA TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	AM241	6.0	6.0000E+00	0.	1.0000E+00	0.	A	ND	INDUSTR

TABLE A- 35

CITY LAT = 3.9920000E+01 CITY LONG = 7.5220000E+01 RADIUS = 8.7200000E-01  
 \* \* \* \* \* CITY = PHILADELPHIA TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
RAIL	U 235	1.0	4.4000E-03	0.	4.4000E-03	0.	B	D	FUEL CY

TARLF A- 36

CITY LAT = 3.992000E+01 CITY LONG = 7.522000E+01 RADIUS = 8.720000E-01 TO OR FROM \*\*\*\*\*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	3712.6	2.1233E+03	6.3041E+04	5.7192E-01	1.6980E+01	A	D	FUEL CY
TRUCK	MC	3253.0	3.7888E+02	0.	1.1647E-01	0.	B	D	FUEL CY
TRUCK	MF	2.0	2.0000E-04	0.	1.0000E-04	0.	B	D	FUEL CY
TRUCK	PU238	8.0	5.2803E+04	4.0000E+01	6.6004E+03	5.0000E+00	A	ND	FUEL CY
TRUCK	U 235	104.0	2.1164E+00	1.3000E+02	2.0350E-02	1.2500E+00	B	ND	FUEL CY
TRUCK	U 235	184.0	2.6126E+04	4.5500E+01	1.4199E+02	2.4728E-01	A	D	FUEL CY
TRUCK	U 235	20.0	4.6000E-01	0.	2.3000E-02	0.	LS	ND	FUEL CY
TRUCK	U 238	12.1	3.8940E+05	2.4186E+00	3.2200E+04	2.0000E-01	A	D	FUEL CY
TRUCK	U 238	60.5	7.1984E+05	3.0237E+01	1.1905E+04	5.0000E-01	A	ND	FUEL CY
TRUCK	U 238	5.0	5.2000E+03	1.2500E+00	1.0400E+03	2.5000E-01	B	D	FUEL CY
TRUCK	U 238	12.1	2.8225E+07	2.4186E+00	2.3340E+06	2.0000E-01	LG	D	FUEL CY
TRUCK	AM241	10.0	1.0000E+01	0.	1.0000E+00	0.	A	ND	INDUSTR
TRUCK	CS137	2.0	1.8400E-04	2.0000E-01	5.2000E-05	1.0000E-01	A	ND	INDUSTR
TRUCK	CS137	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
TRUCK	H 3	104.0	5.2312E-02	0.	5.0300E-04	0.	A	D	INDUSTR
TRUCK	IR192	116.4	7.4068E+03	1.9020E+02	6.3632E+01	1.6340E+00	A	ND	INDUSTR
TRUCK	IR192	34.0	1.5908E+03	1.2000E+00	4.6788E+01	3.5294E-02	B	ND	INDUSTR
TRUCK	IR192	2.0	2.0000E-05	2.0000E-01	1.0000E-05	1.0000E-01	E	D	INDUSTR
TRUCK	KR 85	54.4	2.4216E+03	1.8280E+02	4.4538E+01	3.3619E+00	A	D	INDUSTR
TRUCK	KR 85	2.0	1.0000E-02	6.0000E-02	5.0000E-03	3.0000E-02	B	D	INDUSTR
TRUCK	SE 75	780.0	3.1205E-01	1.8200E+02	4.0007E-04	2.3333E-01	A	D	INDUSTR
TRUCK	CO 60	8.0	2.9600E-02	0.	3.7000E-03	0.	A	D	INDUSTR
TRUCK	CO 60	34.0	2.4990E+02	7.4000E+00	7.3499E+00	2.1765E-01	A	ND	MED-IND
TRUCK	CO 60	22.0	7.9864E+04	3.0200E+01	3.6302E+03	1.3727E+00	B	ND	MED-IND
TRUCK	CR 51	410.0	8.5280E-01	6.7100E+01	2.0500E-03	1.6250E-01	A	D	MED-IND
TRUCK	XE133	832.0	2.5584E+01	2.0800E+01	3.0750E-02	2.5000E-02	A	D	MED-IND
TRUCK	AU198	156.0	4.3160E+00	1.6640E+02	2.7667E-02	1.0667E+00	A	D	MEDICAL
TRUCK	AU198	4.0	4.0000E-07	0.	1.0000E-07	0.	A	ND	MEDICAL
TRUCK	C 14	104.0	1.0400E-03	0.	1.0000E-05	0.	A	D	MEDICAL
TRUCK	CO 57	156.0	4.1600E-04	2.0800E+01	2.6667E-06	1.3333E-01	A	D	MEDICAL
TRUCK	CO 57	104.0	6.2400E-04	1.0400E+01	6.0000E-06	1.0000E-01	A	ND	MEDICAL
TRUCK	FE 59	52.0	6.5000E-03	1.5600E+01	1.2500E-04	3.0000E-01	A	D	MEDICAL
TRUCK	FE 59	52.0	2.6000E-04	0.	5.0000E-06	0.	E	D	MEDICAL
TRUCK	GA 67	1456.0	5.5160E+00	1.0920E+02	6.5357E-03	7.5000E-02	A	D	MEDICAL
TRUCK	H6197	156.0	8.1640E-01	4.1600E+01	5.2333E-03	2.6667E-01	A	D	MEDICAL
TRUCK	I 123	240.0	2.3400E+00	1.7160E+02	1.0000E-03	7.3333E-02	A	D	MEDICAL
TRUCK	I 125	376.1	1.5552E-01	1.6809E+01	4.1350E-04	4.4655E-02	A	D	MEDICAL
TRUCK	I 131	3172.0	4.4152E+01	1.5652E+03	1.3919E-02	4.9344E-01	A	D	MEDICAL
TRUCK	I 131	148.0	3.4338E+00	8.4760E+02	2.7515E-03	6.7917E-01	A	ND	MEDICAL
TRUCK	IN111	468.0	1.1440E+00	1.0400E+01	2.4444E-03	2.2222E-02	A	C	MEDICAL
TRUCK	MO 99	156.0	2.3400E+02	3.6920E+02	1.5000E+00	2.3667E+00	A	D	MEDICAL
TRUCK	MO 99	156.0	1.7406E+03	3.3322E+03	1.3389E+00	2.5640E+00	A	ND	MEDICAL
TRUCK	P 32	260.0	4.1964E+00	5.2000E+01	1.6140E-02	2.0000E-01	A	D	MEDICAL
TRUCK	TC 99M	14456.0	1.5537E+03	3.2176E+02	1.0748E-01	2.2950E-01	A	D	MEDICAL
TRUCK	M	76.0	5.8920E-01	0.	7.7526E-03	0.	A	D	WASTE

TARLF A- 37

CITY LAT = 3.992000E+01 CITY LONG = 7.522000E+01 RADIUS = 8.720000E-01  
 CITY = PHILADELPHIA ACROSS

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	455.3	2.0006E+03	1.2464E+02	3.0528E-01	1.9019E-01	LS	D	FUEL CY
TRUCK	MF	2.0	2.0000E-03	1.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
TRUCK	MF	2.0	2.0000E-06	0.	1.0000E-06	0.	A	ND	FUEL CY
TRUCK	MF	8.0	8.0000E-05	1.6000E-01	1.0000E-05	2.0000E-02	E	ND	FUEL CY
TRUCK	MF	153.3	7.0989E+01	7.3405E+03	4.5703E-02	4.7258E+00	LS	D	FUEL CY
TRUCK	MF	2.0	2.0000E-02	4.0000E+00	1.0000E-02	2.0000E+00	LS	ND	FUEL CY
TRUCK	PU238	1.0	2.4000E+00	1.1000E+00	2.4000E+00	1.1000E+00	A	ND	FUEL CY
TRUCK	PU238	2.0	4.7060E+00	2.0000E+00	2.3530E+00	1.0000E+00	B	ND	FUEL CY
TRUCK	U 235	80.0	3.0755E+01	1.0246E+02	3.8444E+02	1.2808E+00	A	D	FUEL CY
TRUCK	U 235	70.0	1.8674E+01	2.2920E+01	2.6677E+03	3.2743E-01	A	ND	FUEL CY
TRUCK	U 235	265.0	1.3789E+06	9.8900E+01	3.7778E+03	2.7096E-01	B	ND	FUEL CY
TRUCK	U 235	74.0	2.8756E+06	6.6000E-01	3.8859E+04	8.9189E-03	B	ND	FUEL CY
TRUCK	U 235	6.0	8.1010E+00	3.0000E-02	1.3502E+00	5.0000E-03	E	D	FUEL CY
TRUCK	U 235	39.0	3.7440E+02	0.	9.6000E+00	0.	E	ND	FUEL CY
TRUCK	U 235	513.9	4.3353E+03	2.7814E+03	4.7440E+00	3.0436E+00	LS	D	FUEL CY
TRUCK	U 235	6.0	4.8622E+02	5.0000E+00	8.1075E+01	8.3333E-01	LS	ND	FUEL CY
TRUCK	U 238	56.7	4.6785E+06	2.7205E+01	4.8348E+04	2.8125E-01	A	ND	FUEL CY
TRUCK	U 238	5.0	1.5800E+02	0.	3.1600E+01	0.	E	ND	FUEL CY
TRUCK	U 238	2055.8	7.6744E+08	0.	3.7330E+05	0.	LS	D	FUEL CY
TRUCK	U 238	12.1	1.7996E+06	2.4186E+00	1.4881E+05	2.0000E-01	LS	ND	FUEL CY
TRUCK	AM241	2.0	4.0000E-01	0.	2.0000E-01	0.	A	ND	INDUSTR
TRUCK	AM241	24.2	4.9823E+03	2.6605E+01	2.0600E+02	1.1000E+00	B	ND	INDUSTR
TRUCK	AM241	4.0	4.0000E-02	0.	1.0000E-02	0.	E	ND	INDUSTR
TRUCK	CS137	2.0	8.0000E+02	0.	4.0000E+02	0.	A	ND	INDUSTR
TRUCK	CS137	19.3	1.3016E+00	3.0140E+01	6.7616E-02	1.5668E+00	L	D	INDUSTR
TRUCK	EU152	12.1	2.4186E-02	9.6744E+00	2.0000E-03	8.0000E-01	A	D	INDUSTR
TRUCK	FE 55	1.0	1.5000E-01	0.	1.5000E-01	0.	A	D	INDUSTR
TRUCK	FE 55	2.0	4.0000E-02	0.	2.0000E-02	0.	E	ND	INDUSTR
TRUCK	H 3	260.0	7.9914E-01	0.	3.0736E-03	0.	A	D	INDUSTR
TRUCK	H 3	82.0	6.7200E+02	0.	8.1951E+00	0.	B	D	INDUSTR
TRUCK	IR192	36.3	5.0698E+01	1.5600E+02	2.5000E+00	4.3000E+00	A	ND	INDUSTR
TRUCK	IR192	20.8	2.0800E+03	2.0800E+01	1.0000E+02	1.0000E+00	B	ND	INDUSTR
TRUCK	KR 85	16.1	1.2109E+03	2.4586E+01	7.5244E+01	1.5277E+00	A	D	INDUSTR
TRUCK	SE 75	1052.0	6.4511E-01	3.0140E+02	5.9076E-01	2.7619E-01	A	ND	INDUSTR
TRUCK	CO 60	622.4	1.2226E+02	6.0272E+03	1.9659E-01	9.6828E+00	A	ND	MED-IND
TRUCK	CO 60	4.0	1.1430E+04	5.0000E+00	2.8575E+03	1.2500E+00	B	ND	MED-IND
TRUCK	CR 60	107.5	2.2471E+02	1.0000E-01	2.0903E+00	9.3023E-04	LS	D	MED-IND
TRUCK	CR 51	208.0	1.4300E-01	4.6800E+01	6.8750E-04	2.2500E-01	A	D	MED-IND
TRUCK	XE133	844.1	1.5624E+04	7.2588E+00	1.8521E+01	8.5960E-03	A	D	MEDICAL
TRUCK	AU198	208.0	4.6800E-01	9.3600E+01	2.2500E-03	4.5000E-01	A	D	MEDICAL
TRUCK	C 14	366.0	5.2588E-02	0.	1.4368E-04	0.	A	G	MEDICAL
TRUCK	CO109	2.0	4.0000E-03	0.	2.0000E-03	0.	E	ND	MEDICAL
TRUCK	CO 57	52.0	1.0400E-04	5.2000E+00	2.0000E-06	1.0000E-01	A	D	MEDICAL
TRUCK	CO 57	106.0	1.9848E-02	2.0000E-01	1.8725E-04	1.8868E-03	A	ND	MEDICAL
TRUCK	CO 57	12.0	1.2000E-02	1.4000E-01	1.0000E-03	1.1667E-02	LS	D	MEDICAL
TRUCK	FE 59	52.0	2.6000E-04	3.1200E+01	5.0000E-04	6.0000E-01	A	D	MEDICAL
TRUCK	FE 59	52.0	2.6000E-04	0.	5.0000E-06	0.	E	D	MEDICAL
TRUCK	GA 67	520.0	6.2400E+00	4.6800E+01	1.2000E-02	9.0000E-02	A	D	MEDICAL
TRUCK	GA 67	12.1	1.8260E+03	1.4512E+01	1.5100E+02	1.2000E+00	A	ND	MEDICAL
TRUCK	I 123	780.0	8.8400E-01	5.7200E+01	1.1333E-03	7.3333E-02	A	D	MEDICAL

CITY LAT = 3.9920000E+01 CITY LONG = 7.5220000E+01 RADIUS = 8.7200000E-01  
 \* \* \* \* \* CITY = PHILADELPHIA ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	I 125	1088.4	3.4593E-01	1.3665E+01	3.1784E-04	1.2556E-02	A	D	MEDICAL
TRUCK	I 125	1144.0	2.2984E-02	0.	2.0091E-05	0.	E	D	MEDICAL
TRUCK	I 129	200.0	1.4000E+01	0.	7.0000E-02	0.	E	D	MEDICAL
TRUCK	I 131	4548.5	3.3251E+01	2.0243E+03	6.7195E-03	4.0907E-01	A	D	MEDICAL
TRUCK	I 131	572.0	1.2870E+00	3.1720E+02	2.2500E-03	5.5455E-01	A	ND	MEDICAL
TRUCK	I 131	2.0	2.0000E-05	2.0000E+00	1.0000E-05	1.0000E+00	E	D	MEDICAL
TRUCK	IN111	364.0	7.8000E-01	5.2000E+00	2.1429E-03	1.4286E-02	A	D	MEDICAL
TRUCK	MO 99	128.2	1.5576E+02	2.6810E+02	1.2151E+00	2.0915E+00	A	D	MEDICAL
TRUCK	MO 99	728.0	6.6061E+02	1.6536E+03	9.0743E-01	2.2714E+00	A	ND	MEDICAL
TRUCK	NI 63	32.0	5.3840E-04	0.	1.6825E-05	0.	A	ND	MEDICAL
TRUCK	P 32	208.0	1.1964E+00	4.1600E+01	5.7520E-03	2.0000E-01	A	D	MEDICAL
TRUCK	TC 99M	23920.0	2.1987E+03	7.7966E+03	9.1918E-02	3.2095E-01	A	D	MEDICAL
TRUCK	W	102.0	6.1260E+02 *	9.0700E+02	6.0059E+00 *	8.8922E+00	A	D	WASTE
TRUCK	W	5500.0	5.5000E-02 *	5.5000E+03	1.0000E-05 *	1.0000E+00	LS	D	WASTE

TARLF A- 38

CITY LAT = 4.2680000E+01 CITY LONG = 8.3230000E+01 RADIUS = 8.8300000E-01  
 \* \* \* \* \* CITY = DETRCIT TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	CR 51	2.0	2.0000E-06	1.0000E+00	1.0000E-06	5.0000E-01	A	D	MED-IND
AUTOMOBILE	BR 82	24.2	2.9628E+00	9.6744E+01	1.2250E-01	4.0000E+00	A	D	MEDICAL

TARLF A- 39

CITY LAT = 4.2680000E+01 CITY LONG = 8.3230000E+01 RADIUS = 8.8300000E-01  
 \* \* \* \* \* CITY = DETRCIT TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	PU239	1.0	1.2500E+01	0.	1.2500E+01	0.	A	ND	FUEL CY
AIR,FRT.	U 235	52.0	3.1200E-04	0.	6.0000E-06	0.	A	D	FUEL CY
AIR,FRT.	U 235	11.0	5.2459E+04	4.4000E+00	4.7690E+03	4.0000E-01	B	ND	FUEL CY
AIR,FRT.	U 238	1.0	6.0000E+00	1.0000E-01	6.0000E+00	1.0000E-01	E	D	FUEL CY
AIR,FRT.	AM241	12.1	2.7330E+00	1.2093E-03	2.2600E-01	1.0000E-04	A	ND	INDUSTR
AIR,FRT.	H 3	156.0	5.3300E-01	0.	3.4167E-03	0.	A	D	INDUSTR
AIR,FRT.	IR192	10.4	1.0400E+03	1.0400E+01	1.0000E+02	1.0000E+00	B	ND	INDUSTR
AIR,FRT.	PO210	52.0	5.2000E-01	0.	1.0000E-02	0.	E	D	INDUSTR
AIR,FRT.	S 35	104.0	1.3000E-01	0.	1.2500E-03	0.	A	D	INDUSTR
AIR,FRT.	CR 51	52.0	5.2000E-01	1.0400E+01	1.0000E-02	2.0000E-01	A	D	MED-IND
AIR,FRT.	XE133	85.8	7.2673E+01	2.8419E+01	8.4740E-01	3.3137E-01	A	D	MED-IND
AIR,FRT.	BR 82	60.5	7.1349E+00	1.9833E+02	1.1800E-01	3.2800E+00	A	D	MEDICAL
AIR,FRT.	C 14	156.0	2.3400E-02	0.	1.5000E-04	0.	A	D	MEDICAL
AIR,FRT.	CO 57	52.0	5.2000E-03	0.	1.0000E-04	0.	A	D	MEDICAL
AIR,FRT.	GA 67	30.3	4.1600E-01	1.6900E+01	1.3714E-02	5.5714E-01	A	D	MEDICAL
AIR,FRT.	I 125	232.2	9.8499E-01	3.6279E+00	4.2422E-03	1.5625E-02	A	D	MEDICAL
AIR,FRT.	I 131	36.3	2.4186E+00	8.1022E+01	6.6667E-02	2.2333E+00	A	D	MEDICAL
AIR,FRT.	MO 99	4.3	2.9467E+00	1.0833E+01	6.8000E-01	2.5000E+00	A	D	MEDICAL
AIR,FRT.	P 32	4.3	6.5000E-02	8.6667E-01	1.5000E-02	2.0000E-01	A	D	MEDICAL

TABLE A- 40

CITY LAT = 4.2680000E+01 CITY LONG = 8.3230000E+01 RADIUS = 8.8300000E-01  
 \* \* \* \* \* CITY = DETRCIT ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	4.0	8.0000E-01	0.	2.0000E-01	0.	A	ND	FUEL CY
AIR,FRT.	U 235	12.1	2.7814E-01	1.2093E+00	2.3000E-02	1.0000E-01	A	D	FUEL CY
AIR,FRT.	U 235	12.1	3.6279E-02	6.0465E+00	3.0000E-03	5.0000E-01	A	ND	FUEL CY
AIR,FRT.	AM241	1100.5	4.5289E+01	1.1000E-01	4.4790E-02	1.0000E-04	A	ND	INDUSTR
AIR,FRT.	CS137	12.1	2.1163E+00	1.2093E+02	1.7500E-01	1.0000E+01	A	D	INDUSTR
AIR,FRT.	H 3	513.3	2.5553E+00	0.	4.9779E-03	0.	A	D	INDUSTR
AIR,FRT.	H 3	4.3	4.3333E-01	0.	1.0000E-01	0.	A	ND	INDUSTR
AIR,FRT.	IR192	31.2	3.1720E+03	3.1200E+01	1.0167E+02	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	6.0	2.6000E+02	1.4000E+01	4.3333E+01	2.3333E+00	B	D	INDUSTR
AIR,FRT.	IR192	41.6	3.9000E+03	4.1600E+01	9.3750E+01	1.0000E+00	B	ND	INDUSTR
AIR,FRT.	S 35	108.3	2.1633E-01	0.	2.9200E-03	0.	A	D	INDUSTR
AIR,FRT.	SE 75	104.0	5.2000E-04	0.	5.0000E-06	0.	A	D	INDUSTR
AIR,FRT.	CO 60	62.4	4.7804E+02	2.0800E+01	7.6608E+00	3.3333E-01	A	ND	MED-IND
AIR,FRT.	CR 51	268.7	2.9019E+00	5.3300E+01	1.0801E-02	1.9839E-01	A	D	MED-IND
AIR,FRT.	XE133	60.7	5.4727E+01	2.6000E+01	1.5614E+00	4.2857E-01	A	D	MED-IND
AIR,FRT.	BR 82	24.2	3.8698E-01	8.7070E+01	1.6000E-02	3.6000E+00	A	D	MEDICAL
AIR,FRT.	C 14	498.3	1.7385E-01	0.	3.4887E-04	0.	A	D	MEDICAL
AIR,FRT.	C 14	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	E	D	MEDICAL
AIR,FRT.	CO 57	364.0	5.9176E-02	1.5600E+01	1.6257E-04	4.2857E-02	A	D	MEDICAL
AIR,FRT.	CU 64	24.2	6.6512E-01	7.2558E+00	2.7500E-02	3.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	4.3	5.2000E-02	2.1667E+00	1.2000E-02	5.0000E-01	A	D	MEDICAL
AIR,FRT.	HG197	208.0	7.3840E-01	4.6800E+01	3.5500E-03	2.2500E-01	A	D	MEDICAL
AIR,FRT.	I 125	1003.5	1.9132E+00	2.0437E+01	1.9065E-03	2.0366E-02	A	D	MEDICAL
AIR,FRT.	I 125	2.0	8.4000E-02	0.	4.2000E-02	0.	A	ND	MEDICAL
AIR,FRT.	I 131	369.0	4.4646E+00	2.5409E+02	1.2098E-02	6.8853E-01	A	D	MEDICAL
AIR,FRT.	I 131	884.0	3.5593E+00	7.6960E+02	4.0264E-03	8.7059E-01	A	ND	MEDICAL
AIR,FRT.	I 131	48.4	1.4379E+03	1.2335E+02	2.9725E+01	2.5500E+00	B	D	MEDICAL
AIR,FRT.	K 42	60.5	1.6326E+00	5.9163E+01	2.7000E-02	1.6400E+00	A	D	MEDICAL
AIR,FRT.	LU177	12.1	6.0465E-02	1.2093E+00	5.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	MO 99	88.3	1.3090E+02	2.2916E+02	1.4828E+00	2.5959E+00	A	D	MEDICAL
AIR,FRT.	MO 99	1976.0	1.9317E+03	3.7452E+03	5.7758E-01	1.8574E+00	A	ND	MEDICAL
AIR,FRT.	NA 24	120.9	7.8605E-01	3.3014E+02	6.5000E-03	2.7300E+00	A	D	MEDICAL
AIR,FRT.	P 32	78.0	2.3833E-01	2.1667E+00	3.0556E-03	2.7778E-02	A	D	MEDICAL
AIR,FRT.	P 33	8.7	8.6667E-03	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,FRT.	PM147	12.1	4.8372E+00	1.2093E+00	4.0000E-01	1.0000E-01	A	D	MEDICAL
AIR,FRT.	RB 86	24.2	2.4186E-02	6.0465E+00	1.0000E-03	2.5000E-01	A	D	MEDICAL
AIR,FRT.	TA182	12.1	2.4186E-02	8.4651E+00	2.0000E-03	7.0000E-01	A	ND	MEDICAL



TABLE A- 41

CITY LAT = 4.2680000E+01 CITY LONG = 8.3230000E+01 RADIUS = 8.8300000E-01  
 \* \* \* \* \* CITY = DETROIT TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	PU239	2.0	2.0000E-02 *	0.	1.0000E-02 *	0.	A	D	FUEL CY
AIR,PASS.	U 235	2.0	8.0000E+00 *	0.	4.0000E+00 *	0.	E	ND	FUEL CY
AIR,PASS.	CS137	2.0	2.0400E-04	2.0000E-01	1.0200E-04	1.0000E-01	A	ND	INDUSTR
AIR,PASS.	H 3	194.1	1.3404E+00	0.	6.9061E-03	0.	A	D	INDUSTR
AIR,PASS.	H 3	4.3	4.3333E-01	0.	1.0000E-01	0.	A	ND	INDUSTR
AIR,PASS.	S 35	8.7	6.9333E-02	0.	8.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	416.0	2.6478E+01	1.0400E+02	6.3650E-02	2.5000E-01	A	D	INDUSTR
AIR,PASS.	CR 51	164.7	1.9067E-01	2.1667E+01	1.1579E-03	1.3158E-01	A	D	MED-IND
AIR,PASS.	XE133	108.3	1.5860E+00	0.	1.4640E-02	0.	A	D	MED-IND
AIR,PASS.	C 14	65.0	3.9000E-02	0.	6.0000E-04	0.	A	D	MEDICAL
AIR,PASS.	CO 57	52.0	2.6000E-05	0.	5.0000E-07	0.	A	D	MEDICAL
AIR,PASS.	FE 59	104.0	5.2000E-04	0.	5.0000E-06	0.	E	D	MEDICAL
AIR,PASS.	GA 67	60.7	2.2100E-01	7.8000E+00	3.6429E-03	1.2857E-01	A	D	MEDICAL
AIR,PASS.	HG197	52.0	5.2000E-02	5.2000E+00	1.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,PASS.	I 123	936.0	1.4560E+00	1.1700E+02	1.5556E-03	1.2500E-01	A	D	MEDICAL
AIR,PASS.	I 125	426.3	6.9878E-01	1.9228E+01	1.6393E-03	4.5106E-02	A	D	MEDICAL
AIR,PASS.	I 125	312.0	9.4640E-03	1.5600E+01	3.0333E-05	5.0000E-02	E	D	MEDICAL
AIR,PASS.	I 131	2096.9	3.4484E+01	1.1295E+03	1.6445E-02	5.3864E-01	A	D	MEDICAL
AIR,PASS.	I 131	884.0	8.2904E+00	1.6224E+03	9.3782E-03	1.8353E+00	A	ND	MEDICAL
AIR,PASS.	IN111	52.0	1.0400E-01	5.2000E+00	2.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,PASS.	MO 99	56.3	4.6800E+01	3.4667E+01	8.3077E-01	6.1538E-01	A	D	MEDICAL
AIR,PASS.	MO 99	936.0	1.0097E+03	1.9032E+03	1.0787E+00	2.0333E+00	A	ND	MEDICAL
AIR,PASS.	P 32	424.7	4.6063E+00	7.3667E+01	1.0847E-02	1.7347E-01	A	D	MEDICAL
AIR,PASS.	TC 99M	728.0	2.2698E+01	8.3200E+01	3.1179E-02	1.1429E-01	A	D	MEDICAL
AIR,PASS.	W	96.7	1.2093E+00 *	3.0233E+01	1.2500E-02 *	3.1250E-01	A	D	WASTE

TABLE A- 42

CITY LAT = 4.2680000E+01      CITY LONG = 8.3230000E+01      RADIUS = 8.8300000E-01  
 \* \* \* \* \* CITY = DETRCIT      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	U 235	119.0	2.8704E+01	2.3033E+01	2.4121E-01	1.9356E-01	A	D	FUEL CY
AIR,PASS.	U 235	1.0	7.0000E-02	0.	7.0000E-02	0.	LS	ND	FUEL CY
AIR,PASS.	U 238	12.1	2.1888E+05	1.2053E+00	1.8100E+04	1.0000E-01	A	D	FUEL CY
AIR,PASS.	H 3	557.7	2.6772E+00	0.	2.7956E-13	0.	A	D	INDUSTR
AIR,PASS.	PO210	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	S 35	56.3	2.8167E-01	0.	5.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	52.0	2.6000E-04	0.	5.0000E-06	0.	A	D	INDUSTR
AIR,PASS.	CR 51	134.3	4.7493E-01	1.8633E+01	3.5355E-03	1.3871E-01	A	D	MED-INC
AIR,PASS.	XE133	8.7	6.5000E-01	0.	7.5000E-02	0.	A	D	MED-INC
AIR,PASS.	C 14	354.3	2.7040E-01	0.	6.8571E-04	0.	A	D	MEDICAL
AIR,PASS.	CE144	52.0	5.2000E-01	2.6000E+01	1.0000E-02	5.0000E-01	A	D	MEDICAL
AIR,PASS.	CO 57	260.0	4.9400E-04	1.5600E+01	1.9000E-06	6.0000E-02	A	D	MEDICAL
AIR,PASS.	CU 64	24.2	5.6744E-02	3.6275E+00	4.0000E-03	1.5000E-01	A	D	MEDICAL
AIR,PASS.	I 123	104.0	2.0800E-01	1.8200E+01	2.0000E-03	1.7500E-01	A	D	MEDICAL
AIR,PASS.	I 125	1159.5	1.2128E+02	2.9749E+01	1.0460E-01	2.5656E-02	A	D	MEDICAL
AIR,PASS.	I 131	7124.0	3.1101E+01	6.5988E+03	4.3656E-03	9.2628E-01	A	D	MEDICAL
AIR,PASS.	I 131	572.0	1.3420E+00	3.1200E+02	2.3461E-03	5.4545E-01	A	ND	MEDICAL
AIR,PASS.	MO 99	169.5	1.6426E+02	3.6956E+02	9.6909E-01	2.1803E+00	A	D	MEDICAL
AIR,PASS.	MO 99	2080.0	1.5120E+03	3.5568E+03	7.2690E-01	1.7100E+00	A	ND	MEDICAL
AIR,PASS.	P 32	82.3	5.8904E-01	1.1700E+01	1.2013E-02	1.4211E-01	A	D	MEDICAL
AIR,PASS.	TL201	16.0	7.8800E-02	3.6000E+00	4.9250E-03	2.2500E-01	A	D	MEDICAL

TABLE A- 43

CITY LAT = 4.2680000E+01      CITY LONG = 8.3230000E+01      RADIUS = 8.8300000E-01  
 \* \* \* \* \* CITY = DETRCIT      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
RAIL	SF	13.0	3.0422E+05	1.6200E+01	2.3401E+04	1.2462E+00	LQ	ND	FUEL CY



TABLE A- 44

CITY LAT = 4.2680000E+01 CITY LONG = 8.3230000E+01 RADIUS = 8.8300000E-01  
 \* \* \* \* \* CITY = DETRCIT TO OR FRM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MF	2.0	1.1600E+02 *	4.0000E-01	5.8000E+01 *	2.0000E-01	A	ND	FUEL CY
TRUCK	U 235	1.0	2.8800E+03 *	0.	2.8800E+03 *	0.	B	D	FUEL CY
TRUCK	U 238	774.0	2.7354E+07 *	3.8698E+02	3.5343E+04 *	5.0000E-01	A	ND	FUEL CY
TRUCK	CS137	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
TRUCK	H 3	66.1	6.0490E+02	0.	9.1523E+00	0.	A	D	INDUSTR
TRUCK	H 3	1.0	4.6000E+01	1.0000E+00	4.6000E+01	1.0000E+00	LS	D	INDUSTR
TRUCK	KR 85	2.0	1.0000E+00	2.0000E-01	5.0000E-01	1.0000E-01	A	D	INDUSTR
TRUCK	SE 75	364.0	2.4778E-01	7.8000E+01	6.8071E-04	2.1427E-01	A	D	INDUSTR
TRUCK	CR 51	104.0	2.6000E-02	2.0800E+01	2.5000E-04	2.0000E-01	A	D	MED-IND
TRUCK	AU198	52.0	2.6000E-01	4.6800E+01	5.0000E-03	9.0000E-01	A	D	MEDICAL
TRUCK	CO 57	52.0	2.6000E-04	0.	5.0000E-06	0.	A	D	MEDICAL
TRUCK	H6197	52.0	1.0400E-01	2.0800E+01	2.0000E-03	4.0000E-01	A	D	MEDICAL
TRUCK	I 125	364.0	6.7928E-01	3.6400E+01	1.8661E-03	1.0000E-01	A	D	MEDICAL
TRUCK	I 131	2288.0	6.2267E+01	1.0348E+03	2.7214E-02	4.5227E-01	A	D	MEDICAL
TRUCK	MO 99	1248.0	1.0322E+03	2.1788E+03	8.2708E-01	1.7458E+00	A	D	MEDICAL
TRUCK	MO 99	4.0	4.0000E-06	0.	1.0000E-06	0.	E	ND	MEDICAL
TRUCK	W	2.0	1.4000E-01 *	0.	7.0000E-02 *	0.	A	ND	WASTE

TABLE A- 45

CITY LAT = 4.2680000E+01 CITY LONG = 8.3230000E+01 RADIUS = 8.8300000E-01  
 \* \* \* \* \* CITY = DETRCIT ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	6.0	1.0020E-02	0.	1.6700E-03	0.	LS	D	FUEL CY
TRUCK	MF	54.8	5.3904E-02	4.0370E+02	9.8390E-04	7.3686E+00	A	D	FUEL CY
TRUCK	MF	4.0	1.4487E+03	1.3500E+01	3.6218E+02	3.3750E+00	B	D	FUEL CY
TRUCK	MF	3.0	2.7018E+04	9.6E+00	9.0060E+03	3.2000E+00	LQ	D	FUEL CY
TRUCK	MF	2.0	1.0000E-01	2.0000E+00	5.0000E-02	1.0000E+00	LS	ND	FUEL CY
TRUCK	PU239	1.0	1.4900E+02	0.	1.4900E+02	0.	B	ND	FUEL CY
TRUCK	SF	57.0	1.2396E+05	2.8500E+03	2.1747E+03	5.0000E-01	B	ND	FUEL CY
TRUCK	U 235	1.0	3.0000E+00	1.0000E-01	3.0000E+00	1.0000E-01	A	D	FUEL CY
TRUCK	U 235	2.0	1.6000E+03	1.0000E+01	8.0000E+02	5.0000E+00	B	D	FUEL CY
TRUCK	U 235	60.0	3.9377E+05	2.9030E+03	6.5629E+03	4.8383E+01	B	ND	FUEL CY
TRUCK	U 235	9.0	1.0392E+03	1.0000E-01	1.1547E+02	1.1111E-02	E	D	FUEL CY
TRUCK	U 235	20.0	7.0515E+04	2.8250E+01	3.5258E+03	1.4125E+00	LQ	D	FUEL CY
TRUCK	U 235	4.0	6.0700E+00	0.	1.5175E+00	0.	LS	ND	FUEL CY
TRUCK	U 238	12.1	3.0716E+05	2.4186E+00	2.5400E+04	2.0000E-01	A	D	FUEL CY
TRUCK	AM241	2.0	4.0000E-01	0.	2.0000E-01	0.	A	ND	INDUSTR
TRUCK	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	E	ND	INDUSTR
TRUCK	CS137	4.0	4.0000E-04	4.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
TRUCK	FE 55	2.0	2.7518E+02	1.6000E+00	1.3759E+02	4.0000E-01	B	ND	INDUSTR
TRUCK	IR192	10.4	1.0400E+03	1.0400E+01	1.0000E+02	1.0000E+00	B	ND	INDUSTR
TRUCK	KR 85	8.0	8.0000E+00	8.0000E-01	1.0000E+00	1.0000E-01	A	D	INDUSTR
TRUCK	PO210	6.0	1.1000E-02	0.	1.8333E-03	0.	A	ND	INDUSTR
TRUCK	RA226	2.0	1.0000E-01	1.4000E+01	5.0000E-02	7.0000E+00	A	ND	INDUSTR
TRUCK	RA226	24.0	2.4000E-05	1.2000E+00	1.0000E-06	5.0000E-02	B	ND	INDUSTR
TRUCK	RA226	2.0	9.0000E-03	0.	4.5000E-03	0.	E	ND	INDUSTR
TRUCK	CO 60	14.0	1.4500E+02	6.6000E+00	1.0357E+01	4.7143E-01	A	D	MED-IND
TRUCK	CO 60	18.1	5.7808E+00	1.0274E+01	3.1950E-01	5.6787E-01	A	ND	MED-IND
TRUCK	CO 60	4.0	1.0220E+03	4.0000E-01	2.5550E+02	1.0000E-01	B	D	MED-IND
TRUCK	CO 60	8.0	3.0099E+05	9.0000E+00	3.7624E+04	1.1250E+00	B	ND	MED-IND
TRUCK	CO 60	10.0	5.3400E-04	2.4000E-01	5.3400E-05	2.4000E-02	A	ND	MED-IND
TRUCK	CO 60	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	MED-IND
TRUCK	C 14	52.0	2.6000E-02	0.	5.0000E-04	0.	A	D	MEDICAL
TRUCK	CD109	2.0	4.0000E-03	0.	2.0000E-03	0.	E	ND	MEDICAL
TRUCK	CO 57	2.0	2.0000E-03	2.0000E-02	1.0000E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	I 125	4.3	1.3000E-01	0.	3.0000E-02	0.	A	D	MEDICAL
TRUCK	MC 99	52.0	2.9380E+01	1.1440E+02	5.6500E-01	2.2000E+00	A	ND	MEDICAL

TABLE A- 46

CITY LAT = 3.7790000E+01 CITY LONG = 1.2234000E+02 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = SAN FRANCISCO TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MC	2.0	4.0000E-07	2.0000E-01	2.0000E-07	1.0000E-01	E	D	FUEL CY
AUTOMOBILE	MF	16.0	1.6000E-05 *	1.6000E+00	1.0000E-06 *	1.0000E-01	A	ND	FUEL CY
AUTOMOBILE	PU239	1.0	1.0000E-04 *	0.	1.0000E-04 *	0.	A	ND	FUEL CY
AUTOMOBILE	TH232	2.0	1.0000E+01 *	0.	5.0000E+00 *	0.	E	ND	FUEL CY
AUTOMOBILE	U 235	1.0	5.0000E+01 *	1.0000E-01	5.0000E+01 *	1.0000E-01	A	D	FUEL CY
AUTOMOBILE	U 235	1.0	5.0000E-01 *	0.	5.0000E-01 *	0.	A	ND	FUEL CY
AUTOMOBILE	U 235	1.0	1.0000E+01 *	1.0000E-01	1.0000E+01 *	1.0000E-01	E	D	FUEL CY
AUTOMOBILE	U 235	2.0	6.7400E+01 *	0.	3.3700E+01 *	0.	E	ND	FUEL CY
AUTOMOBILE	CS137	2.0	2.8000E-05	0.	1.4000E-05	0.	A	ND	INDUSTR
AUTOMOBILE	C 14	2.0	3.6000E-03	2.0000E-02	1.8000E-03	1.0000E-02	A	D	MEDICAL
AUTOMOBILE	NA 24	62.0	6.2000E-05	3.9600E+01	1.0000E-06	6.3871E-01	A	D	MEDICAL
AUTOMOBILE	NI 63	2.0	3.0000E-02	0.	1.5000E-02	0.	A	ND	MEDICAL

TABLE A- 47

CITY LAT = 3.7790000E+01 CITY LONG = 1.2234000E+02 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = SAN FRANCISCO ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	U 235	12.1	4.8372E-06 *	1.2093E+00	4.0000E-07 *	1.0000E-01	A	D	FUEL CY

A43

TABLE A- 4R

CITY LAT = 3.7750000E+01 CITY LONG = 1.2214000E+02 CITY = SAN FRANCISCO RADIUS = 9.0500000E-01 TO OR FROM

MAJOR T. MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT	PU238	2.0	4.4400E+00	2.0000E-01	2.2200E+00	1.0000E-01	B	D	FUEL CY
AIR,FRT	PU238	1.0	3.0000E-04	0.0	3.0000E-04	0.0	E	ND	FUEL CY
AIR,FRT	PU239	1.0	1.1000E-01	0.0	1.1000E-01	0.0	B	ND	FUEL CY
AIR,FRT	PU240	1.0	1.5000E+01	0.0	1.5000E+01	0.0	A	ND	FUEL CY
AIR,FRT	PU241	1.0	5.0000E-03	0.0	5.0000E-03	0.0	A	ND	FUEL CY
AIR,FRT	PU244	2.0	2.5150E+02	1.0000E-01	1.2575E+02	5.0000E-02	A	ND	FUEL CY
AIR,FRT	U 233	13.1	1.9370E+01	1.0000E-01	1.4794E+00	7.6377E-03	A	ND	FUEL CY
AIR,FRT	U 235	3.0	1.1970E+03	0.0	3.9900E+02	0.0	A	D	FUEL CY
AIR,FRT	U 235	5.0	3.2483E+04	1.0000E-01	6.4967E+03	2.0000E-02	B	D	FUEL CY
AIR,FRT	U 235	12.0	3.9285E+00	0.0	3.2738E-01	0.0	E	D	FUEL CY
AIR,FRT	U 235	3.0	3.2000E-01	0.0	1.0667E-01	0.0	E	ND	FUEL CY
AIR,FRT	U 238	14.1	1.6002E+06	0.0	1.1355E+05	0.0	A	ND	FUEL CY
AIR,FRT	U 238	3.0	6.0120E+00	3.0000E-01	2.0040E+00	1.0000E-01	E	D	FUEL CY
AIR,FRT	AM241	1.0	2.5000E-01	2.5000E-01	2.5000E-01	2.5000E-01	A	ND	INDUSTR
AIR,FRT	CA 45	13.0	5.2000E-02	0.0	4.0000E-03	0.0	A	D	INDUSTR
AIR,FRT	CF252	4.0	8.0350E-02	1.7600E+01	2.0098E-02	4.0000E+00	A	ND	INDUSTR
AIR,FRT	CS137	2.0	2.0000E-05	2.0000E-01	1.0000E-05	1.0000E-01	A	ND	INDUSTR
AIR,FRT	FE 55	2.0	7.0000E-02	2.0000E-01	3.5000E-02	1.0000E-01	A	D	INDUSTR
AIR,FRT	H 3	6	6.1729E+03	0.0	1.2137E+01	0.0	A	D	INDUSTR
AIR,FRT	H 3	3	4.3333E-03	0.0	1.0000E-03	0.0	A	ND	INDUSTR
AIR,FRT	IR192	20.8	2.0800E+03	2.0800E+01	1.0000E+02	1.0000E+00	A	ND	INDUSTR
AIR,FRT	IR192	290.2	3.0451E+05	3.7800E+02	1.0494E+03	1.3028E+00	B	ND	INDUSTR
AIR,FRT	KR 85	26.2	6.6612E+02	2.3177E+01	2.5438E+01	8.8508E-01	A	D	INDUSTR
AIR,FRT	NP237	2.0	1.5000E-06	0.0	8.0000E-07	0.0	E	ND	INDUSTR
AIR,FRT	S 35	216.7	1.6077E+01	2.6000E+01	7.4200E-02	1.2000E-01	A	D	INDUSTR
AIR,FRT	S 35	2.0	2.0000E-02	2.0000E+00	1.0000E-02	1.0000E+00	A	ND	INDUSTR
AIR,FRT	SE 75	156.0	2.9133E+01	3.2760E+02	1.8675E-01	2.1000E+00	A	D	INDUSTR
AIR,FRT	SN113	52.0	1.5600E+01	1.5600E+02	3.0000E-01	3.0000E+00	A	D	INDUSTR
AIR,FRT	CO 60	2.0	1.6000E-05	2.0000E-01	8.0000E-06	1.0000E-01	A	ND	MED-IND
AIR,FRT	CR 51	56.3	9.5267E-02	5.6332E+00	1.5846E-03	1.0000E-01	A	D	MED-IND
AIR,FRT	XE133	428.2	1.1034E+04	1.5855E+03	2.5730E+00	3.7076E-01	A	D	MEDICAL
AIR,FRT	BK249	12.1	8.3442E+01	1.2052E+00	6.9000E+00	1.0000E-01	A	ND	MEDICAL
AIR,FRT	BK249	2.0	1.3400E+00	2.0000E-01	6.7000E-01	1.0000E-01	B	D	MEDICAL
AIR,FRT	C 14	513.3	3.2151E-01	2.8000E-01	6.2632E-04	5.4545E-04	A	D	MEDICAL
AIR,FRT	C 14	4.0	3.0000E-04	4.0000E-02	7.5000E-05	1.0000E-02	E	D	MEDICAL
AIR,FRT	CO 57	104.0	1.0400E-03	0.0	1.0000E-05	0.0	A	D	MEDICAL
AIR,FRT	CO 57	52.0	3.1200E-04	5.2000E+00	6.0000E-06	1.0000E-01	A	ND	MEDICAL
AIR,FRT	GA 67	312.0	3.0732E+01	1.1960E+02	5.8500E-02	3.8333E-01	A	D	MEDICAL
AIR,FRT	H6203	52.0	2.6000E+01	1.0400E+02	5.0000E-01	2.0000E+00	A	D	MEDICAL
AIR,FRT	I 125	567.9	3.3150E+00	1.347E+01	4.0794E-03	2.3327E-02	A	D	MEDICAL
AIR,FRT	I 131	868.3	5.3945E+00	6.1356E+02	6.2128E-03	7.0710E-01	A	D	MEDICAL
AIR,FRT	I 131	260.0	6.4428E-01	1.8200E+02	2.4780E-03	7.0000E-01	A	ND	MEDICAL
AIR,FRT	IN111	520.0	3.5724E+01	1.4040E+02	6.8700E-02	2.7000E-01	A	D	MEDICAL
AIR,FRT	X 42	24.2	5.4326E-01	1.4040E+02	2.9000E-02	2.3500E+00	A	D	MEDICAL
AIR,FRT	LU177	12.1	6.0465E-02	1.2052E+00	5.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT	MO 99	1404.0	1.7380E+04	8.5280E+03	1.2307E+01	6.0741E+00	A	D	MEDICAL
AIR,FRT	MO 99	260.0	3.454E+02	5.8760E+02	9.030E-01	2.2600E+00	A	ND	MEDICAL
AIR,FRT	MO 99	572.0	6.1501E+04	7.8000E+02	1.0100E+02	1.3636E+00	B	D	MEDICAL
AIR,FRT	NA 24	48.4	3.8698E-01	1.7172E+02	8.0000E-03	3.5500E+00	A	D	MEDICAL
AIR,FRT	P 32	368.3	5.5770E+02	2.0323E+02	2.6001E+00	5.5176E-01	A	D	MEDICAL

CITY LAT = 3.7790000E+01      CITY LONG = 1.2234000E+02      RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = SAN FRANCISCO      TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NLCLICE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	HB 86	12.1	1.2093E-02	4.8372E+00	1.0000E-03	4.0000E-01	A	D	MEDICAL
AIR,FRT.	TC 99M	52.0	2.2880E+00	0.	4.4000E-02	0.	A	D	MEDICAL
AIR,FRT.	TC 99P	12.1	6.1674E-01	0.	5.1000E-02	0.	A	ND	MEDICAL
AIR,FRT.	TL204	52.0	2.6000E+03	2.6000E+01	5.0000E-02	5.0000E-01	A	D	MEDICAL

TABLE A- 49

CITY LAT = 3.7790000E+01 CITY LONG = 1.2234000E+02 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = SAN FRANCISCO TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MC	2.0	4.0000E-02	2.0000E-01	2.0000E-02	1.0000E-01	A	D	FUEL CY
AIR,PASS.	MF	2.0	1.2000E-04	0.	6.0000E-05	0.	A	D	FUEL CY
AIR,PASS.	MF	6.0	8.0000E-03	4.0000E-02	1.3333E-03	6.6667E-03	A	ND	FUEL CY
AIR,PASS.	MF	4.0	1.0020E-03	0.	2.5050E-04	0.	E	ND	FUEL CY
AIR,PASS.	PU238	4.0	2.1500E+02	1.0000E-01	5.3750E+01	2.5000E-02	A	D	FUEL CY
AIR,PASS.	PU238	1.0	5.3000E-01	1.0000E-01	5.3000E-01	1.0000E-01	A	ND	FUEL CY
AIR,PASS.	PU238	1.0	2.4900E+02	5.6000E+00	2.4900E+02	5.6000E+00	B	ND	FUEL CY
AIR,PASS.	PU230	1.0	1.0000E-06	0.	1.0000E-06	0.	E	ND	FUEL CY
AIR,PASS.	PU239	5.0	1.7851E+02	0.	3.5701E+01	0.	A	ND	FUEL CY
AIR,PASS.	PU239	3.0	1.2312E+02	6.0000E-01	4.1040E+01	2.0000E-01	B	ND	FUEL CY
AIR,PASS.	PU239	3.0	9.0000E-05	0.	3.0000E-05	0.	E	ND	FUEL CY
AIR,PASS.	PU244	1.0	2.0000E-04	0.	2.0000E-04	0.	A	ND	FUEL CY
AIR,PASS.	TH228	1.0	1.2000E-08	0.	1.2000E-08	0.	E	ND	FUEL CY
AIR,PASS.	TH232	1.0	3.5000E-02	0.	3.5000E-02	0.	A	ND	FUEL CY
AIR,PASS.	TH232	10.0	1.0820E+02	0.	1.0820E+01	0.	E	ND	FUEL CY
AIR,PASS.	U 233	1.0	1.0000E-03	0.	1.0000E-03	0.	A	D	FUEL CY
AIR,PASS.	U 235	61.4	2.3546E+02	2.0000E-01	3.8366E+00	3.2588E-03	A	D	FUEL CY
AIR,PASS.	U 235	4.0	3.0500E+02	2.0000E-01	7.6251E+01	5.0000E-02	A	ND	FUEL CY
AIR,PASS.	U 235	1.0	2.3200E+02	0.	2.3200E+02	0.	B	D	FUEL CY
AIR,PASS.	U 235	33.0	7.2729E+01	1.0000E-01	2.2039E+00	3.0303E-03	E	D	FUEL CY
AIR,PASS.	U 235	32.0	1.4848E+03	0.	4.6401E+01	0.	E	ND	FUEL CY
AIR,PASS.	U 238	640.9	8.8055E+06	1.9712E+01	1.3739E+04	3.0755E-02	A	ND	FUEL CY
AIR,PASS.	U 238	1.0	1.0000E-06	0.	1.0000E-06	0.	E	D	FUEL CY
AIR,PASS.	U 238	3.0	4.7300E+02	0.	1.5767E+02	0.	E	ND	FUEL CY
AIR,PASS.	CS137	2.0	1.7600E+02	2.0000E-01	8.8000E+01	1.0000E-01	A	ND	INDUSTR
AIR,PASS.	CS137	2.0	2.0000E-01	4.0000E+00	1.0000E-01	2.0000E+00	E	D	INDUSTR
AIR,PASS.	FE 55	10.0	8.1080E-02	0.	8.1080E-03	0.	A	D	INDUSTR
AIR,PASS.	H 3	382.7	4.5495E+00	0.	1.1889E-02	0.	A	D	INDUSTR
AIR,PASS.	H 3	4.3	4.3333E-01	0.	1.0000E-01	0.	A	ND	INDUSTR
AIR,PASS.	H 3	16.0	4.4479E-01	0.	2.7799E-02	0.	E	D	INDUSTR
AIR,PASS.	KR 85	6.0	2.2020E+00	4.0000E-01	3.6700E-01	6.6667E-02	A	D	INDUSTR
AIR,PASS.	KR 85	12.1	3.6279E-04	0.	3.0000E-05	0.	E	D	INDUSTR
AIR,PASS.	PO210	12.0	7.2000E-02	0.	6.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	RA226	2.0	2.0000E-04	2.0000E-01	1.0000E-04	1.0000E-01	A	D	INDUSTR
AIR,PASS.	SE 75	884.0	4.2900E-01	2.4440E+02	4.8529E-04	2.7647E-01	A	D	INDUSTR
AIR,PASS.	CR 51	212.3	3.4840E-01	7.8433E+01	1.6408E-03	3.6939E-01	A	D	MED-IND
AIR,PASS.	XC133	458.0	7.2119E+02	1.8200E+02	8.4055E-01	2.1212E-01	A	D	MED-IND
AIR,PASS.	BK249	2.0	3.4000E-01	4.0000E-01	1.7000E-01	2.0000E-01	A	D	MEDICAL
AIR,PASS.	C 14	214.3	2.8173E-02	0.	1.3145E-04	0.	A	D	MEDICAL
AIR,PASS.	C 14	4.0	2.0200E-03	0.	5.0500E-04	0.	E	D	MEDICAL
AIR,PASS.	CO 57	52.0	5.2000E-02	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	CO 57	104.0	1.3312E-01	0.	1.2800E-03	0.	E	D	MEDICAL
AIR,PASS.	CO 58	2.0	6.0000E-03	0.	3.0000E-03	0.	A	ND	MEDICAL
AIR,PASS.	GA 67	888.3	1.3182E+01	1.5643E+02	1.4839E-02	1.7610E-01	A	D	MEDICAL
AIR,PASS.	HG197	208.0	3.6400E-01	5.7200E+01	1.7500E-03	2.7500E-01	A	D	MEDICAL
AIR,PASS.	I 123	52.0	8.8400E-02	1.3000E+01	1.7000E-03	2.5000E-01	A	D	MEDICAL
AIR,PASS.	I 123	624.0	4.5396E+00	2.6520E+02	7.2750E-03	4.2500E-01	A	ND	MEDICAL
AIR,PASS.	I 125	780.0	3.3755E-01	6.2400E+01	4.3276E-04	8.0000E-02	A	D	MEDICAL
AIR,PASS.	I 125	54.0	2.2800E-04	0.	4.2222E-06	0.	E	D	MEDICAL
AIR,PASS.	I 131	3248.2	2.1777E+01	1.3445E+03	6.7043E-03	4.1404E-01	A	D	MEDICAL



CITY LAT = 3.7790000E+01 CITY LONG = 1.2234000E+02 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = SAN FRANCISCO TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	IN111	572.0	1.3078E+01	5.2000E+00	2.2864E-02	9.0909E-03	A	D	MEDICAL
AIR,PASS.	MO 99	450.7	9.3288E+02	1.4508E+03	2.0700E+00	3.2192E+00	A	D	MEDICAL
AIR,PASS.	MO 99	52.0	5.8708E+01	8.3200E+01	1.1290E+00	1.6000E+00	A	NO	MEDICAL
AIR,PASS.	MO 99	936.0	1.3491E+05	2.1060E+03	1.4414E+02	2.2500E+00	B	D	MEDICAL
AIR,PASS.	NI 63	2.0	3.0000E-02	0.	1.5000E-02	0.	A	NO	MEDICAL
AIR,PASS.	P 32	111.3	2.0000E+00	3.1200E+01	1.7967E-02	2.8024E-01	A	D	MEDICAL
AIR,PASS.	SR 82	2.0	4.0000E-04	1.0000E+00	2.0000E-04	5.0000E-01	A	D	MEDICAL
AIR,PASS.	TA182	2.0	1.0000E-04	0.	5.0000E-05	0.	A	D	MEDICAL
AIR,PASS.	TC 99M	624.0	1.3182E+02	4.6800E+01	2.1125E-01	7.5000E-02	A	D	MEDICAL
AIR,PASS.	TL201	6.0	8.0214E+00	4.2000E+00	1.3369E+00	7.0000E-01	A	D	MEDICAL
AIR,PASS.	TL204	2.0	2.0000E-04	0.	1.0000E-04	0.	A	D	MEDICAL
AIR,PASS.	YB169	4.0	5.1560E+00	5.0000E-01	1.2890E+00	1.2500E-01	A	D	MEDICAL
AIR,PASS.	W	12.1	2.4186E-01	1.6920E+01	2.0000E-02	1.4000E+00	A	D	WASTE

TABLE A- 50

CITY LAT = 3.7790000E+01 CITY LONG = 1.2234000E+02 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = SAN FRANCISCO ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	I 131	52.0	1.0400E-01	0.	2.0000E-03	0.	A	D	MEDICAL

TABLE A- 51

CITY LAT = 3.7790000E+01 CITY LONG = 1.2234000E+02 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = SAN FRANCISCO TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	U 235	7274.0	4.4756E+06	1.81E+03	6.1529E+02	2.5000E-01	B	D	FUEL CY
SHIP	U 235	7.0	2.5090E-01	1.0000E-01	3.5843E-02	1.4236E-02	E	D	FUEL CY
SHIP	U 238	617.0	8.5481E+06	1.5425E+02	1.3854E+04	2.5000E-01	B	D	FUEL CY
SHIP	KR 85	46.0	3.2420E+01	4.6000E+00	7.0478E-01	1.0000E-01	A	D	INDUSTR



TABLE A- 52

CITY LAT = 3.7790000E+01 CITY LONG = 1.2234000E+02 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = SAN FRANCISCO TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	8.0	7.3800E-02	4.2000E+00	9.2250E-03	5.2500E-01	A	D	FUEL CY
TRUCK	MF	38.0	5.9200E-01	2.0000E+01	1.5579E-02	5.2632E-01	A	D	FUEL CY
TRUCK	MF	4.0	1.0200E-02	0.	2.5500E-03	0.	A	ND	FUEL CY
TRUCK	MF	2.0	4.0000E+01	1.0000E+01	2.0000E+01	5.0000E+00	B	D	FUEL CY
TRUCK	MF	2.0	2.0000E-01	6.0000E+00	1.0000E-01	3.0000E+00	B	ND	FUEL CY
TRUCK	MF	230.0	6.6396E+04	6.9000E+02	2.8868E+02	3.0000E+00	E	ND	FUEL CY
TRUCK	PU238	1.0	1.1000E+00	1.5000E+00	1.1000E+00	1.5000E+00	A	ND	FUEL CY
TRUCK	PU238	4.0	2.2810E+01	4.5500E+00	5.7025E+00	1.1375E+00	B	D	FUEL CY
TRUCK	PU238	1.0	2.7000E+00	3.0000E-01	2.7000E+00	3.0000E-01	B	ND	FUEL CY
TRUCK	PU239	11.0	2.5000E-02	1.1000E+00	2.2727E-03	1.0000E-01	A	D	FUEL CY
TRUCK	PU239	1.0	3.0000E-06	0.	3.0000E-06	0.	A	ND	FUEL CY
TRUCK	PU239	3.0	5.2400E+02	3.2000E+01	1.7467E+02	1.0667E+01	B	D	FUEL CY
TRUCK	PU239	5.0	1.7626E+02	3.2400E+01	3.5252E+01	6.4800E+00	B	ND	FUEL CY
TRUCK	PU239	1.0	2.4000E-05	0.	2.4000E-05	0.	E	D	FUEL CY
TRUCK	PU241	1.0	2.6000E-02	2.0000E+00	2.6000E-02	2.0000E+00	B	D	FUEL CY
TRUCK	PU242	2.0	3.6600E+02	6.0000E+00	1.8300E+02	3.0000E+00	B	D	FUEL CY
TRUCK	U 235	126.2	2.1922E+04	4.7115E+01	1.7372E+02	3.7341E-01	A	D	FUEL CY
TRUCK	U 235	6.0	5.6020E+02	1.4400E+01	9.3367E+01	2.4000E+00	A	ND	FUEL CY
TRUCK	U 235	963.0	2.3786E+05	2.7865E+02	2.4699E+02	2.6936E-01	B	D	FUEL CY
TRUCK	U 235	7.0	2.8510E+04	3.0300E+01	4.0729E+03	4.3286E+00	B	ND	FUEL CY
TRUCK	U 235	226.0	1.2502E+03	2.3000E+00	5.5320E+00	1.0177E-02	E	D	FUEL CY
TRUCK	U 235	11.0	2.0620E+02	0.	1.8745E+01	0.	F	ND	FUEL CY
TRUCK	U 235	3.0	1.8000E+01	0.	6.0000E+00	0.	LS	ND	FUEL CY
TRUCK	U 238	189.7	7.2614E+06	3.6988E+02	3.8269E+04	1.9492E+00	A	D	FUEL CY
TRUCK	U 238	1.0	2.0000E-01	1.0000E-01	2.0000E-01	1.0000E-01	A	ND	FUEL CY
TRUCK	U 238	12.0	5.2113E+05	6.5000E+00	4.3428E+04	5.4167E-01	B	D	FUEL CY
TRUCK	U 238	4.0	6.9000E+02	1.5000E-01	1.7250E+02	3.7500E-02	LS	ND	FUEL CY
TRUCK	AM241	8.0	8.5200E+01	8.8000E+00	1.0650E+01	1.1000E+00	A	ND	INDUSTR
TRUCK	CF252	2.0	4.3000E-01	1.0000E+01	2.1500E-01	5.0000E+00	A	ND	INDUSTR
TRUCK	CF252	6.0	2.8000E+00	3.3600E+01	4.6667E-01	5.6000E+00	B	ND	INDUSTR
TRUCK	CS137	4.0	3.2000E+00	2.0000E-01	8.0000E-01	5.0000E-02	A	ND	INDUSTR
TRUCK	CS137	6.0	6.0000E-04	6.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
TRUCK	H 3	22.1	5.1339E+04	6.0000E-02	2.3238E+03	2.7158E-03	A	D	INDUSTR
TRUCK	H 3	12.1	5.2105E+04	0.	1.0010E+03	0.	F	D	INDUSTR
TRUCK	IR192	176.0	1.0734E+05	2.4800E+02	6.0990E+02	1.4091E+00	B	ND	INDUSTR
TRUCK	IR192	34.0	4.7920E+03	0.	1.4094E+02	0.	E	ND	INDUSTR
TRUCK	KR 85	70.0	4.3800E+01	7.0000E+00	6.2571E-01	1.0000E-01	A	D	INDUSTR
TRUCK	PO210	156.0	5.9800E-01	0.	3.8333E-03	0.	E	D	INDUSTR
TRUCK	RA226	4.0	2.4000E+00	6.8000E+00	6.0000E-01	1.7000E+00	B	D	INDUSTR
TRUCK	CO 60	4.0	4.0020E+00	1.2000E+00	1.0005E+00	3.0000E-01	A	D	MED-IND
TRUCK	CO 60	4.0	4.0000E-03	8.0000E-01	1.0000E-03	2.0000E-01	E	D	MED-IND
TRUCK	CO 60	6.0	7.2000E-05	2.8000E-01	1.2000E-05	4.6667E-02	E	ND	MED-IND
TRUCK	CO 60	4.0	6.1000E-02	1.0200E+01	1.5250E-02	2.5500E+00	LS	D	MED-IND
TRUCK	XE133	1820.0	1.1372E+03	4.0300E+02	6.2486E-01	2.2143E-01	A	D	MED-IND
TRUCK	BK249	2.0	1.3400E+00	2.0000E-01	6.7000E-01	1.0000E-01	B	ND	MEDICAL
TRUCK	C 14	18.0	5.5400E-02	3.6000E-01	5.3000E-03	2.0000E-02	A	D	MEDICAL
TRUCK	FE 59	6.0	1.2000E-02	1.4000E+00	2.0000E-03	2.3333E-01	A	D	MEDICAL
TRUCK	GA 67	550.0	6.0380E+00	1.6954E+02	6.0990E-03	1.7125E-01	A	D	MEDICAL
TRUCK	I 123	312.0	3.1200E-01	3.6400E+01	1.0000E-03	1.1667E-01	A	D	MEDICAL
TRUCK	I 123	3120.0	1.1388E+00	3.2032E+02	3.6500E-04	1.0267E-01	A	ND	MEDICAL

CITY LAT = 3.7790000E+01 CITY LONG = 1.2234000E+02 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = SAN FRANCISCO TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	I 125	156.0	7.8000E-04	3.	5.0000E-06	0.	A	D	MEDICAL
TRUCK	I 131	10.0	2.5000E-03	6.0000E-03	2.5000E-04	6.0000E-04	A	D	MEDICAL
TRUCK	I 131	6.0	1.5000E-03	4.0000E-02	2.5000E-04	6.6667E-03	E	D	MEDICAL
TRUCK	IN111	1094.0	2.5250E+00	5.2020E+00	2.3080E-03	4.7550E-03	A	D	MEDICAL
TRUCK	MO 99	52.0	1.5080E+03	2.6000E+01	2.9000E+01	5.0000E-01	A	D	MEDICAL
TRUCK	MO 99	156.0	1.3208E+04	1.8200E+02	8.4667E+01	1.1667E+00	B	D	MEDICAL
TRUCK	NI 63	6.0	2.8000E-05	0.	6.3333E-06	0.	A	ND	MEDICAL
TRUCK	P 32	104.0	6.5520E+02	1.5600E+02	6.3000E+00	1.5000E+00	A	D	MEDICAL
TRUCK	TA182	6.0	2.8600E+00	3.4000E+00	4.7667E-01	5.6667E-01	A	ND	MEDICAL
TRUCK	TC 99M	17736.0	1.8347E+03	1.6380E+02	1.0344E-01	9.2355E-03	A	D	MEDICAL
TRUCK	TC 99M	18.0	1.8000E-02	6.0000E+00	1.0000E-03	3.3333E-01	E	D	MEDICAL
TRUCK	YB169	24.2	1.0279E+02	8.4651E+00	4.2500E+00	3.5000E-01	A	D	MEDICAL
TRUCK	W	184.0	6.4847E-01	0.	3.5243E-03	0.	A	D	WASTE
TRUCK	W	26.0	2.6000E-02	0.	1.0000E-03	0.	E	D	WASTE
TRUCK	W	932.0	7.7880E+00	0.	8.3562E-03	0.	LS	D	WASTE

TABLE A- 53

CITY LAT = 3.7790000E+01 CITY LONG = 1.2234000E+02 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = SAN FRANCISCO ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	KR 85	72.0	3.6000E-01	3.1600E+00	5.0000E-03	3.0000E-02	B	D	INDUSTR
TRUCK	P0210	104.0	3.3800E-01	0.	3.2500E-03	0.	E	D	INDUSTR

TABLE A- 54

CITY LAT = 3.8760000E+01 CITY LONG = 7.7290000E+01 RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = WASHINGTON TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MF	24.0	2.2200E-03	1.2000E+01	9.2500E-05	5.0000E-01	A	ND	FUEL CY
AUTOMOBILE	MF	2.0	2.0000E-03	1.0000E+00	1.0000E-03	5.0000E-01	E	ND	FUEL CY
AUTOMOBILE	PU238	5.0	1.2500E+00	2.0000E-01	2.5000E-01	4.0000E-02	A	ND	FUEL CY
AUTOMOBILE	U 235	48.4	1.8381E+01	1.9349E+02	3.8000E-01	4.0000E+00	A	D	FUEL CY
AUTOMOBILE	U 235	12.1	4.8372E-04	0.	4.0000E-05	0.	A	ND	FUEL CY
AUTOMOBILE	U 237	2.0	8.0000E-03	1.0000E+00	4.0000E-03	5.0000E-01	LS	D	FUEL CY
AUTOMOBILE	AM241	2.0	2.0000E-05	0.	1.0000E-05	0.	A	D	INDUSTR
AUTOMOBILE	EU152	2.0	2.0000E-03	0.	1.0000E-03	0.	E	D	INDUSTR
AUTOMOBILE	H 3	2.0	2.0000E-03	0.	1.0000E-03	0.	E	D	INDUSTR
AUTOMOBILE	CO 60	2.0	6.0000E-03	6.0000E-01	3.0000E-03	3.0000E-01	A	D	MED-IND
AUTOMOBILE	CU 64	2.0	2.0000E-03	0.	1.0000E-03	0.	E	ND	MEDICAL
AUTOMOBILE	I 125	2.0	2.0000E-03	0.	1.0000E-03	0.	E	ND	MEDICAL
AUTOMOBILE	I 131	12.1	1.8140E-04	0.	1.5000E-05	0.	A	D	MEDICAL
AUTOMOBILE	I 131	12.1	1.2093E-05	0.	1.0000E-06	0.	E	D	MEDICAL
AUTOMOBILE	NA 24	2.0	6.0000E-03	4.0000E-01	3.0000E-03	2.0000E-01	A	D	MEDICAL
AUTOMOBILE	TC 99P	266.0	5.6535E+01	1.0642E+03	2.1250E-01	4.0000E+00	A	D	MEDICAL

TABLE A- 55

CITY LAT = 3.8760000E+01 CITY LONG = 7.7290000E+01 RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = WASHINGTON ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	PU239	1.0	1.6000E-05	0.	1.6000E-05	0.	E	ND	FUEL CY
AUTOMOBILE	U 238	2.0	3.2010E+04	2.0000E-01	1.6005E+04	1.0000E-01	LS	D	FUEL CY

TARLF A- 56

CITY LAT = 3.8760000E+01		CITY LONG = 7.7290000E+01		RADIUS = 8.1800000E-01		TO OR FROM	
CITY = WASHINGTON		CITY = WASHINGTON		RADIUS = 8.1800000E-01		TO OR FROM	
MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	END USE
AIR,FRT	MF	4.0	2.0290E-05	8.0000E-02	5.0500E-06	2.0000E-02	FUEL CY
AIR,FRT	PU238	7.0	4.5098E+01	1.8500E+00	6.4426E+00	2.6429E-01	FUEL CY
AIR,FRT	PU239	1.0	6.1000E-02	0.	6.1000E-02	0.	FUEL CY
AIR,FRT	PU239	3.0	2.0552E+01	5.0000E-01	1.0184E+01	1.6667E-01	FUEL CY
AIR,FRT	PU239	4.0	2.1500E+01	0.	5.3750E+00	0.	FUEL CY
AIR,FRT	PU242	2.0	4.2600E-06	0.	2.1000E-06	0.	FUEL CY
AIR,FRT	YH228	1.0	1.8000E-08	1.0000E-01	1.8000E-08	1.0000E-01	FUEL CY
AIR,FRT	U 235	10.7	1.0600E-01	0.	9.9375E-03	0.	FUEL CY
AIR,FRT	U 235	50.0	6.5100E+03	0.	1.3020E+02	0.	FUEL CY
AIR,FRT	AM241	2.0	1.7420E-03	2.0000E-01	8.7100E-04	1.0000E-01	INDUSTR
AIR,FRT	FE 55	16.1	7.1205E-02	1.6092E+00	4.4246E-02	1.0000E-01	INDUSTR
AIR,FRT	H 3	114.7	4.6632E-01	2.0000E-01	4.0669E-03	1.7442E-03	INDUSTR
AIR,FRT	IR192	12.0	2.8800E-01	5.0000E+00	2.4000E-02	5.0000E-01	INDUSTR
AIR,FRT	IR192	2.0	2.0000E+02	4.0000E+00	1.0000E+02	2.0000E+00	INDUSTR
AIR,FRT	PO210	2.0	2.0000E-02	2.0000E-01	1.0000E-02	1.0000E-01	INDUSTR
AIR,FRT	PO210	52.0	1.0400E-01	0.	2.0000E-03	0.	INDUSTR
AIR,FRT	S 35	4.3	4.3333E-03	0.	1.0000E-03	0.	INDUSTR
AIR,FRT	CM244	2.0	1.2000E-03	2.0000E-01	6.0000E-04	1.0000E-01	INDUSTR
AIR,FRT	CO 60	8.0	4.7000E-05	8.0000E-01	5.8750E-06	1.0000E-01	MED-IND
AIR,FRT	CO 60	12.1	4.2326E-01	1.4512E+01	3.5000E-02	1.2000E+00	MED-IND
AIR,FRT	CR 51	13.0	1.7333E-01	1.3000E+00	1.3333E-02	1.0000E-01	MED-IND
AIR,FRT	C 14	64.3	1.1363E-01	8.0000E-02	1.7663E-03	1.2435E-03	MEDICAL
AIR,FRT	C 14	20.8	1.3726E-02	0.	6.6117E-04	0.	MEDICAL
AIR,FRT	CA 47	24.2	2.4186E-02	1.2052E+01	1.0000E-03	5.0000E-01	MEDICAL
AIR,FRT	CO 57	52.0	1.0400E-04	5.2000E+00	2.0000E-06	1.0000E-01	MEDICAL
AIR,FRT	CU 64	24.2	8.5488E-01	8.4651E+00	3.7000E-02	3.5000E-01	MEDICAL
AIR,FRT	GA 67	13.0	2.8200E-01	5.6322E+00	1.4000E-02	4.3333E-01	MEDICAL
AIR,FRT	I 125	238.3	1.8924E-01	1.0822E+01	7.9445E-04	4.5455E-02	MEDICAL
AIR,FRT	I 131	624.0	1.3988E+00	3.0680E+02	2.2475E-03	4.9167E-01	MEDICAL
AIR,FRT	I 131	416.0	6.0840E-01	1.7680E+02	1.4625E-03	4.2500E-01	MEDICAL
AIR,FRT	I 131	24.2	5.4809E+02	4.3522E+01	3.9200E+01	1.8000E+00	MEDICAL
AIR,FRT	K 42	60.5	7.0140E-01	4.9581E+01	1.1600E-02	8.2000E-01	MEDICAL
AIR,FRT	MO 99	676.0	5.7252E+02	1.2324E+03	8.4692E-01	1.8221E+00	MEDICAL
AIR,FRT	NA 24	48.4	3.8698E-01	1.8140E+02	8.0000E-03	3.7500E+00	MEDICAL
AIR,FRT	NI 63	2.0	6.0000E-06	2.0000E-01	3.0000E-06	1.0000E-01	MEDICAL
AIR,FRT	P 32	21.7	1.1700E-01	8.6667E-01	5.4000E-03	4.0000E-02	MEDICAL

TABLE A- 57

CITY LAT = 3.8760000E+01 CITY LONG = 7.7290000E+01 RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = WASHINGTON ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	2.0	2.0000E-06	0.	1.0000E-06	0.	A	ND	FUEL CY
AIR,FRT.	PU238	6.0	1.0950E+02	1.0000E+00	1.8250E+01	1.6667E-01	A	ND	FUEL CY
AIR,FRT.	PU239	8.0	2.8000E+02	0.	3.5000E+01	0.	A	ND	FUEL CY
AIR,FRT.	PU239	1.0	1.6000E+02	4.0000E+00	1.6000E+02	4.0000E+00	B	ND	FUEL CY
AIR,FRT.	PU242	2.0	1.0001E+01	2.0000E-01	5.0005E+00	1.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 233	1.0	1.2000E-01	4.0000E-01	1.2000E-01	4.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 235	104.0	3.4377E-01	5.2000E+01	3.3055E-03	5.0000E-01	A	D	FUEL CY
AIR,FRT.	U 235	1.0	1.0000E+02	0.	3.0000E+02	0.	A	ND	FUEL CY
AIR,FRT.	U 238	1.0	1.5000E+04	1.0000E+00	1.5000E+04	1.0000E+00	A	ND	FUEL CY
AIR,FRT.	AM241	1.0	3.0000E+00	3.5000E+00	3.0000E+00	3.5000E+00	A	ND	INDUS'R
AIR,FRT.	AM241	48.4	6.3325E+02	1.4512E+01	1.3091E+01	3.0000E-01	B	ND	INDUSTK
AIR,FRT.	H 3	309.1	1.1368E+05	0.	3.6779E+02	0.	A	D	INDUSTK
AIR,FRT.	IR192	75.2	2.4150E+03	6.4400E+01	3.2114E+01	8.5638E-01	A	ND	INDUSTK
AIR,FRT.	IR192	251.8	2.6240E+04	6.1459E+02	1.0421E+02	2.4408E+00	B	ND	INDUSTK
AIR,FRT.	KR 85	24.2	4.2930E+02	6.0465E+01	1.7750E+01	2.5000E+00	A	D	INDUSTK
AIR,FRT.	NA 22	4.3	4.3333E-04	4.3333E-01	1.0000E-04	1.0000E-01	A	D	INDUSTK
AIR,FRT.	PO210	52.0	2.6000E-02	0.	5.0000E-04	0.	E	D	INDUSTK
AIR,FRT.	S 35	8.7	6.5000E-02	0.	7.5000E-03	0.	A	D	INDUSTK
AIR,FRT.	SE 75	52.0	1.0400E-01	2.0800E+01	2.0000E-03	4.0000E-01	A	D	INDUSTK
AIR,FRT.	SR 89	12.1	1.2093E-01	2.4186E+00	1.0000E-02	2.0000E-01	A	D	INDUSTK
AIR,FRT.	CO 60	11.4	1.7100E-01	1.0900E+01	1.5000E-02	9.5614E-01	A	ND	MED-IND
AIR,FRT.	CR 51	69.3	1.2133E-01	6.9333E+00	1.7500E-03	1.0000E-01	A	D	MED-IND
AIR,FRT.	XE133	68.4	1.0621E+02	2.8419E+01	1.5522E+00	4.1532E-01	A	D	MED-IND
AIR,FRT.	C 14	188.7	2.1782E+02	2.6121E+02	1.1546E+00	1.3846E+00	A	D	MEDICAL
AIR,FRT.	CE144	24.2	2.4186E+01	7.2558E+01	1.0000E+00	3.0000E+00	A	D	MEDICAL
AIR,FRT.	CO 57	156.0	1.1440E-03	2.0800E+01	7.3333E-06	1.3333E-01	A	ND	MEDICAL
AIR,FRT.	CO 57	52.0	4.6800E-04	0.	9.0000E-06	0.	E	ND	MEDICAL
AIR,FRT.	FE 59	52.0	2.9640E-03	0.	5.7000E-05	0.	A	D	MEDICAL
AIR,FRT.	GA 67	21.7	2.4300E-01	1.4300E+01	1.1400E-02	6.6000E-01	A	D	MEDICAL
AIR,FRT.	HG197	52.0	4.2640E-01	5.2000E+00	8.2000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	365.6	4.4687E-01	2.1647E+01	1.2223E-03	5.9206E-02	A	D	MEDICAL
AIR,FRT.	I 131	1158.7	2.7131E+02	1.4738E+03	2.3415E-01	1.2719E+00	A	D	MEDICAL
AIR,FRT.	I 131	1092.0	2.9477E+00	7.0720E+02	2.6994E-03	6.4762E-01	A	ND	MEDICAL
AIR,FRT.	K 43	193.5	1.4512E+00	1.3060E+02	7.5000E-03	6.7500E-01	A	D	MEDICAL
AIR,FRT.	MO 99	65.0	4.6237E+01	2.6000E+01	7.1133E-01	4.0000E-01	A	D	MEDICAL
AIR,FRT.	MO 99	2964.0	2.4367E+03	4.8412E+03	8.2209E-01	8.6333E+00	A	ND	MEDICAL
AIR,FRT.	P 32	208.7	5.0276E+01	1.0661E+02	2.4090E-01	5.1082E-01	A	D	MEDICAL
AIR,FRT.	P 33	12.1	1.4512E+00	0.	1.2000E-01	0.	A	D	MEDICAL



TABLE A- 58

CITY LAT = 3.8760000E+01 CITY LONG = 7.7290000E+01 RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = WASHINGTON TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	PU238	4.0	2.1500E+02	0.	5.3750E+01	0.	A	D	FUEL CY
AIR,PASS.	PU238	86.0	6.2936E+01	4.0000E-01	7.3181E-01	4.6512E-03	A	ND	FUEL CY
AIR,PASS.	PU238	3.0	8.3000E+00	3.0000E-01	2.7667E+00	1.0000E-01	B	ND	FUEL CY
AIR,PASS.	PU239	1.0	4.7000E-01	1.0000E-01	4.7000E-01	1.0000E-01	E	ND	FUEL CY
AIR,PASS.	U 235	182.3	4.9049E+00	3.0000E-01	2.6911E-02	1.6460E-03	A	D	FUEL CY
AIR,PASS.	U 235	24.2	7.2800E-01	0.	3.0100E-02	0.	B	D	FUEL CY
AIR,PASS.	U 235	60.5	1.3302E-03	0.	2.2000E-05	0.	E	D	FUEL CY
AIR,PASS.	U 235	2.0	4.6420E+02	0.	2.3210E+02	0.	E	ND	FUEL CY
AIR,PASS.	U 238	13.1	9.7727E+03	1.3053E+00	7.4641E+02	1.0000E-01	A	D	FUEL CY
AIR,PASS.	AM241	24.2	1.6205E-04	0.	6.7000E-06	0.	E	D	INDUSTR
AIR,PASS.	CA 45	4.3	2.1667E-02	0.	5.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	CS137	12.1	6.7721E-04	0.	5.6000E-05	0.	A	D	INDUSTR
AIR,PASS.	CS137	12.1	4.5712E+00	2.4186E+01	3.7800E-01	2.0000E+00	A	ND	INDUSTR
AIR,PASS.	FE 55	2.0	7.0000E-02	0.	3.5000E-02	0.	A	D	INDUSTR
AIR,PASS.	H 3	781.1	3.4245E+00	1.2253E+01	4.3842E-03	1.5738E-02	A	D	INDUSTR
AIR,PASS.	H 3	12.1	4.8372E-05	0.	4.0000E-06	0.	E	D	INDUSTR
AIR,PASS.	KR 85	84.7	1.0642E-03	0.	1.2571E-05	0.	E	D	INDUSTR
AIR,PASS.	PO210	2.0	6.0000E-02	2.0000E-01	3.0000E-02	1.0000E-01	B	D	INDUSTR
AIR,PASS.	RA226	12.1	2.4186E-03	1.2053E+01	2.0000E-04	1.0000E+00	A	D	INDUSTR
AIR,PASS.	S 35	56.3	2.6433E-01	0.	4.6923E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	12.1	7.2558E-06	0.	6.0000E-07	0.	E	D	INDUSTR
AIR,PASS.	CO 60	2.0	5.6000E-07	2.0000E-01	2.8000E-07	1.0000E-01	A	D	MED-IND
AIR,PASS.	CR 51	268.7	1.2099E+00	3.7267E+01	4.5032E-03	1.3871E-01	A	D	MED-IND
AIR,PASS.	XE127	2.0	9.0000E-02	2.0000E-01	4.5000E-02	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	4.3	8.6667E-01	0.	2.0000E-01	0.	A	D	MED-IND
AIR,PASS.	C 14	211.1	1.0918E-01	0.	3.5096E-04	0.	A	D	MEDICAL
AIR,PASS.	CO109	12.1	3.6279E-05	0.	3.0000E-06	0.	E	D	MEDICAL
AIR,PASS.	CO 57	12.1	2.4186E-01	0.	2.0000E-02	0.	A	D	MEDICAL
AIR,PASS.	CO 57	52.0	1.5600E-04	1.0400E+01	3.0000E-06	2.0000E-01	A	ND	MEDICAL
AIR,PASS.	CO 57	12.1	3.6279E-05	0.	3.0000E-06	0.	E	D	MEDICAL
AIR,PASS.	GA 67	4.3	1.0400E-01	8.6667E+00	2.4000E-02	2.0000E+00	A	D	MEDICAL
AIR,PASS.	HG197	52.0	5.2000E-02	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	I 125	627.4	3.1129E+00	3.1633E+01	4.9613E-03	5.0418E-02	A	D	MEDICAL
AIR,PASS.	I 131	832.7	1.2621E+01	6.0495E+02	1.5157E-02	7.2649E-01	A	D	MEDICAL
AIR,PASS.	I 131	156.0	2.2880E-01	6.2400E+01	1.4667E-03	4.0000E-01	A	ND	MEDICAL
AIR,PASS.	I 131	12.1	3.9786E+02	3.3860E+01	3.2900E+01	2.8000E+00	B	D	MEDICAL
AIR,PASS.	P 32	138.7	1.0140E+00	1.7333E+00	7.3125E-03	1.2500E-02	A	D	MEDICAL
AIR,PASS.	P 33	4.3	4.3333E-02	0.	1.0000E-02	0.	A	D	MEDICAL
AIR,PASS.	SC 46	52.0	2.6000E-01	1.4560E+02	5.0000E-03	2.8000E+00	A	D	MEDICAL
AIR,PASS.	TC 99F	104.0	5.2000E+00	1.5600E+01	5.0000E-02	1.5000E-01	A	D	MEDICAL
AIR,PASS.	W	2.0	2.0000E-03	1.0000E+00	1.0000E-03	5.0000E-01	LS	ND	WASTE

TABLE A- 59

CITY LAT = 3.8760000E+01 CITY LONG = 7.7290000E+01 RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = WASHINGTON ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MF	2.0	2.0000E-03	1.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,PASS.	PU236	1.0	5.0000E-04	2.0000E-01	5.0000E-04	2.0000E-01	A	D	FUEL CY
AIR,PASS.	PU238	1.0	3.5000E+00	1.0000E-01	3.5000E+00	1.0000E-01	A	ND	FUEL CY
AIR,PASS.	PU238	1.0	2.1000E+00	1.0000E+01	2.1000E+00	1.0000E+01	B	ND	FUEL CY
AIR,PASS.	PU239	1.0	5.0000E-01	0.	5.0000E-01	0.	A	ND	FUEL CY
AIR,PASS.	PU240	1.0	6.6000E-04	0.	6.6000E-04	0.	A	ND	FUEL CY
AIR,PASS.	PU241	1.0	1.0000E-02	0.	1.0000E-02	0.	A	ND	FUEL CY
AIR,PASS.	PU242	5.0	5.3300E-01	0.	1.0660E-01	0.	A	ND	FUEL CY
AIR,PASS.	U 233	4.0	2.2415E+02	4.0000E-01	5.6038E+01	1.0000E-01	A	ND	FUEL CY
AIR,PASS.	U 235	229.7	2.3179E+00	3.1243E+02	1.0092E-02	1.3604E+00	A	D	FUEL CY
AIR,PASS.	U 235	12.0	8.6003E-01	6.0000E-01	7.1670E-02	5.0000E-02	A	ND	FUEL CY
AIR,PASS.	L 235	2.0	1.6000E-01	2.0000E-01	8.0000E-02	1.0000E-01	B	ND	FUEL CY
AIR,PASS.	U 235	5.0	5.9000E+01	0.	1.1800E+01	0.	E	D	FUEL CY
AIR,PASS.	U 236	1.0	3.0000E-01	1.0000E-01	3.0000E-01	1.0000E-01	A	N.	FUEL CY
AIR,PASS.	U 238	40.0	3.0869E+05	4.0000E+00	7.7174E+03	1.0000E-01	LS	D	FUEL CY
AIR,PASS.	U 238	1.0	8.9000E+03	0.	8.9000E+03	0.	LS	ND	FUEL CY
AIR,PASS.	AM241	2.0	2.0000E-07	0.	1.0000E-07	0.	A	D	INDUSTR
AIR,PASS.	AM241	32.0	2.0100E+00	0.	6.2813E-02	0.	A	ND	INDUSTR
AIR,PASS.	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	E	ND	INDUSTR
AIR,PASS.	CA 45	4.3	4.3323E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	CF252	2.0	5.4000E-02	1.0000E+01	2.7000E-02	5.0000E+00	A	ND	INDUSTR
AIR,PASS.	CS137	12.1	3.5312E+00	1.2053E+01	2.9200E-01	1.0000E+00	A	ND	INDUSTR
AIR,PASS.	FE 55	2.0	4.0000E-02	0.	2.0000E-02	0.	E	ND	INDUSTR
AIR,PASS.	H 3	680.0	2.5025E+00	2.0000E-01	3.6801E-03	2.9412E-04	A	D	INDUSTR
AIR,PASS.	H 3	1.0	1.2500E+00	0.	1.2500E+00	0.	A	ND	INDUSTR
AIR,PASS.	IR192	20.0	2.5040E+02	3.4600E+01	1.2520E+01	1.7300E+00	A	ND	INDUSTR
AIR,PASS.	S 35	13.0	3.4667E-02	0.	2.6667E-03	0.	A	D	INDUSTR
AIR,PASS.	SR 89	12.1	5.4419E-01	4.8372E+00	4.5000E-02	4.0000E-01	A	D	INDUSTR
AIR,PASS.	CM244	12.1	2.4186E+02	0.	2.0000E+01	0.	A	D	MED-IND
AIR,PASS.	CO 60	52.0	2.6000E-04	1.0400E+01	5.0000E-06	2.0000E-01	A	D	MED-IND
AIR,PASS.	CR 51	234.0	2.6780E-01	2.3400E+01	1.1444E-03	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE127	8.0	7.8200E-01	1.6000E+00	9.7750E-02	2.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	193.0	1.3480E+02	2.1767E+01	6.9850E-01	1.1279E-01	A	D	MED-IND
AIR,PASS.	AU198	100.4	8.2051E-01	6.6874E+01	8.1747E-03	6.6627E-01	A	D	MEDICAL
AIR,PASS.	C 14	511.3	1.3173E-01	0.	2.5763E-04	0.	A	D	MEDICAL
AIR,PASS.	CD109	4.0	1.0020E-02	0.	2.5050E-03	0.	A	ND	MEDICAL
AIR,PASS.	CO 57	336.2	1.4516E+01	7.8424E+01	4.3177E-02	2.3345E-01	A	D	MEDICAL
AIR,PASS.	CO 57	156.0	1.1440E-03	2.0800E+01	7.3333E-06	1.3333E-01	A	ND	MEDICAL
AIR,PASS.	FE 59	4.3	2.1667E-03	8.6667E-01	5.0000E-04	2.0000E-01	A	D	MEDICAL
AIR,PASS.	GA 67	315.3	3.4580E+00	5.8500E+01	1.0932E-02	1.8493E-01	A	D	MEDICAL
AIR,PASS.	HG197	52.0	8.8400E-02	1.5600E+01	1.7000E-03	3.0000E-01	A	ND	MEDICAL
AIR,PASS.	I 125	1588.0	7.8658E-01	9.4900E+01	4.9533E-04	5.7761E-02	A	D	MEDICAL
AIR,PASS.	I 131	2848.6	1.4484E+02	2.7912E+03	5.0847E-02	9.7985E-01	A	D	MEDICAL
AIR,PASS.	I 131	3328.0	8.8750E+00	2.0426E+03	2.6668E-03	6.1406E-01	A	ND	MEDICAL
AIR,PASS.	IN111	208.0	1.1960E+00	0.	5.7500E-03	0.	A	D	MEDICAL
AIR,PASS.	K 43	24.2	4.8372E-02	9.6744E+00	2.0000E-03	4.0000E-01	A	D	MEDICAL
AIR,PASS.	MG 28	6.0	1.8200E+03	8.0000E+00	3.0333E+02	1.3333E+00	A	D	MEDICAL
AIR,PASS.	MO 99	108.3	1.3585E+02	2.4787E+02	1.2540E+00	2.2880E+00	A	D	MEDICAL
AIR,PASS.	MO 99	6656.0	5.8006E+03	1.2163E+04	8.7149E-01	1.8273E+00	A	ND	MEDICAL
AIR,PASS.	P 32	159.3	2.1155E+00	2.7300E+01	1.0613E-02	1.3696E-01	A	D	MEDICAL
AIR,PASS.	TC 99M	208.0	5.7226E+00	1.5600E+01	2.7513E-02	7.5000E-02	A	D	MEDICAL



TABLE A- 60

CITY LAT = 3.8760000E+01      CITY LONG = 7.7290000E+01      RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = WASHINGTON      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	PU239	1.0	1.3500E+02 *	0.	1.3500E+02 *	0.	B	D	FUEL CY
SHIP	U 235	1.0	1.2588E+04 *	2.5000E+01	1.2588E+04 *	2.5000E+01	B	D	FUEL CY
SHIP	U 235	165.0	5.5900E+06 *	7.6780E+02	3.3879E+04 *	4.6533E+00	B	NO	FUEL CY
SHIP	KR 85	10.0	5.0000E+00	1.0000E+00	5.0000E-01	1.0000E-01	A	D	INDUSTR

TABLE A- 61

CITY LAT = 3.8760000E+01 CITY LONG = 7.7290000E+01 RADIUS = 8.1800000E-03  
 \* \* \* \* \* CITY = WASHINGTON TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MF	8.0	8.0000E-05 *	1.6000E-01	1.0000E-05 *	2.0000E-02	E	ND	FUEL CY
TRUCK	PU238	1.0	2.4000E+00 *	1.1000E+00	2.4000E+00 *	1.1000E+00	A	ND	FUEL CY
TRUCK	PU238	4.0	1.8824E+01 *	4.0000E+00	4.7060E+00 *	1.0000E+00	B	ND	FUEL CY
TRUCK	PU239	1.0	8.1000E+01 *	4.0000E+00	8.1000E+01 *	4.0000E+00	A	ND	FUEL CY
TRUCK	SF	1.0	5.1000E+04 *	3.0000E+00	5.1000E+04 *	3.0000E+00	LQ	ND	FUEL CY
TRUCK	U 233	1.0	1.0000E-01 *	0.	1.0000E-01 *	0.	A	ND	FUEL CY
TRUCK	U 235	11.0	2.0186E+05 *	2.3900E+01	1.8351E+04 *	2.1727E+00	B	ND	FUEL CY
TRUCK	U 235	4.0	1.2000E-01 *	0.	3.0000E-02 *	0.	E	D	FUEL CY
TRUCK	U 235	1.0	2.0000E-02 *	0.	2.0000E-02 *	0.	LS	ND	FUEL CY
TRUCK	CF252	2.0	3.2000E-02	4.0000E-01	1.6000E-02	2.0000E-01	A	D	INDUSTR
TRUCK	CS 37	1.0	1.0000E-01	0.	1.0000E-01	0.	A	ND	INDUSTR
TRUCK	CS137	4.0	4.0000E-04	4.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
TRUCK	H 3	16.0	1.6027E+02	1.4000E+00	1.0017E+01	8.7500E-02	A	D	INDUSTR
TRUCK	IR192	36.3	5.0698E+01	1.5600E+02	2.5000E+00	4.3000E+00	A	ND	INDUSTR
TRUCK	KR 85	2.0	2.0000E+00	2.0000E-01	1.0000E+00	1.0000E-01	A	D	INDUSTR
TRUCK	RA226	2.0	2.0000E-04	4.0000E-01	1.0000E-04	2.0000E-01	A	D	INDUSTR
TRUCK	SE 75	156.0	7.8026E-02	4.6800E+01	5.0017E-04	3.0000E-01	A	D	INDUSTR
TRUCK	CO 60	2.0	2.0000E-03	2.0000E-01	1.0000E-03	1.0000E-01	A	D	MED-IND
TRUCK	CO 60	2.0	7.0000E-02	2.4000E+00	3.5000E-02	1.2000E+00	A	ND	MED-IND
TRUCK	CO 60	4.0	1.1088E+04	2.6000E+00	2.7720E+03	6.5000E-01	B	ND	MED-IND
TRUCK	CO 60	4.0	4.0000E-04	4.0000E-02	1.0000E-04	1.0000E-02	LS	D	MED-IND
TRUCK	XE133	208.0	2.6000E+00	0.	1.2500E-02	0.	A	D	MED-IND
TRUCK	C 14	52.0	2.6000E-03	0.	5.0000E-05	0.	A	D	MEDICAL
TRUCK	CO 57	4.0	4.0000E-03	4.0000E-02	1.0000E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	GA 67	104.0	4.6800E-01	5.2000E+00	4.5000E-03	5.0000E-02	A	D	MEDICAL
TRUCK	I 123	416.0	5.2000E-01	3.6400E+01	1.2500E-03	8.7500E-02	A	D	MEDICAL
TRUCK	I 125	326.1	1.2593E-01	2.6186E+00	8.619E-04	8.0302E-03	A	D	MEDICAL
TRUCK	I 131	794.1	1.2567E+01	2.8838E+02	1.5826E-02	3.6315E-01	A	D	MEDICAL
TRUCK	IN111	260.0	5.7200E-01	0.	2.2000E-03	0.	A	D	MEDICAL
TRUCK	MO 99	76.2	1.5576E+02	2.6810E+02	2.0444E+00	3.5190E+00	A	D	MEDICAL
TRUCK	NA 24	10.0	1.1200E-02	3.4000E+00	1.1200E-03	3.4000E-01	A	D	MEDICAL
TRUCK	P 32	166.0	1.6350E+00	3.2200E+01	9.8494E-03	1.9398E-01	A	D	MEDICAL
TRUCK	Rb 86	2.0	2.0000E-03	2.0000E-01	1.0000E-03	1.0000E-01	A	D	MEDICAL
TRUCK	SR 85	8.0	2.0000E-02	8.0000E-01	2.5000E-03	1.0000E-01	A	D	MEDICAL
TRUCK	TC 99M	1872.0	1.6926E+02	2.8080E+02	9.0417E-02	1.5000E-01	A	D	MEDICAL
TRUCK	YB:69	2.0	2.0000E-03	4.0000E-01	1.0000E-03	2.0000E-01	A	D	MEDICAL
TRUCK	W	22.0	5.3207E+02 *	8.8000E+01	2.4185E+01 *	4.0000E+00	A	D	WASTE
TRUCK	W	172.0	1.0580E-03 *	0.	6.1512E-06 *	0.	LS	D	WASTE
TRUCK	W	46.0	1.8400E+00 *	4.6000E+02	4.0000E-02 *	1.0000E+01	LS	ND	WASTE

TARLF A- 62

CITY LAT = 3.876000E+01 CITY LONG = 7.729000E+01 RADIUS = 8.180000E-01  
 CITY = WASHINGTON ACROSS

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	3712.6	2.1233E+03	6.3041E+04	5.7192E-01	1.6980E+01	A	D	FUEL CY
TRUCK	MC	474.5	1.9497E+02	0.	4.1089E-01	0.	LS	D	FUEL CY
TRUCK	MF	2.0	2.0000E-03	1.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
TRUCK	MF	900.2	3.5399E+01	0.	3.9322E-02	0.	LS	D	FUEL CY
TRUCK	PU238	2.0	2.4000E+00	0.	1.2000E+00	0.	A	ND	FUEL CY
TRUCK	PU238	4.0	4.7330E+03	5.6000E+01	1.1833E+03	1.4000E+01	LQ	ND	FUEL CY
TRUCK	U 235	7.0	2.1160E+03	2.5000E-01	3.0229E+02	3.5714E-02	A	D	FUEL CY
TRUCK	U 235	55.0	1.6354E+05	6.0000E-01	2.9734E+03	1.0909E-02	A	ND	FUEL CY
TRUCK	U 235	8.0	3.3200E+00	2.6500E+00	4.1500E-01	3.3125E-01	B	ND	FUEL CY
TRUCK	U 235	76.0	3.2497E+06	5.0000E-02	4.2759E+04	6.5789E-04	B	ND	FUEL CY
TRUCK	U 235	1.0	1.0000E-05	3.0000E-02	1.0000E-03	3.0000E-02	E	D	FUEL CY
TRUCK	U 235	913.9	4.3353E+03	2.7814E+03	4.7440E+00	3.0436E+00	LS	D	FUEL CY
TRUCK	U 235	1.0	4.0000E-03	0.	4.0000E-03	0.	LS	ND	FUEL CY
TRUCK	U 238	96.7	4.6789E+06	2.7205E+01	4.8364E+04	2.8125E-01	A	ND	FUEL CY
TRUCK	U 238	12.1	1.7996E+06	2.4186E+00	1.4881E+05	2.0000E-01	LS	ND	FUEL CY
TRUCK	AM241	24.2	4.9823E+03	0.	2.0000E-01	0.	A	ND	INDUSTR
TRUCK	AM241	4.0	4.0000E-02	2.6605E+01	2.0600E+02	1.1000E+00	B	ND	INDUSTR
TRUCK	CS137	1.0	5.0000E-02	0.	1.0000E-02	0.	E	ND	INDUSTR
TRUCK	CS137	3.3	1.3000E+00	0.	5.0000E-02	0.	A	ND	INDUSTR
TRUCK	EU152	12.1	2.4186E-02	9.6744E+00	2.0000E-03	8.0000E-01	LS	D	INDUSTR
TRUCK	FE 55	2.0	4.0000E-02	0.	2.0000E-02	0.	E	ND	INDUSTR
TRUCK	H 3	156.0	7.9300E-01	0.	5.0833E-03	0.	A	D	INDUSTR
TRUCK	H 3	82.0	6.7200E+02	0.	8.1951E+00	0.	B	D	INDUSTR
TRUCK	IR192	18.0	3.2280E+02	2.2200E+01	1.7933E+01	1.2333E+00	A	ND	INDUSTR
TRUCK	IR192	10.4	1.0400E+03	1.0400E+01	1.0000E+02	1.0000E+00	B	ND	INDUSTR
TRUCK	KR 85	68.5	3.6359E+03	2.0678E+02	5.3106E+01	3.0202E+00	A	D	INDUSTR
TRUCK	KR 85	4.0	2.0000E-02	1.2000E-01	5.0000E-03	3.0000E-02	B	D	INDUSTR
TRUCK	SE 75	364.0	1.6903E-01	8.3200E+01	4.6436E-04	2.2857E-01	A	D	INDUSTR
TRUCK	CO 60	8.0	2.9600E-02	0.	3.7000E-03	0.	A	D	MED-IND
TRUCK	CO 60	40.4	1.2575E+02	1.2400E+01	3.1127E+00	3.0693E-01	A	ND	MED-IND
TRUCK	CO 60	14.0	5.4430E+04	1.6400E+01	3.8879E+03	1.1714E+00	B	ND	MED-IND
TRUCK	CO 60	97.5	2.2471E+02	0.	2.3047E+00	0.	LS	D	MED-IND
TRUCK	CR 51	52.0	1.3000E+01	1.5600E+01	2.5000E-01	3.0000E-01	A	D	MED-IND
TRUCK	XE133	64.1	1.3029E+01	7.2558E+00	2.0328E-01	1.1321E-01	A	D	MED-IND
TRUCK	AU198	52.0	1.0400E-01	2.0800E+01	2.0000E-03	4.0000E-01	A	D	MEDICAL
TRUCK	C 14	312.0	4.9920E-02	0.	1.6000E-04	0.	A	D	MEDICAL
TRUCK	CD109	2.0	4.0000E-03	0.	2.0000E-03	0.	E	ND	MEDICAL
TRUCK	CO 57	2.0	8.8000E-05	2.0000E-01	4.4000E-05	1.0000E-01	A	ND	MEDICAL
TRUCK	CO 57	52.0	1.0400E-03	0.	2.0000E-05	0.	E	D	MEDICAL
TRUCK	CO 57	2.0	2.0000E-03	2.0000E-02	1.0000E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	FE 59	52.0	4.6800E-04	0.	9.0000E-06	0.	A	D	MEDICAL
TRUCK	GA 67	12.1	1.8260E+03	1.4512E+01	1.5100E+02	1.2000E+00	A	ND	MEDICAL
TRUCK	HG197	52.0	2.6000E-02	1.0400E+01	5.0000E-04	2.0000E-01	A	D	MEDICAL
TRUCK	I 125	104.0	1.6900E-03	1.5600E+01	1.6250E-05	1.5000E-01	A	D	MEDICAL
TRUCK	I 125	104.0	4.0040E-03	0.	3.8500E-05	0.	E	D	MEDICAL
TRUCK	I 129	200.0	1.4000E+01	0.	7.0000E-02	0.	E	D	MEDICAL
TRUCK	I 131	780.0	1.2223E+01	2.1320E+02	1.5670E-02	2.7333E-01	A	D	MEDICAL
TRUCK	MO 99	468.0	5.4080E+02	8.6320E+02	1.1556E+00	1.8444E+00	A	D	MEDICAL
TRUCK	MO 99	52.0	2.9380E+02	1.1440E+02	5.6500E-01	2.2000E+00	A	ND	MEDICAL
TRUCK	TC 99M	2236.0	1.9139E+02	7.7480E+02	8.5593E-02	3.4651E-01	A	D	MEDICAL
TRUCK	W	39.0	3.6202E+01	1.5000E+02	9.5268E-01	3.9474E+00	A	D	WASTE

TABLE A- 63

CITY LAT = 4.229000E+01		CITY LONG = 7.1050000E+01		RADIUS = 5.010000E-01		TO OR FROM			
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MF	28.0	2.6020E-02	2.6000E+01	5.2929E-04	9.2857E-01	A	ND	FUEL CY
AUTOMOBILE	U 235	26.0	6.5000E-02	0.	2.5000E-03	0.	A	D	FUEL CY
AUTOMOBILE	U 235	12.0	2.3480E-01	2.8000E+00	1.9567E-02	2.3333E-01	A	ND	FUEL CY
AUTOMOBILE	U 238	4.0	2.8900E+03	8.0000E+00	7.2250E+02	2.0000E+00	A	ND	FUEL CY
AUTOMOBILE	H 3	221.0	2.2187E+01	0.	1.0039E-01	0.	A	D	INDUSTR
AUTOMOBILE	H 3	8.7	5.4167E-01	0.	6.2500E-02	0.	A	ND	INDUSTR
AUTOMOBILE	S 35	8.7	2.6000E-02	0.	3.0000E-03	0.	A	D	INDUSTR
AUTOMOBILE	CO 60	2.0	6.0000E-02	6.0000E-01	3.0000E-02	3.0000E-01	A	ND	MED-INC
AUTOMOBILE	C 14	147.3	1.4723E-01	0.	1.0000E-03	0.	A	D	MEDICAL
AUTOMOBILE	C 14	21.7	3.9000E-02	0.	1.8000E-03	0.	A	ND	MEDICAL
AUTOMOBILE	CU 64	2.0	8.0000E-04	2.0000E-01	4.0000E-04	1.0000E-01	A	ND	MEDICAL
AUTOMOBILE	K 42	2.0	6.0000E-03	4.0000E-01	3.0000E-03	2.0000E-01	A	ND	MEDICAL
AUTOMOBILE	NA 24	2.0	8.0000E-05	2.0000E-01	4.0000E-05	1.0000E-01	A	D	MEDICAL
AUTOMOBILE	NA 24	2.0	1.0000E-04	1.0000E+00	5.0000E-05	5.0000E-01	A	ND	MEDICAL
AUTOMOBILE	P 32	43.3	8.6667E-02	0.	2.0000E-03	0.	A	D	MEDICAL
AUTOMOBILE	TA182	6.0	4.8000E-04	6.0000E-01	8.0000E-05	1.0000E-01	A	ND	MEDICAL

CITY LAT = 4.2250000E+01 CITY LONG = 7.1050000E+01 RADIUS = 5.0100000E-01 TO OR FROM

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	4.0	8.0000E-01	0.	2.0000E-01	0.	A	ND	FUEL CY
AIR,FRT.	U 235	69.3	4.5923E+01	3.0323E+00	6.6250E-03	0.	A	D	FUEL CY
AIR,FRT.	AM241	24.2	5.8047E-01	2.4166E-03	2.4000E-02	1.0000E-04	A	ND	INDUSTR
AIR,FRT.	CA 45	21.7	1.0400E-01	0.	4.8000E-03	0.	A	D	INDUSTR
AIR,FRT.	H 3	537.6	1.0161E+05	0.	1.0837E+02	0.	A	D	INDUSTR
AIR,FRT.	H 3	21.7	5.7200E-01	0.	2.6400E-02	0.	A	ND	INDUSTR
AIR,FRT.	IR192	282.8	2.4678E+04	2.8280E+02	8.7263E+01	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	6.0	2.6000E+02	1.4000E+01	4.3333E+01	2.3333E+00	B	D	INDUSTR
AIR,FRT.	IR192	656.8	2.4554E+05	6.5680E+02	3.5239E+02	1.0000E+00	B	ND	INDUSTR
AIR,FRT.	KR 85	12.1	3.0233E+02	4.4744E+01	2.5000E+01	3.7000E+00	A	D	INDUSTR
AIR,FRT.	NA 22	4.3	4.3333E-04	4.3333E-01	1.0000E-04	1.0000E-01	A	D	INDUSTR
AIR,FRT.	RA226	2.0	1.0000E-02	2.8000E+00	5.0000E-03	1.4000E+00	A	ND	INDLSTR
AIR,FRT.	S 35	186.3	1.1700E+00	0.	6.2791E-03	0.	A	D	INDUSTR
AIR,FRT.	S 35	2.0	2.0000E-02	2.0000E+00	1.0000E-02	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	SE 75	2.0	1.0000E-02	2.0000E-01	5.0000E-03	1.0000E-01	A	D	INDUSTR
AIR,FRT.	SR 89	12.1	1.2093E-01	2.4166E+00	1.0000E-02	2.0000E-01	A	D	INDUSTR
AIR,FRT.	CO 60	52.0	2.3967E+02	5.2000E+01	4.6090E+00	1.0000E+00	A	ND	MED-IND
AIR,FRT.	CR 51	234.0	3.6617E+00	3.4223E+01	1.5648E-02	1.4630E-01	A	D	MED-IND
AIR,FRT.	XE133	195.0	1.6922E+02	5.2000E+01	8.6778E-01	2.6667E-01	A	D	MED-IND
AIR,FRT.	C 14	474.0	1.5529E+00	2.0000E-02	3.2782E-03	4.2194E-05	A	D	MEDICAL
AIR,FRT.	C 14	21.7	2.7723E-02	0.	1.2800E-03	0.	A	ND	MEDICAL
AIR,FRT.	C 14	2.0	1.0000E-04	2.0000E-02	5.0000E-05	1.0000E-02	E	D	MEDICAL
AIR,FRT.	CE144	24.2	2.4186E+01	7.2528E+01	1.0000E+00	3.0000E+00	A	D	MEDICAL
AIR,FRT.	CO 57	212.3	5.9493E-02	5.6322E+00	4.6857E-04	2.6531E-02	A	C	MEDICAL
AIR,FRT.	CO 57	4.0	1.8800E-02	6.0000E-01	4.7000E-03	1.5000E-01	A	ND	MEDICAL
AIR,FRT.	FE 59	13.0	2.1667E-02	3.5000E+00	1.6667E-03	3.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	134.3	1.6380E+00	7.4100E+01	1.2194E-02	5.5161E-01	A	D	MEDICAL
AIR,FRT.	HG203	4.3	4.3333E-03	4.3333E-01	1.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	714.7	3.3174E+00	4.4222E+00	4.6419E-03	6.2034E-03	A	D	MEDICAL
AIR,FRT.	I 131	121.1	5.8957E+01	1.5914E+02	8.1694E-01	1.3128E+00	A	D	MEDICAL
AIR,FRT.	K 42	12.1	3.0223E-01	3.0223E+01	2.5000E-02	2.5000E+00	A	D	MEDICAL
AIR,FRT.	MO 99	359.7	2.5424E+02	7.8000E+01	7.0687E-01	2.1687E-01	A	D	MEDICAL
AIR,FRT.	NA 24	24.2	1.5249E-01	8.7070E+01	8.0000E-03	3.6000E+00	A	D	MEDICAL
AIR,FRT.	P 32	202.0	6.6047E+02	9.6100E+01	2.1870E+00	3.1821E-01	A	D	MEDICAL
AIR,FRT.	P 33	25.1	1.4815E+00	0.	5.9040E-02	0.	A	D	MEDICAL
AIR,FRT.	RB 86	8.7	4.4417E-02	8.6667E-01	5.1250E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	SR 85	4.3	8.6667E-03	4.3322E-01	2.0000E-03	1.0000E-01	A	D	MEDICAL

TABLE 65

CITY LAT = 4.2250000E+01 CITY LONG = 7.1050000E+01 RADIUS = 5.0100000E-01 ACROSS

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	2.0	2.0000E-04	2.0000E+00	1.0000E-04	1.0000E+00	A	ND	FUEL CY



TABLE A- 66

CITY LAT = 4.2290000E+01      CITY LONG = 7.1050000E+01      RADIUS = 5.0100000E-01  
 \* \* \* \* \* CITY = BOSTON      TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	PU238	4.0	3.2920E+00	0.	8.2300E-01	0.	A	NO	FUEL CY
AIR,PASS.	U 235	154.2	3.2025E+00	3.2500E+00	2.0770E-02	2.1078E-02	A	D	FUEL CY
AIR,PASS.	U 235	4.3	1.0833E-01	0.	2.5000E-02	0.	A	NO	FUEL CY
AIR,PASS.	U 235	6.0	1.9180E+02	0.	3.1967E+01	0.	E	NO	FUEL CY
AIR,PASS.	U 238	26.0	4.3583E+05	2.6000E+00	1.6763E+04	1.0000E-01	LS	D	FUEL CY
AIR,PASS.	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	B	NO	INDUSTR
AIR,PASS.	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	E	NO	INDUSTR
AIR,PASS.	CA 45	45.3	1.5190E-01	2.0000E-01	4.2331E-03	4.4118E-03	A	D	INDUSTR
AIR,PASS.	FE 55	4.3	8.6667E-03	0.	2.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	FE 55	4.0	8.0000E-02	0.	2.0000E-02	0.	E	NO	INDUSTR
AIR,PASS.	H 3	1105.4	5.3765E+01	8.2000E-01	4.8637E-02	7.4180E-04	A	D	INDUSTR
AIR,PASS.	H 3	30.3	1.1137E+00	0.	3.6714E-02	0.	A	NO	INDUSTR
AIR,PASS.	H 3	2.0	5.8200E-05	0.	2.9100E-05	0.	E	D	INDUSTR
AIR,PASS.	KR 85	12.1	1.2093E-04	0.	1.0000E-05	0.	E	D	INDUSTR
AIR,PASS.	NA 22	17.3	2.0067E-02	3.9000E+00	1.1750E-03	2.2500E-01	A	D	INDUSTR
AIR,PASS.	PO210	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	PO210	2.0	6.0000E-02	2.0000E-01	3.0000E-02	1.0000E-01	B	D	INDUSTR
AIR,PASS.	S 35	117.0	5.9450E-01	0.	8.5000E-03	0.	A	D	INDUSTR
AIR,PASS.	CR 51	143.0	5.0025E-01	1.4300E+01	6.2955E-03	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE127	2.0	2.6000E-02	2.0000E-01	1.3000E-02	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	299.0	1.6844E+02	0.	5.6333E-01	0.	A	D	MED-IND
AIR,PASS.	C 14	471.4	7.5954E-01	0.	1.6112E-03	0.	A	D	MEDICAL
AIR,PASS.	C 14	34.7	3.4667E-02	0.	1.0000E-03	0.	A	NO	MEDICAL
AIR,PASS.	C 14	8.0	1.8000E-02	0.	2.2500E-03	0.	E	D	MEDICAL
AIR,PASS.	CD109	4.3	8.6667E-04	4.3333E-01	2.0000E-04	1.0000E-01	A	D	MEDICAL
AIR,PASS.	CO 57	4.3	1.3000E-02	4.3333E-01	3.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,PASS.	FE 52	4.0	2.5000E-02	6.0000E+00	6.2500E-03	1.5000E+00	A	D	MEDICAL
AIR,PASS.	FE 59	8.7	6.5000E-03	1.7333E+00	7.5000E-04	2.0000E-01	A	D	MEDICAL
AIR,PASS.	GA 67	143.0	2.0289E+01	4.6367E+01	1.4188E-01	3.2424E-01	A	D	MEDICAL
AIR,PASS.	HG203	4.3	4.3333E-02	8.6667E-01	1.0000E-02	2.0000E-01	A	D	MEDICAL
AIR,PASS.	I 123	260.0	3.1200E-01	2.8600E+01	1.2000E-03	1.1000E-01	A	D	MEDICAL
AIR,PASS.	I 125	536.1	3.0105E+00	1.1355E+01	5.6156E-03	2.1255E-02	A	D	MEDICAL
AIR,PASS.	I 131	1798.3	5.8413E+00	1.2805E+03	3.2482E-03	7.1205E-01	A	D	MEDICAL
AIR,PASS.	I 131	364.0	3.0160E-01	1.3520E+02	8.2857E-04	3.7143E-01	A	NO	MEDICAL
AIR,PASS.	IN111	56.3	1.6033E-01	4.3333E-01	2.8462E-03	7.6923E-03	A	D	MEDICAL
AIR,PASS.	MO 99	182.0	1.2055E+02	5.0567E+01	6.6238E-01	4.9762E-01	A	D	MEDICAL
AIR,PASS.	MO 99	312.0	5.2104E+04	7.2800E+02	1.6700E+02	2.3333E+00	B	D	MEDICAL
AIR,PASS.	P 32	318.3	6.1857E+00	3.2267E+01	1.9431E-02	1.0136E-01	A	D	MEDICAL
AIR,PASS.	F 33	17.3	6.2833E-02	0.	3.6250E-03	0.	A	D	MEDICAL
AIR,PASS.	RB 86	8.7	5.2000E-02	1.3000E+00	6.0000E-03	1.5000E-01	A	D	MEDICAL
AIR,PASS.	TC 99M	56.3	2.6043E+00	0.	4.6231E-02	0.	A	D	MEDICAL
AIR,PASS.	W	84.7	5.6744E-01	1.3302E+01	1.1429E-02	1.5714E-01	A	D	WASTE

TABLE A- 67

CITY LAT = 4.2250000E+01 CITY LONG = 7.1050000E+01 RADIUS = 5.0100000E-01  
 \* \* \* \* \* CITY = BOSTCN ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MO 99	52.0	2.9380E+01	1.1440E+02	5.6500E-01	2.2000E+00	A	NO	MEDICAL

TABLE A- 68

CITY LAT = 4.2290000E+01 CITY LONG = 7.1050000E+01 RADIUS = 5.0100000E-01  
 \* \* \* \* \* CITY = BOSTCN ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
RAIL	CO 60	2.0	1.7538E-01	1.0000E+01	8.7690E-02	5.0000E+00	LS	NO	MED-IND



TABLE A- 69

CITY LAT = 4.2290000E+01 CITY LONG = 7.1050000E+01 RADIUS = 5.0100000E-01  
 \* \* \* \* \* CITY = BOSTON \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	10.0	1.2400E-03	1.3200E+00	1.2400E-04	1.3200E-01	A	D	FUEL CY
TRUCK	PU238	2.0	2.1136E+04 *	1.0000E+01	1.0568E+04 *	5.0000E+00	B	ND	FUEL CY
TRUCK	U 235	17.3	3.4667E-02 *	0.	2.0000E-03 *	0.	A	D	FUEL CY
TRUCK	U 235	18.0	7.8048E+03 *	1.2600E+02	4.3360E+02 *	7.0000E+00	B	ND	FUEL CY
TRUCK	U 235	6.0	1.0100E-01 *	0.	1.6833E-02 *	0.	E	D	FUEL CY
TRUCK	U 238	667.0	2.7113E+05 *	2.2391E+02	4.0648E+02 *	3.3568E-01	A	D	FUEL CY
TRUCK	U 238	967.4	3.4156E+07 *	4.5288E+02	3.5306E+04 *	4.6813E-01	A	ND	FUEL CY
TRUCK	U 238	2.0	1.7200E+04 *	1.0000E-01	8.6000E+03 *	5.0000E-02	LS	D	FUEL CY
TRUCK	U 238	96.7	2.6633E+06 *	2.6605E+01	2.7530E+04 *	2.7500E-01	LS	ND	FUEL CY
TRUCK	AM241	2.0	2.0000E-01	0.	1.0000E-01	0.	A	ND	INDUSTR
TRUCK	AM241	24.2	4.9823E+03	2.6605E+01	2.0600E+02	1.1000E+00	B	ND	INDUSTR
TRUCK	AM241	8.0	8.0000E-02	0.	1.0000E-02	0.	E	ND	INDUSTR
TRUCK	CA 45	13.0	7.3667E-02	0.	5.6667E-03	0.	A	D	INDUSTR
TRUCK	FE 55	4.3	1.0833E-03	0.	2.5000E-04	0.	A	D	INDUSTR
TRUCK	FE 55	6.0	1.2000E-01	0.	2.0000E-02	0.	E	ND	INDUSTR
TRUCK	H 3	398.7	1.8157E+00	0.	4.5544E-03	0.	A	D	INDUSTR
TRUCK	H 3	8.7	4.7667E-02	0.	5.5000E-03	0.	A	ND	INDUSTR
TRUCK	IR192	8.0	7.5000E+01	8.0000E+00	9.8750E+00	1.0000E+00	A	D	INDUSTR
TRUCK	IR192	139.2	9.8192E+03	1.0120E+02	7.0540E+01	7.2701E-01	A	ND	INDUSTR
TRUCK	IR192	433.2	6.5323E+04	1.0902E+03	1.5079E+02	2.5166E+00	B	ND	INDUSTR
TRUCK	KR 85	18.1	1.2163E+03	2.4786E+01	6.7225E+01	1.3659E+00	A	D	INDUSTR
TRUCK	S 35	31.3	1.2967E-01	0.	4.1383E-03	0.	A	D	INDUSTR
TRUCK	SE 75	260.0	1.1700E-01	7.2800E+01	4.5000E-04	2.8000E-01	A	D	INDUSTR
TRUCK	CO 60	6.0	1.3040E+02	0.	2.1733E+01	0.	A	D	MED-IND
TRUCK	CO 60	64.4	2.1468E+02	6.3400E+01	4.8864E+00	9.8447E-01	A	ND	MED-IND
TRUCK	CO 60	14.0	1.1358E+03	5.7800E+01	8.1131E+01	4.1286E+00	B	D	MED-IND
TRUCK	CO 60	14.4	2.0618E+02	1.7400E+01	1.4318E+01	1.2083E+00	B	ND	MED-IND
TRUCK	CO 60	628.0	2.2159E+02	1.5033E+04	3.5285E-01	2.3938E+01	LS	D	MED-IND
TRUCK	CR 51	203.7	4.0127E-01	2.0367E+01	1.9702E-03	1.0000E-01	A	D	MED-IND
TRUCK	AU198	104.0	2.7752E+00	9.8800E+01	2.6300E-02	9.5000E-01	A	D	MEDICAL
TRUCK	C 14	222.0	1.0000E-01	0.	8.3266E-04	0.	A	D	MEDICAL
TRUCK	C 14	4.3	4.3333E-03	0.	1.0000E-03	0.	A	ND	MEDICAL
TRUCK	CD109	4.0	8.0000E-03	0.	2.0000E-03	0.	E	ND	MEDICAL
TRUCK	CO 57	216.7	8.9093E-02	1.1700E+01	4.1120E-04	5.4000E-02	A	D	MEDICAL
TRUCK	CO 57	52.0	4.1600E-03	0.	8.0000E-05	0.	A	ND	MEDICAL
TRUCK	GA 67	12.1	1.8260E+03	1.4512E+01	1.5100E+02	1.2000E+00	A	ND	MEDICAL
TRUCK	I 125	550.3	1.1603E+00	6.0667E+00	2.1083E-03	1.1024E-02	A	D	MEDICAL
TRUCK	I 125	52.0	2.0800E-03	0.	4.0000E-05	0.	E	D	MEDICAL
TRUCK	I 131	1165.5	2.7051E+01	7.4723E+02	2.3211E-02	6.4114E-01	A	D	MEDICAL
TRUCK	I 131	208.0	8.1120E-01	1.6640E+02	3.9000E-03	8.0000E-01	A	ND	MEDICAL
TRUCK	MO 99	74.4	6.2562E+02	3.8672E+02	8.4121E+00	5.1999E+00	A	D	MEDICAL
TRUCK	MO 99	468.0	3.0046E+02	1.0256E+03	6.4200E-01	2.2000E+00	A	ND	MEDICAL
TRUCK	MO 99	157.2	1.0556E+04	1.6979E+03	6.7146E+01	1.0800E+01	B	D	MEDICAL
TRUCK	MO 99	4.0	4.0000E-06	0.	1.0000E-06	0.	E	ND	MEDICAL
TRUCK	NA 24	2.0	2.0000E-03	2.0000E+00	1.0000E-03	1.0000E+00	A	D	MEDICAL
TRUCK	P 32	123.3	1.9934E+00	1.1467E+01	1.6163E-02	9.2973E-02	A	D	MEDICAL
TRUCK	P 32	4.0	4.0000E-06	4.0000E-01	1.0000E-06	1.0000E-01	A	ND	MEDICAL
TRUCK	RB 86	4.3	4.3333E-02	2.1667E+00	1.0000E-02	5.0000E-01	A	D	MEDICAL
TRUCK	TC 99M	208.0	2.1424E+01	8.3200E+01	1.0300E-01	4.0000E-01	A	D	MEDICAL
TRUCK	J	5500.0	5.5000E-02 *	5.5000E+03	1.0000E-05 *	1.0000E+00	LS	D	WASTE

TABLE A- 70

CITY LAT = 4.2290000E+01      CITY LONG = 7.1050000E+01      RADIUS = 5.0100000E-01  
 \* \* \* \* \* CITY = BOSTON      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	CO 60	8.0	5.6320E-02	1.5800E+01	7.0400E-03	1.9750E+00	A	ND	MED-IND
TRUCK	CO 60	6.0	4.0800E-04	1.2000E-01	6.8000E-05	2.0000E-02	E	ND	MED-IND

TABLE A- 71

CITY LAT = 4.0830000E+01      CITY LONG = 7.2810000E+01      RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = NASSAU/SUFFOLK      TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	H 3	4.3	2.1667E+01	0.	5.0000E+00	0.	A	D	INDUSTR
AUTOMOBILE	NA 22	2.0	2.0000E-05	0.	1.0000E-05	0.	E	ND	INDUSTR
AUTOMOBILE	NA 22	2.0	8.0000E-06	8.0000E-01	4.0000E-06	4.0000E-01	LS	D	INDUSTR
AUTOMOBILE	XE127	2.0	2.0000E-01	2.0000E-01	1.0000E-01	1.0000E-01	A	D	MED-IND
AUTOMOBILE	FE 52	4.0	1.0089E+01	1.6000E+01	2.5222E+00	4.0000E+00	A	D	MEDICAL
AUTOMOBILE	I 123	10.0	2.6100E-01	3.0000E+00	2.6100E-02	3.0000E-01	A	D	MEDICAL
AUTOMOBILE	F 32	8.7	8.6667E-03	0.	1.0000E-03	0.	A	D	MEDICAL
AUTOMOBILE	TL201	6.0	1.8400E-02	3.4000E+00	3.0667E-03	5.6667E-01	A	D	MEDICAL

TABLE A- 72

CITY LAT = 4.0830000E+01      CITY LONG = 7.2810000E+01      RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = NASSAU/SUFFOLK      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MF	28.0	2.6020E-02	2.6000E+01	9.2929E-04	9.2857E-01	A	ND	FUEL CY
AUTOMOBILE	PU239	1.0	1.6000E-05	0.	1.6000E-05	0.	E	ND	FUEL CY
AUTOMOBILE	C 14	8.7	8.6667E-03	0.	1.0000E-03	0.	A	D	MEDICAL
AUTOMOBILE	C 14	4.3	2.1667E-02	0.	5.0000E-03	0.	A	ND	MEDICAL
AUTOMOBILE	P 32	13.0	5.6333E-02	0.	4.3333E-03	0.	A	D	MEDICAL

TABLE A- 73

CITY LAT = 4.0830000E+01 CITY LONG = 7.2810000E+01 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = NASSAL/SUFFOLK TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	PU242	1.0	5.0000E-07	0.	5.0000E-07	0.	A	D	FUEL CY
AIR,FRT.	U 235	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	FUEL CY
AIR,FRT.	U 235	1.0	4.4510E+03	0.	4.4510E+03	0.	B	D	FUEL CY
AIR,FRT.	H 3	216.7	1.8980E+00	0.	8.7600E-03	0.	A	D	INDUSTR
AIR,FRT.	IR192	26.5	2.6835E+03	3.8586E+01	1.0129E+02	1.4565E+00	B	ND	INDUSTR
AIR,FRT.	PO210	104.0	3.3800E-01	0.	3.2500E-03	0.	E	D	INDUSTR
AIR,FRT.	SE 75	52.0	2.6000E-04	0.	5.0000E-06	0.	A	D	INDUSTR
AIR,FRT.	C 14	52.0	1.3000E-02	0.	2.5000E-04	0.	A	D	MEDICAL
AIR,FRT.	CO 57	52.0	2.0800E-03	5.2000E+00	4.0000E-05	1.0000E-01	A	D	MEDICAL
AIR,FRT.	CO 57	52.0	1.1960E-02	0.	2.3000E-04	0.	A	ND	MEDICAL
AIR,FRT.	I 125	260.0	6.6893E-02	0.	2.5728E-04	0.	A	D	MEDICAL
AIR,FRT.	K 42	84.7	1.2093E+00	7.0140E+01	1.4286E-02	8.2857E-01	A	D	MEDICAL
AIR,FRT.	K 43	72.6	5.4419E-01	5.3209E+01	7.5000E-03	7.3333E-01	A	D	MEDICAL
AIR,FRT.	NA 24	96.7	5.2000E-01	2.1284E+02	5.3750E-03	2.2000E+00	A	D	MEDICAL
AIR,FRT.	P 32	56.3	2.7300E-01	4.3333E-01	4.8462E-03	7.6923E-03	A	D	MEDICAL

TABLE A- 74

CITY LAT = 4.0820000E+01 CITY LONG = 7.2810000E+01 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = NASSAL/SUFFOLK ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE VI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	2.0	2.0000E-04	2.0000E+00	1.0000E-04	1.0000E+00	A	ND	FUEL CY
AIR,FRT.	PU238	1.0	3.5000E-03	3.5000E-02	3.5000E-03	1.0000E-02	B	ND	FUEL CY
AIR,FRT.	U 235	26.0	1.2567E-01	8.2667E-01	4.8333E-03	3.3333E-02	A	D	FUEL CY
AIR,FRT.	U 235	28.0	1.8729E+04	1.2800E+01	6.6890E+02	4.5714E-01	A	ND	FUEL CY
AIR,FRT.	H 3	380.2	1.0158E+05	0.	2.6717E+02	0.	A	D	INDUSTR
AIR,FRT.	H 3	13.0	1.3433E-01	0.	1.0333E-02	0.	A	ND	INDUSTR
AIR,FRT.	IR192	135.2	1.0972E+04	1.3520E+02	8.1154E+01	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	407.3	4.0982E+04	4.1334E+02	1.0062E+02	1.0148E+00	B	ND	INDUSTR
AIR,FRT.	KR 85	12.1	3.0233E+02	4.4744E+01	2.5000E+01	3.7000E+00	A	D	INDUSTR
AIR,FRT.	NA 22	4.3	4.3333E-04	4.3333E-01	1.0000E-04	1.0000E-01	A	D	INDUSTR
AIR,FRT.	RA226	2.0	1.0000E-02	2.8000E+00	5.0000E-03	1.4000E+00	A	ND	INDUSTR
AIR,FRT.	S 35	39.0	3.5100E-01	0.	9.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	SE 75	52.0	2.6000E-04	0.	5.0000E-06	0.	A	D	INDUSTR
AIR,FRT.	SR 89	12.1	1.2093E-01	2.4186E+00	1.0000E-02	2.0000E-01	A	D	INDUSTR
AIR,FRT.	CO 60	31.2	2.3936E+02	3.1200E+01	7.6717E+00	1.0000E+00	A	ND	MED-IND
AIR,FRT.	CR 51	86.7	5.6333E-01	8.6667E+00	6.5000E-03	1.0000E-01	A	D	MED-INC
AIR,FRT.	XE133	26.0	5.2000E+00	0.	2.0000E-01	0.	A	D	MED-IND
AIR,FRT.	C 14	151.7	6.7817E-01	0.	4.4714E-03	0.	A	D	MEDICAL
AIR,FRT.	C 14	17.3	2.1667E-02	0.	1.2500E-03	0.	A	ND	MEDICAL
AIR,FRT.	CE144	24.2	2.4186E+01	7.2558E+01	1.0000E+00	3.0000E+00	A	D	MEDICAL
AIR,FRT.	CO 57	4.3	4.3333E-02	4.3333E-01	1.0000E-02	1.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	47.7	5.2000E-01	2.1233E+01	1.0909E-02	4.4545E-01	A	D	MEDICAL
AIR,FRT.	I 125	177.7	1.8636E+00	2.6000E+00	1.0490E-02	1.4634E-02	A	D	MEDICAL
AIR,FRT.	I 131	62.3	6.9850E+01	8.2938E+01	1.1216E+00	1.3317E+00	A	D	MEDICAL
AIR,FRT.	K 42	12.1	3.0233E-01	3.0233E+01	2.5000E-02	2.5000E+00	A	D	MEDICAL
AIR,FRT.	MO 99	108.3	7.3407E+01	3.9000E+01	6.7760E-01	3.6000E-01	A	D	MEDICAL
AIR,FRT.	P 32	108.3	1.8027E+00	7.3667E+00	1.6640E-02	6.8000E-02	A	D	MEDICAL
AIR,FRT.	P 33	12.1	1.4512E+00	0.	1.2000E-01	0.	A	D	MEDICAL

TABLE A- 75

CITY LAT = 4.0830000E+01 CITY LONG = 7.2810000E+01 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = NASSAU/SUFFOLK TO OR FRM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MF	2.0	2.0000E-03 *	2.0000E-02	1.0000E-03 *	1.0000E-02	A	ND	FUEL CY
AIR,PASS.	PU238	1.0	2.1000E+00 *	1.0000E+01	2.1000E+00 *	1.0000E+01	B	ND	FUEL CY
AIR,PASS.	TH228	1.0	1.2000E-08 *	0.	1.2000E-08 *	0.	E	ND	FUEL CY
AIR,PASS.	U 235	28.0	2.6420E+01 *	5.0000E-01	9.4357E-01 *	1.7857E-02	A	D	FUEL CY
AIR,PASS.	U 235	1.0	5.0000E-01 *	0.	5.0000E-01 *	0.	A	ND	FUEL CY
AIR,PASS.	U 235	2.0	4.6301E+02 *	0.	2.3151E+02 *	0.	E	ND	FUEL CY
AIR,PASS.	U 235	5.0	3.9200E-01 *	0.	7.8400E-02 *	0.	LS	ND	FUEL CY
AIR,PASS.	AM241	8.0	1.6000E-06	0.	2.0000E-07	0.	A	ND	INDUSTR
AIR,PASS.	CF252	4.0	1.0800E-01	2.0000E+01	2.7000E-02	5.0000E+00	A	ND	INDUSTR
AIR,PASS.	H 3	6.3	8.6671E-03	0.	1.3685E-03	0.	A	D	INDUSTR
AIR,PASS.	IR192	2.0	3.5000E-01	0.	1.7500E-01	0.	B	NO	INDUSTR
AIR,PASS.	KR 85	12.1	1.8140E-04	0.	1.5000E-05	0.	E	D	INDUSTR
AIR,PASS.	NP237	2.0	2.6200E-02	1.0000E+00	1.3100E-02	5.0000E-01	A	D	INDUSTR
AIR,PASS.	XE127	22.0	1.9320E+00	3.4000E+00	8.7818E-02	1.5455E-01	A	D	MED-IND
AIR,PASS.	C 14	4.3	4.3333E-05	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	FE 52	24.0	3.5160E-01	5.2000E+01	1.4650E-02	2.1667E+00	A	D	MEDICAL
AIR,PASS.	I 123	6.0	2.6400E-01	2.6000E+00	3.4000E-02	4.3333E-01	A	D	MEDICAL
AIR,PASS.	I 125	208.0	4.0040E-03	5.2000E+00	1.9250E-05	2.5000E-02	A	D	MEDICAL
AIR,PASS.	I 131	156.0	8.1484E+00	2.2880E+02	5.2233E-02	1.4667E+00	A	D	MEDICAL
AIR,PASS.	I 131	52.0	1.8200E-01	3.6400E+01	3.5000E-03	7.0000E-01	A	NO	MEDICAL
AIR,PASS.	MG 28	68.0	4.1960E+03	7.3200E+01	6.1706E+01	1.0765E+00	A	D	MEDICAL
AIR,PASS.	MO 99	156.0	1.2480E+02	2.7040E+02	8.0000E-01	1.7333E+00	A	D	MEDICAL
AIR,PASS.	TC 99M	52.0	1.3000E+00	2.6000E+01	2.5000E-02	5.0000E-01	A	D	MEDICAL
AIR,PASS.	TL201	32.0	8.2522E+00	9.4000E+00	2.5476E-01	2.9375E-01	A	D	MEDICAL

TABLE A- 76

CITY LAT = 4.0830000E+01 CITY LONG = 7.2810000E+01 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = NASSAU/SUFFOLK ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	PU238	4.0	3.2920E+00	0.	8.2300E-01	0.	A	ND	FUEL CY
AIR,PASS.	U 235	58.9	8.8591E-01	8.6667E-01	1.5053E-02	1.4726E-02	A	D	FUEL CY
AIR,PASS.	U 235	4.3	1.0833E-01	0.	2.5000E-02	0.	A	ND	FUEL CY
AIR,PASS.	U 235	21.1	6.7000E+01	0.	3.1764E+00	0.	E	D	FUEL CY
AIR,PASS.	U 238	26.0	4.3583E+05	2.6000E+00	1.6763E+04	1.0000E-01	LS	D	FUEL CY
AIR,PASS.	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	E	ND	INDUSTR
AIR,PASS.	CA 45	23.7	1.1780E-01	2.0000E-01	4.9775E-03	8.4507E-03	A	D	INDUSTR
AIR,PASS.	FE 55	4.3	8.6667E-03	0.	2.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	FE 55	2.0	4.0000E-02	0.	2.0000E-02	0.	E	ND	INDUSTR
AIR,PASS.	H 3	324.3	4.7527E+00	8.2000E-01	1.4654E-02	2.5283E-03	A	D	INDUSTR
AIR,PASS.	H 3	4.3	4.3333E-03	0.	1.0000E-03	0.	A	ND	INDUSTR
AIR,PASS.	KR 85	12.1	1.2093E-04	0.	1.0000E-05	0.	E	D	INDUSTR
AIR,PASS.	NA 22	8.7	1.9500E-02	2.6000E+00	2.2500E-03	3.0000E-01	A	D	INDUSTR
AIR,PASS.	PO210	2.0	6.0000E-02	2.0000E-01	3.0000E-02	1.0000E-01	B	D	INDUSTR
AIR,PASS.	S 35	34.7	7.0200E-01	0.	2.0250E-02	0.	A	D	INDUSTR
AIR,PASS.	CR 51	56.3	3.4233E-01	5.6333E+00	6.0769E-03	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	134.3	5.4513E+01	0.	4.0581E-01	0.	A	D	MED-IND
AIR,PASS.	C 14	159.4	1.7192E-01	0.	1.0784E-03	0.	A	D	MEDICAL
AIR,PASS.	C 14	4.3	4.3333E-03	0.	1.0000E-03	0.	A	ND	MEDICAL
AIR,PASS.	CO 57	52.0	1.0400E-04	5.2000E+00	2.0000E-06	1.0000E-01	A	D	MEDICAL
AIR,PASS.	FE 59	4.3	2.1667E-03	8.6667E-01	5.0000E-04	2.0000E-01	A	D	MEDICAL
AIR,PASS.	GA 67	10.7	7.0720E+00	1.0633E+01	1.1657E-01	1.7857E-01	A	D	MEDICAL
AIR,PASS.	I 123	260.0	3.1200E-01	2.8600E+01	1.2000E-03	1.1000E-01	A	D	MEDICAL
AIR,PASS.	I 125	320.3	5.5518E-01	3.0000E+00	2.9818E-03	9.3652E-03	A	D	MEDICAL
AIR,PASS.	I 131	173.3	2.3729E+00	9.2733E+01	1.3690E-02	5.3500E-01	A	D	MEDICAL
AIR,PASS.	I 131	728.0	8.3221E-01	2.6520E+02	1.1431E-03	3.6429E-01	A	ND	MEDICAL
AIR,PASS.	IN111	52.0	1.0400E-01	0.	2.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	MO 99	13.0	1.2783E+01	8.6667E+00	9.8333E-01	6.6667E-01	A	D	MEDICAL
AIR,PASS.	MO 99	728.0	4.3233E+02	8.4240E+02	5.9386E-01	1.1571E+00	A	ND	MEDICAL
AIR,PASS.	P 32	132.0	2.4243E+00	4.9667E+00	1.8366E-02	3.7626E-02	A	D	MEDICAL
AIR,PASS.	P 33	4.3	4.3333E-02	0.	1.0000E-02	0.	A	D	MEDICAL
AIR,PASS.	TC 99M	104.0	4.6800E+00	2.6000E+01	4.5000E-02	2.5000E-01	A	D	MEDICAL

TABLE A- 77

= 4.0830000E+01 CITY LONG = 7.2810000E+01 RADIUS = 9.0500000E-01  
 \* \* \* \* \* CITY = NASSAU/SUFFOLK ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
RAIL	U 235	1.0	4.4000E-03	0.	4.4000E-03	0.	B	D	FUEL CY



TABLE A- 78

CITY LAT = 4.082000E+01		CITY LONG =		CITY = MASSA/SUFFOLK		RADIUS =		TO OR FROM		9.050000E-01	
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE		
TRUCK	MC	22.0	2.2000E-02	2.2000E+00	1.000E-03	1.0000E-01	A	D	FUEL CY		
TRUCK	U 235	13.0	2.6600E+04	1.5500E+01	1.9950E+03	1.1625E+00	A	D	FUEL CY		
TRUCK	U 235	7.0	1.6013E+03	1.1700E+01	2.2876E+02	1.6714E+00	B	D	FUEL CY		
TRUCK	U 235	35.0	1.5417E+06	0.	4.4049E+04	0.	B	ND	FUEL CY		
TRUCK	U 235	8.0	1.8672E-01	2.0000E-01	2.3340E-02	2.5000E-02	E	D	FUEL CY		
TRUCK	U 235	8.0	4.0802E-05	3.2000E-01	5.1002E-06	4.0000E-02	E	ND	FUEL CY		
TRUCK	U 238	2055.8	7.6744E+08	0.	1.0100E+00	0.	LS	ND	FUEL CY		
TRUCK	CA 45	4.3	4.3333E-02	0.	3.7330E+05	0.	LS	D	FUEL CY		
TRUCK	CS137	4.0	2.8000E-03	4.0000E-01	1.0000E-02	1.0000E-01	A	D	INDUSTR		
TRUCK	H 3	348.7	1.1461E+02	0.	3.2870E-01	0.	A	ND	INDUSTR		
TRUCK	H 3	82.0	6.7200E+02	0.	8.1951E+00	0.	B	D	INDUSTR		
TRUCK	IR192	128.0	1.3046E+04	1.3400E+02	9.4536E+01	9.7101E-01	B	ND	INDUSTR		
TRUCK	KR 85	2.0	3.0000E-04	4.0000E-02	1.0000E-04	2.0000E-02	E	ND	INDUSTR		
TRUCK	S 35	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR		
TRUCK	SE 75	104.0	2.6000E-02	2.6000E+01	2.5000E-04	2.5000E-01	A	D	INDUSTR		
TRUCK	CO 60	2.0	2.0000E-03	2.0000E-01	1.0000E-03	1.0000E-01	A	D	MED-IND		
TRUCK	CO 60	10.4	2.0280E+00	1.0400E+01	1.9500E-01	1.0000E+00	A	ND	MED-IND		
TRUCK	CO 60	2.0	2.0000E+01	2.0000E-01	1.1000E+01	1.0000E-01	B	D	MED-IND		
TRUCK	CO 60	6.0	2.6820E+02	1.1000E+01	4.4700E+01	1.8323E+00	B	ND	MED-IND		
TRUCK	CO 60	4.0	4.8400E-04	2.4000E-01	1.2100E-04	6.0000E-02	F	ND	MED-IND		
TRUCK	CO 60	32.0	1.3940E-02	2.1680E+01	4.3562E-04	6.7750E-01	LS	D	MED-IND		
TRUCK	CO 60	2.0	1.2000E-04	4.0000E-02	6.0000E-05	2.0000E-02	LS	ND	MED-IND		
TRUCK	CO 51	108.3	3.9867E-02	2.1233E+01	3.6800E-04	1.9600E-01	A	D	MED-IND		
TRUCK	XE133	416.0	1.9972E+01	0.	2.6375E-02	0.	A	D	MED-IND		
TRUCK	AU198	52.0	1.0400E-01	2.0800E+01	2.0000E-03	4.0000E-01	A	D	MEDICAL		
TRUCK	C 14	120.0	5.6204E-01	0.	4.2080E-03	0.	A	D	MEDICAL		
TRUCK	C 14	4.3	4.3333E-03	0.	1.0000E-03	0.	A	ND	MEDICAL		
TRUCK	CO 57	884.0	5.2001E+00	6.3200E+01	5.8824E-03	9.4118E-02	A	D	MEDICAL		
TRUCK	CO 57	624.0	5.3820E-02	0.	8.6250E-05	0.	A	ND	MEDICAL		
TRUCK	GA 67	468.0	2.3400E+00	3.1200E+01	5.0000E-03	6.6667E-02	A	D	MEDICAL		
TRUCK	HG197	52.0	6.2400E-02	2.6000E+01	1.2000E-03	5.0000E-01	A	D	MEDICAL		
TRUCK	I 125	468.0	4.6800E-01	3.6400E+01	1.0000E-03	7.7778E-02	A	D	MEDICAL		
TRUCK	I 125	857.0	4.0206E-01	0.	4.4823E-04	0.	A	D	MEDICAL		
TRUCK	I 125	156.0	9.8800E-04	0.	6.3333E-06	0.	E	D	MEDICAL		
TRUCK	I 131	2448.3	2.0572E+01	1.3055E+03	8.4025E-03	5.3487E-01	A	D	MEDICAL		
TRUCK	I 131	468.0	2.2303E+00	4.4200E+02	4.7656E-03	9.4444E-01	A	ND	MEDICAL		
TRUCK	IN111	260.0	1.3000E+00	0.	5.0000E-03	0.	A	D	MEDICAL		
TRUCK	MO 99	52.0	1.0400E+02	1.6120E+02	2.0000E+00	3.1000E+00	A	D	MEDICAL		
TRUCK	MO 99	520.0	4.9920E+02	1.0814E+03	5.6000E-01	2.0800E+00	A	ND	MEDICAL		
TRUCK	P 32	52.0	3.4667E-01	4.7667E+00	6.6667E-03	9.1667E-02	A	D	MEDICAL		
TRUCK	TC 99M	5616.0	4.9341E+02	1.6333E+03	8.7857E-02	2.9093E-01	A	D	MEDICAL		

TABLE A- 79

CITY LAT = 4.0830000E+01 CITY LONG = 7.2810000E+01 RADIUS = 9.0501000E-01  
 \* \* \* \* \* CITY = NASSAU/SUFFOLK ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	12.0	3.2680E-03	4.0000E-01	2.7233E-04	3.3333E-02	A	D	FUEL CY
TRUCK	MC	66.0	5.5400E-03	1.5800E+01	8.3939E-05	2.3929E-01	LS	D	FUEL CY
TRUCK	MF	2.0	2.0000E-06	0.	1.0000E-06	0.	A	ND	FUEL CY
TRUCK	PU238	2.0	2.1136E+04	1.0000E+01	1.0568E+04	5.0000E+00	B	ND	FUEL CY
TRUCK	U 235	6.0	2.9250E+03	2.4550E+01	4.8750E+02	4.0917E+00	A	D	FUEL CY
TRUCK	U 235	105.0	2.1766E+05	3.9820E+01	2.0729E+03	3.7924E-01	A	ND	FUEL CY
TRUCK	U 235	8.0	5.7081E+04	1.2100E+01	7.1351E+03	2.5125E+00	B	D	FUEL CY
TRUCK	U 235	200.0	2.0700E+02	2.0000E+01	1.0000E+00	1.0000E-01	LS	D	FUEL CY
TRUCK	U 238	145.1	5.0588E+06	5.1395E+01	3.4723E+04	3.5417E-01	A	ND	FUEL CY
TRUCK	U 238	12.1	1.7996E+06	2.4186E+00	1.4881E+05	2.0000E-01	LS	ND	FUEL CY
TRUCK	AM241	24.2	4.9823E+03	2.6605E+01	2.0600E+02	1.1000E+00	B	ND	INDUSTR
TRUCK	AM241	6.0	8.0000E-02	0.	1.0000E-02	0.	E	ND	INDUSTR
TRUCK	CS137	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
TRUCK	FE 55	2.0	2.7518E+02	1.6000E+00	1.3759E+02	8.0000E-01	B	ND	INDUSTR
TRUCK	FE 55	2.0	4.0000E-02	0.	2.0000E-02	0.	E	ND	INDUSTR
TRUCK	H 3	364.0	1.5090E+00	0.	4.1455E-03	0.	A	D	INDUSTR
TRUCK	IR192	20.8	1.5600E+03	2.0800E+01	7.5000E+01	1.0000E+00	A	ND	INDUSTR
TRUCK	IR192	20.8	2.0800E+03	2.0800E+01	1.0000E+02	1.0000E+00	B	ND	INDUSTR
TRUCK	KR 85	14.1	1.2103E+03	2.4386E+01	8.5880E+01	1.7304E+00	A	D	INDUSTR
TRUCK	SE 75	104.0	2.6000E-02	2.0000E+01	2.5000E-04	2.5000E-01	A	D	INDUSTR
TRUCK	CO 60	646.4	1.2247E+02	6.0316E+03	1.8947E-01	9.3311E+00	A	ND	MED-IND
TRUCK	CO 60	2.0	2.0600E+02	6.4000E+00	1.0300E+02	3.2000E+00	B	ND	MED-IND
TRUCK	CO 60	4.0	4.0000E-09	8.0000E-02	1.0000E-09	2.0000E-02	E	D	MED-IND
TRUCK	CO 60	126.0	6.5662E-02	3.3600E+00	5.2112E-04	2.6667E-02	E	ND	MED-IND
TRUCK	CO 60	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	MED-IND
TRUCK	CO 60	8.0	1.0000E-01	1.6000E-01	1.2500E-02	2.0000E-02	LS	ND	MED-IND
TRUCK	CR 51	208.0	3.7960E-01	3.1200E+01	1.8250E-03	1.5000E-01	A	D	MED-IND
TRUCK	AU198	156.0	6.3804E+00	1.8720E+02	4.0900E-02	1.2000E+00	A	D	MEDICAL
TRUCK	C 14	156.0	1.1960E-01	0.	7.6667E-04	0.	A	D	MEDICAL
TRUCK	CD109	2.0	4.0000E-03	0.	2.0000E-03	0.	E	NC	MEDICAL
TRUCK	CO 57	468.0	1.1492E-03	2.0800E+01	2.4556E-06	4.4444E-02	A	D	MEDICAL
TRUCK	CO 57	2.0	2.0000E-03	2.0000E-02	1.0000E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	FE 59	52.0	2.6000E-04	0.	5.0000E-06	0.	E	D	MEDICAL
TRUCK	GA 67	12.1	1.8260E+03	1.4512E+01	1.5100E+02	1.2000E+00	A	ND	MEDICAL
TRUCK	I 123	208.0	2.0800E-01	1.5600E+01	1.0000E-03	7.5000E-02	A	D	MEDICAL
TRUCK	I 125	572.0	6.8656E-03	1.0400E+01	1.2003E-05	1.8182E-02	A	D	MEDICAL
TRUCK	I 131	1844.2	1.5215E+01	1.4424E+03	8.2504E-03	7.8265E-01	A	D	MEDICAL
TRUCK	I 131	572.0	1.2636E+00	3.7960E+02	2.2091E-03	6.6364E-01	A	ND	MEDICAL
TRUCK	IN111	52.0	1.0400E-01	0.	2.0000E-03	0.	A	D	MEDICAL
TRUCK	MO 99	48.4	6.1191E+02	3.3256E+02	1.2650E+01	6.8750E+00	A	D	MEDICAL
TRUCK	MO 99	936.0	4.9130E+02	1.7888E+03	5.2489E-01	1.9111E+00	A	ND	MEDICAL
TRUCK	MO 99	157.2	1.0556E+04	1.6975E+03	6.7146E+01	1.0800E+01	E	D	MEDICAL
TRUCK	TC 99M	1248.0	1.4586E+02	1.7680E+02	1.1688E-01	1.4167E-01	A	D	MEDICAL
TRUCK	TC 99M	2.0	2.0000E-09	4.0000E-02	1.0000E-09	2.0000E-02	E	ND	MEDICAL
TRUCK	W	598.0	2.2782E+03	6.5278E+03	3.8097E+00	1.0916E+01	A	D	WASTE
TRUCK	W	5506.0	8.0005E+02	5.5101E+03	1.4531E-01	1.0007E+00	LS	D	WASTE

TABLE A- 80

CITY LAT = 3.2740000E+01 CITY LONG = 9.7080000E+01 RADIUS = 1.1770000E+00  
 \* \* \* \* \* CITY = DALLAS TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	AM241	3.0	7.5000E-01	1.5000E+00	2.5000E-01	5.0000E-01	A	ND	INDUSTR
AUTOMOBILE	SC 46	12.1	3.5279E-02	2.4186E+01	3.0000E-03	2.0000E+00	A	D	MEDICAL

TABLE A- 81

CITY LAT = 3.2740000E+01 CITY LONG = 9.7080000E+01 RADIUS = 1.1770000E+00  
 \* \* \* \* \* CITY = DALLAS TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	U 235	52.0	3.3800E-04	0.	6.5000E-06	0.	A	D	FUEL CY
AIR,FRT.	AM241	7.0	7.0030E+00	1.0500E+01	1.0004E+00	1.5000E+00	A	ND	INDUSTR
AIR,FRT.	H 3	52.0	2.6000E-04	0.	5.0000E-06	0.	A	D	INDUSTR
AIR,FRT.	RA226	10.0	3.4000E-02	1.6800E+01	3.4000E-03	1.6800E+00	A	ND	INDUSTR
AIR,FRT.	S 35	52.0	5.2000E-02	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	CO 60	1.0	1.5000E-02	5.0000E-01	1.5000E-02	5.0000E-01	A	ND	MED-IND
AIR,FRT.	XE133	212.3	5.0177E+01	4.1600E+01	4.2469E-01	1.9592E-01	A	D	MED-IND
AIR,FRT.	C 14	260.0	1.4321E-01	0.	5.5080E-04	0.	A	D	MEDICAL
AIR,FRT.	CA 47	24.2	2.4186E-03	4.8372E+00	1.0000E-04	2.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	212.3	5.7460E-01	2.1233E+01	2.7061E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 123	572.0	1.9812E-01	5.7200E+01	3.4636E-04	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	52.0	2.6000E-01	5.2000E+00	5.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 131	104.0	8.5800E-01	4.1600E+01	8.2500E-03	4.0000E-01	A	D	MEDICAL
AIR,FRT.	I 131	52.0	5.0960E-01	1.3520E+02	9.8000E-03	2.6000E+00	A	ND	MEDICAL
AIR,FRT.	IN111	52.0	7.8000E-02	5.2000E+00	1.5000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	MO 99	65.0	1.3975E+02	2.0280E+02	2.1500E+00	3.1200E+00	A	D	MEDICAL
AIR,FRT.	TC 99M	5408.0	5.5973E+02	5.4080E+02	1.0350E-01	1.0000E-01	A	D	MEDICAL
AIR,FRT.	TM170	3.0	3.0200E+00	1.1200E+01	1.0067E+00	3.7333E+00	B	ND	MEDICAL

TABLE A- 82

CITY LAT = 3.2740000E+01 CITY LONG = -7.0800000E+01 RADIUS = 1.1770000E+00  
 \* \* \* \* \* CITY = DALLAS \* \* \* \* \* ACRU5S \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	H 3	2.0	2.0000E+00	0.	1.0000E+00	0.	A	ND	INDUSTR
AIR,FRT.	IR192	168.7	1.1323E+05	3.0167E+02	6.7140E+02	1.7887E+00	B	ND	INDUSTR
AIR,FRT.	C 14	52.0	6.5000E-03	0.	1.2500E-04	0.	A	D	MEDICAL
AIR,FRT.	I 125	64.1	1.8268E+01	2.4186E+01	2.8502E-01	3.7736E-01	A	D	MEDICAL
AIR,FRT.	I 131	76.2	3.6841E+01	7.0019E+01	4.8356E-01	9.1905E-01	A	D	MEDICAL
AIR,FRT.	MO 99	52.0	1.0400E+02	1.6120E+02	2.0000E+00	3.1000E+00	A	D	MEDICAL
AIR,FRT.	RB 85	12.1	1.2093E-03	0.	1.0000E-04	0.	A	NT	MEDICAL

TABLE A- 83

CITY LAT = 3.2740000E+01 CITY LONG = 9.7080000E+01 RADIUS = 1.1770000E+00  
 \* \* \* \* \* CITY = DALLAS \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MF	2.0	2.0000E-03	1.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,PASS.	CS137	8.0	8.0000E-02	1.1200E+01	1.0000E-02	1.4000E+00	A	ND	INDUSTR
AIR,PASS.	H 3	8.7	4.7667E-02	0.	5.5000E-03	0.	A	D	INDUSTR
AIR,PASS.	S 35	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	CR 51	156.0	3.9000E-02	3.1200E+01	2.5000E-04	2.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	104.0	5.2000E+00	0.	5.0000E-02	0.	A	D	MED-IND
AIR,PASS.	C 14	108.3	1.0833E-01	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	CO 57	104.0	3.9000E-04	0.	3.7500E-06	0.	A	D	MEDICAL
AIR,PASS.	CO 57	52.0	5.2000E-04	5.2000E+00	1.0000E-05	1.0000E-01	A	ND	MEDICAL
AIR,PASS.	CO 57	52.0	1.5600E-02	0.	3.0000E-04	0.	E	D	MEDICAL
AIR,PASS.	HG197	52.0	5.2000E-02	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	I 125	472.3	6.2675E-02	5.2000E+00	1.3269E-04	1.1009E-02	A	D	MEDICAL
AIR,PASS.	I 131	5564.0	3.9861E+01	7.6544E+03	7.1641E-03	1.3757E+00	A	D	MEDICAL
AIR,PASS.	I 131	260.0	7.2088E-01	1.5080E+02	2.7726E-03	5.8000E-01	A	ND	MEDICAL
AIR,PASS.	IN111	52.0	7.8000E-02	0.	1.5000E-03	0.	A	D	MEDICAL
AIR,PASS.	MO 99	52.0	2.6000E+00	2.6000E+01	5.0000E-02	5.0000E-01	A	D	MEDICAL
AIR,PASS.	MO 99	260.0	3.5230E+02	5.0960E+02	1.3550E+00	1.9600E+00	A	ND	MEDICAL
AIR,PASS.	MO 99	104.0	2.0800E+01	2.0800E+02	2.0000E-01	2.0000E+00	B	D	MEDICAL
AIR,PASS.	TC 99M	676.0	2.4700E+01	0.	3.6538E-02	0.	A	D	MEDICAL

TABLE A- 84

CITY LAT = 3.2740000E+01 CITY LONG = 9.7080000E+01 RADIUS = 1.1770000E+00  
 \* \* \* \* \* CITY = DALLAS \* \* \* \* \* ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	U 235	3.0	3.3400E+01	0.	1.1133E+01	0.	E	ND	FUEL CY
AIR,PASS.	U 238	1.0	1.0000E-02	0.	1.0000E-02	0.	A	ND	FUEL CY
AIR,PASS.	AM241	4.0	4.0000E-03	2.0000E-01	1.0000E-03	5.0000E-02	A	ND	INDUSTR
AIR,PASS.	H 3	12.1	6.0465E-03	0.	5.0000E-04	0.	A	D	INDUSTR
AIR,PASS.	SE 75	52.0	1.0400E-01	1.5600E+01	2.0000E-03	3.0000E-01	A	D	INDUSTR
AIR,PASS.	XE133	104.0	5.7200E+00	0.	5.5000E-02	0.	A	D	MED-IND
AIR,PASS.	C 14	28.5	1.7636E-02	0.	6.1837E-04	0.	A	D	MEDICAL
AIR,PASS.	I 125	104.0	5.4590E-03	1.0400E+01	5.2490E-05	1.0000E-01	A	D	MEDICAL
AIR,PASS.	I 131	588.0	8.3880E+00	4.4720E+02	8.4898E-03	4.5263E-01	A	D	MEDICAL
AIR,PASS.	I 131	52.0	1.5600E-02	1.0400E+01	3.0000E-04	2.0000E-01	A	ND	MEDICAL
AIR,PASS.	IN11	52.0	5.2000E-01	0.	1.0000E-02	0.	A	D	MEDICAL
AIR,PASS.	MO 99	208.0	3.1200E+02	4.1600E+02	1.5000E+00	2.0000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	208.0	1.7618E+02	3.9520E+02	8.4700E-01	1.9000E+00	A	ND	MEDICAL
AIR,PASS.	P 32	53.0	5.2000E-01	0.	9.8113E-03	0.	A	D	MEDICAL
AIR,PASS.	TC 99M	260.0	7.6200E+00	0.	3.7000E-02	0.	A	D	MEDICAL
AIR,PASS.	YR169	2.0	5.0000E+00	1.0000E-01	2.5000E+00	5.0000E-02	A	D	MEDICAL

TABLE A- 85

CITY LAT = 3.2740000E+01 CITY LONG = 9.7080000E+01 RADIUS = 1.1770000E+00  
 \* \* \* \* \* CITY = DALLAS \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	U 235	2.0	3.9124E+04	8.0000E-01	1.9592E+04	4.0000E-01	A	ND	FUEL CY
TRUCK	U 238	241.9	1.6751E+07	2.1767E+01	6.9260E+04	9.0000E-02	A	D	FUEL CY
TRUCK	AM241	7.0	1.5000E+00	4.6000E+00	2.1429E-01	6.5714E-01	A	ND	INDUSTR
TRUCK	CS137	26.2	1.2822E+02	7.2558E+01	4.8965E+00	2.7709E+00	A	ND	INDUSTR
TRUCK	H 3	52.0	5.2000E-03	0.	1.0000E-04	0.	A	D	INDUSTR
TRUCK	IR192	12.1	1.2093E+03	3.6279E+01	1.0000E+02	3.0000E+00	B	ND	INDUSTR
TRUCK	RA226	8.0	1.3000E-02	8.6000E+00	3.2500E-03	2.1500E+00	A	ND	INDUSTR
TRUCK	CO 60	2.0	8.4300E+03	3.2000E+00	4.2150E+03	1.6000E+00	B	ND	MED-IND
TRUCK	I 129	200.0	1.4000E+01	0.	7.0000E-02	0.	E	D	MEDICAL
TRUCK	SC #6	12.1	3.6279E-02	2.4186E+01	3.0000E-03	2.0000E+00	A	D	MEDICAL
TRUCK	TC 99M	728.0	3.8480E+01	7.2800E+01	5.2857E-02	1.0000E-01	A	D	MEDICAL



TABLE A- 80

CITY LAT = 3.2740000E+01 CITY LONG = 9.7080000E+01 RADIUS = 1.1770000E+00  
 \* \* \* \* \* CITY = DALLAS ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHP'MT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	12.0	2.4000E-05	0.	2.0000E-06	0.	E	D	FUEL CY
TRUCK	PU239	1.0	6.9880E-02 *	1.0000E+00	6.9880E-02 *	1.0000E+00	B	ND	FUEL CY
TRUCK	U 235	3.0	1.6578E+04 *	1.0000E+00	5.5260E+03 *	3.3333E-01	A	ND	FUEL CY
TRUCK	U 235	4.0	6.7000E-02 *	0.	1.6750E-02 *	0.	E	D	FUEL CY
TRUCK	U 235	2.0	2.2600E+01 *	0.	1.1300E+01 *	0.	E	ND	FUEL CY
TRUCK	U 235	1.0	5.3000E+01 *	0.	5.3000E+01 *	0.	LS	ND	FUEL CY
TRUCK	AM241	8.0	5.0000E+01	4.4000E+01	1.1250E+01	5.5000E+00	A	ND	INDUSTR
TRUCK	CF252	2.0	1.2000E+01	7.6000E+00	6.0000E+00	3.8000E+00	B	ND	INDUSTR
TRUCK	CS137	6.0	1.2000E+01	2.6000E+01	2.0000E+00	4.3333E+00	A	ND	INDUSTR
TRUCK	FE 55	12.1	6.0465E-03	1.2093E+00	5.0000E-04	1.0000E-01	A	D	INDUSTR
TRUCK	IR192	2.0	1.2000E+00	4.0000E+00	6.0000E-01	2.0000E+00	A	ND	INDUSTR
TRUCK	IR192	24.2	1.2214E+03	4.8372E+01	5.0500E+01	2.0000E+00	B	ND	INDUSTR
TRUCK	KR 85	8.0	8.0000E+00	8.0000E-01	1.0000E+00	1.0000E-01	A	D	INDUSTR
TRUCK	KR 85	20.0	1.0000E-01	7.2000E-01	5.0000E-03	3.6000E-02	B	D	INDUSTR
TRUCK	KA226	16.0	1.6000E-05	6.0000E-01	1.0000E-06	3.7500E-02	B	ND	INDUSTR
TRUCK	IN111	52.0	7.0000E-02	0.	1.5000E-03	0.	A	D	MEDICAL
TRUCK	SC 46	616.7	3.6400E+01	7.5581E+02	5.9020E-02	1.2255E+00	A	D	MEDICAL
TRUCK	TC 99M	52.0	5.2000E-01	5.2000E+00	1.0000E-02	1.0000E-01	A	D	MEDICAL

TABLE A- 87

CITY LAT = 2.9760000E+01 CITY LONG = 9.5440000E+01 RADIUS = 1.1450000E+00  
 \* \* \* \* \* CITY = HOUSTON TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	AM241	8.0	9.0000E+01	4.4000E+01	1.1250E+01	5.5000E+00	A	NO	INDUSTR
AUTOMOBILE	CS137	8.0	1.6000E+01	4.0000E+01	2.0000E+00	5.0000E+00	A	NO	INDUSTR

TABLE A- 88

CITY LAT = 2.9760000E+01 CITY LONG = 9.5440000E+01 RADIUS = 1.1450000E+00  
 \* \* \* \* \* CITY = HOUSTON TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	U 235	36.3	3.4526E-03	0.	5.5167E-05	0.	E	NO	FUEL CY
AIR,FRT.	AM241	16.1	7.2003E+01	2.4001E+01	4.4742E+00	1.4914E+00	A	NO	INDUSTR
AIR,FRT.	H 3	572.0	2.6003E+00	0.	4.5459E-03	0.	A	D	INDUSTR
AIR,FRT.	IR192	12.1	7.6186E+02	2.4186E+01	6.3000E+01	2.0000E+00	A	NO	INDUSTR
AIR,FRT.	IR192	59.7	5.1256E+03	8.9875E+01	1.5288E+02	1.5057E+00	B	NO	INDUSTR
AIR,FRT.	NA 22	4.3	4.3333E-04	4.3333E-01	1.0000E-04	1.0000E-01	A	D	INDUSTR
AIR,FRT.	PO210	52.0	1.0400E-01	0.	2.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	S 35	60.7	3.2500E-01	0.	5.3571E-03	0.	A	D	INDUSTR
AIR,FRT.	SE 75	52.0	2.6000E-04	0.	5.0000E-06	0.	A	D	INDUSTR
AIR,FRT.	CO 60	2.0	1.0000E-02	2.0000E+00	5.0000E-03	1.0000E+00	A	NO	MED-IND
AIR,FRT.	CR 51	221.0	1.0357E+00	3.2500E+01	4.6863E-03	1.4706E-01	A	D	MED-IND
AIR,FRT.	XE133	264.3	1.5808E+02	6.7600E+01	5.9803E-01	2.3574E-01	A	D	MED-IND
AIR,FRT.	C 14	166.0	8.6600E-02	1.0000E-01	5.2169E-04	6.0241E-04	A	D	MEDICAL
AIR,FRT.	C 14	12.1	3.0233E-04	0.	2.5000E-05	0.	E	NO	MEDICAL
AIR,FRT.	CO 57	12.1	4.8372E-02	1.2053E+00	4.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 57	312.0	8.4760E-01	3.1200E+01	2.7167E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	HG197	52.0	4.2640E-01	5.2000E+00	8.2000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 123	780.0	2.5012E-01	5.7200E+01	3.2067E-04	7.3333E-02	A	D	MEDICAL
AIR,FRT.	I 125	320.7	1.5956E+00	5.2000E+00	4.9759E-03	1.6216E-02	A	D	MEDICAL
AIR,FRT.	I 131	250.5	2.6411E+02	6.4068E+02	1.0542E+00	2.5573E+00	A	D	MEDICAL
AIR,FRT.	IN111	104.0	1.5600E-01	1.0400E+01	1.5000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	K 43	84.7	5.8047E-01	6.1674E+01	6.8571E-03	7.2857E-01	A	D	MEDICAL
AIR,FRT.	MO 99	112.7	5.9800E+01	1.0920E+02	5.3877E-01	9.6923E-01	A	D	MEDICAL
AIR,FRT.	NI 63	12.1	4.3837E+00	1.2093E-03	3.6258E-01	1.0000E-04	A	NO	MEDICAL
AIR,FRT.	P 32	104.7	4.9931E+01	7.5410E+01	4.7687E-01	7.2021E-01	A	D	MEDICAL
AIR,FRT.	PM147	6.0	1.1820E+02	1.2000E+00	1.9700E+01	2.0000E-01	A	D	MEDICAL
AIR,FRT.	RB 85	12.1	1.2093E-03	0.	1.0000E-04	0.	A	NO	MEDICAL
AIR,FRT.	RB 86	12.1	1.2093E-01	2.4186E+00	1.0000E-02	2.0000E-01	A	D	MEDICAL
AIR,FRT.	TC 99M	6760.0	7.0034E+02	6.7600E+02	1.0360E-01	1.0000E-01	A	D	MEDICAL



TABLE A- 89

CITY LAT = 2.9760000E+01 CITY LONG = 9.5440000E+01 RADIUS = 1.1450000E+00  
 \* \* \* \* \* CITY = HOUSTON ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	NF	4.0	4.0000E-03	2.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,FRT.	PU238	1.0	8.9000E+00	5.0000E-02	8.9000E+00	5.0000E-02	B	ND	FUEL CY
AIR,FRT.	IR192	48.4	3.4102E+03	1.1488E+02	7.0500E+01	2.3750E+00	B	ND	INDUSTR
AIR,FRT.	KR 85	2.0	2.0000E+01	3.4000E+00	1.0000E+01	1.7000E+00	LS	D	INDUSTR
AIR,FRT.	GA 67	8.7	3.9000E-02	8.6667E-01	4.5000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	52.0	2.6000E-03	1.0400E+01	5.0000E-05	2.0000E-01	A	D	MEDICAL
AIR,FRT.	I 131	52.0	5.3600E-02	2.0800E+01	1.8000E-03	4.0000E-01	A	ND	MEDICAL
AIR,FRT.	MO 99	52.0	2.9380E+01	1.1440E+02	5.6500E-01	2.2000E+00	A	ND	MEDICAL

TABLE A- 90

CITY LAT = 2.9760000E+01 CITY LONG = 9.5440000E+01 RADIUS = 1.1450000E+00  
 \* \* \* \* \* CITY = HOUSTON TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	PU238	1.0	2.1000E+00	1.0000E+01	2.1000E+00	1.0000E+01	B	ND	FUEL CY
AIR,PASS.	U 235	52.0	8.9440E-01	1.4560E+02	1.7200E-02	2.8000E+00	A	D	FUEL CY
AIR,PASS.	CF252	2.0	5.4000E-02	1.0000E+01	2.7000E-02	5.0000E+00	A	ND	INDUSTR
AIR,PASS.	CS137	40.3	1.3025E+01	7.6465E+01	3.2337E-01	1.8984E+00	A	ND	INDUSTR
AIR,PASS.	H 3	251.3	1.6294E+00	0.	6.4828E-03	0.	A	D	INDUSTR
AIR,PASS.	IR192	48.4	7.5460E+06	4.8372E+00	1.5600E+05	1.0000E-01	B	ND	INDUSTR
AIR,PASS.	S 35	8.7	1.3000E-02	0.	1.5000E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	260.0	2.3400E-01	4.6800E+01	9.0000E-04	1.8000E-01	A	D	INDUSTR
AIR,PASS.	CO 60	2.0	5.6000E-07	2.0000E-01	2.8000E-07	1.0000E-01	A	D	MED-IND
AIR,PASS.	CR 51	52.0	5.2000E-02	1.0400E+01	1.0000E-03	2.0000E-01	A	D	MED-IND
AIR,PASS.	XE127	4.0	2.8200E-01	4.0000E-01	7.0500E-02	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	624.0	2.8000E+01	3.6400E+01	4.5000E-02	5.8333E-02	A	D	MED-IND
AIR,PASS.	C 14	136.9	4.6494E-01	2.4186E+01	3.3973E-03	1.7673E-01	A	D	MEDICAL
AIR,PASS.	CO 57	208.0	5.2000E-04	0.	2.5000E-06	0.	A	D	MEDICAL
AIR,PASS.	CO 57	52.0	2.6000E-01	0.	5.0000E-03	0.	E	D	MEDICAL
AIR,PASS.	FE 59	4.3	2.1667E-03	8.6667E-01	5.0000E-04	2.0000E-01	A	D	MEDICAL
AIR,PASS.	GA 67	728.0	1.6588E+01	6.2400E+01	2.2786E-02	8.5714E-02	A	D	MEDICAL
AIR,PASS.	I 123	52.0	8.8400E-02	1.3000E+01	1.7000E-03	2.5000E-01	A	D	MEDICAL
AIR,PASS.	I 123	156.0	2.6520E-01	3.9000E+01	1.7000E-03	2.5000E-01	A	ND	MEDICAL
AIR,PASS.	I 125	728.0	1.9736E+00	7.2800E+01	1.4747E-03	1.0000E-01	A	D	MEDICAL
AIR,PASS.	I 130	52.0	1.5600E-03	2.6000E+01	3.0000E-05	5.0000E-01	A	D	MEDICAL
AIR,PASS.	I 131	2768.1	1.4990E+01	1.6324E+03	5.4154E-03	5.8973E-01	A	D	MEDICAL
AIR,PASS.	I 131	208.0	4.2640E-01	1.0920E+02	2.0500E-03	5.2500E-01	A	ND	MEDICAL
AIR,PASS.	IN111	260.0	1.6380E+00	1.0400E+01	6.3000E-03	4.0000E-02	A	D	MEDICAL
AIR,PASS.	MO 99	572.0	1.0088E+03	1.2370E+03	1.7636E+00	2.1636E+00	A	D	MEDICAL
AIR,PASS.	MO 99	416.0	4.5505E+02	8.4760E+02	1.0939E+00	2.0375E+00	A	ND	MEDICAL
AIR,PASS.	MO 99	156.0	1.8054E+04	3.6400E+02	1.1573E+02	2.3333E+00	B	D	MEDICAL
AIR,PASS.	NI 63	2.0	3.0000E-02	0.	1.5000E-02	0.	A	ND	MEDICAL
AIR,PASS.	P 32	82.3	8.5107E-01	5.2000E+00	1.0337E-02	6.3158E-02	A	D	MEDICAL
AIR,PASS.	TC 99M	3536.0	2.3015E+02	3.2240E+02	6.5088E-02	9.1176E-02	A	D	MEDICAL

TABLE A- 91

CITY LAT = 2.9760000E+01 CITY LONG = 9.5440000E+01 RADIUS = 1.1450000E+00  
 \* \* \* \* \* CITY = HOUSTON ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MF	10.0	1.0000E-02	5.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,PASS.	U 235	52.0	7.4360E-01	9.3600E+01	1.4300E-02	1.8000E+00	A	D	FUEL CY
AIR,PASS.	AM241	2.0	2.0000E-01	0.	1.0000E-01	0.	A	ND	INDUSTR
AIR,PASS.	CA 45	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	H 3	13.0	5.6333E-02	0.	4.3333E-03	0.	A	D	INDUSTR
AIR,PASS.	S 35	4.3	2.1667E-02	0.	5.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	52.0	1.0400E-01	1.0400E+01	2.0000E-03	2.0000E-01	A	D	INDUSTR
AIR,PASS.	CR 51	4.3	8.6667E-03	4.3333E-01	2.0000E-03	1.0000E-01	A	D	WED-IND
AIR,PASS.	XE133	156.0	2.0200E+02	7.8000E+01	1.3060E+00	5.8000E-01	A	D	WED-IND
AIR,PASS.	C 14	20.8	4.4946E-02	1.2093E+01	2.1650E-03	5.8252E-01	A	D	MEDICAL
AIR,PASS.	I 125	216.7	7.6891E-02	1.0833E+01	3.5480E-04	5.0000E-02	A	D	MEDICAL
AIR,PASS.	I 131	520.0	6.5520E+00	2.1840E+02	1.2600E-02	4.2000E-01	A	D	MEDICAL
AIR,PASS.	I 131	208.0	9.3070E-01	2.1320E+02	4.4745E-03	1.0250E+00	A	ND	MEDICAL
AIR,PASS.	MO 99	260.0	2.1840E+02	4.1600E+02	8.4000E-01	1.6000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	104.0	2.3488E+02	2.8080E+02	2.2585E+00	2.7000E+00	A	ND	MEDICAL
AIR,PASS.	MO 99	156.0	1.7576E+04	2.8600E+02	1.1267E+02	1.8333E+00	B	D	MEDICAL
AIR,PASS.	TC 99M	364.0	9.1000E+00	0.	2.5000E-02	0.	A	D	MEDICAL

TABLE A- 92

CITY LAT = 2.976000E+01		CITY LONG = 9.544000E+01		RADIUS = 1.145000E+00		TO OR FROM		END USE	
CITY = HOUSTON		CITY = HOUSTON		RADIUS =		TO OR FROM		END USE	
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MF	2.0	1.1600E+02	4.000E-01	5.800E+01	2.0000E-01	A	ND	FUEL CY
TRUCK	PU239	5.0	2.0470E+03	1.6100E+01	4.0940E+02	3.2200E+00	A	D	FUEL CY
TRUCK	U 235	22.0	1.7600E+03	1.5400E+02	8.000E+01	7.0000E+00	B	ND	FUEL CY
TRUCK	U 235	6.0	2.0106E+05	0.	3.3511E+04	0.	R	ND	FUEL CY
TRUCK	U 235	2.0	6.0000E-02	0.	3.000E-02	0.	E	D	FUEL CY
TRUCK	U 238	36.3	2.1595E+06	9.0698E+00	5.9524E+04	2.5000E-01	A	ND	FUEL CY
TRUCK	AM241	136.7	2.2188E+03	6.7048E+02	1.6237E+01	4.9065E+00	A	HD	INDUSTR
TRUCK	AM241	12.1	1.0400E+03	9.6744E+08	8.6000E-01	8.0000E-01	B	D	INDUSTR
TRUCK	AM241	12.1	2.0800E+03	2.1767E+01	1.7200E+02	1.8000E+00	B	ND	INDUSTR
TRUCK	CS137	98.3	2.5384E+02	3.4505E+02	2.5829E+00	3.5109E+00	A	ND	INDUSTR
TRUCK	H 3	82.0	6.7200E+02	0.	8.1951E+00	0.	B	D	INDUSTR
TRUCK	IR192	16.1	5.4659E+02	8.0558E+01	3.3964E+01	5.0058E+00	A	ND	INDUSTR
TRUCK	IR192	3.0	9.2000E+01	3.000E+01	3.0667E+01	1.0000E+01	B	D	INDUSTR
TRUCK	IR192	147.1	9.8865E+03	2.6581E+02	6.7202E+01	1.8068E+00	B	ND	INDUSTR
TRUCK	KR 85	2.0	1.0000E+00	2.000E-01	5.0000E-01	1.0000E-01	A	D	INDUSTR
TRUCK	RA226	1.0	4.0000E-03	3.000E+00	4.000E-03	3.0000E+00	A	ND	INDUSTR
TRUCK	RA226	8.0	4.0000E-06	4.000E-01	1.0000E-06	5.0000E-02	B	ND	INDUSTR
TRUCK	CO 60	2.0	1.4000E+04	4.000E+00	7.0000E+03	2.0000E+00	B	ND	MED-IND
TRUCK	XE135	260.0	4.6800E+00	1.5600E+01	1.8000E-02	6.0000E-02	A	D	MED-IND
TRUCK	C 14	156.0	3.1200E-02	0.	2.0000E-04	0.	A	D	MEDICAL
TRUCK	GA 67	312.0	1.2480E+00	3.1260E+01	4.0000E-03	1.0000E-01	A	D	MEDICAL
TRUCK	IN111	109.0	3.9000E-01	0.	3.7500E-03	0.	A	D	MEDICAL
TRUCK	P 32	12.1	1.2093E-04	0.	1.000E-05	0.	E	ND	MEDICAL
TRUCK	TC 99M	7389.0	8.2322E+02	6.3440E+02	1.0668E-01	8.5915E-02	B	D	MEDICAL
TRUCK	W	6.0	6.0000E+00	3.000E+02	1.0000E+00	5.0000E+01	A	D	WASTE
TRUCK	M	8.0	1.5600E-01	6.2000E+01	1.9500E-02	7.7500E+00	LS	D	WASTE

TABLE A- 93

CITY LAT = 2.976000E+01		CITY LONG = 9.544000E+01		RADIUS = 1.145000E+00		ACROSS		END USE	
CITY = HOUSTON		CITY = HOUSTON		RADIUS =		ACROSS		END USE	
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	CS137	8.0	4.4900E+00	0.	5.6125E-01	0.	A	ND	INDUSTR
TRUCK	IR192	12.1	1.2658E+03	3.0233E+01	1.0500E+02	2.5000E+00	B	ND	INDUSTR
TRUCK	KR 85	24.0	9.6000E+00	0.	4.0000E-01	0.	A	D	INDUSTR
TRUCK	SE 75	8.0	4.0000E-02	8.0000E-01	5.0000E-03	1.0000E-01	LS	D	INDUSTR
TRUCK	CO 60	8.0	8.3460E+03	4.8000E+00	1.0433E+03	6.0000E-01	B	ND	MED-IND
TRUCK	M	4.0	2.0000E-02	4.0000E-01	5.0000E-03	1.0000E-01	LS	D	WASTE

TABLE A- 94

CITY LAT = 3.849000E+01 CITY LONG = 9.027000E+01 RADIUS = 1.090000E+00  
 \* \* \* \* \* CITY = ST. LOUIS TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	2.0	2.0000E-07	4.0000E-02	1.0000E-07	2.0000E-02	E	ND	FUEL CY
AIR,FRT.	AM241	2.0	2.0000E-06	0.	1.0000E-06	0.	E	ND	INDUSTR
AIR,FRT.	H 3	65.0	1.3303E+00	0.	2.0467E-02	0.	A	D	INDUSTR
AIR,FRT.	IR192	10.4	1.0400E+03	1.0400E+01	1.0000E+02	1.0000E+00	B	ND	INDUSTR
AIR,FRT.	SE 75	468.0	1.6770E+00	1.2480E+02	3.5833E-03	2.6667E-01	A	D	INDUSTR
AIR,FRT.	CM244	2.0	2.0000E-06	0.	1.0000E-06	0.	E	ND	MED-IND
AIR,FRT.	CR 51	52.0	2.6000E-05	1.0400E+01	5.0000E-07	2.0000E-01	A	D	MED-IND
AIR,FRT.	XE133	52.0	7.2800E+01	2.6000E+01	1.4000E+00	5.0000E-01	A	D	MED-IND
AIR,FRT.	AU198	52.0	8.3200E+02	3.1200E+02	1.6000E+01	6.0000E+00	A	D	MEDICAL
AIR,FRT.	BR 82	36.3	3.7488E+00	8.9488E+01	1.0333E-01	2.4667E+00	A	D	MEDICAL
AIR,FRT.	C 14	4.3	8.6667E-03	0.	2.0000E-03	0.	A	D	MEDICAL
AIR,FRT.	FE 59	104.0	1.0504E-02	1.0400E+01	1.0100E-04	1.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	4.3	2.6000E-02	4.3333E-01	6.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	HG197	104.0	3.4840E+00	1.5600E+01	3.3500E-02	1.5000E-01	A	D	MEDICAL
AIR,FRT.	HG203	52.0	2.3920E+00	2.6000E+01	4.6000E-02	5.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	1196.0	3.2042E-02	1.0400E+01	2.6791E-05	8.6957E-03	A	D	MEDICAL
AIR,FRT.	I 131	3648.5	3.4829E+01	1.4224E+03	9.5462E-03	3.8986E-01	A	D	MEDICAL
AIR,FRT.	I 131	48.4	2.0111E+03	7.8605E+01	4.1575E+01	1.6256E+00	B	D	MEDICAL
AIR,FRT.	MO 99	5876.0	6.5398E+03	1.1086E+04	1.1130E+00	1.8867E+00	A	D	MEDICAL
AIR,FRT.	MO 99	52.0	5.8708E+01	8.3200E+01	1.1290E+00	1.6000E+00	A	ND	MEDICAL
AIR,FRT.	MO 99	104.0	1.7576E+04	1.0400E+02	1.6900E+02	1.0000E+00	B	D	MEDICAL
AIR,FRT.	P 32	221.0	3.0553E+02	1.4777E+02	1.3825E+00	6.6863E-01	A	D	MEDICAL
AIR,FRT.	TC 99M	156.0	4.4200E+00	0.	2.8333E-02	0.	A	D	MEDICAL

TABLE A- 95

CITY LAT = 3.8498888E+01 CITY LONG = 9.8278888E+01 RADIUS = 1.8968888E+00  
 . . . . . CITY = ST. LOUIS ACROSS . . . . .

MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	RF	2.8	2.8000E-06	0.	1.0000E-06	0.	A	ND	FUEL CY
AIR,FRT.	PU239	6.8	6.8000E+02	0.	1.0001E+02	0.	A	ND	FUEL CY
AIR,FRT.	PU239	5.8	8.8000E-05	0.	1.6000E-05	0.	E	ND	FUEL CY
AIR,FRT.	TH228	1.8	1.8000E-08	1.0000E-01	1.8000E-08	1.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 235	112.7	2.8248E-01	1.8833E+01	1.7972E-03	9.6154E-02	A	D	FUEL CY
AIR,FRT.	U 235	36.8	1.9571E+04	1.5208E+01	5.4365E+02	4.2222E-01	A	ND	FUEL CY
AIR,FRT.	U 235	1.8	1.8000E+08	0.	1.8000E+08	0.	E	D	FUEL CY
AIR,FRT.	U 235	8.0	4.6856E+00	0.	5.8578E-01	0.	LS	D	FUEL CY
AIR,FRT.	U 238	1.8	2.8000E-02	0.	2.0000E-02	0.	E	ND	FUEL CY
AIR,FRT.	AM241	2.0	2.8000E+00	0.	1.0000E+00	0.	A	ND	INDUSTR
AIR,FRT.	AM241	2.8	2.8000E-06	0.	1.8000E-06	0.	E	ND	INDUSTR
AIR,FRT.	CA 45	4.3	4.3333E-02	0.	1.0000E-02	0.	A	D	INDUSTR
AIR,FRT.	CS137	12.1	2.6605E-01	3.6279E+01	2.2000E-02	3.0000E+00	A	D	INDUSTR
AIR,FRT.	CS137	2.8	4.0000E+01	5.0000E-01	2.0000E+01	2.5000E-01	A	ND	INDUSTR
AIR,FRT.	FE 59	16.1	7.1205E-02	1.6053E+00	4.4246E-03	1.0000E-01	A	D	INDUSTR
AIR,FRT.	H 3	595.7	5.3515E+00	0.	8.9840E-03	0.	A	D	INDUSTR
AIR,FRT.	IR192	12.4	1.8780E+03	1.2400E+01	8.6290E+01	1.8000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	53.3	3.9997E+03	6.7386E+01	7.5051E+01	1.2644E+00	B	ND	INDUSTR
AIR,FRT.	IR 85	2.8	1.8000E+00	2.8000E-01	5.8000E-01	1.6000E-01	A	D	INDUSTR
AIR,FRT.	PO210	52.0	1.8400E-01	0.	2.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	PO210	572.0	5.9384E+00	0.	1.0382E-02	0.	E	D	INDUSTR
AIR,FRT.	S 35	117.8	6.6733E-01	0.	5.7637E-03	0.	A	D	INDUSTR
AIR,FRT.	SE 75	156.0	2.9120E+01	3.1200E+02	1.8667E-01	2.0000E+00	A	D	INDUSTR
AIR,FRT.	CH244	2.8	1.2000E-03	2.0000E-01	6.0000E-04	1.0000E-01	A	D	MED-IND
AIR,FRT.	CO 60	18.4	1.5600E-01	1.8400E+01	1.5000E-02	1.0000E+00	A	ND	MED-IND
AIR,FRT.	CR 51	377.8	1.1804E+00	5.8500E+01	3.1310E-03	1.5517E-01	A	D	MED-IND
AIR,FRT.	HE133	288.9	4.8219E+02	8.6465E+01	2.0015E+00	4.3829E-01	A	D	MED-IND
AIR,FRT.	C 14	445.7	2.8137E-01	8.0000E-02	4.5185E-04	1.7951E-04	A	D	MEDICAL
AIR,FRT.	CA 47	24.2	2.4186E-02	1.2093E+01	1.0000E-03	5.0000E-01	A	D	MEDICAL
AIR,FRT.	CO 57	52.0	3.1200E-04	5.2000E+00	6.0000E-06	1.0000E-01	A	ND	MEDICAL
AIR,FRT.	CS134	12.1	1.2093E-03	3.6279E+00	1.0000E-04	3.0000E-01	A	D	MEDICAL
AIR,FRT.	FE 59	4.3	8.6667E-03	1.3000E+00	2.0000E-03	3.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	8.7	1.1700E-01	4.7667E+00	1.3500E-02	5.5800E-01	A	D	MEDICAL
AIR,FRT.	HG197	52.8	4.8360E-01	5.2000E+00	9.3000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	464.4	8.7804E+00	1.8865E+01	1.8908E-02	4.0625E-02	A	D	MEDICAL
AIR,FRT.	I 131	1286.4	7.4930E+01	1.6583E+03	5.8248E-02	1.2891E+00	A	D	MEDICAL
AIR,FRT.	I 131	936.0	5.6514E+00	1.1024E+03	6.0378E-03	1.1778E+00	A	ND	MEDICAL
AIR,FRT.	NO 99	92.6	1.3655E+02	1.9948E+02	1.4744E+00	2.1540E+00	A	D	MEDICAL
AIR,FRT.	NO 99	1892.0	8.8096E+02	2.2672E+03	8.0674E-01	2.8762E+00	A	ND	MEDICAL
AIR,FRT.	NO 99	48.4	5.4185E+03	3.2405E+02	1.1205E+02	6.7000E+00	B	D	MEDICAL
AIR,FRT.	NI 63	2.0	6.0000E-06	2.0000E-01	3.0000E-06	1.0000E-01	A	D	MEDICAL
AIR,FRT.	P 32	212.3	1.2324E+00	3.2067E+01	5.8041E-03	1.5102E-01	A	D	MEDICAL
AIR,FRT.	RU106	36.3	5.4419E-01	8.7070E+01	1.5000E-02	2.4000E+00	A	D	MEDICAL



TABLE A- 96

CITY LAT = 3.8490000E+01 CITY LONG = 9.0270000E+01 RADIUS = 1.0900000E+00  
 \* \* \* \* \* CITY = ST. LOUIS TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	U 235	48.4	7.5219E-01 *	2.4186E+00	1.5550E-02 *	5.0000E-02	A	D	FUEL CY
AIR,PASS.	U 238	1.0	5.0000E+00 *	0.	5.0000E+00 *	0.	E	NO	FUEL CY
AIR,PASS.	CS137	2.0	1.9400E-04	2.0000E-01	9.7000E-05	1.0000E-01	A	NO	INDUSTR
AIR,PASS.	H 3	34.7	2.9900E-01	0.	8.6250E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	7800.0	5.9456E+01	2.1008E+03	7.6225E-03	7.6933E-01	A	D	INDUSTR
AIR,PASS.	CR 51	1924.0	1.4607E+01	3.6400E+02	7.5920E-03	1.8919E-01	A	D	MED-IND
AIR,PASS.	XE133	1963.0	1.4425E+02	0.	7.3484E-02	0.	A	D	MED-IND
AIR,PASS.	AU198	416.0	5.3600E-01	2.2880E+02	2.2500E-03	5.5000E-01	A	D	MEDICAL
AIR,PASS.	C 14	17.3	1.7333E-02	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	C 14	13.0	1.3000E-02	0.	1.0000E-03	0.	A	NO	MEDICAL
AIR,PASS.	CE137	52.0	5.2000E-02	1.0400E+01	1.0000E-03	2.0000E-01	A	D	MEDICAL
AIR,PASS.	CO 57	1196.0	7.5920E-01	1.4560E+02	6.3478E-04	1.2174E-01	A	D	MEDICAL
AIR,PASS.	CO 57	624.0	4.1252E-01	0.	6.6108E-04	0.	E	D	MEDICAL
AIR,PASS.	FE 59	416.0	4.8144E-02	7.2800E+01	9.6500E-05	1.7500E-01	A	D	MEDICAL
AIR,PASS.	FE 59	676.0	3.3540E-02	0.	4.9615E-05	0.	E	D	MEDICAL
AIR,PASS.	GA 67	13.0	6.2400E-01	2.8600E+01	4.8000E-02	2.2000E+00	A	D	MEDICAL
AIR,PASS.	HG197	1144.0	1.7290E+00	2.2360E+02	1.5114E-03	1.9545E-01	A	D	MEDICAL
AIR,PASS.	HG203	364.0	1.3000E+00	5.2000E+01	3.5714E-03	1.4286E-01	A	D	MEDICAL
AIR,PASS.	I 125	7540.0	4.9039E+00	1.6120E+02	6.5038E-04	2.1379E-02	A	D	MEDICAL
AIR,PASS.	I 125	4108.0	7.5790E-02	1.5600E+01	1.8449E-05	3.7975E-03	E	D	MEDICAL
AIR,PASS.	I 130	52.0	1.5600E-03	2.6000E+01	3.0000E-05	5.0000E-01	A	D	MEDICAL
AIR,PASS.	I 131	41704.0	7.2958E+02	1.4472E+04	1.7494E-02	3.4711E-01	A	D	MEDICAL
AIR,PASS.	I 131	36.3	1.1936E+03	5.6837E+01	3.2900E+01	1.5667E+00	E	D	MEDICAL
AIR,PASS.	I 131	52.0	5.2000E-02	0.	1.0000E-03	0.	E	D	MEDICAL
AIR,PASS.	MG 28	2.0	2.2200E-04	2.0000E+00	1.1100E-04	1.0000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	11985.1	1.2940E+04	1.7635E+04	1.0797E+00	1.4718E+00	A	D	MEDICAL
AIR,PASS.	MO 99	52.0	5.8708E+01	8.3200E+01	1.1290E+00	1.6000E+00	A	NO	MEDICAL
AIR,PASS.	MO 99	52.0	5.2000E-04	2.0800E+01	1.0000E-05	4.0000E-01	E	D	MEDICAL
AIR,PASS.	P 32	2400.7	2.6321E+01	6.3613E+02	1.0964E-02	2.6498E-01	A	D	MEDICAL
AIR,PASS.	SR 85	156.0	5.2000E-02	4.1600E+01	3.3333E-04	2.6667E-01	A	D	MEDICAL
AIR,PASS.	TC 99M	6516.0	2.8097E+02	1.0036E+03	4.0626E-02	1.4511E-01	A	D	MEDICAL



TABLE A- 97

CITY LAT = 3.8490000E+01 CITY LONG = 9.0270000E+01 RADIUS = 1.0900000E+00  
 \* \* \* \* \* CITY = ST. LOUIS ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPNT	AVERAGE TI PER SHPNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MF	2.0	2.0000E-03	1.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,PASS.	PU238	4.0	2.1500E+02	0.	5.3750E+01	0.	A	D	FUEL CY
AIR,PASS.	PU238	5.0	2.9601E+02	4.8000E+00	5.9202E+01	9.6000E-01	A	ND	FUEL CY
AIR,PASS.	PU238	1.0	2.4900E+02	5.6000E+00	2.4900E+02	5.6000E+00	B	ND	FUEL CY
AIR,PASS.	PU240	1.0	5.4000E-02	0.	5.4000E-02	0.	A	ND	FUEL CY
AIR,PASS.	PU241	1.0	1.0000E-03	0.	1.0000E-03	0.	A	ND	FUEL CY
AIR,PASS.	PU244	2.0	3.0000E-02	0.	1.5000E-02	0.	A	ND	FUEL CY
AIR,PASS.	U 233	1.0	1.0000E-01	0.	1.0000E-01	0.	A	ND	FUEL CY
AIR,PASS.	U 235	168.5	3.2774E+00	1.0021E+02	1.9455E-02	5.9484E-01	A	D	FUEL CY
AIR,PASS.	U 235	19.0	1.4646E+02	1.8600E+01	7.7083E+00	9.7855E-01	A	ND	FUEL CY
AIR,PASS.	U 235	18.1	8.0480E+00	0.	4.4481E-01	0.	E	D	FUEL CY
AIR,PASS.	U 235	9.0	1.6950E+03	0.	1.8833E+02	0.	E	ND	FUEL CY
AIR,PASS.	U 235	1.0	2.0000E-03	0.	2.0000E-03	0.	LS	ND	FUEL CY
AIR,PASS.	U 238	13.1	5.9282E+04	2.4186E+00	4.5277E+03	1.8472E-01	A	D	FUEL CY
AIR,PASS.	U 238	73.6	4.3562E+05	7.0000E-02	5.9221E+03	9.5163E-04	A	ND	FUEL CY
AIR,PASS.	AM241	12.1	1.2093E-06	1.2093E+00	1.0000E-07	1.0000E-01	A	D	INDUSTR
AIR,PASS.	CA 45	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	CF252	2.0	6.0000E-04	4.0000E-01	3.0000E-04	2.0000E-01	A	ND	INDUSTR
AIR,PASS.	FE 55	2.0	7.0000E-02	0.	3.5000E-02	0.	A	D	INDUSTR
AIR,PASS.	H 3	965.1	1.1392E+02	1.2133E+01	1.1804E-01	1.2572E-02	A	D	INDUSTR
AIR,PASS.	H 3	4.3	1.0833E-01	0.	2.5000E-02	0.	A	ND	INDUSTR
AIR,PASS.	H 3	8.0	1.4000E-02	0.	1.7500E-03	0.	E	D	INDUSTR
AIR,PASS.	IR192	2.0	3.5000E-01	0.	1.7500E-01	0.	B	ND	INDUSTR
AIR,PASS.	KR 85	2.0	2.0000E+00	2.0000E-01	1.0000E+00	1.0000E-01	A	D	INDUSTR
AIR,PASS.	KR 85	24.2	4.2326E-04	0.	1.7500E-05	0.	E	D	INDUSTR
AIR,PASS.	S 35	8.7	8.6667E-02	0.	1.0000E-02	0.	A	D	INDUSTR
AIR,PASS.	CR 51	117.0	2.2967E-01	3.2500E+01	1.9630E-03	2.7778E-01	A	D	MED-IND
AIR,PASS.	XE133	129.8	1.0626E+02	1.6930E+01	8.1865E-01	1.3043E-01	A	D	MED-IND
AIR,PASS.	C 14	398.8	5.6055E-01	1.2133E+01	1.4055E-03	3.0421E-02	A	D	MEDICAL
AIR,PASS.	C 14	16.4	9.1705E-03	0.	5.5828E-04	0.	A	ND	MEDICAL
AIR,PASS.	C 14	6.0	1.6000E-02	0.	2.6667E-03	0.	E	D	MEDICAL
AIR,PASS.	CD109	2.0	2.0000E-01	4.0000E-02	1.0000E-01	2.0000E-02	A	ND	MEDICAL
AIR,PASS.	CO 57	416.0	5.2260E-04	1.0400E+01	1.2563E-06	2.5000E-02	A	D	MEDICAL
AIR,PASS.	CO 57	52.0	4.6800E-04	1.0400E+01	9.0000E-06	2.0000E-01	A	ND	MEDICAL
AIR,PASS.	GA 67	177.7	1.2389E+01	2.1667E+00	6.9732E-02	1.2155E-02	A	D	MEDICAL
AIR,PASS.	HG197	52.0	1.6640E-01	5.2000E+00	3.2000E-03	1.0000E-01	A	D	MEDICAL
AIR,PASS.	I 123	210.0	3.6800E-01	2.7000E+01	1.7524E-03	1.2857E-01	A	D	MEDICAL
AIR,PASS.	I 125	1586.7	2.1945E+01	4.7647E+01	1.3830E-02	3.0029E-02	A	D	MEDICAL
AIR,PASS.	I 125	2.0	1.0000E-02	2.0000E-02	5.0000E-03	1.0000E-02	LS	D	MEDICAL
AIR,PASS.	I 131	8060.0	6.0624E+01	1.0031E+04	7.5215E-03	1.2443E+00	A	D	MEDICAL
AIR,PASS.	I 131	1040.0	2.9418E+00	7.5920E+02	2.8287E-03	7.3000E-01	A	ND	MEDICAL
AIR,PASS.	IN111	156.0	4.6800E-01	0.	3.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	HG 28	10.0	2.4500E-03	1.0000E+01	2.4500E-04	1.0000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	76.2	3.3074E+01	9.4930E+01	4.341E-01	1.2460E+00	A	D	MEDICAL
AIR,PASS.	MO 99	2028.0	1.4975E+03	3.9156E+03	7.384E-01	1.9308E+00	A	ND	MEDICAL
AIR,PASS.	MO 99	104.0	2.6000E+01	2.6000E+02	2.5000E-01	2.5000E+00	B	D	MEDICAL
AIR,PASS.	P 32	65.0	2.7993E-01	5.6333E+00	4.3067E-03	8.6667E-02	A	D	MEDICAL
AIR,PASS.	P 33	4.3	2.1667E-03	0.	5.0000E-04	0.	A	D	MEDICAL
AIR,PASS.	RB 86	16.4	1.5126E-01	2.8519E+00	9.2086E-03	1.7362E-01	A	D	MEDICAL
AIR,PASS.	TC 99M	104.0	3.1200E+00	1.0400E+01	3.0000E-02	1.0000E-01	A	D	MEDICAL

TABLE A- 98

CITY LAT = 3.8490000E+01      CITY LONG = 9.0270000E+01      RADIUS = 1.0900000E+00  
 \* \* \* \* \* CITY = ST. LOUIS      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	U 235	1.0	2.4300E-02 *	0.	2.4300E-02 *	0.	E	D	FUEL CY
SHIP	KR 85	2.0	1.0000E+00	2.0000E-01	5.0000E-01	1.0000E-01	A	D	INDUSTR

TABLE A- 99

CITY LAT = 3.8490000E+01      CITY LONG = 9.0270000E+01      RADIUS = 1.0900000E+00  
 \* \* \* \* \* CITY = ST. LOUIS      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
RAIL	U 238	83224.2	1.9845E+10 *	0.	2.3845E+05 *	0.	LS	D	FUEL CY

TABLE A-100

CITY LAT = 3.8490000E+01 CITY LONG = 9.0270000E+01 RADIUS = 1.0900000E+00  
 \* \* \* \* \* CITY = ST. LOUIS TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	U 235	104.0	4.2172E+00 *	3.2000E+00	4.0550E-02 *	5.0000E-02	A	D	FUEL CY
TRUCK	U 235	37.0	1.1802E+06 *	1.4500E+02	3.1897E+04 *	3.9189E+00	B	ND	FUEL CY
TRUCK	U 238	72.6	4.7767E+06 *	1.4512E+01	6.5833E-04 *	2.0000E-01	A	D	FUEL CY
TRUCK	U 238	8.0	4.9900E+06 *	0.	6.2373E+05 *	0.	LB	D	FUEL CY
TRUCK	CA 45	4.3	8.6667E-03	0.	2.0000E-03	0.	A	D	INDUSTR
TRUCK	CS137	79.0	2.0820E+01	0.	2.6354E-01	0.	A	ND	INDUSTR
TRUCK	H 3	260.0	1.2493E+01	0.	4.8050E-02	0.	A	D	INDUSTR
TRUCK	S 35	52.0	5.2000E-01	0.	1.0000E-02	0.	A	D	INDUSTR
TRUCK	SE 75	6500.0	4.3653E+01	1.6588E+03	6.7159E-03	2.5520E-01	A	D	INDUSTR
TRUCK	CO 60	12.1	1.1851E+03	3.0233E+01	9.8000E+01	2.5000E+00	B	ND	MED-IND
TRUCK	CR 51	1040.0	1.4017E+01	2.3400E+02	1.3478E-02	2.2500E-01	A	D	MED-IND
TRUCK	XE133	260.0	8.4760E+00	0.	3.2600E-02	0.	A	D	MED-IND
TRUCK	AU198	572.0	1.4040E+00	2.8080E+02	2.4545E-03	4.9091E-01	A	D	MEDICAL
TRUCK	AU198	32.0	1.0400E-01	0.	2.0000E-03	0.	E	D	MEDICAL
TRUCK	C 14	312.0	4.6800E-02	0.	1.5000E-14	0.	A	D	MEDICAL
TRUCK	CO 57	624.0	1.6234E-01	0.	2.6017E-04	0.	A	D	MEDICAL
TRUCK	CO 57	52.0	1.1960E-02	0.	2.3000E-04	0.	A	ND	MEDICAL
TRUCK	CO 57	260.0	2.6156E-01	0.	1.0060E-03	0.	E	D	MEDICAL
TRUCK	FE 59	364.0	5.7968E-02	1.7680E+02	2.6914E-04	4.8571E-01	A	D	MEDICAL
TRUCK	FE 59	208.0	7.2800E-03	0.	3.5000E-05	0.	E	D	MEDICAL
TRUCK	GA 67	156.0	7.2800E-01	1.5600E+01	4.6567E-03	1.3000E-01	A	D	MEDICAL
TRUCK	H0197	1300.0	2.9900E+00	1.7680E+02	2.3000E-03	1.3600E-01	A	D	MEDICAL
TRUCK	H0203	52.0	5.2000E-02	2.0800E+01	1.0000E-03	4.0000E-01	A	D	MEDICAL
TRUCK	I 125	5200.0	1.4198E+01	2.8600E+02	2.7304E-03	5.5000E-02	A	D	MEDICAL
TRUCK	I 125	2340.0	4.6176E-02	0.	1.9733E-05	0.	E	D	MEDICAL
TRUCK	I 131	33800.0	2.7042E+02	1.0884E+04	8.0006E-03	3.2200E-01	A	D	MEDICAL
TRUCK	I 131	52.0	5.2000E-02	0.	1.0000E-07	0.	E	D	MEDICAL
TRUCK	IN111	156.0	4.6800E-01	0.	3.0000E-03	0.	A	D	MEDICAL
TRUCK	NO 99	25220.0	2.2901E+04	4.5282E+04	9.0304E-01	1.7955E+00	A	D	MEDICAL
TRUCK	P 32	1144.0	1.1297E+01	3.2240E+02	9.8754E-03	2.8182E-01	A	D	MEDICAL
TRUCK	SR 85	104.0	1.8200E-02	3.1200E+01	1.7500E-04	3.0000E-01	A	D	MEDICAL
TRUCK	TC 99M	40144.0	3.5441E+03	1.2872E+04	8.8286E-02	3.2064E-01	A	D	MEDICAL

TABLE A-101

CITY LAT = 3.849000E+01		CITY LONG = 9.027000E+01		RADIUS = 1.090000E+00		ACROSS		AVERAGE YI		PACKAGE		PHYSICAL		END USE	
CITY = ST. LOUIS		CITY = ST. LOUIS		RADIUS = 1.090000E+00		ACROSS		PER SHPMT		TYPE		FORM		FUEL CY	
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL YI PER SHPMT	AVERAGE ACTIVITY PER SHPMT	AVERAGE YI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	PU238	1.0	2.8000E+01	0.0	2.8000E+01	0.0	B	D	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	PU238	7.0	5.2785E+02	2.4020E+01	7.5407E+01	3.4314E+00	B	ND	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	PU238	1.0	1.9152E+03	2.2000E+01	1.9152E+03	2.2000E+01	E	ND	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	PU239	10.0	3.2505E+02	0.0	3.2505E+01	0.0	A	D	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	PU239	6.0	5.6000E+02	5.0000E-01	9.3333E+01	8.3333E-02	B	D	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	PU239	6.0	1.3000E+01	2.0000E+00	2.1667E+00	3.3333E-01	B	ND	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	PU241	1.0	1.0000E-04	0.0	1.0000E-04	0.0	A	ND	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	SF	84.0	8.5316E+05	0.0	1.0157E+04	0.0	B	D	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 232	12.1	3.6279E-02	0.0	3.0000E-03	0.0	A	ND	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 235	12.0	2.5655E+04	2.4410E+01	2.1304E+03	2.0342E+00	A	D	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 235	24.0	2.4167E+04	2.8000E+01	1.0070E+03	1.1667E+00	A	ND	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 235	110.0	7.9117E+05	6.3800E+01	7.1925E+03	5.8000E-01	B	D	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 235	42.0	1.3719E+06	3.1000E-01	3.2664E+04	7.3810E-03	B	ND	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 235	18.0	4.9501E+01	0.0	2.7501E+00	0.0	E	D	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 235	6.0	2.1291E+04	5.4000E+00	3.5485E+03	9.0000E-01	LB	D	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 235	1.0	1.9600E+02	3.0000E+00	1.9600E+02	3.0000E+00	LB	ND	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 235	3.0	4.1598E+00	0.0	1.3866E+00	0.0	LS	D	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 235	1.0	2.0000E-03	0.0	2.0000E-03	0.0	LS	ND	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 238	37.3	3.0659E+06	2.4186E+00	8.0659E+04	6.4878E-02	A	D	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 238	12.1	3.5990E+05	1.2097E+00	2.9761E+04	1.0000E-01	A	ND	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	U 238	13.1	1.6938E+05	2.4186E+00	1.2936E+04	1.8472E-01	B	D	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY	FUEL CY
TRUCK	CS137	8.0	2.4600E+01	2.0000E+00	3.0750E+00	2.5000E-01	A	ND	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR
TRUCK	CS137	2.0	2.4000E+04	1.0000E+00	1.2000E+04	5.0000E-01	B	ND	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR
TRUCK	CS137	4.0	4.0000E-04	6.0000E-02	1.0000E-04	1.5010E-02	LS	D	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR
TRUCK	IR192	4.0	8.0000E+01	8.0000E-01	2.0000E+01	2.0000E-01	A	ND	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR
TRUCK	IR192	31.2	2.0800E+03	3.1200E+01	6.6667E+01	1.0000E+00	B	D	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR
TRUCK	KR 85	8.0	5.6000E+00	8.0000E-01	7.0000E-01	1.0000E-01	A	D	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR
TRUCK	KR 85	8.0	1.5680E+04	1.1800E+00	1.9600E+03	1.4750E-01	B	D	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR
TRUCK	RA226	18.0	1.8000E-05	8.6000E-01	1.0000E-06	4.7778E-02	B	ND	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR	INDUSTR
TRUCK	CO 60	10.4	1.5600E-01	1.0400E+01	1.5000E-02	1.0000E+00	B	ND	MED-IND	MED-IND	MED-IND	MED-IND	MED-IND	MED-IND	MED-IND
TRUCK	CO 60	6.0	3.2818E+04	1.0600E+01	5.4697E+03	1.7667E+00	B	ND	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL
TRUCK	CO 57	4.0	4.0000E-03	6.0000E-02	5.0000E-03	1.5000E-02	LS	D	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL
TRUCK	MO 99	52.0	2.9380E+01	1.1440E+02	5.6500E-01	2.2000E+00	A	ND	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL
TRUCK	NA 24	6.0	8.2000E-03	2.4000E+00	1.3667E-03	4.0000E-01	A	D	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL
TRUCK	TC 99M	52.0	2.6000E+00	0.0	5.0000E-02	0.0	A	D	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL
TRUCK	W	40.0	4.0000E+00	1.2000E+02	1.0000E-01	3.0000E+00	A	D	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL	MEDICAL

CITY LAT = 4.041000E+01 CITY LONG = 7.988000E+01 RADIUS = 8.180000E-01  
 TO OR FROM \*\*\*\*\*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	PU238	17.0	4.2500E+00	6.8000E-01	2.5000E-01	4.0000E-02	A	ND	FUEL CY
AUTOMOBILE	PU238	15.0	1.3500E+01	1.5000E+01	9.0000E-01	1.0000E+00	E	ND	FUEL CY
AUTOMOBILE	TM232	1.0	2.0000E+02	1.0000E+00	2.0000E+02	1.0000E+00	A	D	FUEL CY
AUTOMOBILE	U 235	1.0	1.0000E-02	1.0000E+00	1.0000E-02	1.0000E+00	A	D	FUEL CY
AUTOMOBILE	U 235	1.0	1.4000E-03	2.0000E-02	1.4000E-03	2.0000E-02	E	ND	FUEL CY
AUTOMOBILE	EU152	2.0	2.0000E-03	0.	1.0000E-03	0.	E	D	INDUS,R
AUTOMOBILE	C 14	4.0	7.0000E-02	4.0000E+00	1.8000E-02	1.0000E+00	E	ND	MEDICAL

CITY LAT = 4.041000E+01 CITY LONG = 7.988000E+01 RADIUS = 8.180000E-01  
 ACROSS \*\*\*\*\*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	PU239	2.0	3.2000E-05	0.	1.6000E-05	0.	E	ND	FUEL CY
AUTOMOBILE	AM241	2.0	4.0000E-03	0.	2.0000E-05	0.	A	ND	INDUSTRI

TABLE A-104

CITY LAT = 4.041000E+01 CITY LONG = 7.988000E+01 RADIUS = 8.180000E-01  
 \* \* \* \* \* CITY = PITTSBURGH TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	10.4	2.3379E-02	2.1000E+01	2.2572E-03	2.0276E+00	A	D	FUEL CY
AIR,FRT.	MF	1.0	8.0000E+00	1.4000E+00	8.0000E+00	1.4000E+00	A	ND	FUEL CY
AIR,FRT.	PU238	2.0	2.5010E+03	1.5000E+00	1.2505E+03	7.5000E-01	A	D	FUEL CY
AIR,FRT.	PU238	1.0	2.5000E-01	4.0000E-02	2.5000E-01	4.0000E-02	A	ND	FUEL CY
AIR,FRT.	PU238	55.0	7.3253E+04	4.0000E-01	1.3319E+03	7.2727E-03	B	D	FUEL CY
AIR,FRT.	U 235	2.0	2.2800E+02	2.0000E+00	1.1400E+02	1.0000E+00	A	ND	FUEL CY
AIR,FRT.	U 235	1.0	5.8000E+00	1.0000E-01	5.8000E+00	1.0000E-01	B	D	FUEL CY
AIR,FRT.	U 235	84.0	1.4552E+06	2.6760E+02	1.7324E+04	3.1857E+00	B	ND	FUEL CY
AIR,FRT.	U 238	2.0	7.0690E+03	1.5000E+00	3.5345E+03	7.5000E-01	A	D	FUEL CY
AIR,FRT.	AM241	1.0	3.0000E-03	2.5000E+00	3.0000E-03	2.5000E+00	A	ND	INDUSTR
AIR,FRT.	H 3	4.3	2.1667E-02	0.	5.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	IR192	20.8	2.0800E+03	2.0800E+01	1.0000E+02	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	103.8	5.1008E+03	1.3278E+02	4.9161E+01	1.2797E+00	B	ND	INDUSTR
AIR,FRT.	S 35	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	CR 51	4.3	5.2000E-02	8.6667E-01	1.2000E-02	2.0000E-01	A	D	MED-IND
AIR,FRT.	C 14	56.3	9.5333E-03	0.	1.6923E-04	0.	A	D	MEDICAL
AIR,FRT.	I 125	168.1	1.3419E-01	1.2093E+00	7.9831E-04	7.1942E-03	A	D	MEDICAL
AIR,FRT.	I 131	48.4	2.4912E+00	9.7953E+01	5.1500E-02	2.0250E+00	A	D	MEDICAL



TABLE A-105

CITY LAT = 4.0410000E+01 CITY LONG = 7.9880000E+01 RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = PITTSBURGH \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	PU238	1.0	3.5000E-03	1.0000E-02	3.5000E-03	1.0000E-02	B	ND	FUEL CY
AIR,FRT.	PU239	1.0	5.5300E-01	0.	5.5300E-01	0.	B	D	FUEL CY
AIR,FRT.	PU239	1.0	1.6000E+02	4.0000E+00	1.6000E+02	4.0000E+00	B	ND	FUEL CY
AIR,FRT.	U 235	180.7	1.2187E+03	3.1633E+01	6.7347E+00	1.7509E-01	A	D	FUEL CY
AIR,FRT.	U 235	29.0	1.8729E+04	1.2800E+01	6.4584E+02	4.4138E-01	A	ND	FUEL CY
AIR,FRT.	U 235	29.0	3.7856E+04	1.3000E+00	1.3054E+03	4.4828E-02	B	D	FUEL CY
AIR,FRT.	U 235	19.0	2.0241E+05	1.9000E+00	1.0653E+04	1.0000E-01	B	ND	FUEL CY
AIR,FRT.	U 235	6.0	1.1251E+00	0.	1.8752E-01	0.	E	D	FUEL CY
AIR,FRT.	U 238	1.0	2.0000E-02	0.	2.0000E-02	0.	E	ND	FUEL CY
AIR,FRT.	U 238	4.0	2.9606E+04	4.0000E-01	7.4015E+03	1.0000E-01	LS	D	FUEL CY
AIR,FRT.	AM241	2.0	2.0000E-06	0.	1.0000E-06	0.	E	ND	INDUSTR
AIR,FRT.	CA 45	4.3	4.3333E-02	0.	1.0000E-02	0.	A	D	INDUSTR
AIR,FRT.	CS137	12.1	2.6605E-01	3.6279E+01	2.2000E-02	3.0000E+00	A	D	INDUSTR
AIR,FRT.	H 3	882.3	5.2067E+03	0.	5.9011E+00	0.	A	D	INDUSTR
AIR,FRT.	IR192	33.2	2.2140E+03	3.3200E+01	6.6687E+01	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	82.8	7.1580E+03	5.4800E+01	8.6449E+01	1.0242E+00	B	ND	INDUSTR
AIR,FRT.	KR 85	70.0	8.0252E+01	1.1600E+01	1.1465E+00	1.6571E-01	A	D	INDUSTR
AIR,FRT.	PO210	2.0	2.0000E-02	2.0000E-01	1.0000E-02	1.0000E-01	A	D	INDUSTR
AIR,FRT.	PO210	364.0	5.7304E+00	0.	1.5743E-02	0.	E	D	INDUSTR
AIR,FRT.	S 35	117.0	1.6215E+01	2.6000E+01	1.3859E-01	2.2222E-01	A	D	INDUSTR
AIR,FRT.	SE 75	260.0	2.9970E+01	3.3280E+02	1.1527E-01	1.2800E+00	A	D	INDUSTR
AIR,FRT.	CO 60	160.0	9.6980E+02	1.6000E+01	6.0613E+00	1.0000E-01	A	D	MED-IND
AIR,FRT.	CO 60	10.4	1.5600E-01	1.0400E+01	1.5000E-02	1.0000E+00	A	ND	MED-IND
AIR,FRT.	CR 51	325.0	3.3803E-01	4.8100E+01	1.0401E-03	1.4800E-01	A	D	MED-IND
AIR,FRT.	XE133	1362.3	7.8200E+03	6.0647E+02	5.7404E+00	4.4518E-01	A	D	MED-IND
AIR,FRT.	AU198	104.0	8.3219E+02	3.5360E+02	8.0018E+00	3.4000E+00	A	D	MEDICAL
AIR,FRT.	BK249	2.0	1.3400E+00	2.0000E-01	6.7000E-01	1.0000E-01	B	ND	MEDICAL
AIR,FRT.	C 14	600.0	1.7114E+00	0.	2.8524E-03	0.	A	D	MEDICAL
AIR,FRT.	CO 57	104.0	1.2272E-02	5.2000E+00	1.1800E-04	5.0000E-02	A	ND	MEDICAL
AIR,FRT.	CS134	12.1	1.2093E-03	3.6279E+00	1.0000E-04	3.0000E-01	A	D	MEDICAL
AIR,FRT.	FE 59	4.3	8.6667E-03	1.3000E+00	2.0000E-03	3.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	34.7	4.4200E-01	2.3833E+01	1.2750E-02	6.8750E-01	A	D	MEDICAL
AIR,FRT.	GD153	52.0	5.2000E-03	0.	1.0000E-04	0.	A	D	MEDICAL
AIR,FRT.	HG197	208.0	4.0456E+00	4.6800E+01	1.9450E-02	2.2500E-01	A	D	MEDICAL
AIR,FRT.	I 125	1322.0	1.0542E+01	5.9155E+01	7.9746E-03	4.4778E-02	A	D	MEDICAL
AIR,FRT.	I 131	2971.7	1.0006E+02	3.0786E+03	3.3671E-02	1.0360E+00	A	D	MEDICAL
AIR,FRT.	I 131	1872.0	7.2308E+00	1.5236E+03	3.8626E-03	8.1389E-01	A	ND	MEDICAL
AIR,FRT.	I 131	48.4	2.0111E+03	7.8605E+01	4.1575E+01	1.6250E+00	B	D	MEDICAL
AIR,FRT.	IN111	208.0	1.8720E+01	6.2400E+01	9.0000E-02	3.0000E-01	A	D	MEDICAL
AIR,FRT.	K 42	12.1	4.8372E-02	2.4186E+00	4.0000E-03	2.0000E-01	A	D	MEDICAL
AIR,FRT.	K 43	12.1	3.6279E-02	4.8372E+00	3.0000E-03	4.0000E-01	A	D	MEDICAL
AIR,FRT.	MO 99	1225.2	1.4683E+03	2.6413E+03	1.1984E+00	2.1557E+00	A	D	MEDICAL
AIR,FRT.	MO 99	2860.0	2.8335E+03	5.6524E+03	9.9074E-01	1.9764E+00	A	ND	MEDICAL
AIR,FRT.	MO 99	100.4	1.3063E+04	3.7609E+02	1.3014E+02	3.7470E+00	B	D	MEDICAL
AIR,FRT.	P 32	225.3	5.5224E+00	3.9433E+01	2.4508E-02	1.7500E-01	A	D	MEDICAL

TABLE A-106

CITY LAT = 4.0410000E+01 CITY LONG = 7.9880000E+01 RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = PITTSBURGH \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	PU238	26.0	6.5000E+00 *	1.0400E+00	2.5000E-01 *	4.0000E-02	A	ND	FUEL CY
AIR,PASS.	PU238	1.0	5.0000E+00 *	0.	5.0000E+00 *	0.	B	ND	FUEL CY
AIR,PASS.	U 235	54.0	1.5075E+00 *	4.1700E+01	2.7917E-02 *	7.7222E-01	A	D	FUEL CY
AIR,PASS.	U 235	29.0	5.2426E-02 *	2.8000E+00	1.8078E-03 *	9.6552E-02	A	ND	FUEL CY
AIR,PASS.	U 235	2.0	1.1000E-03 *	0.	5.5000E-04 *	0.	B	ND	FUEL CY
AIR,PASS.	U 235	13.1	4.0011E+00 *	1.0000E-02	3.0559E-01 *	7.6377E-04	E	D	FUEL CY
AIR,PASS.	CS137	26.0	3.6000E+02	4.1800E+01	1.3846E+01	1.6077E+00	A	ND	INDUSTK
AIR,PASS.	H 3	99.7	3.5967E-01	0.	3.6087E-03	0.	A	D	INDUSTR
AIR,PASS.	KR 85	12.1	1.8140E-04	0.	1.5000E-05	0.	E	D	INDUSTR
AIR,PASS.	S 35	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	52.0	2.6000E-02	2.0800E+01	5.0000E-04	4.0000E-01	A	D	INDUSTR
AIR,PASS.	CR 51	52.0	7.0000E-02	5.2000E+00	1.5000E-03	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	156.0	5.7200E+00	0.	3.6667E-02	0.	A	D	MED-IND
AIR,PASS.	AU198	156.0	3.5516E+00	1.8200E+02	2.2767E-02	1.1667E+00	A	D	MEDICAL
AIR,PASS.	C 14	13.0	1.3000E-02	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	CO 57	2.0	1.9600E-03	2.0000E-01	9.8000E-04	1.0000E-01	A	ND	MEDICAL
AIR,PASS.	GA 67	156.0	2.6520E+00	4.6800E+01	1.7000E-02	3.0000E-01	A	D	MEDICAL
AIR,PASS.	I 123	208.0	3.6400E-01	2.6000E+01	1.7500E-03	1.2500E-01	A	D	MEDICAL
AIR,PASS.	I 125	120.4	2.0689E-01	1.2819E+01	1.7180E-03	1.0644E-01	A	D	MEDICAL
AIR,PASS.	I 125	104.0	4.6800E-04	0.	4.5000E-06	0.	E	D	MEDICAL
AIR,PASS.	I 131	4116.7	2.9014E+01	7.3557E+03	7.0480E-03	1.7878E+00	A	D	MEDICAL
AIR,PASS.	I 131	936.0	3.6729E+00	6.7080E+02	3.9240E-03	7.1667E-01	A	ND	MEDICAL
AIR,PASS.	IN111	156.0	4.6800E-01	0.	3.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	MO 99	260.0	1.1180E+02	2.3920E+02	4.3000E-01	9.2000E-01	A	D	MEDICAL
AIR,PASS.	MO 99	1248.0	1.2331E+03	2.3972E+03	9.8808E-01	1.9208E+00	A	ND	MEDICAL
AIR,PASS.	MO 99	52.0	1.0400E+01	1.0400E+02	2.0000E-01	2.0000E+00	B	D	MEDICAL
AIR,PASS.	P 32	104.0	1.1440E+00	2.0800E+01	1.1000E-02	2.0000E-01	A	D	MEDICAL
AIR,PASS.	SR 85	52.0	2.6000E-02	1.5600E+01	5.0000E-04	3.0000E-01	A	D	MEDICAL

TABLE A-107

CITY LAT = 4041000E+01 CITY LONG = 79880000E+01 CITY = PITTSBURGH RADIUS = 81800000E-01 ACROSS

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS	MC	2.0	4.0000E-02	2.0000E-01	2.0000E-02	1.0000E-01	A	D	FUEL CY
AIR,PASS	MF	2.0	2.0000E-03	2.0000E-02	1.0000E-03	1.0000E-02	A	ND	FUEL CY
AIR,PASS	PU239	1.0	4.7000E-01	1.0000E-01	1.2000E-08	0.0	E	ND	FUEL CY
AIR,PASS	TH28	1.0	1.2000E-08	0.0	1.2000E-08	0.0	E	ND	FUEL CY
AIR,PASS	TH232	6.0	7.0800E+01	0.0	1.1800E+01	0.0	E	ND	FUEL CY
AIR,PASS	U 233	9.0	1.7130E-01	0.0	1.9033E-02	0.0	A	D	FUEL CY
AIR,PASS	U 235	241.4	1.6026E+04	1.8461E+02	6.6382E+01	7.6466E-01	A	D	FUEL CY
AIR,PASS	U 235	54.0	1.2109E+01	9.7400E+01	2.2424E-01	1.8037E+00	A	ND	FUEL CY
AIR,PASS	U 235	6.0	2.5200E+00	0.0	4.2000E-01	0.0	B	D	FUEL CY
AIR,PASS	U 235	6.0	9.9610E+00	1.0000E-01	1.6602E+00	1.6667E-02	F	D	FUEL CY
AIR,PASS	U 235	12.0	1.2694E+03	0.0	1.0579E+02	0.0	E	ND	FUEL CY
AIR,PASS	U 235	1.0	2.0000E-03	0.0	2.0000E-03	0.0	LS	ND	FUEL CY
AIR,PASS	U 238	24.2	1.4149E+05	4.8372E+00	5.8500E+03	2.0000E-01	A	D	FUEL CY
AIR,PASS	U 238	114.0	8.8240E+05	9.7500E+01	7.7404E+03	8.5526E-01	A	ND	FUEL CY
AIR,PASS	U 238	1.0	4.0000E-03	0.0	4.0000E-03	0.0	E	ND	FUEL CY
AIR,PASS	U 238	1.0	8.9000E+03	0.0	8.9000E+03	0.0	LS	ND	FUEL CY
AIR,PASS	AM241	12.1	1.2093E-06	1.2093E+00	1.0000E-07	1.0000E-01	A	D	INDUSTR
AIR,PASS	AM241	6.0	2.0000E-01	0.0	3.3333E-02	0.0	A	ND	INDUSTR
AIR,PASS	CA 45	8.7	4.7667E-03	0.0	5.5000E-04	0.0	A	D	INDUSTR
AIR,PASS	CS137	52.0	5.2000E-04	0.0	1.0000E-05	0.0	A	D	INDUSTR
AIR,PASS	H 3	2905.0	5.7327E+01	0.0	1.9734E-02	0.0	A	D	INDUSTR
AIR,PASS	H 3	13.0	2.3833E-01	0.0	1.8333E-02	0.0	A	ND	INDUSTR
AIR,PASS	H 3	16.0	4.5860E-01	0.0	2.8663E-02	0.0	E	D	INDUSTR
AIR,PASS	IR192	2.0	3.5000E-01	0.0	1.7500E-01	0.0	B	ND	INDUSTR
AIR,PASS	KR 85	16.0	8.0000E+00	2.4000E+00	5.0000E-01	1.5000E-01	A	D	INDUSTR
AIR,PASS	S 35	164.7	1.1267E+00	5.2000E+00	6.8421E-03	3.1579E-02	A	D	INDUSTR
AIR,PASS	SE 75	156.0	1.7423E-01	4.6800E+01	1.1168E-03	3.0000E-01	A	D	INDUSTR
AIR,PASS	CO 60	52.0	4.7580E+02	5.2000E+00	9.1500E+00	1.0000E-01	A	D	MED-IND
AIR,PASS	CO 60	52.0	1.0400E+01	1.0400E+01	2.0000E-01	2.0000E-01	A	ND	MED-IND
AIR,PASS	CR 51	693.3	1.6640E+00	1.4733E+02	2.4000E-03	2.1250E-01	A	D	MED-IND
AIR,PASS	XE127	2.0	2.4000E-02	2.0000E-01	1.2000E-02	1.0000E-01	A	D	MED-IND
AIR,PASS	XE133	264.3	3.3887E+02	2.6000E+01	1.2820E+00	9.8361E-02	A	D	MEDICAL
AIR,PASS	AU198	520.0	4.3826E+01	2.3348E+03	8.4280E-02	4.4900E+00	A	D	MEDICAL
AIR,PASS	C 14	1529.5	5.3450E-01	0.0	3.4947E-04	0.0	A	D	MEDICAL
AIR,PASS	C 14	29.4	2.2171E-02	0.0	7.5342E-04	0.0	A	ND	MEDICAL
AIR,PASS	C 14	6.0	1.6000E-02	0.0	2.6667E-03	0.0	E	D	MEDICAL
AIR,PASS	CA 47	12.1	1.2093E-02	4.8372E+00	1.0000E-03	4.0000E-01	A	D	MEDICAL
AIR,PASS	CD109	4.0	2.0800E-01	2.4000E-01	5.2000E-02	6.0000E-02	A	ND	MEDICAL
AIR,PASS	CE137	52.0	5.2000E-02	1.0400E+01	1.0000E-03	2.0000E-01	A	D	MEDICAL
AIR,PASS	CO 57	936.0	2.3426E-03	7.2800E+01	2.5028E-06	7.7778E-02	A	D	MEDICAL
AIR,PASS	CO 57	104.0	5.3600E-04	1.5600E+01	9.0000E-06	1.5000E-01	A	ND	MEDICAL
AIR,PASS	GA 67	710.7	4.4837E+01	2.3797E+02	6.3091E-02	3.0671E-01	A	D	MEDICAL
AIR,PASS	H6197	156.0	6.8120E-01	1.5600E+01	4.3667E-03	1.0000E-01	A	D	MEDICAL
AIR,PASS	H6197	52.0	3.2328E-01	1.5600E+01	6.2170E-03	3.0000E-01	A	ND	MEDICAL
AIR,PASS	H6203	52.0	5.2000E-01	1.5600E+01	1.0000E-02	3.0000E-01	A	D	MEDICAL
AIR,PASS	I 123	1722.0	4.1120E+00	2.6848E+02	2.3879E-03	1.557E-01	A	D	MEDICAL
AIR,PASS	I 125	4874.8	2.6239E+01	1.9411E+02	5.3826E-03	3.9820E-02	A	C	MEDICAL
AIR,PASS	I 125	212.0	1.9916E-02	0.0	6.3833E-05	0.0	E	D	MEDICAL
AIR,PASS	I 125	2.0	1.0000E-02	2.0000E-02	5.0000E-03	1.0000E-02	LS	D	MEDICAL
AIR,PASS	I 131	7108.3	6.9958E+01	5.9544E+03	9.8417E-03	8.3784E-01	A	D	MEDICAL

CITY LAT = 4.0410000E+01 CITY LONG = 7.9830000E+01 RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = PITTSBURGH ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	I 131	2600.0	6.8522E+00	1.7212E+03	2.5355E-03	6.6200E-01	A	ND	MEDICAL
AIR,PASS.	I 131	36.3	1.1936E+03	5.6837E+01	3.2900E+01	1.5667E+00	B	D	MEDICAL
AIR,PASS.	IN111	260.0	2.4440E+00	7.8000E+00	9.0000E-03	3.0000E-02	A	D	MEDICAL
AIR,PASS.	K 42	12.1	4.7163E-01	3.0233E+01	3.9000E-02	2.5000E+00	A	D	MEDICAL
AIR,PASS.	MG 28	12.0	2.6720E-03	1.2000E+01	2.2267E-04	1.0000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	1761.9	2.1195E+03	6.5133E+02	1.2030E+00	3.6968E-01	A	D	MEDICAL
AIR,PASS.	MO 99	6396.0	5.8134E+03	1.2407E+04	9.0892E-01	1.9398E+00	A	ND	MEDICAL
AIR,PASS.	MO 99	104.0	1.0353E+04	2.0800E+02	9.9550E+01	2.0000E+00	B	D	MEDICAL
AIR,PASS.	NA 24	72.6	3.6279E-01	1.2577E+02	5.0000E-03	1.7333E+00	A	D	MEDICAL
AIR,PASS.	P 32	706.3	8.6823E+00	1.3260E+02	1.2292E-02	1.8773E-01	A	D	MEDICAL
AIR,PASS.	P 33	4.3	2.1667E-03	0.	5.0000E-04	0.	A	D	MEDICAL
AIR,PASS.	RB 86	4.3	3.0333E-02	4.3333E-01	7.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,PASS.	SC 46	52.0	2.6000E-01	1.4560E+02	5.0000E-03	2.8000E+00	A	D	MEDICAL
AIR,PASS.	TC 99M	936.0	4.7063E+01	2.6520E+02	5.0281E-02	2.8333E-01	A	D	MEDICAL
AIR,PASS.	TL201	12.0	8.0554E+00	4.8000E+00	6.7128E-01	4.0000E-01	A	D	MEDICAL
AIR,PASS.	TL204	2.0	2.0000E-04	0.	1.0000E-04	0.	A	D	MEDICAL

TABLE A-108

CITY LAT = 4.0410000E+01 CITY LONG = 7.9880000E+01 RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = PITTSBURGH ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	U 235	1.0	2.4300E-02	0.	2.4300E-02	0.	E	D	FUEL CY
SHIP	AM241	6.0	6.0000E+00	0.	1.0000E+00	0.	A	ND	INDUSTR
SHIP	KR 85	2.0	1.0000E+00	2.0000E-01	5.0000E-01	1.0000E-01	A	D	INDUSTR



TABLE A-109

CITY LAT = 4.0410000E+01 CITY LONG = 7.9880000E+01 RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = PITTSBURGH \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MF	204.2	8.1089E-01	1.1122E+03	1.6082E-03	2.2059E+00	A	D	FUEL CY
TRUCK	MF	10.0	4.0000E-01	5.0000E+01	4.0000E-02	5.0000E+00	A	ND	FUEL CY
TRUCK	MF	15.1	7.5861E+02	1.2714E+03	5.0334E+01	8.4355E-01	B	D	FUEL CY
TRUCK	MF	1.0	2.4900E+00	1.0000E-01	2.4900E+00	1.0000E-01	LQ	D	FUEL CY
TRUCK	MF	2.0	1.0000E-01	2.0000E+00	5.0000E-02	1.0000E+00	LS	D	FUEL CY
TRUCK	MF	16.0	3.2000E-01	1.2000E+01	2.0000E-02	7.5000E-01	LS	ND	FUEL CY
TRUCK	PU238	3.0	2.5000E-01	4.0000E-02	2.5000E-01	4.0000E-02	A	ND	FUEL CY
TRUCK	PU238	3.0	6.5200E+00	0.	2.1733E+00	0.	B	D	FUEL CY
TRUCK	PU239	2.0	2.0000E-03	0.	1.0000E-03	0.	A	D	FUEL CY
TRUCK	PU239	11.0	7.9500E+01	0.	7.2273E+00	0.	A	ND	FUEL CY
TRUCK	PU239	5.0	1.3000E+01	2.0000E+00	2.6000E+00	4.0000E-01	B	ND	FUEL CY
TRUCK	TH232	53.0	2.8214E+03	4.6000E+00	5.5322E+01	9.0196E-02	A	D	FUEL CY
TRUCK	TH232	2132.4	1.9251E+07	7.5500E+02	9.0279E+03	3.5407E-01	A	ND	FUEL CY
TRUCK	U 232	1.0	5.5000E+01	3.0000E-01	5.5000E+01	3.0000E-01	A	D	FUEL CY
TRUCK	U 233	2.0	3.0000E-02	2.0000E-01	1.5000E-02	1.0000E-01	A	D	FUEL CY
TRUCK	U 233	30.0	1.8502E+03	5.0000E-01	6.1672E+01	1.6667E-02	A	ND	FUEL CY
TRUCK	U 233	1582.0	2.2341E+05	3.2000E+00	1.4122E+02	2.0228E-03	B	D	FUEL CY
TRUCK	U 233	2.0	2.6100E+02	1.0000E-01	1.3050E+02	5.0000E-02	B	ND	FUEL CY
TRUCK	U 235	61.0	1.3006E+02	6.2400E+01	2.1321E+00	1.0230E+00	A	D	FUEL CY
TRUCK	U 235	57.0	2.3094E+02	0.	4.0515E+00	0.	A	ND	FUEL CY
TRUCK	U 235	15.0	1.0189E+06	3.2500E+00	6.7928E+04	2.1667E-01	B	D	FUEL CY
TRUCK	U 235	223.0	4.5339E+06	3.2620E+02	2.0332E+04	1.4628E+00	B	ND	FUEL CY
TRUCK	U 235	5.0	1.5000E+01	2.4000E-01	3.0000E+00	4.8000E-02	E	D	FUEL CY
TRUCK	U 235	12.0	1.6302E+02	0.	1.3585E+01	0.	E	ND	FUEL CY
TRUCK	U 238	1.0	8.8000E+01	0.	8.8000E+01	0.	E	D	FUEL CY
TRUCK	U 238	3.0	1.6580E+03	0.	5.5267E+02	0.	E	ND	FUEL CY
TRUCK	AM241	4.0	4.0000E+00	0.	1.0000E+00	0.	A	ND	INDUSTR
TRUCK	CS137	4.0	3.6200E-04	4.0000E-01	9.0500E-05	1.0000E-01	A	ND	INDUSTR
TRUCK	CS137	4.0	2.4220E+04	1.1000E+01	6.0550E+03	2.7500E+00	B	ND	INDUSTR
TRUCK	CS137	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
TRUCK	H 3	104.0	1.0400E-01	0.	1.0000E-03	0.	A	D	INDUSTR
TRUCK	IR192	41.6	4.1600E+03	0.	1.0000E+02	0.	A	ND	INDUSTR
TRUCK	SE 75	104.0	2.0800E-01	3.6400E+01	2.0000E-03	3.5000E-01	A	D	INDUSTR
TRUCK	CO 60	2.9	1.4286E-03	1.5929E+00	4.8780E-04	5.4390E-01	A	D	MED-IND
TRUCK	CO 60	13.0	1.2250E+01	7.0000E+00	9.4231E-01	5.3846E-01	A	ND	MED-IND
TRUCK	CO 60	4.0	5.1860E-05	8.0000E-02	1.2965E-05	2.0000E-02	E	ND	MED-IND
TRUCK	CO 60	2.0	3.6000E+03	2.0000E-01	1.8000E+03	1.0000E-01	LQ	D	MED-IND
TRUCK	CO 60	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	MED-IND
TRUCK	CR 51	64.1	7.9693E-02	1.0400E+01	1.2434E-03	1.6226E-01	A	D	MED-IND
TRUCK	CO 57	2.0	1.3800E-03	2.0000E-01	6.9000E-04	1.0000E-01	A	ND	MEDICAL
TRUCK	CO 57	2.0	2.0000E-03	2.0000E-02	1.0000E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	GA 67	24.2	6.0465E-02	0.	2.5000E-03	0.	A	D	MEDICAL
TRUCK	I 123	104.0	1.0400E-01	5.2000E+00	1.0000E-03	5.0000E-02	A	D	MEDICAL
TRUCK	I 125	312.0	1.0551E-03	0.	3.3817E-06	0.	A	D	MEDICAL
TRUCK	I 131	624.0	1.3780E+01	3.1720E+02	2.2083E-02	5.0833E-01	A	D	MEDICAL
TRUCK	I 131	2.0	2.0000E-05	2.0000E+00	1.0000E-05	1.0000E+00	E	D	MEDICAL
TRUCK	MN 54	16.0	5.0120E+00	0.	5.6325E-01	0.	A	ND	MEDICAL
TRUCK	MO 99	728.0	3.7960E+02	7.4880E+02	5.2143E-01	1.0286E+00	A	D	MEDICAL
TRUCK	TC 99F	700.2	4.9690E+01	1.0400E+01	7.0967E-02	1.4853E-02	A	D	MEDICAL
TRUCK	W	2.0	2.0000E-01	1.0000E+00	1.0000E-01	5.0000E-01	A	D	WASTE
TRUCK	W	750.0	2.0090E+01	7.5000E+02	2.6787E-02	1.0000E+00	LS	D	WASTE

TABLE A-110

CITY LAT = 4.0410000E+01 CITY LONG = 7.9880000E+01 RADIUS = 8.1800000E-01  
 \* \* \* \* \* CITY = PITTSBURGH ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	4.0	1.8000E-03	2.2000E+00	4.5000E-04	5.5000E-01	A	D	FUEL CY
TRUCK	MC	38.0	8.8450E+02	5.8400E+02	2.3276E+01	1.5368E+01	LS	D	FUEL CY
TRUCK	MC	12.0	1.4080E+02	1.9600E+02	1.1733E+01	1.6333E+01	LS	NO	FUEL CY
TRUCK	MF	36.0	2.0305E+02 *	3.5600E+02	5.6402E+00 *	9.8889E+00	LS	NO	FUEL CY
TRUCK	PU238	6.0	3.1667E+04 *	3.0000E+01	5.2778E+03 *	5.0000E+00	B	NO	FUEL CY
TRUCK	PU239	1.0	3.2500E+02 *	0.	3.2500E+02 *	0.	B	NO	FUEL CY
TRUCK	SF	1.0	6.6000E-04 *	1.0000E+01	6.6000E+04 *	1.0000E+01	LQ	NO	FUEL CY
TRUCK	U 235	4.0	8.4300E+02 *	2.4310E+01	2.1675E+02 *	6.0775E+00	A	D	FUEL CY
TRUCK	U 235	18.0	1.4767E+04 *	2.2000E+01	8.2038E+02 *	1.2222E+00	A	NO	FUEL CY
TRUCK	U 235	4.0	3.4290E+03 *	2.6100E+00	8.5725E+02 *	6.5250E-01	B	NO	FUEL CY
TRUCK	U 235	14.0	3.0440E-01 *	0.	2.1743E-02 *	0.	E	D	FUEL CY
TRUCK	U 235	2.0	5.1400E+01 *	0.	2.5700E+01 *	0.	E	NO	FUEL CY
TRUCK	U 238	894.9	1.6895E+07 *	2.1767E+02	1.8880E+04 *	2.4324E-01	A	D	FUEL CY
TRUCK	U 238	12.1	3.5990E+05 *	6.0465E+00	2.9761E+04 *	5.0000E-01	A	NO	FUEL CY
TRUCK	U 238	24.0	5.1252E+05 *	2.4000E+00	2.1355E+04 *	1.0000E-01	LS	D	FUEL CY
TRUCK	AM241	10.0	1.0000E+01	0.	1.0000E+00	0.	A	NO	INDUSTR
TRUCK	CA 45	4.3	8.6667E-03	0.	2.0000E-03	0.	A	D	INDUSTR
TRUCK	CS137	8.0	3.1000E+00	5.8000E-01	3.8750E-01	7.2500E-02	A	NO	INDUSTR
TRUCK	CS137	16.0	1.6000E-03	1.8000E-01	1.0000E-04	1.1250E-02	LS	D	INDUSTR
TRUCK	FE 55	1.0	1.5000E-01	0.	1.5000E-01	0.	A	D	INDUSTR
TRUCK	H 3	156.0	1.0140E-01	0.	6.5000E-04	0.	A	D	INDUSTR
TRUCK	IR192	4.0	4.3200E+01	7.6000E+00	1.0800E+01	1.9000E+00	A	NO	INDUSTR
TRUCK	IR192	52.0	4.1600E+03	5.2000E+03	8.0000E+01	1.0000E+00	B	NO	INDUSTR
TRUCK	KR 85	33.0	2.0100E+01	4.0000E+00	6.0909E-01	1.2121E-01	A	D	INDUSTR
TRUCK	KR 85	2.0	1.0000E-02	6.0000E-02	5.0000E-03	3.0000E-02	B	D	INDUSTR
TRUCK	SE 75	2132.0	1.1521E+00	5.4080E+02	5.4040E-04	2.5366E-01	A	D	INDUSTR
TRUCK	CO 60	10.4	1.5600E-01	1.0400E+01	1.5000E-02	1.0000E+00	A	NO	MED-IND
TRUCK	CO 60	14.0	1.1350E+03	5.7800E+01	8.1131E+01	4.1286E+00	B	D	MED-IND
TRUCK	CO 60	12.0	4.0032E+04	1.8800E+01	3.3360E+03	1.5667E+00	E	NO	MED-IND
TRUCK	CO 60	6.0	7.2000E-05	2.8000E-01	1.2000E-05	4.6667E-02	E	NO	MED-IND
TRUCK	CO 60	594.0	2.2157E+02	1.5010E+04	5.7302E-01	2.5269E+01	LS	D	MED-IND
TRUCK	CR 51	156.0	9.1000E-02	4.1600E+01	5.8333E-04	2.6667E-01	A	D	MED-IND
TRUCK	XE133	208.0	7.5400E+00	0.	3.6250E-02	0.	A	D	MED-IND
TRUCK	AU198	312.0	6.7600E-01	1.3520E+02	2.1667E-03	4.3333E-01	A	D	MEDICAL
TRUCK	C 14	2.0	6.8000E-05	0.	3.4000E-05	0.	A	D	MEDICAL
TRUCK	CO 57	104.0	1.9760E-02	0.	1.9000E-04	0.	A	NO	MEDICAL
TRUCK	CO 57	156.0	5.2000E-04	0.	3.3333E-06	0.	E	D	MEDICAL
TRUCK	CO 57	6.0	6.0000E-03	8.0000E-02	1.0000E-03	1.3333E-02	LS	D	MEDICAL
TRUCK	FE 59	52.0	2.6000E-02	3.1200E+01	5.0000E-04	6.0000E-01	A	D	MEDICAL
TRUCK	FE 59	156.0	7.0200E-03	0.	4.5000E-05	0.	E	D	MEDICAL
TRUCK	HG197	52.0	7.8000E-02	2.0800E+01	1.5000E-03	4.0000E-01	A	D	MEDICAL
TRUCK	I 125	208.0	1.1721E-02	1.5600E+01	5.6350E-05	7.5000E-02	A	D	MEDICAL
TRUCK	I 125	1508.0	2.8600E-02	0.	1.8966E-05	0.	E	D	MEDICAL
TRUCK	I 131	8008.0	3.5372E+01	2.5792E+03	4.4171E-03	3.2208E-01	A	D	MEDICAL
TRUCK	MO 99	1092.0	9.3340E+02	1.5496E+03	8.5476E-01	1.4190E+00	A	D	MEDICAL
TRUCK	NI 63	26.0	5.0540E-04	0.	1.9438E-05	0.	A	NO	MEDICAL
TRUCK	P 32	260.0	1.9764E+00	6.7600E+01	7.6016E-03	2.6000E-01	A	D	MEDICAL
TRUCK	TC 99M	32032.0	2.7456E+03	1.0397E+04	8.5714E-02	3.2457E-01	A	D	MEDICAL



TABLE A-111

CITY LAT = 3.9290000E+01		CITY LONG = 7.6740000E+01		RADIUS = 6.8700000E-01		TO OR FROM			
CITY = BALTIMORE		CITY = BALTIMORE		RADIUS = 6.8700000E-01		TO OR FROM			
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MF	84.0	3.4824E-02	4.4000E+01	4.1457E-04	5.2381E-01	A	ND	FUEL CY
AUTOMOBILE	MF	2.0	2.0000E-03	1.0000E+00	1.0000E-03	5.0000E-01	E	ND	FUEL CY
AUTOMOBILE	PU238	5.0	1.2500E+00	2.0000E-01	2.5000E-01	4.0000E-02	A	ND	FUEL CY
AUTOMOBILE	U 235	48.4	1.8381E+01	1.9349E+02	3.8000E-01	4.0000E+00	A	D	FUEL CY
AUTOMOBILE	U 235	12.1	4.8372E-04	0.	4.0000E-05	0.	A	ND	FUEL CY
AUTOMOBILE	U 237	2.0	8.0000E-03	1.0000E+00	4.0000E-03	5.0000E-01	LS	D	FUEL CY
AUTOMOBILE	U 238	2.0	3.2010E+04	2.0000E-01	1.6005E+04	1.0000E-01	LS	D	FUEL CY
AUTOMOBILE	AM241	2.0	2.0000E-05	0.	1.0000E-05	0.	A	D	INDUSTR
AUTOMOBILE	EU152	2.0	2.0000E-03	0.	1.0000E-03	0.	E	D	INDUSTR
AUTOMOBILE	H 3	2.0	2.0000E-03	0.	1.0000E-03	0.	E	D	INDUSTR
AUTOMOBILE	CO 60	2.0	6.0000E-03	6.0000E-01	3.0000E-03	3.0000E-01	A	D	MED-IND
AUTOMOBILE	CU 64	2.0	2.0000E-03	0.	1.0000E-03	0.	E	ND	MEDICAL
AUTOMOBILE	I 125	2.0	2.0000E-03	0.	1.0000E-03	0.	E	ND	MEDICAL
AUTOMOBILE	I 131	12.1	1.8140E-04	0.	1.5000E-05	0.	A	D	MEDICAL
AUTOMOBILE	I 131	12.1	1.2093E-05	0.	1.0000E-06	0.	E	D	MEDICAL
AUTOMOBILE	NA 24	2.0	6.0000E-03	4.0000E-01	3.0000E-03	2.0000E-01	A	D	MEDICAL
AUTOMOBILE	TC 99M	266.0	5.6535E+01	1.0642E+03	2.1250E-01	4.0000E+00	A	D	MEDICAL

TABLE A-112

CITY LAT = 3.9290000E+01 CITY LONG = 7.6740000E+01 RADIUS = 6.8700000E-01  
 \* \* \* \* \* CITY = BALTIMORE TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	4.0	2.0200E-04	2.0000E+00	5.0500E-05	5.0000E-01	A	ND	FUEL CY
AIR,FRT.	MF	4.0	2.0200E-05	8.0000E-02	5.0500E-06	2.0000E-02	E	ND	FUEL CY
AIR,FRT.	PU238	7.0	4.5098E+01	1.8500E+00	6.4426E+00	2.6429E-01	B	ND	FUEL CY
AIR,FRT.	PU239	1.0	6.1000E-02	0.	6.1000E-02	0.	A	ND	FUEL CY
AIR,FRT.	PU239	3.0	3.0553E+01	5.0000E-01	1.0184E+01	1.6667E-01	B	D	FUEL CY
AIR,FRT.	PU239	5.0	1.8150E+02	4.0000E+00	3.6300E+01	3.0000E-01	B	ND	FUEL CY
AIR,FRT.	PU242	2.0	4.2000E-06	0.	2.1000E-06	0.	A	D	FUEL CY
AIR,FRT.	TH228	1.0	1.8000E-08	1.0000E-01	1.8000E-08	1.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 235	10.7	1.0600E-01	0.	9.9375E-03	0.	A	D	FUEL CY
AIR,FRT.	U 235	50.0	6.5300E+03	0.	1.3020E+02	0.	A	ND	FUEL CY
AIR,FRT.	U 238	4.0	2.9606E+04	4.0000E-01	7.4015E+03	1.0000E-01	LS	D	FUEL CY
AIR,FRT.	AM241	2.0	1.7420E-03	2.0000E-01	8.7100E-04	1.0000E-01	A	D	INDUSTR
AIR,FRT.	FE 55	16.1	7.1205E-02	1.6093E+00	4.4246E-03	1.0000E-01	A	D	INDUSTR
AIR,FRT.	H 3	114.7	4.6633E-01	2.0000E-01	4.0669E-03	1.7442E-03	A	D	INDUSTR
AIR,FRT.	IR192	12.0	2.8800E-01	6.0000E+00	2.4000E-02	5.0000E-01	A	ND	INDUSTR
AIR,FRT.	PO210	2.0	2.0000E-02	2.0000E-01	1.0000E-02	1.0000E-01	A	D	INDUSTR
AIR,FRT.	PO210	52.0	1.0400E-01	0.	2.0000E-03	0.	E	D	INDUSTR
AIR,FRT.	S 35	4.3	4.7333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	CM244	2.0	1.2000E-03	2.0000E-01	6.0000E-04	1.0000E-01	A	D	MED-IND
AIR,FRT.	CO 60	8.0	4.7000E-05	8.0000E-01	5.8750E-06	1.0000E-01	A	D	MED-IND
AIR,FRT.	CO 60	12.1	4.2326E-01	1.4512E+01	3.5000E-02	1.2000E+00	B	ND	MED-IND
AIR,FRT.	CR 51	13.0	1.7333E-01	1.3000E+00	1.3333E-02	1.0000E-01	A	D	MED-IND
AIR,FRT.	AU198	12.1	3.8698E-01	4.8372E+00	3.2000E-02	4.0000E-01	A	D	MEDICAL
AIR,FRT.	C 14	64.3	1.1363E-01	8.0000E-02	1.7663E-03	1.2435E-03	A	D	MEDICAL
AIR,FRT.	C 14	20.8	1.3726E-02	0.	6.6117E-04	0.	A	ND	MEDICAL
AIR,FRT.	CA 47	24.2	2.4186E-02	1.2053E+01	1.0000E-03	5.0000E-01	A	D	MEDICAL
AIR,FRT.	CO 57	104.0	2.0800E-04	1.0400E+01	2.0000E-06	1.0000E-01	A	D	MEDICAL
AIR,FRT.	CU 64	24.2	8.9488E-01	8.4651E+00	3.7000E-02	3.5000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	8.7	1.5600E-01	5.2000E+00	1.8000E-02	5.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	242.7	2.0668E-01	1.0833E+01	8.5169E-04	4.4543E-02	A	D	MEDICAL
AIR,FRT.	I 131	576.3	1.3451E+00	2.8123E+02	2.3338E-03	4.8797E-01	A	D	MEDICAL
AIR,FRT.	I 131	312.0	3.1720E-01	9.8800E+01	1.0167E-03	3.1667E-01	A	ND	MEDICAL
AIR,FRT.	I 131	24.2	5.4809E+02	4.3535E+01	3.9200E+01	1.8000E+00	B	D	MEDICAL
AIR,FRT.	K 42	60.5	7.0140E-01	4.9581E+01	1.1600E-02	8.2000E-01	A	D	MEDICAL
AIR,FRT.	MO 99	520.0	4.9910E+02	9.4120E+02	9.5980E-01	1.8100E+00	A	ND	MEDICAL
AIR,FRT.	NA 24	48.4	3.8698E-01	1.8140E+02	8.0000E-03	3.7500E+00	A	D	MEDICAL
AIR,FRT.	NI 63	2.0	6.0000E-06	2.0000E-01	3.0000E-06	1.0000E-01	A	D	MEDICAL
AIR,FRT.	P 32	21.7	1.1700E-01	8.6667E-01	5.4000E-03	4.0000E-02	A	D	MEDICAL

TABLE A-113

CITY LAT = 3.9290000E+01 CITY LONG = 7.6740000E+01 RADIUS = 6.8700000E-01  
 \* \* \* \* \* CITY = BALTIMORE \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	PU238	6.0	1.0950E+02 *	1.0000E+00	1.8250E+01 *	1.6667E-01	A	ND	FUEL CY
AIR,FRT.	PU239	8.0	2.8000E+02 *	0.	3.5000E+01 *	0.	A	ND	FUEL CY
AIR,FRT.	PU242	2.0	1.0001E+01 *	2.0000E-01	5.0005E+00 *	1.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 233	1.0	1.0000E-01 *	4.0000E-01	1.2000E-01 *	4.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 235	157.0	4.5344E+01 *	5.2000E+01	2.8882E-01 *	3.3121E-01	A	D	FUEL CY
AIR,FRT.	U 235	1.0	1.0000E+02 *	0.	1.0000E+02 *	0.	A	ND	FUEL CY
AIR,FRT.	AM241	1.0	3.0000E+00	3.5000E+00	3.0000E+00	3.5000E+00	A	ND	INDUSTR
AIR,FRT.	AM241	48.4	6.3325E+02	1.4512E+01	1.3091E+01	3.0000E-01	B	ND	INDUSTR
AIR,FRT.	H 3	309.1	1.1368E+05	0.	3.6779E+02	0.	A	D	INDUSTR
AIR,FRT.	IR192	31.2	1.4040E+03	3.1200E+01	4.5000E+01	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	197.4	2.1399E+04	4.2314E+02	1.0839E+02	2.1433E+00	B	ND	INDUSTR
AIR,FRT.	KR 85	24.2	4.2930E+02	6.0465E+01	1.7750E+01	2.5000E+00	A	D	INDUSTR
AIR,FRT.	NA 22	4.3	4.3333E-04	4.3333E-01	1.0000E-04	1.0000E-01	A	D	INDUSTR
AIR,FRT.	PO210	52.0	2.6000E-02	0.	5.0000E-04	0.	E	D	INDUSTR
AIR,FRT.	S 35	8.7	6.5000E-02	0.	7.5000E-03	0.	A	D	INDUSTR
AIR,FRT.	SR 89	12.1	1.2093E-01	2.4186E+00	1.0000E-02	2.0000E-01	A	D	INDUSTR
AIR,FRT.	CO 60	11.4	1.7000E-01	1.0000E+01	1.5000E-02	9.5614E-01	A	ND	MED-IND
AIR,FRT.	CR 51	17.3	6.9333E-02	1.7333E+00	4.0000E-03	1.0000E-01	A	D	MED-IND
AIR,FRT.	XE133	120.4	1.9461E+02	5.4419E+01	1.6160E+00	4.5188E-01	A	D	MED-IND
AIR,FRT.	BR 82	12.1	9.6744E-02	1.4512E+01	8.0000E-03	1.2000E+00	A	D	MEDICAL
AIR,FRT.	C 14	136.7	2.1780E+02	2.6121E+02	1.5938E+00	1.9115E+00	A	D	MEDICAL
AIR,FRT.	CE144	24.2	2.4186E+01	7.2558E+01	1.0000E+00	3.0000E+00	A	D	MEDICAL
AIR,FRT.	CO 57	104.0	6.2400E-04	1.5600E+01	6.0000E-06	1.5000E-01	A	ND	MEDICAL
AIR,FRT.	CO 57	52.0	4.6800E-04	0.	9.0000E-06	0.	E	ND	MEDICAL
AIR,FRT.	FE 59	52.0	2.9640E-03	0.	5.7000E-05	0.	A	D	MEDICAL
AIR,FRT.	GA 67	21.7	1.5600E-01	6.0667E+00	7.2000E-03	2.8000E-01	A	D	MEDICAL
AIR,FRT.	H6197	104.0	5.3040E-01	5.2000E+00	5.1000E-03	5.0000E-02	A	D	MEDICAL
AIR,FRT.	I 125	521.6	3.0473E+00	3.2047E+01	5.8423E-03	6.1437E-02	A	D	MEDICAL
AIR,FRT.	I 131	1158.7	2.7116E+02	1.4686E+03	2.3402E-01	1.2674E+00	A	D	MEDICAL
AIR,FRT.	I 131	1248.0	3.3221E+00	8.0600E+02	2.6620E-03	6.4583E-01	A	ND	MEDICAL
AIR,FRT.	K 43	193.5	1.4512E+00	1.3060E+02	7.5000E-03	6.7500E-01	A	D	MEDICAL
AIR,FRT.	MO 99	65.0	4.6237E+01	2.6000E+01	7.1133E-01	4.0000E-01	A	D	MEDICAL
AIR,FRT.	MO 99	3068.0	2.4514E+03	5.0492E+03	7.9902E-01	1.6458E+00	A	ND	MEDICAL
AIR,FRT.	NA 24	24.2	7.2558E-02	2.4186E+01	3.0000E-03	1.0000E+00	A	D	MEDICAL
AIR,FRT.	P 32	208.7	5.0276E+01	1.0661E+02	2.4090E-01	5.1082E-01	A	D	MEDICAL
AIR,FRT.	P 33	12.1	1.4512E+00	0.	1.2000E-01	0.	A	D	MEDICAL
AIR,FRT.	RB 86	24.2	7.2558E-02	3.6279E+00	3.0000E-03	1.5000E-01	A	D	MEDICAL

TABLE A-114

CITY LAT = 3.9290000E+01 CITY LONG = 7.6740000E+01 RADIUS = 6.8700000E-01  
 \* \* \* \* \* CITY = BALTIMORE TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	PU238	1.0	2.1000E-04	0.	2.1000E-04	0.	A	D	FUEL CY
AIR,PASS.	PU238	86.0	6.2936E+01	4.5000E-01	7.3181E-01	4.6512E-03	A	ND	FUEL CY
AIR,PASS.	PU238	3.0	8.3000E+00	3.0000E-01	2.7667E+00	1.0000E-01	B	ND	FUEL CY
AIR,PASS.	PU239	1.0	4.7000E-01	1.0000E-01	4.7000E-01	1.0000E-01	E	ND	FUEL CY
AIR,PASS.	U 235	182.3	4.9049E+00	3.0000E-01	2.6911E-02	1.6460E-03	A	D	FUEL CY
AIR,PASS.	U 235	24.2	7.2800E-01	0.	3.0100E-02	0.	B	D	FUEL CY
AIR,PASS.	U 235	61.5	2.3302E-03	0.	3.7911E-05	0.	E	D	FUEL CY
AIR,PASS.	U 235	2.0	4.6420E+02	0.	2.3210E+02	0.	E	ND	FUEL CY
AIR,PASS.	U 238	1.0	9.8300E+01	1.0000E-01	9.8300E+01	1.0000E-01	A	D	FUEL CY
AIR,PASS.	U 238	114.0	8.8240E+05	9.7500E+01	7.7404E+03	8.5526E-01	A	ND	FUEL CY
AIR,PASS.	U 238	66.0	7.4452E+05	6.6000E+00	1.1281E+04	1.0000E-01	LS	U	FUEL CY
AIR,PASS.	U 238	1.0	8.9000E+03	0.	8.9000E+03	0.	LS	ND	FUEL CY
AIR,PASS.	AM241	24.2	1.6205E-04	0.	6.7000E-06	0.	E	D	INDUSTR
AIR,PASS.	CA 45	4.3	2.1667E-02	0.	5.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	CS137	12.1	6.7721E-04	0.	5.6000E-05	0.	A	D	INDUSTR
AIR,PASS.	CS137	12.1	4.5712E+00	2.4186E+01	3.7800E-01	2.0000E+00	A	ND	INDUSTR
AIR,PASS.	FE 55	2.0	7.0000E-02	0.	3.5000E-02	0.	A	D	INDUSTR
AIR,PASS.	H 3	729.1	3.4115E+00	1.2293E+01	4.6791E-03	1.6861E-02	A	D	INDUSTR
AIR,PASS.	H 3	12.1	4.8372E-05	0.	4.0000E-06	0.	E	D	INDUSTR
AIR,PASS.	KR 85	84.7	1.0642E-03	0.	1.2571E-05	0.	E	D	INDUSTR
AIR,PASS.	PO210	2.0	6.0000E-02	2.0000E-01	3.0000E-02	1.0000E-01	B	D	INDUSTR
AIR,PASS.	RA226	12.1	2.4186E-03	1.2093E+01	2.0000E-04	1.0000E+00	A	D	INDUSTR
AIR,PASS.	S 35	56.3	2.6433E-01	0.	4.6923E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	12.1	7.2558E-06	0.	6.0000E-07	0.	E	D	INDUSTR
AIR,PASS.	CO 60	2.0	5.6000E-07	2.0000E-01	2.8000E-07	1.0000E-01	A	D	MED-IND
AIR,PASS.	CR 51	268.7	1.2099E+00	3.7267E+01	4.5032E-03	1.3871E-01	A	D	MED-IND
AIR,PASS.	XE127	2.0	9.0000E-02	2.0000E-01	4.5000E-02	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	4.3	8.6667E-01	0.	2.0000E-01	0.	A	D	MED-IND
AIR,PASS.	C 14	415.1	1.1438E-01	0.	2.7555E-04	0.	A	D	MEDICAL
AIR,PASS.	CD109	12.1	3.6279E-05	0.	3.0000E-06	0.	E	D	MEDICAL
AIR,PASS.	CO 57	12.1	2.4186E-01	0.	2.0000E-02	0.	A	D	MEDICAL
AIR,PASS.	CO 57	52.0	1.5600E-04	1.0400E+01	3.0000E-06	2.0000E-01	A	ND	MEDICAL
AIR,PASS.	CO 57	12.1	3.6279E-05	0.	3.0000E-06	0.	E	D	MEDICAL
AIR,PASS.	GA 67	4.3	1.0400E-01	8.6667E+00	2.4000E-02	2.0000E+00	A	D	MEDICAL
AIR,PASS.	HG197	52.0	5.2000E-02	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	I 125	679.4	3.1144E+00	3.1633E+01	4.5839E-03	4.6559E-02	A	D	MEDICAL
AIR,PASS.	I 131	832.7	1.2621E+01	6.0455E+02	1.5157E-02	7.2649E-01	A	D	MEDICAL
AIR,PASS.	I 131	156.0	2.2820E-01	6.2400E+01	1.4667E-03	4.0000E-01	A	ND	MEDICAL
AIR,PASS.	I 131	12.1	3.9786E+02	3.3860E+01	3.2900E+01	2.8000E+00	B	D	MEDICAL
AIR,PASS.	P 32	138.7	1.0140E+00	1.7333E+00	7.3125E-03	1.2500E-02	A	D	MEDICAL
AIR,PASS.	P 33	4.3	4.3333E-02	0.	1.0000E-02	0.	A	D	MEDICAL
AIR,PASS.	SC 46	52.0	2.6000E-01	1.4560E+02	5.0000E-03	2.8000E+00	A	D	MEDICAL
AIR,PASS.	TC 99M	104.0	5.2000E+00	1.5600E+01	5.0000E-02	1.5000E-01	A	D	MEDICAL
AIR,PASS.	W	2.0	2.0000E-03	1.0000E+00	1.0000E-03	5.0000E-01	LS	ND	WASTE



TABLE A-115

CITY LAT = 3.9290000E+01 CITY LONG = 7.6740000E+01 RADIUS = 6.8700000E-01  
 \* \* \* \* \* CITY = BALTIMORE \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	HF	2.0	2.0000E-03	1.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,PASS.	PU236	1.0	5.0000E-04	2.0000E-01	5.0000E-04	2.0000E-01	A	D	FUEL CY
AIR,PASS.	PU238	1.0	3.5000E+00	1.0000E-01	3.5000E+00	1.0000E-01	A	ND	FUEL CY
AIR,PASS.	PU238	1.0	2.1000E+00	1.0000E+01	2.1000E+00	1.0000E+01	B	ND	FUEL CY
AIR,PASS.	PU239	1.0	5.0000E-01	0.	5.0000E-01	0.	A	ND	FUEL CY
AIR,PASS.	PU240	1.0	6.6000E-04	0.	6.6000E-04	0.	A	ND	FUEL CY
AIR,PASS.	PU241	1.0	1.0000E-02	0.	1.0000E-02	0.	A	ND	FUEL CY
AIR,PASS.	PU242	5.0	5.3300E-01	0.	1.0660E-01	0.	A	ND	FUEL CY
AIR,PASS.	U 233	4.0	2.2415E+02	4.0000E-01	5.6038E+01	1.0000E-01	A	ND	FUEL CY
AIR,PASS.	U 235	281.7	2.7027E+00	3.8003E+02	9.5954E-03	1.3492E+00	A	D	FUEL CY
AIR,PASS.	U 235	12.0	8.6003E-01	6.0000E-01	7.1670E-02	5.0000E-02	A	ND	FUEL CY
AIR,PASS.	U 235	2.0	1.6000E-01	2.0000E-01	8.0000E-02	1.0000E-01	B	ND	FUEL CY
AIR,PASS.	U 235	6.0	5.9047E+01	0.	9.8412E+00	0.	E	D	FUEL CY
AIR,PASS.	U 236	1.0	3.0000E-01	1.0000E-01	3.0000E-01	1.0000E-01	A	ND	FUEL CY
AIR,PASS.	U 238	12.1	9.6744E+03	1.2093E+00	8.0000E+02	1.0000E-01	A	D	FUEL CY
AIR,PASS.	AM241	2.0	2.0000E-07	0.	1.0000E-07	0.	A	D	INDUSTR
AIR,PASS.	AM241	28.0	1.2100E+00	0.	4.3214E-02	0.	A	ND	INDUSTR
AIR,PASS.	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	E	ND	INDUSTR
AIR,PASS.	CA 45	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	CF252	2.0	5.4000E-02	1.0000E+01	2.7000E-02	5.0000E+00	A	ND	INDUSTR
AIR,PASS.	CS137	14.1	3.5314E+00	1.2253E+01	2.5058E-01	8.7228E-01	A	ND	INDUSTR
AIR,PASS.	FE 55	2.0	4.0000E-02	0.	2.0000E-02	0.	E	ND	INDUSTR
AIR,PASS.	H 3	576.0	2.2604E+00	0.	3.9242E-03	0.	A	D	INDUSTR
AIR,PASS.	H 3	1.0	1.2500E+00	0.	1.2500E+00	0.	A	ND	INDUSTR
AIR,PASS.	S 75	13.0	3.4667E-02	0.	2.6667E-03	0.	A	D	INDUSTR
AIR,PASS.	SR 89	12.1	5.4419E-01	4.8372E+00	4.5000E-02	4.0000E-01	A	D	INDUSTR
AIR,PASS.	CM244	12.1	2.4186E+02	0.	2.0000E+01	0.	A	D	MED-IND
AIR,PASS.	CO 60	52.0	2.6000E-04	1.0000E+01	5.0000E-06	2.0000E-01	A	D	MED-IND
AIR,PASS.	CR 51	286.0	3.6660E-01	2.8600E+01	1.2818E-03	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE127	10.0	1.0220E+00	1.8000E+00	1.0220E-01	1.8000E-01	A	D	MED-IND
AIR,PASS.	XE133	193.0	1.3480E+02	2.1767E+01	6.9850E-01	1.1279E-01	A	D	MED-IND
AIR,PASS.	AU198	100.4	8.2051E-01	6.6874E+01	8.1747E-03	6.6627E-01	A	D	MEDICAL
AIR,PASS.	C 14	419.4	2.3706E-01	1.2093E+01	5.6521E-04	2.8832E-02	A	D	MEDICAL
AIR,PASS.	CD109	4.0	1.0020E-02	0.	2.5050E-03	0.	A	ND	MEDICAL
AIR,PASS.	CO 57	440.2	1.4646E+01	9.4084E+01	3.3272E-02	2.1374E-01	A	D	MEDICAL
AIR,PASS.	CO 57	156.0	1.1440E-03	2.0800E+01	7.3333E-06	1.3333E-01	A	ND	MEDICAL
AIR,PASS.	FE 59	4.3	2.1667E-03	8.6667E-01	5.0000E-04	2.0000E-01	A	D	MEDICAL
AIR,PASS.	GA 67	264.3	3.1460E+00	4.8100E+01	1.1902E-02	1.8197E-01	A	D	MEDICAL
AIR,PASS.	HG197	104.0	1.3000E-01	4.6800E+01	1.2500E-03	4.5000E-01	A	D	MEDICAL
AIR,PASS.	HG197	52.0	8.8400E-02	1.5600E+01	1.7000E-03	3.0000E-01	A	ND	MEDICAL
AIR,PASS.	I 125	1588.0	7.8716E-01	1.0010E+02	4.9570E-04	6.3035E-02	A	D	MEDICAL
AIR,PASS.	I 131	3212.6	1.5178E+02	3.1578E+03	4.7245E-02	9.8294E-01	A	D	MEDICAL
AIR,PASS.	I 131	4472.0	1.7514E+01	2.9744E+03	3.9165E-03	6.6512E-01	A	ND	MEDICAL
AIR,PASS.	IN111	701.0	9.8800E-01	0.	9.5000E-03	0.	A	D	MEDICAL
AIR,PASS.	K 43	24.2	4.8372E-02	9.6744E+00	2.0000E-03	4.0000E-01	A	D	MEDICAL
AIR,PASS.	MG 28	4.0	1.8200E+03	6.0000E+00	4.5500E+02	1.5000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	4.3	5.8500E+00	8.6667E+00	1.3500E+00	2.0000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	8320.0	7.5210E+03	1.5382E+04	9.0397E-01	1.8487E+00	A	ND	MEDICAL
AIR,PASS.	P 32	251.3	2.2195E+00	3.2500E+01	8.8310E-03	1.2931E-01	A	D	MEDICAL
AIR,PASS.	TC 99M	112.0	2.6523E+01	6.7600E+01	8.5008E-02	2.1667E-01	A	D	MEDICAL

TABLE A-116

CITY LAT = 3.9290000E+01    CITY LONG.= 7.6740000E+01    RADIUS = 6.8700000E-01  
 \* \* \* \* \* CITY = BALTIMORE    ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	PU239	1.0	1.3500E+02 *	0.	1.3500E+02 *	0.	B	D	FUEL CY
SHIP	U 235	1.0	1.2588E+04 *	2.5000E+01	1.2588E+04 *	2.5000E+01	B	C	FUEL CY
SHIP	U 235	165.0	5.5900E+06 *	7.6780E+02	3.3879E+04 *	4.6533E+00	B	ND	FUEL CY
SHIP	AM241	6.0	6.0000E+00	0.	1.0000E+00	0.	A	ND	INDUSTR
SHIP	KR 85	10.0	5.0000E+00	1.0000E+00	5.0000E-01	1.0000E-01	A	D	INDUSTR



TABLE A-117

CITY LAT = 3.9250000E+01 CITY LONG = 7.6740000E+01 RADIUS = 6.8700000E-01  
 \* \* \* \* \* CITY = BALTIMORE TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	WF	4.0	2.0200E-04	0.	5.0500E-05	0.	A	ND	FUEL CY
TRUCK	WF	8.0	8.0000E-05	1.6000E-01	1.0000E-05	2.0000E-02	E	ND	FUEL CY
TRUCK	PU238	1.0	2.4000E+00	1.1000E+00	2.4000E+00	1.1000E+00	A	ND	FUEL CY
TRUCK	PU238	4.0	1.8824E+01	4.0000E+00	4.7060E+00	1.0000E+00	B	ND	FUEL CY
TRUCK	PU238	4.0	4.7330E+03	5.6000E+01	1.1833E+03	1.4000E+01	LQ	ND	FUEL CY
TRUCK	PU239	1.0	8.1000E+01	4.0000E+00	8.1000E+01	4.0000E+00	A	ND	FUEL CY
TRUCK	PU239	1.0	3.2500E+02	0.	3.2500E+02	0.	B	ND	FUEL CY
TRUCK	SF	1.0	5.1000E+04	3.0000E+00	5.1000E+04	3.0000E+00	LQ	ND	FUEL CY
TRUCK	U 233	1.0	1.0000E-01	0.	1.0000E-01	0.	A	ND	FUEL CY
TRUCK	U 235	11.0	2.0186E+05	2.3900E+01	1.8351E+05	2.1727E+00	B	ND	FUEL CY
TRUCK	U 235	9.0	2.8140E-01	0.	3.1267E-02	0.	E	D	FUEL CY
TRUCK	U 235	3.0	3.0200E+00	0.	1.0067E+00	0.	LS	ND	FUEL CY
TRUCK	U 238	24.0	5.1252E+05	2.4000E+00	2.1355E+04	1.0000E-01	LS	D	FUEL CY
TRUCK	CF252	2.0	3.2000E-02	4.0000E-01	1.6000E-02	2.0000E-01	A	D	INDUSTR
TRUCK	CS137	1.0	1.0000E-01	0.	1.0000E-01	0.	A	ND	INDUSTR
TRUCK	CS137	4.0	4.0000E-04	4.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
TRUCK	M 3	16.0	1.6027E+02	1.4000E+00	1.0017E+01	8.7500E-02	A	D	INDUSTR
TRUCK	IR192	36.3	9.0698E+01	1.5600E+02	2.5000E+00	4.3000E+00	A	ND	INDUSTR
TRUCK	KR 85	2.0	1.0000E-02	6.0000E-02	5.0000E-03	3.0000E-02	B	D	INDUSTR
TRUCK	RA226	2.0	7.0000E-04	4.0000E-01	1.0000E-04	2.0000E-01	A	D	INDUSTR
TRUCK	SE 75	156.0	7.8026E-02	4.6800E+01	5.0017E-04	3.0000E-01	A	D	INDUSTR
TRUCK	CO 60	2.0	2.0000E-03	2.0000E-01	1.0000E-03	1.0000E-01	A	D	MED-IND
TRUCK	CO 60	2.0	7.0000E-02	2.4000E+00	3.5000E-02	1.2000E+00	A	ND	MED-IND
TRUCK	CO 60	4.0	1.1088E+04	2.6000E+00	2.7720E+03	6.5000E-01	B	ND	MED-IND
TRUCK	CO 60	4.0	4.0000E-04	4.0000E-02	1.0000E-04	1.0000E-02	LS	D	MED-IND
TRUCK	XE133	208.0	2.6000E+00	0.	1.2500E-02	0.	A	D	MED-IND
TRUCK	C 14	52.0	2.6000E-03	0.	5.0000E-05	0.	A	D	MEDICAL
TRUCK	CO 57	4.0	4.0000E-03	4.0000E-02	1.0000E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	GA 67	208.0	4.5240E+00	1.0400E+01	2.1750E-02	5.0000E-02	A	D	MEDICAL
TRUCK	I 123	364.0	4.6800E-01	3.1200E+01	1.2857E-03	8.5714E-02	A	D	MEDICAL
TRUCK	I 125	326.1	1.2593E-01	2.6186E+00	3.8619E-04	8.0302E-03	A	D	MEDICAL
TRUCK	I 131	794.1	1.2567E+01	2.8838E+02	1.5826E-02	3.6315E-01	A	D	MEDICAL
TRUCK	IM111	260.0	5.7200E-01	0.	2.2000E-03	0.	A	D	MEDICAL
TRUCK	MO 99	76.2	1.5576E+02	2.6810E+02	2.0444E+00	3.5190E+00	A	D	MEDICAL
TRUCK	NA 24	6.0	5.0000E-03	3.0000E+00	1.5000E-03	5.0000E-01	A	D	MEDICAL
TRUCK	P 32	166.0	1.6350E+00	3.2200E+01	9.8494E-03	1.9398E-01	A	D	MEDICAL
TRUCK	RB 86	2.0	2.0000E-03	2.0000E-01	1.0000E-03	1.0000E-01	A	D	MEDICAL
TRUCK	SR 85	6.0	2.0000E-02	8.0000E-01	2.5000E-03	1.0000E-01	A	D	MEDICAL
TRUCK	TC 99M	2548.0	2.3192E+02	5.9280E+02	9.1020E-02	2.3265E-01	A	D	MEDICAL
TRUCK	YB169	2.0	2.0000E-03	4.0000E-01	1.0000E-03	2.0000E-01	A	D	MEDICAL
TRUCK	W	2.0	5.3207E+02	8.8000E+01	2.4185E+01	4.0000E+00	A	D	WASTE
TRUCK	W	172.0	1.0580E-03	0.	6.1512E-06	0.	LS	D	WASTE
TRUCK	W	46.0	1.8400E+00	4.6000E+02	4.0000E-02	1.0000E+01	LS	ND	WASTE

TABLE A-11R

CITY LAT = 3.9290000E+01 CITY LONG = 7.6740000E+01 RADIUS = 6.8700000E-01  
 \* \* \* \* \* CITY = BALTIMORE \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	3712.6	2.1233E+03	6.3041E+04	5.7192E-01	1.6980E+01	A	D	FUEL CY
TRUCK	MC	474.5	1.9497E+02	0.	4.1089E-01	0.	LS	D	FUEL CY
TRUCK	MF	2.0	2.0000E-03	1.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
TRUCK	MF	500.2	3.5399E+01	0.	3.9322E-02	0.	LS	D	FUEL CY
TRUCK	PU238	6.0	3.1667E+04	3.0000E+01	5.2778E+03	5.0000E+00	B	ND	FUEL CY
TRUCK	U 235	7.0	2.1160E+03	2.5000E-01	3.0229E+02	3.5714E-02	A	D	FUEL CY
TRUCK	U 235	55.0	1.6354E+05	6.0000E-01	2.5734E+03	1.0909E-02	A	ND	FUEL CY
TRUCK	U 235	8.0	3.3200E+00	2.6500E+00	4.1500E-01	3.3125E-01	B	D	FUEL CY
TRUCK	U 235	76.0	3.2497E+06	5.0000E-02	4.2759E+04	6.5789E-04	B	ND	FUEL CY
TRUCK	U 235	3.0	4.1000E-02	3.0000E-02	1.3667E-02	1.0000E-02	E	D	FUEL CY
TRUCK	U 235	913.9	4.3353E+03	2.7814E+03	4.7440E+00	3.0436E+00	LS	D	FUEL CY
TRUCK	U 235	1.0	4.0000E-03	0.	4.0000E-03	0.	LS	ND	FUEL CY
TRUCK	U 238	108.8	5.0388E+06	3.3256E+01	4.6297E+04	3.0556E-01	A	ND	FUEL CY
TRUCK	U 238	12.1	1.7996E+06	2.4186E+00	1.4881E+05	2.0000E-01	LS	ND	FUEL CY
TRUCK	AM241	4.0	2.4000E+00	0.	6.0000E-01	0.	A	ND	INDUSTR
TRUCK	AM241	24.2	4.9823E+03	2.6605E+01	2.0600E+02	1.1000E+00	B	ND	INDUSTR
TRUCK	CS137	1.0	5.0000E-02	0.	5.0000E-02	0.	A	ND	INDUSTR
TRUCK	CS137	7.3	1.3004E+00	3.0020E+01	1.7937E-01	4.1407E+00	LS	D	INDUSTR
TRUCK	EU152	12.1	2.4186E-02	9.6744E+00	2.0000E-03	8.0000E-03	A	D	INDUSTR
TRUCK	H 3	104.0	7.8000E-01	0.	7.5000E-03	0.	A	D	INDUSTR
TRUCK	H 3	82.0	6.7200E+02	0.	8.1951E+00	0.	B	D	INDUSTR
TRUCK	IR192	4.0	8.0000E+01	8.0000E-01	2.0000E+01	2.0000E-01	A	ND	INDUSTR
TRUCK	KR 85	60.5	3.6279E+03	2.0558E+02	6.0000E+01	3.4000E+00	A	D	INDUSTR
TRUCK	KR 85	2.0	1.0000E-02	6.0000E-02	5.0000E-03	3.0000E-02	B	D	INDUSTR
TRUCK	SE 75	832.0	3.1205E-01	2.1320E+02	3.7506E-04	2.5625E-01	A	D	INDUSTR
TRUCK	CO 60	8.0	2.9600E-02	0.	7.7000E-03	0.	A	D	MED-IND
TRUCK	CO 60	28.0	1.5960E+00	0.	5.7000E-02	0.	A	ND	MED-IND
TRUCK	CO 60	10.0	3.1570E+04	1.1400E+01	3.1570E+03	1.1400E+00	B	ND	MED-IND
TRUCK	CO 60	101.5	2.2471E+02	4.0000E-02	2.2139E+00	3.9409E-04	LS	D	MED-IND
TRUCK	CR 51	104.0	1.3052E+01	3.1200E+01	1.2530E-01	3.0000E-01	A	D	MED-IND
TRUCK	XE133	12.1	1.2093E+01	7.2558E+00	1.0000E+00	6.0000E-01	A	D	MED-IND
TRUCK	AU198	52.0	1.0400E-01	3.1200E+01	2.0000E-03	6.0000E-01	A	D	MEDICAL
TRUCK	C 14	312.0	4.9920E-02	0.	1.6000E-04	0.	A	D	MEDICAL
TRUCK	CD109	2.0	4.0000E-03	0.	2.0000E-03	0.	E	ND	MEDICAL
TRUCK	CO 57	2.0	8.8000E-05	2.0000E-01	4.4000E-05	1.0000E-01	A	ND	MEDICAL
TRUCK	CO 57	2.0	2.0000E-03	2.0000E-02	1.0000E-03	2.0000E-02	LS	D	MEDICAL
TRUCK	FE 59	52.0	6.5000E-03	1.5600E+01	1.2500E-04	3.0000E-01	A	D	MEDICAL
TRUCK	FE 59	104.0	6.7600E-03	0.	6.5000E-05	0.	E	D	MEDICAL
TRUCK	GA 67	12.1	1.8260E+03	1.4512E+01	1.5100E+02	1.2000E+00	A	ND	MEDICAL
TRUCK	HG197	104.0	5.2000E-02	2.0800E+01	5.0000E-04	2.0000E-01	A	D	MEDICAL
TRUCK	I 123	104.0	1.0400E-01	1.0400E+01	1.0000E-03	1.0000E-01	A	D	MEDICAL
TRUCK	I 125	52.0	1.3000E-04	0.	2.5000E-06	0.	A	D	MEDICAL
TRUCK	I 129	200.0	1.4000E+01	0.	7.0000E-02	0.	E	D	MEDICAL
TRUCK	I 131	140.4	2.7859E+01	4.2640E+02	1.9843E-02	3.0370E-01	A	D	MEDICAL
TRUCK	MO 99	364.0	4.6280E+02	7.3840E+02	1.2714E+00	2.0286E+00	A	D	MEDICAL
TRUCK	MC 99	52.0	2.9380E+01	1.1440E+02	5.6500E-01	2.2000E+00	A	ND	MEDICAL
TRUCK	P 32	156.0	3.1720E+00	3.6400E+01	2.0333E-02	2.3333E-01	A	D	MEDICAL
TRUCK	TC 99M	6864.0	7.4831E+02	2.4700E+03	1.0902E-01	3.5985E-01	A	D	MEDICAL
TRUCK	W	38.0	3.6202E+01	1.5000E+02	9.5268E-01	3.9474E+00	A	D	WASTE

A101

TABLE A-119

CITY LAT = 4.5070000E+01 CITY LONG = 9.3210000E+01 RADIUS = 9.5900000E-01  
 \* \* \* \* \* CITY = MINNEAPOLIS/ST. PAUL TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	WF	2.0	2.0000E-03	1.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,FRT.	U 238	4.0	2.9606E+04	4.0000E-01	7.4015E+03	1.0000E-01	LS	D	FUEL CY
AIR,FRT.	AM241	12.1	2.4186E-03	1.2093E-03	2.0000E-04	1.0000E-04	A	ND	INDUSTR
AIR,FRT.	H 3	112.7	2.8600E-01	0.	2.5385E-03	0.	A	D	INDUSTR
AIR,FRT.	IR192	10.4	1.0400E+03	1.0400E+01	1.0000E+02	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	22.5	2.2493E+03	4.6679E+01	1.0000E+02	2.0753E+00	B	ND	INDUSTR
AIR,FRT.	KR 85	2.0	4.0000E+01	6.2000E+00	2.0000E+01	3.1000E+00	LS	D	INDUSTR
AIR,FRT.	PO210	2.0	2.0000E-02	2.0000E-01	1.0000E-02	1.0000E-01	A	D	INDUSTR
AIR,FRT.	PO210	25.0	6.9200E-01	2.2000E+00	2.7680E-02	8.8000E-02	A	ND	INDUSTR
AIR,FRT.	PO210	52.0	2.6000E-02	0.	5.0000E-04	0.	E	D	INDUSTR
AIR,FRT.	PO210	4.0	7.1400E+02	2.2000E+00	1.7850E+02	5.5000E-01	LQ	ND	INDUSTR
AIR,FRT.	CR 51	208.0	1.8200E-01	3.6400E+01	8.7500E-04	1.7500E-01	A	D	MED-IND
AIR,FRT.	XE133	52.0	8.8400E+01	2.6000E+01	1.7000E+00	5.0000E-01	A	D	MED-IND
AIR,FRT.	C 14	106.0	5.3000E-02	2.0000E-02	5.0000E-04	1.8868E-04	A	D	MEDICAL
AIR,FRT.	I 125	260.0	8.8686E-01	5.2000E+00	3.4110E-03	2.0000E-02	A	D	MEDICAL
AIR,FRT.	I 131	364.0	8.5020E-01	1.2480E+02	2.3357E-03	3.4286E-01	A	D	MEDICAL
AIR,FRT.	I 131	208.0	1.0624E+00	2.6520E+02	5.1075E-03	1.2750E+00	A	ND	MEDICAL
AIR,FRT.	MO 99	416.0	1.4040E+03	2.0384E+03	3.3750E+00	4.9000E+00	A	D	MEDICAL
AIR,FRT.	MO 99	520.0	4.7840E+02	1.0400E+03	9.2000E-01	2.0000E+00	A	ND	MEDICAL
AIR,FRT.	NB 95	12.1	1.8140E-01	9.6744E+00	1.5000E-02	8.0000E-01	A	D	MEDICAL
AIR,FRT.	P 32	104.0	3.1200E-01	1.5600E+01	3.0000E-03	1.5000E-01	A	D	MEDICAL
AIR,FRT.	PA226	52.0	1.8720E-04	5.2000E+00	3.6000E-06	1.0000E-01	A	D	MEDICAL

TABLE A-120

CITY LAT = 4.5070000E+01 CITY LONG = 9.3210000E+01 RADIUS = 9.5900000E-01  
 \* \* \* \* \* CITY = MINNEAPOLIS/ST. PAUL ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	PU239	1.0	1.6000E-05	0.	1.6000E-05	0.	E	ND	FUEL CY
AIR,FRT.	U 235	21.7	9.1000E-02	4.3333E-01	4.2000E-03	2.0000E-02	A	D	FUEL CY
AIR,FRT.	H 3	39.0	5.6333E-01	0.	1.4444E-02	0.	A	D	INDUSTR
AIR,FRT.	H 3	4.3	4.3333E-01	0.	1.0000E-01	0.	A	ND	INDUSTR
AIR,FRT.	CO 60	52.0	4.7788E+02	1.0400E+01	5.1900E+00	2.0000E-01	A	ND	MED-IND
AIR,FRT.	CR 51	13.0	1.1700E-01	8.6667E-01	9.0000E-03	6.6667E-02	A	D	MED-IND
AIR,FRT.	C 14	8.7	8.6667E-03	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,FRT.	I 125	56.3	4.5933E-02	5.2000E+00	8.1538E-04	9.2308E-02	A	D	MEDICAL
AIR,FRT.	I 131	56.3	1.6995E+00	4.2033E+01	3.0169E-02	7.4615E-01	A	D	MEDICAL
AIR,FRT.	I 131	104.0	1.1430E+00	2.3400E+02	1.0990E-02	2.2500E+00	A	ND	MEDICAL
AIR,FRT.	MO 99	156.0	1.1747E+02	2.8080E+02	7.5300E-01	1.8000E+00	A	ND	MEDICAL
AIR,FRT.	P 32	8.7	2.1667E-01	8.6667E-01	2.5000E-02	1.0000E-01	A	D	MEDICAL
AIR,FRT.	P 33	4.3	2.1667E-02	0.	5.0000E-03	0.	A	D	MEDICAL
AIR,FRT.	SR 85	4.3	8.6667E-03	4.3333E-01	2.0000E-03	1.0000E-01	A	D	MEDICAL

TABLE A-121

CITY LAT = 4.5070000E+01 CITY LONG = 9.3210000E+01 RADIUS = 9.5900000E-01  
 \* \* \* \* \* CITY = MINNEAPOLIS/ST. PAUL TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MF	4.0	4.0000E-03	2.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,PASS.	CA 45	4.3	4.3333E-02	0.	1.0000E-02	0.	A	D	INDUSTR
AIR,PASS.	CS137	8.0	2.0000E+00	4.0000E+01	2.5000E-01	5.0000E+00	A	ND	INDUSTR
AIR,PASS.	H 3	179.7	1.6579E+00	0.	9.2275E-03	0.	A	D	INDUSTR
AIR,PASS.	PO210	8.0	1.0144E+03	2.1200E+01	1.2680E+02	2.6500E+00	LQ	ND	INDUSTR
AIR,PASS.	C 14	17.3	2.1667E-02	0.	1.2500E-03	0.	A	D	MEDICAL
AIR,PASS.	CO 58	2.0	6.0000E-03	0.	3.0000E-03	0.	A	ND	MEDICAL
AIR,PASS.	GA 67	104.0	3.8400E-01	1.8200E+01	8.5000E-03	1.7500E-01	A	D	MEDICAL
AIR,PASS.	I 123	52.0	2.6000E-02	5.2000E+00	5.0000E-04	1.0000E-01	A	ND	MEDICAL
AIR,PASS.	I 125	316.3	6.7297E-03	0.	2.1274E-05	0.	A	D	MEDICAL
AIR,PASS.	I 125	52.0	2.0800E-04	0.	4.0000E-06	0.	E	D	MEDICAL
AIR,PASS.	I 131	884.0	6.8792E+00	7.3560E+02	7.7819E-03	6.0588E-01	A	D	MEDICAL
AIR,PASS.	MO 99	208.0	1.4040E+02	3.5120E+02	6.7500E-01	2.6500E+00	A	D	MEDICAL
AIR,PASS.	P 32	4.3	4.3333E-02	4.3333E-01	1.0000E-02	1.0000E-01	A	D	MEDICAL
AIR,PASS.	YC 99M	416.0	5.0180E+00	5.7200E+01	1.2063E-02	1.3750E-01	A	D	MEDICAL

TABLE A-122

CITY LAT = 4.5070000E+01 CITY LONG = 9.3210000E+01 RADIUS = 9.5900000E-01  
 \* \* \* \* \* CITY = MINNEAPOLIS/ST. PAUL ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	U 238	12.1	2.1888E+05	1.2093E+00	1.8100E+04	1.0000E-01	A	D	FUEL CY
AIR,PASS.	H 3	21.7	1.5600E-01	0.	7.2000E-03	0.	A	D	INDUSTR
AIR,PASS.	XE133	104.0	3.8480E+00	0.	3.7000E-02	0.	A	D	MED-IND
AIR,PASS.	CU 64	24.2	9.6744E-02	3.6279E+00	4.0000E-03	1.5000E-01	A	D	MEDICAL
AIR,PASS.	I 125	108.3	2.2915E-02	0.	2.1152E-04	0.	A	D	MEDICAL
AIR,PASS.	I 131	312.0	2.0592E+00	1.5080E+02	6.6000E-03	4.8333E-01	A	D	MEDICAL
AIR,PASS.	I 131	104.0	2.9068E-01	8.3200E+01	2.7950E-03	8.0000E-01	A	ND	MEDICAL
AIR,PASS.	MO 99	104.0	8.2576E+01	2.3920E+02	7.9400E-01	2.3000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	572.0	4.2567E+02	9.4640E+02	7.4418E-01	1.6545E+00	A	ND	MEDICAL
AIR,PASS.	V 48	52.0	5.2000E-02	1.0400E+02	1.0000E-03	2.0000E+00	A	D	MEDICAL

TABLE A-123

CITY LAT = 4.5070000E+01    CITY LONG = 9.3210000E+01    RADIUS = 9.5900000E-01  
 \* \* \* \* \* CITY = MINNEAPOLIS/ST. PAUL    TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	U 235	84.0	3.8343E+05	2.0700E+01	4.5647E+03	2.4643E-01	B	D	FUEL CY
TRUCK	U 235	2.0	2.7000E-02	0.	1.3500E-02	0.	E	D	FUEL CY
TRUCK	U 238	12.1	4.6788E+07	0.	3.8690E+06	0.	A	ND	FUEL CY
TRUCK	U 238	24.0	5.1252E+05	2.4000E+00	2.1355E+04	1.0000E-01	LS	D	FUEL CY
TRUCK	CS137	4.0	1.1000E+00	1.0000E+00	2.7500E-01	2.5000E-01	A	TJ	INDUSTR
TRUCK	H 3	832.0	5.6460E-02	0.	1.1594E-04	0.	A	D	INDUSTR
TRUCK	P0210	6.0	1.1000E-02	0.	1.8333E-03	0.	A	ND	INDUSTR
TRUCK	I 125	4.3	1.3000E-01	0.	3.0000E-02	0.	A	D	MEDICAL
TRUCK	MO 99	52.0	3.6400E+01	9.3600E+01	7.0000E-01	1.8000E+00	A	D	MEDICAL
TRUCK	P 32	4.3	6.5000E-02	8.6667E-01	1.5000E-02	2.0000E-01	A	D	MEDICAL

TABLE A-124

CITY LAT = 4.5070000E+01    CITY LONG = 9.3210000E+01    RADIUS = 9.5900000E-01  
 \* \* \* \* \* CITY = MINNEAPOLIS/ST. PAUL    ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	NF	2.0	2.0000E-02	2.0000E+00	1.0000E-02	1.0000E+00	LS	ND	FUEL CY
TRUCK	KR 85	6.0	1.8000E+00	6.0000E+01	3.0000E-01	1.0000E-01	A	D	INDUSTR
TRUCK	CO 60	2.0	8.9820E+03	4.4000E+00	4.4910E+03	2.2000E+00	B	ND	MED-IND



TABLE A-125

CITY LAT = 4.0730000E+01    CITY LONG = 7.4600000E+01    RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK    TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MF	2.0	2.0000E-03	2.0000E+00	1.0000E-03	1.0000E+00	A	ND	FUEL CY
AUTOMOBILE	U 235	24.2	1.3302E-05	0.	5.5000E-07	0.	E	D	FUEL CY
AUTOMOBILE	U 235	24.2	2.4186E-03	0.	1.0000E-04	0.	LS	D	FUEL CY
AUTOMOBILE	AM241	2.0	2.0000E-05	0.	1.0000E-05	0.	A	D	INDUSYR
AUTOMOBILE	I 123	52.0	2.6000E-01	3.1200E+01	5.0000E-03	6.0000E-01	A	D	MEDICAL
AUTOMOBILE	I 131	12.1	1.2093E-05	0.	1.0000E-06	0.	E	D	MEDICAL
AUTOMOBILE	TC 99M	52.0	6.7600E+00	5.2000E+00	1.3000E-01	1.0000E-01	A	D	MEDICAL

TABLE A-126

CITY LAT = 4.0730000E+01    CITY LONG = 7.4600000E+01    RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK    ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MF	28.0	2.6020E-02	2.6000E+01	9.2929E-04	9.2857E-01	A	ND	FUEL CY
AUTOMOBILE	PU239	1.0	1.6000E-05	0.	1.6000E-05	0.	E	ND	FUEL CY



TABLE A-127

CITY LAT = 4.0730000E+01      CITY LONG = 7.4600000E+01      RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK      TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	PU238	1.0	2.5000E-01	4.0000E-02	2.5000E-01	4.0000E-02	A	ND	FUEL CY
AIR,FRT.	U 235	209.0	4.3565E+01	8.3200E+01	2.1801E-01	3.9809E-01	A	D	FUEL CY
AIR,FRT.	U 235	1.0	1.0000E-01	0.	1.0000E-01	0.	A	ND	FUEL CY
AIR,FRT.	U 235	1.0	1.0000E+00	0.	1.0000E+00	0.	E	D	FUEL CY
AIR,FRT.	U 238	1.0	2.0000E-02	0.	2.0000E-02	0.	E	ND	FUEL CY
AIR,FRT.	H 3	275.0	1.0523E+00	0.	3.8264E-03	0.	A	D	INDUSTR
AIR,FRT.	IR192	36.3	3.8335E+03	1.2053E+02	1.0567E+02	3.3333E+00	B	ND	INDUSTR
AIR,FRT.	PO210	104.0	1.8200E-01	0.	1.7500E-03	0.	E	D	INDUSTR
AIR,FRT.	S 35	8.7	4.7667E-02	0.	5.5000E-03	0.	A	D	INDUSTR
AIR,FRT.	SE 75	156.0	2.9224E+01	3.3280E+02	1.8733E-01	2.1333E+00	A	D	INDUSTR
AIR,FRT.	CO 60	156.0	9.6980E+02	1.5600E+01	6.2167E+00	1.0000E-01	A	D	MED-IND
AIR,FRT.	CO 60	52.0	4.7788E+02	1.0400E+01	9.1900E+00	2.0000E-01	A	ND	MED-IND
AIR,FRT.	CR 51	481.0	4.6055E-01	7.9300E+01	9.5748E-04	1.6486E-01	A	D	MED-IND
AIR,FRT.	XE133	832.0	1.3728E+02	0.	1.6500E-01	0.	A	D	MED-IND
AIR,FRT.	AU198	52.0	1.8720E-01	4.1600E+01	3.6000E-03	8.0000E-01	A	D	MEDICAL
AIR,FRT.	C 14	77.1	1.0307E-01	0.	1.3370E-03	0.	A	D	MEDICAL
AIR,FRT.	CL 35	52.0	5.2000E-03	0.	1.0000E-02	0.	A	D	MEDICAL
AIR,FRT.	CO 57	212.3	4.4061E-02	2.6433E+01	2.0751E-04	1.2449E-01	A	D	MEDICAL
AIR,FRT.	CO 57	208.0	1.4560E-03	2.6000E+01	7.0000E-06	1.2500E-01	A	ND	MEDICAL
AIR,FRT.	CO 57	52.0	4.6800E-04	0.	9.0000E-06	0.	E	ND	MEDICAL
AIR,FRT.	GA 67	16.0	1.8400E+01	7.0000E+01	1.1500E+00	4.3750E+00	A	D	MEDICAL
AIR,FRT.	HG197	416.0	1.8304E+00	8.3200E+01	4.4000E-03	2.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	745.3	7.3109E-01	6.0233E+01	9.8088E-04	8.0814E-02	A	D	MEDICAL
AIR,FRT.	I 131	4540.0	1.3238E+02	4.0248E+03	2.6798E-02	8.1474E-01	A	D	MEDICAL
AIR,FRT.	I 131	5256.0	3.1539E+01	3.7856E+03	5.8885E-03	7.0680E-01	A	ND	MEDICAL
AIR,FRT.	IN111	214.0	2.1520E+01	6.4800E+01	1.0056E-01	3.0280E-01	A	L	MEDICAL
AIR,FRT.	MO 99	52.0	8.8088E+01	1.3000E+02	1.6940E+00	2.5000E+00	A	D	MEDICAL
AIR,FRT.	MO 99	10556.0	9.5134E+03	1.9037E+04	9.0123E-01	1.8034E+00	A	ND	MEDICAL
AIR,FRT.	MO 99	52.0	7.6440E+03	5.2000E+01	1.4700E+02	1.0000E+00	B	D	MEDICAL
AIR,FRT.	P 32	364.0	3.6582E+00	6.7600E+01	1.0050E-02	1.8571E-01	A	D	MEDICAL

TABLE A-128

CITY LAT = 4.0730000E+01 CITY LONG = 7.4600000E+01 RADIUS = 4.3600000E+01  
 \* \* \* \* \* CITY = NEWARK ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPNT	AVERAGE TI PER SHPNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	10.4	8.7786E-03	2.0920E+01	8.4759E-04	2.0199E+00	A	D	FUEL CY
AIR,FRT.	MF	2.0	2.0000E-04	2.0000E+00	1.0000E-04	1.0000E+00	A	ND	FUEL CY
AIR,FRT.	PU238	6.0	1.0950E+02	1.0000E+00	1.8250E+01	1.6667E-01	A	ND	FUEL CY
AIR,FRT.	PU239	8.0	2.8000E+02	0.	3.5000E+01	0.	A	ND	FUEL CY
AIR,FRT.	PU242	2.0	1.0001E+01	2.0000E-01	5.0005E+00	1.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 233	1.0	1.2000E-01	4.0000E-01	1.2000E-01	4.0000E-01	A	ND	FUEL CY
AIR,FRT.	U 235	81.0	1.2164E+03	0.	1.5017E+01	0.	A	D	FUEL CY
AIR,FRT.	U 235	42.1	1.8843E+04	1.9247E+01	4.4766E+02	4.5724E-01	F	ND	FUEL CY
AIR,FRT.	U 235	29.0	3.7856E+04	1.3000E+00	1.3054E+03	4.4828E-02	B	D	FUEL CY
AIR,FRT.	U 235	62.0	7.1275E+05	6.2000E+00	1.1496E+04	1.0000E-01	B	ND	FUEL CY
AIR,FRT.	U 235	5.0	1.2510E-01	0.	2.5020E-02	0.	E	D	FUEL CY
AIR,FRT.	U 235	1.0	1.1000E+01	0.	1.1000E+01	0.	E	ND	FUEL CY
AIR,FRT.	U 235	1.0	1.0000E-04	0.	1.0000E-04	0.	LS	ND	FUEL CY
AIR,FRT.	U 238	1.0	1.5000E+04	1.0000E+00	1.5000E+04	1.0000E+00	A	ND	FUEL CY
AIR,FRT.	AM241	158.2	1.0700E+01	3.5157E+00	6.7630E-02	2.2222E-02	A	ND	INDUSTRIAL
AIR,FRT.	AM241	48.4	6.3325E+02	1.4512E+01	1.3091E+01	3.0000E-01	B	ND	INDUSTRIAL
AIR,FRT.	AM241	2.0	2.0000E-06	0.	1.0000E-06	0.	F	ND	INDUSTRIAL
AIR,FRT.	CS137	12.1	2.6605E-01	3.6279E+01	2.2000E-02	3.0000E+00	A	D	INDUSTRIAL
AIR,FRT.	CS137	2.0	2.0000E-04	2.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTRIAL
AIR,FRT.	H 3	777.7	1.1368E+05	0.	1.4617E+02	0.	A	D	INDUSTRIAL
AIR,FRT.	IR192	64.4	3.6921E+03	6.2400E+01	5.7330E+01	9.6894E-01	A	ND	INDUSTRIAL
AIR,FRT.	IR192	137.3	1.5115E+04	2.2756E+02	1.1012E+02	1.6607E+00	B	ND	INDUSTRIAL
AIR,FRT.	KR 85	94.2	5.0955E+02	7.2065E+01	5.4101E+00	7.6514E-01	A	D	INDUSTRIAL
AIR,FRT.	NA 22	4.3	4.3333E-04	4.3333E-01	1.0000E-04	1.0000E-01	A	D	INDUSTRIAL
AIR,FRT.	PO210	260.0	5.5484E+00	0.	2.1340E-02	0.	E	D	INDUSTRIAL
AIR,FRT.	RA226	2.0	1.0000E-02	2.8000E+00	5.0000E-03	1.4000E+00	A	ND	INDUSTRIAL
AIR,FRT.	S 35	221.0	1.6241E+01	2.6000E+01	7.3490E-02	1.1765E-01	A	D	INDUSTRIAL
AIR,FRT.	SE 75	104.0	8.4552E-01	2.0800E+01	8.1300E-03	2.0000E-01	A	D	INDUSTRIAL
AIR,FRT.	SR 89	12.1	1.2093E-01	2.4186E+00	1.0000E-02	2.0000E-01	A	D	INDUSTRIAL
AIR,FRT.	CO 60	2.0	2.0000E-06	2.0000E-01	1.0000E-06	1.0000E-01	A	D	MED-IND
AIR,FRT.	CO 60	21.8	3.1371E+01	2.1300E+01	1.4390E+00	9.7706E-01	A	ND	MED-IND
AIR,FRT.	CR 51	155.0	7.6703E-01	2.4700E+01	3.9335E-03	1.2667E-01	A	D	MED-IND
AIR,FRT.	XE133	441.1	7.5719E+03	5.7442E+02	1.7166E+01	1.3023E+00	A	D	MED-IND
AIR,FRT.	AU198	64.1	8.3216E+02	3.1321E+02	1.2984E+01	4.8868E+00	A	D	MEDICAL
AIR,FRT.	BK249	2.0	1.3400E+00	2.0000E-01	6.7000E-01	1.0000E-01	B	ND	MEDICAL
AIR,FRT.	C 14	845.9	2.2343E+02	2.6121E+02	2.6414E-01	3.0880E-01	A	D	MEDICAL
AIR,FRT.	C 14	8.7	1.3000E-02	0.	1.5000E-03	0.	A	ND	MEDICAL
AIR,FRT.	CE144	24.2	2.4186E+01	7.2558E+01	1.0000E+00	1.0000E+00	A	D	MEDICAL
AIR,FRT.	CO 57	52.0	2.6000E-03	5.2000E+00	5.0000E-05	1.0000E-01	A	D	MEDICAL
AIR,FRT.	CO 57	52.0	1.1960E-02	0.	2.3000E-04	0.	A	ND	MEDICAL
AIR,FRT.	CS134	12.1	1.2093E-03	3.6279E+00	1.0000E-04	3.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	30.3	3.2500E-01	1.1267E+01	1.0714E-02	3.0000E-01	A	D	MEDICAL
AIR,FRT.	HG197	52.0	3.3800E+00	1.5600E+01	6.5000E-02	3.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	1122.9	3.5454E+01	1.1389E+02	3.1572E-02	1.0142E-01	A	D	MEDICAL
AIR,FRT.	I 131	1202.4	3.7840E+02	2.1053E+03	3.1469E-01	1.7508E+00	A	D	MEDICAL
AIR,FRT.	I 131	72.6	2.9592E+03	1.2214E+02	4.0783E+01	1.6833E+00	B	D	MEDICAL
AIR,FRT.	K 42	12.1	5.6744E-02	4.8372E+00	8.0000E-03	4.0000E-01	A	D	MEDICAL
AIR,FRT.	K 43	72.6	5.4419E-01	5.3209E+01	7.5000E-03	7.3333E-01	A	D	MEDICAL
AIR,FRT.	MO 99	1197.6	1.4226E+03	2.5547E+03	1.1879E+00	2.1331E+00	A	D	MEDICAL
AIR,FRT.	MO 99	48.4	5.4189E+03	3.2409E+02	1.1203E+02	6.7000E+00	B	D	MEDICAL

A107

CITY LAT = 4.0730000E+01 CITY LONG = 7.4600000E+01 RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	NA 24	84.7	4.8372E-01	1.5600E+02	5.7143E-03	1.8429E+00	A	D	MEDICAL
AIR,FRT.	P 32	130.7	5.0030E+01	7.6710E+01	3.8277E-01	5.8689E-01	A	D	MEDICAL
AIR,FRT.	P 33	12.1	1.4512E+00	0.	1.2000E-01	0.	A	D	MEDICAL

TABLE A-129

CITY LAT = 4.0730000E+01 CITY LONG = 7.4600000E+01 RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	PU238	6.0	1.5000E+00	2.4000E-01	2.5000E-01	4.0000E-02	A	ND	FUEL CY
AIR,PASS.	U 235	659.2	1.6030E+04	6.4100E+02	2.4318E+01	9.7241E-01	A	D	FUEL CY
AIR,PASS.	U 235	53.0	1.2009E+01	9.7400E+01	2.2658E-01	1.8377E+00	A	ND	FUEL CY
AIR,PASS.	U 235	1.0	1.4000E+01	5.0000E-02	1.4000E+01	5.0000E-02	B	D	FUEL CY
AIR,PASS.	U 235	8.0	3.3302E+02	0.	4.1628E+01	0.	E	ND	FUEL CY
AIR,PASS.	CS137	52.0	5.2000E-04	0.	1.0000E-05	0.	A	D	INDUSTR
AIR,PASS.	CS137	4.0	1.8200E+02	4.0000E-01	4.5500E+01	1.0000E-01	A	ND	INDUSTR
AIR,PASS.	H 3	13.0	4.5933E-01	0.	3.5333E-02	0.	A	D	INDUSTR
AIR,PASS.	H 3	6.0	4.4400E-01	0.	7.4000E-02	0.	E	D	INDUSTR
AIR,PASS.	CO 60	14.0	4.7580E+02	1.5600E+01	4.5750E+00	1.5000E-01	A	D	MED-IND
AIR,PASS.	CO 60	52.0	1.0400E+01	1.0400E+01	2.0000E-01	2.0000E-01	A	ND	MED-IND
AIR,PASS.	CR 51	1248.0	1.7270E+00	2.5480E+02	1.3844E-03	2.0417E-01	A	D	MED-IND
AIR,PASS.	XE133	312.0	8.8400E+00	0.	2.8333E-02	0.	A	D	MED-IND
AIR,PASS.	AU198	676.0	4.7715E+01	2.5480E+03	7.0585E-02	3.7692E+00	A	D	MEDICAL
AIR,PASS.	C 14	0.3	4.3333E-03	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	CO109	2.0	2.0000E-01	4.0000E-02	1.0000E-01	2.0000E-02	A	ND	MEDICAL
AIR,PASS.	CE137	52.0	5.2000E-02	1.0400E+01	1.0000E-03	2.0000E-01	A	D	MEDICAL
AIR,PASS.	CO 57	936.0	1.3686E-01	1.6120E+02	1.4622E-04	1.7222E-01	A	D	MEDICAL
AIR,PASS.	CO 57	366.0	4.6640E-03	4.7000E+01	1.2743E-05	1.2842E-01	A	ND	MEDICAL
AIR,PASS.	GA 67	1648.0	1.7968E+02	9.0940E+02	1.0903E-01	5.5182E-01	A	D	MEDICAL
AIR,PASS.	HG197	156.0	6.8120E-01	1.5600E+01	4.3667E-03	1.0000E-03	A	D	MEDICAL
AIR,PASS.	HG197	104.0	4.1165E-01	3.1200E+01	3.9585E-03	3.0000E-01	A	ND	MEDICAL
AIR,PASS.	I 125	3536.0	6.5520E+00	4.8958E+02	1.8529E-03	1.3846E-01	A	D	MEDICAL
AIR,PASS.	I 125	1358.3	3.8876E-01	2.3400E+02	2.8620E-04	1.7227E-01	A	D	MEDICAL
AIR,PASS.	I 131	12740.0	2.5825E+02	1.2279E+04	2.0271E-02	9.6384E-01	A	D	MEDICAL
AIR,PASS.	I 131	12324.0	4.5763E+01	8.8556E+03	3.7133E-03	7.1857E-01	A	ND	MEDICAL
AIR,PASS.	IN111	802.0	1.5656E+01	3.1400E+01	1.8773E-02	3.9152E-02	A	D	MEDICAL
AIR,PASS.	MO 99	52.0	3.0576E+01	1.1440E+02	5.8800E-01	2.2000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	25376.0	2.2014E+04	4.5635E+04	8.6750E-01	1.7984E+00	A	ND	MEDICAL
AIR,PASS.	MO 99	52.0	1.0348E+04	1.5600E+02	1.9900E+02	3.0000E+00	B	D	MEDICAL
AIR,PASS.	P 32	520.0	5.4558E+00	8.8400E+01	1.0492E-02	1.7000E-01	A	D	MEDICAL
AIR,PASS.	TC 99M	1612.0	1.1341E+02	3.7180E+02	7.0355E-02	2.3065E-01	A	D	MEDICAL
AIR,PASS.	TL204	2.0	2.0000E-04	0.	1.0000E-04	0.	A	D	MEDICAL

TABLE A-130

CITY LAT = 4.0730000E+01 CITY LONG = 7.4600000E+01 RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MF	2.0	2.0000E-03	2.0000E-02	1.0000E-03	1.0000E-02	A	ND	FUEL CY
AIR,PASS.	PU236	1.0	5.0000E-04	2.0000E-01	5.0000E-04	2.0000E-01	A	D	FUEL CY
AIR,PASS.	PU238	8.0	7.5420E+00	2.2000E-01	9.4275E-01	2.7500E-02	A	ND	FUEL CY
AIR,PASS.	PU238	1.0	2.1000E+00	1.0000E+01	2.1000E+00	1.0000E+01	B	ND	FUEL CY
AIR,PASS.	PU239	1.0	5.0000E-01	0.	5.0000E-01	0.	A	ND	FUEL CY
AIR,PASS.	PU240	1.0	6.6000E-04	0.	6.6000E-04	0.	A	ND	FUEL CY
AIR,PASS.	PU241	1.0	1.0000E-02	0.	1.0000E-02	0.	A	ND	FUEL CY
AIR,PASS.	PU242	5.0	5.3300E-01	0.	1.0660E-01	0.	A	ND	FUEL CY
AIR,PASS.	TH228	1.0	1.2000E-08	0.	1.2000E-08	0.	E	ND	FUEL CY
AIR,PASS.	TH232	6.0	7.0800E+01	0.	1.1800E+01	0.	E	ND	FUEL CY
AIR,PASS.	U 233	9.0	1.7130E-01	0.	1.9033E-02	0.	A	D	FUEL CY
AIR,PASS.	U 233	4.0	2.2415E+02	4.0000E-01	5.6038E+01	1.0000E-01	A	ND	FUEL CY
AIR,PASS.	U 235	66.9	2.6922E+00	1.8426E+00	4.0215E-02	2.7524E-02	A	D	FUEL CY
AIR,PASS.	U 235	18.0	8.6534E-01	1.2000E+00	4.8074E-02	6.6667E-02	A	ND	FUEL CY
AIR,PASS.	U 235	35.2	3.3316E+00	0.	9.4685E-02	0.	B	D	FUEL CY
AIR,PASS.	U 235	2.0	1.6000E-01	2.0000E-01	8.0000E-02	1.0000E-01	B	ND	FUEL CY
AIR,PASS.	U 235	23.1	6.8961E+01	1.0000E-01	2.9862E+00	4.3303E-03	E	D	FUEL CY
AIR,PASS.	U 235	5.0	9.3241E+02	0.	1.8648E+02	0.	E	ND	FUEL CY
AIR,PASS.	U 235	1.0	2.0000E-03	0.	2.0000E-03	0.	LS	ND	FUEL CY
AIR,PASS.	U 236	1.0	3.0000E-01	1.0000E-01	3.0000E-01	1.0000E-01	A	ND	FUEL CY
AIR,PASS.	U 238	12.1	4.9581E+04	2.4186E+00	4.1000E+03	2.0000E-01	A	D	FUEL CY
AIR,PASS.	U 238	1.0	4.0000E-03	0.	4.0000E-03	0.	E	ND	FUEL CY
AIR,PASS.	U 238	26.0	4.3583E+05	2.6000E+00	1.6763E+04	1.0000E-01	LS	D	FUEL CY
AIR,PASS.	AM241	14.1	1.4093E-06	1.2093E+00	1.0000E-07	8.5809E-02	A	D	INDUSTR
AIR,PASS.	AM241	38.2	2.7358E+01	2.4186E-03	7.1645E-01	6.3337E-05	A	ND	INDUSTR
AIR,PASS.	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	E	ND	INDUSTR
AIR,PASS.	CA 45	8.7	2.6000E-02	0.	3.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	CF252	2.0	5.4000E-02	1.0000E+01	2.7000E-02	5.0000E+00	A	ND	INDUSTR
AIR,PASS.	CS137	12.1	3.5312E+00	1.2093E+01	2.9200E-01	1.0000E+00	A	ND	INDUSTR
AIR,PASS.	FE 55	2.0	4.0000E-02	0.	2.0000E-02	0.	E	ND	INDUSTR
AIR,PASS.	H 3	3584.7	1.6223E+01	2.0000E-01	4.5256E-03	5.5793E-05	A	D	INDUSTR
AIR,PASS.	H 3	10.0	1.4600E-02	0.	1.4600E-03	0.	E	D	INDUSTR
AIR,PASS.	IR192	2.0	3.5000E-01	0.	1.7500E-01	0.	B	ND	INDUSTR
AIR,PASS.	KR 85	14.0	7.0000E+00	2.2000E+00	5.0000E-01	1.5714E-01	A	D	INDUSTR
AIR,PASS.	KR 85	12.1	1.2093E-04	0.	1.0000E-05	0.	E	D	INDUSTR
AIR,PASS.	NA 22	4.3	2.1667E-03	8.6667E-01	5.0000E-04	2.0000E-01	A	D	INDUSTR
AIR,PASS.	NP237	2.0	2.6200E-02	1.0000E+00	1.3100E-02	5.0000E-01	A	D	INDUSTR
AIR,PASS.	PO210	2.0	6.0000E-02	2.0000E-01	3.0000E-02	1.0000E-01	B	D	INDUSTR
AIR,PASS.	RA226	12.1	2.4186E-03	1.2093E+01	2.0000E-04	1.0000E+00	A	D	INDUSTR
AIR,PASS.	S 35	177.7	8.4933E-01	5.2000E+00	4.7805E-03	2.9268E-02	A	D	INDUSTR
AIR,PASS.	SE 75	52.0	1.3000E-02	1.0400E+01	2.5000E-04	2.0000E-01	A	D	INDUSTR
AIR,PASS.	SR 89	12.1	5.4419E-01	4.8372E+00	4.5000E-02	4.0000E-01	A	D	INDUSTR
AIR,PASS.	CM244	12.1	2.4186E+02	0.	2.0000E+01	0.	A	D	MED-IND
AIR,PASS.	CR 51	25.0	1.8633E-01	2.6000E+00	7.1667E-03	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE127	8.0	7.6400E-01	1.6000E+00	9.5500E-02	2.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	258.0	3.7747E+02	4.7767E+01	1.4631E+00	1.8516E-01	A	D	MED-IND
AIR,PASS.	AU198	48.4	3.7851E-01	9.6744E+00	7.8250E-03	2.0000E-01	A	D	MEDICAL
AIR,PASS.	C 14	1287.7	7.2136E-01	0.	5.6019E-04	0.	A	D	MEDICAL
AIR,PASS.	C 14	12.1	4.8372E-03	0.	4.0000E-04	0.	A	ND	MEDICAL
AIR,PASS.	CD109	4.0	1.0020E-02	0.	2.5050E-03	0.	A	ND	MEDICAL

A109

CITY LAT = 4.0730000E+01 CITY LONG = 7.4600000E+01 RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK \* \* \* \* \* ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	CO 57	1636.2	1.4513E+01	6.2884E+01	8.8703E-03	3.8433E-02	A	D	MEDICAL
AIR,PASS.	FE 52	10.0	2.1200E-01	2.8000E-01	2.1200E-02	2.8000E+00	A	D	MEDICAL
AIR,PASS.	FE 59	4.3	2.1667E-03	8.6667E-01	5.0000E-04	2.0000E-01	A	D	MEDICAL
AIR,PASS.	GA 67	4.3	1.0400E-01	8.6667E+00	2.4000E-02	2.0000E+00	A	D	MEDICAL
AIR,PASS.	HG203	52.0	5.2000E-01	1.5600E+01	1.0000E-02	3.0000E-01	A	D	MEDICAL
AIR,PASS.	I 123	6.0	2.6400E-01	2.6000E+00	4.4000E-02	4.3333E-01	A	D	MEDICAL
AIR,PASS.	I 125	7058.8	2.3102E+01	6.6532E+01	3.2728E-03	9.4254E-03	A	D	MEDICAL
AIR,PASS.	I 125	208.0	1.7368E-02	0.	8.3500E-05	0.	E	D	MEDICAL
AIR,PASS.	I 125	2.0	1.0000E-02	2.0000E-02	5.0000E-03	1.0000E-02	LS	D	MEDICAL
AIR,PASS.	I 131	1896.9	4.7663E+01	1.4847E+03	2.5127E-02	7.8269E-01	A	D	MEDICAL
AIR,PASS.	I 131	48.4	1.5914E+03	9.0698E+01	3.2900E+01	1.8750E+00	B	D	MEDICAL
AIR,PASS.	K 43	24.2	4.8372E-02	9.6744E+00	2.0000E-03	4.0000E-01	A	D	MEDICAL
AIR,PASS.	MG 28	12.0	2.6720E-03	1.2000E+01	2.2267E-04	1.0000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	1640.5	2.0617E+03	5.3520E+02	1.2568E+00	3.2624E-01	A	D	MEDICAL
AIR,PASS.	P 32	437.7	8.3243E+00	7.4967E+01	1.9020E-02	1.7129E-01	A	D	MEDICAL
AIR,PASS.	P 33	4.3	4.3333E-02	0.	1.0000E-02	0.	A	D	MEDICAL
AIR,PASS.	TC 99M	52.0	2.0800E+00	2.6000E+01	4.0000E-02	5.0000E-01	A	D	MEDICAL
AIR,PASS.	TL201	30.0	8.1462E+00	9.4000E+00	2.7154E-01	3.1333E-01	A	D	MEDICAL

TABLE A-131

CITY LAT = 4.0730000E+01 CITY LONG = 7.4600000E+01 RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	U 235	10.0	3.4855E+05 *	5.0000E+01	3.4855E+04 *	5.0000E+00	B	ND	FUEL CY
SHIP	U 235	1.0	2.4300E-02 *	0.	2.4300E-02 *	0.	E	D	FUEL CY
SHIP	KR 85	2.0	1.0000E+00	2.0000E-01	5.0000E-01	1.0000E-01	A	D	INDUSTR



TABLE A-132

CITY LAT = 4.0730000E+01    CITY LONG = 7.4600000E+01    RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK    ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	U 235	32.0	7.9711E+05 *	1.6000E+02	2.4910E+04 *	5.0000E+00	B	ND	FUEL CY
SHIP	U 235	1.0	4.2400E-01 *	0.	4.2600E-01 *	0.	LS	D	FUEL CY

TABLE A-133

CITY LAT = 4.0730000E+01    CITY LONG = 7.4600000E+01    RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK    ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
RAIL	U 235	1.0	4.4000E-03 *	0.	4.4000E-03 *	0.	B	D	FUEL CY



TABLE A-134

CITY LAT = 4.0730068E+01 CITY LONG = 7.4600000E+01 RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	HF	2.0	2.0000E-04	0.	1.0000E-04	0.	A	NO	FUEL CY
TRUCK	PU238	1.0	2.4000E+00	1.1000E+00	2.4000E+00	1.1000E+00	A	NO	FUEL CY
TRUCK	SF	6.0	2.2996E+06	3.0000E+02	3.8327E+05	5.0000E+01	B	NO	FUEL CY
TRUCK	U 235	365.0	1.0805E+01	3.7961E+02	2.9602E-02	1.0400E+00	A	D	FUEL CY
TRUCK	U 235	29.0	1.3545E+06	5.0010E+01	4.6706E+04	1.7245E+00	B	NO	FUEL CY
TRUCK	U 235	3.0	8.0600E+00	0.	2.6867E+00	0.	E	D	FUEL CY
TRUCK	U 235	2.0	5.1400E+01	0.	2.5700E+01	0.	E	NO	FUEL CY
TRUCK	U 235	374.9	4.0564E+03	2.8600E+03	1.0820E+01	7.6290E+00	LS	D	FUEL CY
TRUCK	CS137	4.0	5.6000E+03	0.	1.4000E+03	0.	A	NO	INDUSTR
TRUCK	CS137	4.0	4.0000E-04	4.0000E-02	1.0000E-04	1.0000E-02	LS	D	INDUSTR
TRUCK	H 3	104.0	1.1440E-03	0.	1.1000E-05	0.	A	D	INDUSTR
TRUCK	KR 85	2.0	1.0000E+00	2.0000E-01	5.0000E-01	1.0000E-01	A	D	INDUSTR
TRUCK	PO210	6.0	1.1000E-02	0.	1.8333E-03	0.	A	NO	INDUSTR
TRUCK	SE 75	48.0	2.0803E-01	1.3000E+02	4.4450E-04	2.7778E-01	A	D	INDUSTR
TRUCK	CO 60	52.0	2.6000E-04	5.2030E+00	5.0000E-06	1.0000E-01	A	D	MED-IND
TRUCK	CO 60	12.0	1.2072E+06	5.8000E+00	1.0060E+05	4.8333E-01	B	NO	MED-IND
TRUCK	CR 51	1092.0	1.7628E+00	1.6640E+02	1.6143E-03	1.5238E-01	A	D	MED-IND
TRUCK	XE133	2600.0	1.5665E+04	3.1200E+01	6.0249E+00	1.2000E-02	A	D	MED-IND
TRUCK	AU198	1038.8	1.5624E+03	4.0472E+03	1.5041E+00	3.8960E+00	A	D	MEDICAL
TRUCK	AU198	4.0	4.0000E-07	0.	1.0000E-07	0.	A	NO	MEDICAL
TRUCK	C 14	2.0	6.8000E-05	0.	3.4000E-05	0.	A	D	MEDICAL
TRUCK	CO 57	676.0	3.5204E-02	1.1440E+02	5.2077E-05	1.6923E-01	A	D	MEDICAL
TRUCK	CO 57	208.0	1.3000E-03	9.8800E+01	6.2500E-06	4.7500E-01	A	NO	MEDICAL
TRUCK	CO 57	52.0	2.6000E-04	0.	5.0000E-06	0.	E	D	MEDICAL
TRUCK	CO 57	4.0	4.0000E-03	4.0000E-02	1.0000E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	GA 67	3328.0	2.4492E+01	2.2880E+02	7.3594E-03	6.8750E-02	A	D	MEDICAL
TRUCK	HG197	468.0	2.4768E+01	1.5236E+02	5.2922E-02	3.2556E-01	A	D	MEDICAL
TRUCK	I 123	5408.0	6.3960E+00	4.9920E+02	1.1827E-03	9.2308E-02	A	D	MEDICAL
TRUCK	I 125	1000.1	1.3957E+00	1.4802E+02	1.3956E-03	1.4800E-01	A	D	MEDICAL
TRUCK	I 125	312.0	5.0960E-03	0.	1.6333E-05	0.	E	D	MEDICAL
TRUCK	I 129	200.0	1.4000E+01	0.	7.0000E-02	0.	E	D	MEDICAL
TRUCK	I 131	10348.0	8.0079E+01	7.3648E+03	7.7386E-03	7.1171E-01	A	D	MEDICAL
TRUCK	I 131	6032.0	1.7679E+01	4.1928E+03	2.9308E-03	6.9509E-01	A	NO	MEDICAL
TRUCK	I 131	95.7	5.9147E+02	1.2456E+02	6.1138E+00	1.2875E+00	B	D	MEDICAL
TRUCK	I 131	2.0	2.0000E-05	2.0000E+00	1.0000E-05	1.0000E+00	E	D	MEDICAL
TRUCK	IN111	1508.0	4.9920E+00	3.1200E+01	3.3103E-03	2.0690E-02	A	D	MEDICAL
TRUCK	MO 99	6604.0	6.0488E+03	1.4758E+04	9.1593E-01	2.2346E+00	A	NO	MEDICAL
TRUCK	MO 99	169.3	2.8084E+04	2.7814E+03	1.6588E+02	1.6429E+01	B	D	MEDICAL
TRUCK	P 32	752.2	5.7868E+01	1.7716E+02	7.6933E-02	2.3553E-01	A	D	MEDICAL
TRUCK	PM147	2.0	1.2000E-03	0.	6.0000E-04	0.	A	NO	MEDICAL
TRUCK	SI 31	36.3	1.0884E+00	3.6279E+02	3.0000E-02	1.0000E+01	A	NO	MEDICAL
TRUCK	TC 99H	22932.0	2.9075E+03	3.4744E+03	1.2679E-01	1.5151E-01	A	D	MEDICAL

TABLE A-135

CITY LAT = 4.0730000E+01 CITY LONG = 7.4600000E+01 RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK \* \* \* \* \* ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	1672.1	6.5257E+02	1.0884E+02	3.9027E-01	6.5091E-02	LS	D	FUEL CY
TRUCK	MF	2.0	2.0000E-06	0.	1.0000E-06	0.	A	ND	FUEL CY
TRUCK	MF	2190.3	4.2924E+03	7.3405E+03	1.9597E+00	3.3514E+00	LS	D	FUEL CY
TRUCK	MF	2.0	2.0000E-02	4.0000E+00	1.0000E-02	2.0000E+00	LS	ND	FUEL CY
TRUCK	PU238	2.0	2.1136E+04	1.0000E+01	1.0568E+04	5.0000E+00	B	ND	FUEL CY
TRUCK	PU239	1.0	1.4960E+02	0.	1.4900E+02	0.	B	ND	FUEL CY
TRUCK	U 233	2.0	2.0000E+00	5.0000E-01	1.0000E+00	2.5000E-01	A	ND	FUEL CY
TRUCK	U 235	1671.8	6.8624E+02	2.4300E+01	5.3010E-01	1.4535E-02	A	D	FUEL CY
TRUCK	U 235	52.0	1.6399E+05	2.2000E+01	3.1537E+03	4.2308E-01	A	ND	FUEL CY
TRUCK	U 235	357.0	1.3789E+06	9.5750E+01	3.8624E+03	2.6821E-01	B	D	FUEL CY
TRUCK	U 235	46.0	1.7043E+06	6.5000E-01	3.7051E+04	1.4130E-02	B	ND	FUEL CY
TRUCK	U 235	3.0	2.4400E-02	3.0000E-02	8.1333E-03	1.0000E-02	E	D	FUEL CY
TRUCK	U 235	38.0	4.0200E+02	0.	1.0579E+01	0.	E	ND	FUEL CY
TRUCK	U 235	832.0	9.2232E+02	0.	1.1086E+00	0.	LS	D	FUEL CY
TRUCK	U 235	19.0	5.0134E+02	5.0000E+00	2.6387E+01	2.6316E-01	LS	ND	FUEL CY
TRUCK	U 238	12.1	3.8940E+05	2.4186E+00	3.2200E+04	2.0000E-01	A	D	FUEL CY
TRUCK	U 238	145.1	5.0388E+06	5.1395E+01	3.4723E+04	3.5417E-01	A	ND	FUEL CY
TRUCK	U 238	5.0	1.5800E+02	0.	3.1600E+01	0.	E	ND	FUEL CY
TRUCK	U 238	12.1	2.8225E+07	2.4186E+00	2.3340E+06	2.0000E-01	LQ	D	FUEL CY
TRUCK	U 238	2055.8	7.6744E+08	0.	3.7339E+05	0.	LS	D	FUEL CY
TRUCK	U 238	12.1	1.7996E+06	2.4186E+00	1.4881E+05	2.0000E-01	LS	ND	FUEL CY
TRUCK	AM241	24.2	4.9823E+03	2.6605E+01	2.0600E+02	1.1000E+00	B	ND	INDUSTR
TRUCK	CS137	2.0	1.0000E-01	2.0000E-01	5.0000E-02	1.0000E-01	A	ND	INDUSTR
TRUCK	CS137	37.3	1.3034E+00	3.0340E+01	3.4991E-02	8.1450E-01	LS	D	INDUSTR
TRUCK	EU152	12.1	2.4186E-02	9.6744E+00	2.0000E-03	8.0000E-01	A	D	INDUSTR
TRUCK	FE 55	1.0	1.5000E-01	0.	1.5000E-01	0.	A	D	INDUSTR
TRUCK	H 3	730.0	6.0699E+00	2.0000E+00	8.3149E-03	2.7397E-03	A	D	INDUSTR
TRUCK	H 3	82.0	6.7200E+02	0.	8.1951E+00	0.	B	D	INDUSTR
TRUCK	IR192	48.7	7.5270E+02	1.7040E+02	1.5462E+01	3.5005E+00	A	ND	INDUSTR
TRUCK	KR 85	14.1	1.2099E+03	2.4386E+01	8.5851E+01	1.7304E+00	A	D	INDUSTR
TRUCK	RA226	2.0	1.0000E-01	1.4000E+01	5.0000E-02	7.0000E+00	A	ND	INDUSTR
TRUCK	SE 75	728.0	4.6309E-01	2.0280E+02	6.3611E-04	2.7857E-01	A	D	INDUSTR
TRUCK	CO 60	612.0	1.2220E+02	6.0168E+03	1.9968E-01	9.8314E+00	A	ND	MED-IND
TRUCK	CO 60	18.0	6.5340E+04	2.2800E+01	3.6300E+03	1.2667E+00	B	ND	MED-IND
TRUCK	CO 60	10.0	1.2386E-04	3.6000E-01	1.2386E-05	3.6000E-02	E	ND	MED-IND
TRUCK	CO 60	1068.3	2.6795E+02	1.2000E-01	2.5083E-01	1.1233E-04	LS	D	MED-IND
TRUCK	CR 51	104.0	6.5000E-02	2.6000E+01	6.2500E-04	2.5000E-01	A	D	MED-IND
TRUCK	XE133	168.1	1.8593E+01	7.2558E+00	1.1061E-01	4.3165E-02	A	D	MED-IND
TRUCK	AU198	208.0	4.6800E-01	9.3600E+01	2.2500E-03	4.5000E-01	A	D	MEDICAL
TRUCK	C 14	676.0	1.6276E-01	0.	2.4077E-04	0.	A	D	MEDICAL
TRUCK	CD109	2.0	4.0000E-03	0.	2.0000E-03	0.	E	ND	MEDICAL
TRUCK	CO 57	832.0	5.2000E+00	8.3200E+01	6.2500E-03	1.0000E-01	A	D	MEDICAL
TRUCK	CO 57	418.0	3.8048E-02	2.0000E-01	9.1024E-05	4.7847E-04	A	ND	MEDICAL
TRUCK	CO 57	22.0	2.2000E-02	2.4000E-01	1.0000E-03	1.0909E-02	LS	D	MEDICAL
TRUCK	FE 59	52.0	2.6000E-02	3.1200E+01	5.0000E-04	6.0000E-01	A	D	MEDICAL
TRUCK	FE 59	52.0	2.6000E-04	0.	5.0000E-06	0.	E	D	MEDICAL
TRUCK	GA 67	12.1	1.8260E+03	1.4512E+01	1.5100E+02	1.2000E+00	A	ND	MEDICAL
TRUCK	I 125	1308.5	4.9040E-01	9.6744E+00	3.7479E-04	7.3937E-03	A	D	MEDICAL
TRUCK	I 125	832.0	1.9708E-02	0.	2.3687E-05	0.	E	D	MEDICAL
TRUCK	I 131	4168.5	1.9520E+01	1.3847E+03	4.6827E-03	3.3017E-01	A	D	MEDICAL

CITY LAT = 4.0730000E+01      CITY LONG = 7.4600000E+01      RADIUS = 4.3600000E-01  
 \* \* \* \* \* CITY = NEWARK      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MO 99	232.2	2.9616E+02	4.9170E+02	1.2755E+00	2.1177E+00	A	D	MEDICAL
TRUCK	NI 63	26.0	5.0540E-04	0.	1.9438E-05	0.	A	ND	MEDICAL
TRUCK	P 32	260.0	1.7164E+00	4.6800E+01	6.6016E-02	1.8000E-01	A	D	MEDICAL
TRUCK	TC 99M	19292.0	1.6984E+03	6.5686E+03	8.8035E-02	3.4049E-01	A	D	MEDICAL
TRUCK	W	694.0	1.7673E+03 *	5.8008E+03	2.5466E+00 *	8.3585E+00	A	D	WASTE
TRUCK	W	24.2	2.5794E+04 *	6.0465E+02	1.0665E+03 *	2.5000E+01	A	ND	WASTE
TRUCK	W	6.0	8.0000E+02 *	1.0100E+01	1.3333E+02 *	1.6833E+00	LS	D	WASTE

TABLE A-136

CITY LAT = 4.1420000E+01 CITY LONG = 8.1590000E+01 RADIUS = 7.4100000E-01  
 \* \* \* \* \* CITY = CLEVELAND TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	TH232	9.0	2.6678E+02 *	0.	2.9643E+01 *	0.	E	NO	FUEL CY
AUTOMOBILE	U 235	3.0	1.4200E-03 *	6.0000E-02	4.7333E-04 *	2.0000E-02	E	NO	FUEL CY
AUTOMOBILE	U 235	1.0	1.7558E+00 *	0.	1.7558E+00 *	0.	LS	D	FUEL CY
AUTOMOBILE	KR 85	4.0	2.0000E+00 *	4.0000E-01	5.0000E-01	1.0000E-01	A	D	INDUSTR
AUTOMOBILE	TL201	2.0	6.0000E-03	2.0000E+00	3.0000E-03	1.0000E+00	A	NO	MEDICAL

TABLE A-137

CITY LAT = 4.1420000E+01 CITY LONG = 8.1590000E+01 RADIUS = 7.4100000E-01  
 \* \* \* \* \* CITY = CLEVELAND TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	TH232	1.0	1.3760E-01 *	0.	1.3760E-01 *	0.	LS	D	FUEL CY
AIR,FRT.	U 235	4.0	1.0564E+01 *	0.	2.6410E+00 *	0.	A	D	FUEL CY
AIR,FRT.	U 235	13.0	8.1666E+00 *	0.	6.2820E-01 *	0.	LS	D	FUEL CY
AIR,FRT.	IR192	10.4	1.0400E+03	1.0400E+01	1.0000E+02	1.0000E+00	B	NO	INDUSTR
AIR,FRT.	S 35	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	XE133	64.1	6.7624E+01	2.6000E+01	1.0551E+00	4.0566E-01	A	D	MED-IND
AIR,FRT.	BR 82	48.4	9.6744E-02	1.4512E+01	2.0000E-03	3.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	4.3	2.6000E-02	4.3333E-01	6.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	8.7	5.2433E-02	4.3333E-01	6.0500E-03	5.0000E-02	A	D	MEDICAL
AIR,FRT.	I 131	12.1	1.1126E+01	3.8698E+01	9.2000E-01	3.2000E+00	A	D	MEDICAL
AIR,FRT.	K 43	12.1	2.4186E-02	6.0465E+00	2.0000E-03	5.0000E-01	A	D	MEDICAL
AIR,FRT.	KO 99	156.0	1.5600E+03	9.3600E+02	1.0000E+01	6.0000E+00	A	D	MEDICAL

TABLE A-138

CITY LAT = 4.1420000E+01 CITY LONG = 8.1590000E+01 RADIUS = 7.4100000E-01  
 \* \* \* \* \* CITY = CLEVELAND ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	4.9	8.0000E-01	0.	2.0000E-01	0.	A	NO	FUEL CY
AIR,FRT.	PU238	2.0	2.5010E+03	1.5000E+00	1.2505E+03	7.5000E-01	A	D	FUEL CY
AIR,FRT.	PU238	55.0	7.3253E+04	4.0000E-01	1.3319E+03	7.2727E-03	B	D	FUEL CY
AIR,FRT.	U 235	169.0	1.9529E+01	2.0800E+01	1.1556E-01	1.2308E-01	A	D	FUEL CY
AIR,FRT.	U 235	12.1	3.6279E-02	6.0465E+00	3.0000E-03	5.0000E-01	A	NO	FUEL CY
AIR,FRT.	U 235	23.0	2.5633E+02	1.4000E+00	1.1145E+01	6.0870E-02	B	D	FUEL CY
AIR,FRT.	U 235	84.0	1.4552E+06	2.6760E+02	1.7324E+04	3.1857E+00	B	NO	FUEL CY
AIR,FRT.	U 238	2.0	7.0690E+03	1.5000E+00	3.5345E+03	7.5000E-01	A	D	FUEL CY
AIR,FRT.	U 238	4.0	2.3606E+04	4.0000E-01	7.4015E+03	1.0000E-01	LS	D	FUEL CY
AIR,FRT.	AM241	24.2	1.5267E-01	2.4186E-03	6.3125E-03	1.0000E-04	A	NO	INDUSTR
AIR,FRT.	CA 45	13.0	5.2000E-02	0.	4.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	CS137	12.1	2.1163E+00	1.2053E+02	1.7500E-01	1.0000E+01	A	D	INDUSTR
AIR,FRT.	H 3	1513.0	5.2113E+03	0.	3.4444E+00	0.	A	D	INDUSTR
AIR,FRT.	H 3	4.3	4.3333E-03	0.	1.0000E-03	0.	A	NO	INDUSTR
AIR,FRT.	IR192	74.8	7.3620E+03	7.4800E+01	9.8422E+01	1.0000E+00	A	NO	INDUSTR
AIR,FRT.	IR192	137.2	1.8922E+05	1.3920E+02	1.3792E+03	1.0146E+00	B	NO	INDUSTR
AIR,FRT.	PO210	2.0	2.0000E-02	2.0000E-01	1.0000E-02	1.0000E-01	A	D	INDUSTR
AIR,FRT.	PO210	52.0	2.6000E-02	0.	5.0000E-04	0.	E	D	INDUSTR
AIR,FRT.	S 35	229.7	9.7500E-01	0.	4.2453E-03	0.	A	D	INDUSTR
AIR,FRT.	S 35	2.0	2.0000E-02	2.0000E+00	1.0000E-02	1.0000E+00	A	NO	INDUSTR
AIR,FRT.	SE 75	312.0	7.2800E-03	0.	2.3333E-05	0.	A	D	INDUSTR
AIR,FRT.	CO 60	52.0	1.0400E-04	5.2000E+00	2.0000E-06	1.0000E-01	A	D	MED-IND
AIR,FRT.	CO 60	52.0	4.7788E+02	1.0400E+01	9.1900E+00	2.0000E-01	A	NO	MED-IND
AIR,FRT.	CR 51	377.0	8.3321E-01	5.3733E+01	2.2101E-03	1.4253E-01	A	D	MED-IND
AIR,FRT.	XE133	164.7	2.4553E+02	7.8000E+01	1.4911E+00	4.7368E-01	A	D	MED-IND
AIR,FRT.	AU198	64.1	3.4441E-01	4.4019E+01	5.3736E-03	6.8679E-01	A	D	MEDICAL
AIR,FRT.	C 14	1349.3	7.2088E+00	2.0000E-02	5.3425E-03	1.4822E-05	A	D	MEDICAL
AIR,FRT.	C 14	2.0	1.0000E-04	2.0000E-02	5.0000E-05	1.0000E-02	E	D	MEDICAL
AIR,FRT.	CL 35	52.0	5.2000E-03	0.	1.0000E-04	0.	A	D	MEDICAL
AIR,FRT.	CO 57	312.0	5.8136E-02	1.5600E+01	1.8633E-04	5.0000E-02	A	D	MEDICAL
AIR,FRT.	CO 57	2.0	1.4800E-02	2.0000E-01	7.4000E-03	1.0000E-01	A	NO	MEDICAL
AIR,FRT.	CU 64	12.1	4.4744E-01	1.2093E+00	3.7000E-02	1.0000E-01	A	D	MEDICAL
AIR,FRT.	GA 67	8.7	1.0400E-01	4.3333E+00	1.2000E-02	5.0000E-01	A	D	MEDICAL
AIR,FRT.	GD153	52.0	5.2000E-03	0.	1.0000E-04	0.	A	D	MEDICAL
AIR,FRT.	HG197	312.0	9.2040E-01	7.2800E+01	2.8500E-03	2.3333E-01	A	D	MEDICAL
AIR,FRT.	I 125	1689.5	4.8142E+00	5.4065E+01	2.8495E-03	3.2001E-02	A	D	MEDICAL
AIR,FRT.	I 131	1253.7	7.0647E+00	8.5574E+02	5.6349E-03	6.8255E-01	A	C	MEDICAL
AIR,FRT.	I 131	1300.0	2.6019E+00	6.5000E+02	2.0014E-03	5.0000E-01	A	NO	MEDICAL
AIR,FRT.	I 131	48.4	1.4379E+03	1.2335E+02	2.9725E+01	2.5500E+00	B	D	MEDICAL
AIR,FRT.	MO 99	60.5	4.3583E+01	1.0279E+02	2.080E-01	1.7000E+00	A	D	MEDICAL
AIR,FRT.	MO 99	2808.0	2.9153E+03	5.4122E+03	1.0382E+00	1.9278E+00	A	NO	MEDICAL
AIR,FRT.	NA 24	60.5	4.2326E-01	1.6205E+02	7.0000E-03	2.6800E+00	A	D	MEDICAL
AIR,FRT.	NI 63	12.1	4.3837E+00	1.2053E-03	3.6250E-01	1.0000E-04	A	NO	MEDICAL
AIR,FRT.	P 32	287.0	6.5803E+02	8.5933E+01	2.2928E+00	2.9942E-01	A	D	MEDICAL
AIR,FRT.	P 33	8.7	8.6667E-03	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,FRT.	RB 86	24.2	7.2558E-01	7.2558E+00	3.0000E-02	3.0000E-01	A	D	MEDICAL



TABLE A-139

CITY LAT = 4.1420000E+01 CITY LONG = 8.1590000E+01 RADIUS = 7.4100000E-01  
 \* \* \* \* \* CITY = CLEVELAND \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	TH232	2.0	5.6000E+00	0.	2.8000E+00	0.	E	ND	FUEL CY
AIR,PASS.	U 235	8.7	1.7333E-02	6.5000E-01	2.0000E-03	7.5000E-02	A	D	FUEL CY
AIR,PASS.	U 235	1.0	1.8000E+00	0.	1.8000E+00	0.	E	ND	FUEL CY
AIR,PASS.	CS137	1.0	1.3000E-03	2.0000E-02	1.3000E-03	2.0000E-02	A	D	INDUSTR
AIR,PASS.	FE 55	2.0	4.0000E-02	0.	2.0000E-02	0.	E	ND	INDUSTR
AIR,PASS.	H 3	130.0	6.1291E-02	0.	4.7147E-04	0.	A	D	INDUSTR
AIR,PASS.	S 35	8.7	4.7667E-02	0.	5.5000E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	104.0	1.1700E-01	3.1200E+01	1.1250E-03	3.0000E-01	A	D	INDUSTR
AIR,PASS.	CR 51	104.0	1.3065E+01	2.0800E+01	1.2563E-01	2.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	52.0	5.2000E-01	0.	1.0000E-02	0.	A	D	MED-IND
AIR,PASS.	AU198	52.0	1.6068E+00	5.7200E+01	3.0900E-02	1.1000E+00	A	D	MEDICAL
AIR,PASS.	C 14	16.4	4.9380E-03	0.	3.0061E-04	0.	A	D	MEDICAL
AIR,PASS.	CD109	1.0	1.7000E-03	2.0000E-02	1.7000E-03	2.0000E-02	A	D	MEDICAL
AIR,PASS.	CO 57	52.0	1.3104E-01	1.5600E+01	2.5200E-04	3.0000E-01	A	D	MEDICAL
AIR,PASS.	CO 58	1.0	2.0000E-05	5.0000E-02	2.0000E-05	5.0000E-02	A	ND	MEDICAL
AIR,PASS.	CO 58	4.0	4.0000E-06	1.4000E-01	1.0000E-06	3.5000E-02	E	D	MEDICAL
AIR,PASS.	CO 58	1.0	2.0000E-05	2.0000E-02	2.0000E-05	2.0000E-02	E	ND	MEDICAL
AIR,PASS.	GA 67	52.0	1.5600E-01	7.8000E+00	3.0000E-03	1.5000E-01	A	D	MEDICAL
AIR,PASS.	I 123	260.0	2.6000E-01	2.3400E+01	1.0000E-03	9.0000E-02	A	D	MEDICAL
AIR,PASS.	I 125	312.0	8.8577E-03	5.2000E+00	2.8390E-05	1.6667E-02	A	D	MEDICAL
AIR,PASS.	I 125	312.0	8.6320E-03	0.	2.7667E-05	0.	E	D	MEDICAL
AIR,PASS.	I 131	1508.0	2.7560E+01	1.2220E+03	1.8276E-02	8.1034E-01	A	D	MEDICAL
AIR,PASS.	I 131	104.0	2.6000E-02	3.6400E+01	2.5000E-04	3.5000E-01	A	ND	MEDICAL
AIR,PASS.	MO 99	676.0	5.5791E+02	1.3000E+03	8.2531E-01	1.9231E+00	A	ND	MEDICAL
AIR,PASS.	MO 99	52.0	5.2000E-04	2.0800E+01	1.0000E-05	4.0000E-01	E	D	MEDICAL
AIR,PASS.	P 32	52.0	2.6000E-01	1.5600E+01	5.0000E-03	3.0000E-01	A	D	MEDICAL
AIR,PASS.	TC 99M	260.0	2.6003E+00	6.2400E+01	1.0001E-02	2.4000E-01	A	D	MEDICAL



TABLE A-140

CITY LAT = 4.142000E+01 CITY LONG = 8.159000E+01 RADIUS = 7.410000E-01  
 CITY = CLEVELAND ACROSS

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS	MC	2.0	4.0000E-02	2.0000E-03	2.0000E-02	A	D	FUEL CY
AIR,PASS	PU238	1.0	5.0000E+00	0.0	5.0000E+00	B	ND	FUEL CY
AIR,PASS	U 233	9.0	1.7130E-01	0.0	1.933E-02	A	D	FUEL CY
AIR,PASS	U 235	143.3	1.6052E+04	1.0520E+02	1.1199E+02	A	D	FUEL CY
AIR,PASS	U 235	4.0	2.3228E-02	4.0000E-01	5.8070E-03	A	ND	FUEL CY
AIR,PASS	U 235	6.0	2.5200E+00	0.0	4.2000E-01	B	D	FUEL CY
AIR,PASS	U 235	2.0	5.9207E+00	0.0	2.9604E+00	E	D	FUEL CY
AIR,PASS	U 235	9.0	1.5781E+02	0.0	2.1379E+01	E	ND	FUEL CY
AIR,PASS	U 238	12.1	5.9256E+04	2.4186E+00	4.9000E+03	A	D	FUEL CY
AIR,PASS	AM241	2.0	2.0000E+00	0.0	1.0000E+00	A	ND	INDUSTR
AIR,PASS	CA 115	4.3	4.333E-04	0.0	1.0000E-04	A	D	INDUSTR
AIR,PASS	CF254	2.0	6.0000E-04	4.0000E-01	3.0000E-04	A	ND	INDUSTR
AIR,PASS	CS137	52.0	5.2000E-04	0.0	1.0000E-05	A	D	INDUSTR
AIR,PASS	CS137	12.0	2.0000E+00	4.0400E+01	1.6670E-01	A	ND	INDUSTR
AIR,PASS	H 3	1232.7	3.7618E+00	0.0	3.0517E-03	A	D	INDUSTR
AIR,PASS	H 3	4.3	4.333E-01	0.0	1.0000E-01	A	ND	INDUSTR
AIR,PASS	H 3	2.0	5.8200E-05	0.0	2.9100E-05	E	D	INDUSTR
AIR,PASS	MP237	2.0	2.6200E-02	1.0000E+00	1.3100E-02	A	D	INDUSTR
AIR,PASS	P0210	4.3	4.333E-03	0.0	1.0000E-03	A	D	INDUSTR
AIR,PASS	S 35	56.3	2.8167E-01	0.0	5.0000E-03	A	D	INDUSTR
AIR,PASS	SE 75	104.0	1.8200E-01	3.1200E+01	1.7500E-03	A	D	INDUSTR
AIR,PASS	CO 60	52.0	4.7580E+02	5.2000E+00	9.1500E+00	A	D	MED-IND
AIR,PASS	CO 60	52.0	1.0400E+01	1.0400E+01	2.0900E-01	A	ND	MED-IND
AIR,PASS	CR 51	442.0	6.6758E-01	7.0200E+01	1.5113E-03	A	D	MED-IND
AIR,PASS	XE133	26.0	1.3000E+01	0.0	5.0000E-01	A	D	MED-IND
AIR,PASS	AU198	364.0	2.2719E+01	1.3000E+03	6.2414E-02	A	D	MEDICAL
AIR,PASS	C 14	454.1	2.8322E-01	0.0	6.2370E-04	A	D	MEDICAL
AIR,PASS	C 14	2.0	2.0000E-03	0.0	1.0000E-03	E	D	MEDICAL
AIR,PASS	CO109	2.0	8.0000E-03	2.0000E-01	4.0000E-03	A	ND	MEDICAL
AIR,PASS	CO 57	624.0	1.9500E-03	5.7200E+01	3.1250E-06	A	D	MEDICAL
AIR,PASS	FE 52	10.0	2.1200E-01	2.8000E+01	2.1200E-02	A	D	MEDICAL
AIR,PASS	FE 59	104.0	1.3000E-02	2.0800E+01	1.2500E-04	A	D	MEDICAL
AIR,PASS	FE 59	104.0	1.0400E-03	0.0	1.0000E-05	E	D	MEDICAL
AIR,PASS	GA 67	169.0	2.7283E+01	1.6317E+02	1.6144E-01	A	D	MEDICAL
AIR,PASS	HG197	156.0	5.6680E-01	1.0400E+01	3.6333E-03	A	D	MEDICAL
AIR,PASS	HG197	52.0	3.2328E-01	1.5600E+01	6.2170E-03	A	ND	MEDICAL
AIR,PASS	HG203	52.0	5.2000E-02	1.5600E+01	1.0000E-03	A	D	MEDICAL
AIR,PASS	I 123	1156.0	3.3280E+00	1.8460E+02	2.7826E-03	A	D	MEDICAL
AIR,PASS	I 125	2562.6	1.2188E+02	7.1782E+01	4.7560E-02	A	D	MEDICAL
AIR,PASS	I 125	416.0	8.0600E-03	0.0	1.9375E-05	E	D	MEDICAL
AIR,PASS	I 131	1170.0	8.4515E+01	1.3348E+04	7.2235E-03	A	D	MEDICAL
AIR,PASS	I 131	240.0	1.1800E-01	2.4452E+03	5.0429E-03	A	ND	MEDICAL
AIR,PASS	IN111	52.0	1.0400E-01	5.2000E+00	2.0000E-03	A	D	MEDICAL
AIR,PASS	IN114M	12.1	6.0465E-02	2.4186E+00	5.0000E-03	A	D	MEDICAL
AIR,PASS	MO 99	740.1	4.4814E+02	7.9645E+02	6.0551E-01	A	D	MEDICAL
AIR,PASS	MO 99	4576.0	3.7950E+03	7.8000E+02	1.4316E+01	A	ND	MEDICAL
AIR,PASS	MO 99	364.0	5.2109E+04	4.8967E+01	2.3291E-02	B	D	MEDICAL
AIR,PASS	P 32	307.7	7.1658E+00	2.4186E+00	1.0000E-02	A	D	MEDICAL
AIR,PASS	RB 86	12.1	1.203E-01	2.4186E+00	1.0000E-02	A	D	MEDICAL
AIR,PASS	YC 99M	1044.3	5.2056E+01	2.6000E+02	4.9846E-02	A	D	MEDICAL
AIR,PASS	YL201	18.0	9.0800E-02	4.6000E+00	5.0444E-03	A	D	MEDICAL

TABLE A-141

CITY LAT = 4.1420000E+01 CITY LONG = 8.1590000E+01 RADIUS = 7.4100000E-01  
 \* \* \* \* \* CITY = CLEVELAND \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	U 235	2.0	3.5000E+01 *	0.	1.7500E+01 *	0.	A	NO	FUEL CY
SHIP	U 235	1.0	4.2600E-01 *	0.	4.2600E-01 *	0.	LS	D	FUEL CY

TABLE A-142

CITY LAT = 4.1420000E+01 CITY LONG = 8.1590000E+01 RADIUS = 7.4100000E-01  
 \* \* \* \* \* CITY = CLEVELAND \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	U 235	52.0	6.7600E-04 *	5.2000E+00	1.3000E-05 *	1.0000E-01	A	D	FUEL CY
TRUCK	U 235	2.0	5.7200E+02 *	3.8000E+00	2.8600E+02 *	1.9000E+00	B	D	FUEL CY
TRUCK	U 235	2.0	1.2300E+00 *	0.	6.1500E-01 *	0.	E	D	FUEL CY
TRUCK	U 235	8.0	8.9225E+00 *	0.	1.1153E+00 *	0.	LS	D	FUEL CY
TRUCK	U 238	2.0	1.7200E+04 *	1.0000E-01	8.6000E+03 *	5.0000E-02	LS	D	FUEL CY
TRUCK	AM241	2.0	2.0000E+00	0.	1.0000E+00	0.	A	NO	INDUSTR
TRUCK	CS137	3.0	5.0000E-01	1.0000E+01	1.6667E-01	3.3333E+00	A	NO	INDUSTR
TRUCK	IR192	10.4	2.0800E+02	1.0400E+01	2.0000E+01	1.0000E+00	A	NO	INDUSTR
TRUCK	IR192	20.8	1.3000E+03	2.0800E+01	6.2500E+01	1.0000E+00	B	NO	INDUSTR
TRUCK	S 35	52.0	2.6000E-02	0.	5.0000E-04	0.	A	D	INDUSTR
TRUCK	SE 75	156.0	3.3800E-01	5.7200E+01	2.1667E-03	3.6667E-01	A	D	INDUSTR
TRUCK	CO 60	74.0	2.6297E+05	9.5500E+01	3.5536E+03	1.2905E+00	B	NO	MED-IND
TRUCK	C 14	208.0	3.3800E-02	0.	1.6250E-04	0.	A	D	MEDICAL
TRUCK	CD109	2.0	8.0000E-02	1.0000E-01	4.0000E-02	5.0000E-02	A	D	MEDICAL
TRUCK	CO 57	780.0	5.2000E+00	8.3200E+01	6.6667E-03	1.0667E-01	A	D	MEDICAL
TRUCK	CO 57	104.0	5.2000E-03	0.	5.0000E-05	0.	A	NO	MEDICAL
TRUCK	CO 58	1.0	2.0000E-05	3.0000E-02	2.0000E-05	3.0000E-02	E	NO	MEDICAL
TRUCK	FE 59	52.0	2.6000E-02	3.1200E+01	5.0000E-04	6.0000E-01	A	D	MEDICAL
TRUCK	H6197	52.0	2.6000E-01	0.	5.0000E-03	0.	A	D	MEDICAL
TRUCK	I 125	312.0	6.8406E-01	5.2000E+00	2.1925E-03	1.6667E-02	A	D	MEDICAL
TRUCK	I 131	728.0	4.2416E+00	2.7040E+02	5.8264E-03	3.7143E-01	A	D	MEDICAL
TRUCK	MO 99	728.0	9.8800E+02	1.6652E+03	1.3571E+00	2.2929E+00	A	D	MEDICAL

TABLE A-143

CITY LAT = 4.142000E+01		CITY LONG = 8.1590000E+01		RADIUS = 7.410000E-01		ACROSS		
CITY = CLEVELAND		CITY = CLEVELAND		RADIUS = 7.410000E-01		ACROSS		
MAJOR TRANSPORT MODE	RADIOISOTOPE NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PHYSICAL FORM	END USE
TRUCK	MC	4.0	1.8000E-03	2.2000E+00	4.5000E-04	5.5000E-01	A	FUEL CY
TRUCK	MC	2729.5	9.8547E+02	0.	3.6104E-01	0.	LS	FUEL CY
TRUCK	MF	58.5	5.7618E-02	4.0444E+02	9.8492E-04	6.9135E+00	A	FUEL CY
TRUCK	MF	1142.0	3.0286E+03	1.6892E+04	2.6520E+01	1.4792E+01	A	FUEL CY
TRUCK	MF	1.0	7.6880E+01	3.2040E+01	7.6880E+01	3.2000E+00	ND	FUEL CY
TRUCK	MF	2.0	4.5000E+00	2.0000E+01	2.2500E+00	1.0000E+01	D	FUEL CY
TRUCK	MF	7668.8	2.4198E+02	2.0000E+00	3.1553E-02	2.6080E-04	LS	FUEL CY
TRUCK	MF	80.0	9.6000E-01	1.3600E+01	1.2000E-02	1.7000E+00	LS	FUEL CY
TRUCK	PU238	3.0	6.5200E+00	0.	2.1733E+00	0.	B	FUEL CY
TRUCK	PU239	1.0	6.5000E-04	0.	6.5000E-04	0.	A	FUEL CY
TRUCK	PU239	1.0	1.4900E+02	0.	1.4900E+02	0.	B	FUEL CY
TRUCK	SF	6.0	4.8000E+04	3.0000E+02	8.0000E+03	5.0000E+01	LG	FUEL CY
TRUCK	U 235	39.0	3.6249E+04	2.2900E+01	5.2946E+02	5.8718E-01	A	FUEL CY
TRUCK	U 235	6.0	1.7416E+03	1.0150E+01	2.9027E+02	1.6917E+00	B	FUEL CY
TRUCK	U 235	24.0	6.2312E+05	1.3030E+02	2.5963E+04	5.4292E+00	B	FUEL CY
TRUCK	U 235	13.0	3.0900E-01	0.	2.3769E-02	0.	E	FUEL CY
TRUCK	U 235	1563.3	1.5709E+02	0.	1.0049E-01	0.	LS	FUEL CY
TRUCK	U 235	5.0	2.0002E+01	0.	4.0004E+00	0.	LS	FUEL CY
TRUCK	U 238	193.5	1.0624E+07	2.4186E+01	5.4906E+04	1.2500E-01	A	FUEL CY
TRUCK	U 238	24.0	5.1252E+05	2.4000E+00	2.1355E+04	1.0000E-01	LS	FUEL CY
TRUCK	AM241	20.1	9.4512E+00	1.2053E-03	4.7037E-01	6.0185E-05	A	INDUST
TRUCK	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	E	INDUST
TRUCK	CS137	12.0	1.2000E-03	1.2000E-01	1.0000E-04	1.0000E-02	LS	INDUST
TRUCK	FE 55	2.0	2.7518E+02	1.6000E+00	1.3759E+02	8.0000E-01	B	INDUST
TRUCK	H 3	104.0	5.2000E-02	0.	5.0000E-04	0.	A	INDUST
TRUCK	IR192	4.0	4.3200E+01	7.6000E+00	1.0800E+01	1.5000E+00	A	INDUST
TRUCK	IR192	10.4	1.0400E+03	1.0400E+01	1.0000E+02	1.0000E+00	B	INDUST
TRUCK	KR 85	8.0	5.0000E+00	1.6000E+00	6.2500E-01	2.0000E-01	A	INDUST
TRUCK	RA226	2.0	1.0000E-01	1.4000E+01	5.0000E-02	7.0000E+00	A	INDUST
TRUCK	RA226	14.0	1.4000E-05	7.0000E-01	1.0000E-06	5.0000E-02	B	INDUST
TRUCK	S 35	1.0	4.0000E-03	0.	4.0000E-03	0.	A	INDUST
TRUCK	SE 75	260.0	1.8200E-01	4.6800E+01	7.0000E-04	1.8000E-01	A	INDUST
TRUCK	CO 60	4.0	2.1400E-03	4.0000E-01	5.3500E-04	1.0000E-01	A	MED-IND
TRUCK	CO 60	2.0	2.6400E-04	2.0000E-01	1.8209E-04	1.0000E-01	A	MED-IND
TRUCK	CO 60	2.0	2.2000E+01	2.0000E-01	1.1000E+01	1.0000E-01	B	MED-IND
TRUCK	CO 60	12.0	4.0800E-04	4.4000E-01	3.4000E-05	3.6667E-02	E	MED-IND
TRUCK	CO 60	41.0	6.5132E+00	2.0000E-02	1.5886E-01	4.8780E-04	LS	MED-IND
TRUCK	CR 51	52.0	1.3000E-02	5.2000E+00	2.5000E-04	1.0000E-01	A	MED-IND
TRUCK	C 14	105.0	5.7450E-02	0.	5.4714E-04	0.	A	MEDICAL
TRUCK	CO109	2.0	4.0000E-03	0.	2.0000E-03	0.	E	MEDICAL
TRUCK	CO 57	208.0	1.3000E-02	0.	6.2500E-05	0.	A	MEDICAL
TRUCK	CO 57	52.0	2.6000E-01	0.	5.0000E-03	0.	E	MEDICAL
TRUCK	CO 57	6.0	6.0000E-03	6.0000E-02	1.0000E-03	1.0000E-02	LS	MEDICAL
TRUCK	HG197	52.0	5.2000E-02	0.	1.0000E-03	0.	A	MEDICAL
TRUCK	I 125	52.0	1.0400E-04	0.	2.0000E-06	0.	A	MEDICAL
TRUCK	I 125	312.0	7.2280E-03	0.	2.3167E-05	0.	E	MEDICAL
TRUCK	I 131	728.0	1.8668E+00	2.3400E+02	2.5643E-03	3.2143E-01	A	MEDICAL
TRUCK	MO 59	780.0	5.3040E+02	9.5680E+02	6.8000E-01	1.2267E+00	A	MEDICAL
TRUCK	MO 99	52.0	2.9380E+01	1.1440E+02	5.6500E-01	2.2000E+00	A	MEDICAL
TRUCK	NI 63	10.0	1.8980E-04	0.	1.8980E-05	0.	A	MEDICAL
TRUCK	TC 99M	468.0	4.7216E+01	1.2420E+02	1.0089E-01	2.6667E-01	A	MEDICAL
TRUCK	W	24.0	4.8000E-02	7.2000E+00	2.0000E-03	3.0000E-01	A	WASTE

TABLE A-144

CITY LAT = 3.3880000E+01 CITY LONG = 8.4140000E+01 RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = ATLANTA TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	CO 57	2.0	3.0000E+00	2.0000E+00	1.5000E+00	1.0000E+00	A	D	MEDICAL

TABLE A-145

CITY LAT = 3.3880000E+01 CITY LONG = 8.4140000E+01 RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = ATLANTA TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	H 3	104.0	2.8093E+01	0.	2.7013E-01	0.	A	D	INDUSTR
AIR,FRT.	IR192	10.4	2.0800E+02	1.0400E+01	2.0000E+01	1.0000E+00	A	ND	INDUSTR
AIR,FRT.	IR192	28.2	3.0242E+03	9.2651E+01	1.0729E+02	3.2871E+00	B	ND	INDUSTR
AIR,FRT.	CO 60	10.4	1.5600E-01	1.0400E+01	1.5000E-02	1.0000E+00	A	ND	MED-IND
AIR,FRT.	CR 51	4.3	2.1667E-02	4.3333E-01	5.0000E-03	1.0000E-01	A	D	MED-IND
AIR,FRT.	C 14	156.0	7.8000E-03	0.	5.0000E-05	0.	A	D	MEDICAL
AIR,FRT.	CO 57	52.0	3.1200E-04	5.2000E+00	6.0000E-06	1.0000E-01	A	ND	MEDICAL
AIR,FRT.	I 125	4.3	8.6667E-05	0.	2.0000E-05	0.	A	D	MEDICAL
AIR,FRT.	I 131	260.0	8.0366E-01	3.2240E+02	3.0910E-03	1.2400E+00	A	D	MEDICAL
AIR,FRT.	I 131	156.0	2.3956E-01	6.2400E+01	1.5357E-03	4.0000E-01	A	ND	MEDICAL
AIR,FRT.	K 42	12.1	4.8372E-02	2.4186E+00	4.0000E-03	2.0000E-01	A	D	MEDICAL
AIR,FRT.	MO 99	34.7	2.5653E+01	0.	7.4000E-01	0.	A	D	MEDICAL
AIR,FRT.	MO 99	364.0	3.6696E+02	5.3566E+02	1.0081E+00	1.4714E+00	A	ND	MEDICAL

TABLE A-146

CITY LAT = 3.3880000E+01 CITY LONG = 8.4140000E+01 RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = ATLANTA ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	PU238	2.0	1.0220E+02	1.1000E+00	5.1100E+01	5.5000E-01	B	ND	FUEL CY
AIR,FRT.	U 235	156.0	3.4411E-01	5.2000E+01	2.2058E-03	3.3333E-01	A	D	FUEL CY
AIR,FRT.	U 238	12.1	3.5989E+04	0.	2.9760E+03	0.	A	ND	FUEL CY
AIR,FRT.	H 3	52.0	9.3600E-04	0.	1.8000E-05	0.	A	D	INDUSTR
AIR,FRT.	IR192	54.4	2.0510E+03	4.3600E+01	3.7702E+01	8.0147E-01	A	ND	INDUSTR
AIR,FRT.	IR192	289.9	2.7171E+04	8.1367E+02	9.3738E+01	2.8071E+00	B	ND	INDUSTR
AIR,FRT.	SE 75	104.0	1.3000E-03	0.	1.2500E-05	0.	A	D	INDUSTR
AIR,FRT.	C 14	52.0	1.3000E-02	0.	2.5000E-04	0.	A	D	MEDICAL
AIR,FRT.	CO 57	52.0	3.1200E-04	1.0400E+01	6.0000E-06	2.0000E-01	A	ND	MEDICAL
AIR,FRT.	CO 57	52.0	4.6800E-04	0.	9.0000E-06	0.	E	ND	MEDICAL
AIR,FRT.	I 125	180.2	1.8267E+00	1.5237E+01	1.0138E-02	8.4564E-02	A	D	MEDICAL
AIR,FRT.	I 131	64.1	8.4700E-01	6.9777E+01	1.3215E-02	1.0887E-00	A	D	MEDICAL
AIR,FRT.	I 131	260.0	7.0398E-01	1.6120E+02	2.7076E-03	6.2000E-01	A	ND	MEDICAL
AIR,FRT.	MO 99	832.0	5.4304E+02	1.2532E+03	6.5269E-01	1.5063E+00	A	ND	MEDICAL
AIR,FRT.	P 32	156.0	3.9780E-01	3.1200E+01	2.5500E-03	2.0000E-01	A	D	MEDICAL

TABLE A-147

CITY LAT = 3.3880000E+01      CITY LONG = 8.4140000E+01      RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = ATLANTA      TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	U 235	4.3	6.5000E-02	0.	1.5000E-02	0.	A	D	FUEL CY
AIR,PASS.	U 235	12.1	7.2558E-05	0.	6.0000E-06	0.	E	D	FUEL CY
AIR,PASS.	U 238	12.1	1.3544E+06	2.4186E+00	1.1200E+05	2.0000E-01	A	D	FUEL CY
AIR,PASS.	H 3	8.7	8.6667E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	156.0	5.2000E-02	4.6800E+01	3.3333E-04	3.0000E-01	A	D	INDUSTR
AIR,PASS.	SE 75	12.1	7.2558E-06	0.	6.0000E-07	0.	E	D	INDUSTR
AIR,PASS.	CR 51	60.7	7.0200E-02	6.0667E+00	1.1571E-03	1.0000E-01	A	D	MED-IND
AIR,PASS.	C 14	72.8	3.9806E-02	1.2093E+01	5.4709E-04	1.6620E-01	A	D	MEDICAL
AIR,PASS.	CO 57	104.0	4.6800E-04	0.	4.5000E-06	0.	E	D	MEDICAL
AIR,PASS.	GA 67	156.0	2.3400E+00	5.2000E+01	1.5000E-02	3.3333E-01	A	D	MEDICAL
AIR,PASS.	I 125	216.7	1.6680E-01	1.1267E+01	7.6986E-04	5.2000E-02	A	D	MEDICAL
AIR,PASS.	I 125	52.0	2.6000E-04	0.	5.0000E-06	0.	E	D	MEDICAL
AIR,PASS.	I 131	524.3	2.8045E+00	2.0367E+02	5.3488E-03	3.8843E-01	A	D	MEDICAL
AIR,PASS.	I 131	104.0	1.3520E-01	3.1200E+01	1.3000E-03	3.0000E-01	A	ND	MEDICAL
AIR,PASS.	IN111	104.0	7.8000E-01	0.	7.5000E-03	0.	A	D	MEDICAL
AIR,PASS.	MG 28	2.0	2.5000E-04	2.0000E+00	1.2500E-04	1.0000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	104.0	4.4044E+01	1.7680E+02	4.2350E-01	1.7000E+00	A	ND	MEDICAL
AIR,PASS.	P 32	8.7	2.3833E-01	8.6667E-01	2.7500E-02	1.0000E-01	A	D	MEDICAL
AIR,PASS.	TC 99M	104.0	1.6120E+01	2.3400E+01	1.5500E-01	2.2500E-01	A	D	MEDICAL



TABLE A-14R

CITY LAT = 3.3880000E+01 CITY LONG = 8.4140000E+01 RADIUS = 9.1600000E-01  
 CITY LONG = 8.4140000E+01 CITY = ATLANTA ACROSS

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS	U 235	8.7	2.1667E-02	4.3333E-01	2.5000E-03	5.0000E-02	A	D	FUEL CY
AIR,PASS	U 235	2.0	2.5300E+00	0.	1.2650E+00	0.	E	D	FUEL CY
AIR,PASS	U 238	1.0	1.0000E-06	0.	1.0000E-06	0.	F	D	FUEL CY
AIR,PASS	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	E	ND	INDUSTR
AIR,PASS	FE 55	2.0	4.0000E-02	0.	2.0000E-02	0.	E	ND	INDUSTR
AIR,PASS	H 3	108.3	1.6033E-01	0.	1.4800E-03	0.	A	D	INDUSTR
AIR,PASS	IR192	20.0	2.5040E+02	3.4600E+01	1.2520E+01	1.7300E+00	A	ND	INDUSTR
AIR,PASS	SE 75	52.0	5.2000E-02	5.2000E+00	1.0000E-03	1.0000E-01	A	D	INDUSTR
AIR,PASS	CO 60	52.0	2.6000E-04	1.0400E+01	5.0000E-06	2.0000E-01	A	D	MED-IND
AIR,PASS	CR 51	108.3	5.0267E-02	1.0833E+01	4.6400E-04	1.0000E-01	A	D	MED-IND
AIR,PASS	C 14	20.8	2.0760E-02	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS	CO 57	52.0	2.0800E-04	5.2000E+00	4.0000E-06	1.0000E-01	A	D	MEDICAL
AIR,PASS	FE 59	52.0	6.5000E-03	0.	1.2500E-04	0.	E	D	MEDICAL
AIR,PASS	MG197	52.0	3.1200E-01	1.5600E+01	6.0000E-03	3.0000E-01	A	D	MEDICAL
AIR,PASS	I 125	472.3	5.0357E-01	3.1200E+01	1.0661E-03	6.6055E-02	A	D	MEDICAL
AIR,PASS	I 125	208.0	1.1700E-03	0.	5.6250E-06	0.	E	D	MEDICAL
AIR,PASS	I 131	1404.0	1.2938E+01	1.0608E+03	9.2154E-03	7.5554E-01	A	D	MEDICAL
AIR,PASS	I 131	884.0	2.3368E+00	6.2400E+02	2.6434E-03	7.0588E-01	A	ND	MEDICAL
AIR,PASS	MN 54	52.0	5.2000E-03	1.0400E+01	1.0000E-04	2.0000E-01	A	D	MEDICAL
AIR,PASS	MO 99	52.0	2.6000E+01	2.6000E+01	5.0000E-01	5.0000E-01	A	D	MEDICAL
AIR,PASS	MO 99	1716.0	1.4827E+03	3.0628E+03	8.6403E-01	1.7848E+00	A	ND	MEDICAL
AIR,PASS	P 32	52.0	5.9280E-01	2.0800E+01	1.1700E-02	4.0000E-01	A	D	MEDICAL
AIR,PASS	TC 99M	52.0	1.0400E+00	0.	2.0000E-02	0.	A	D	MEDICAL

TABLE A-149

CITY LAT = 3.3880000E+01 CITY LONG = 8.4140000E+01 RADIUS = 9.1600000E-01  
 CITY LONG = 8.4140000E+01 CITY = ATLANTA ACROSS

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
RAIL	U 235	3.0	9.3839E+04	2.5000E+00	3.1280E+04	8.3333E-01	B	D	FUEL CY



TABLE A-150

CITY LAT = 3.3880000E+01      CITY LONG = 8.4140000E+01      RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = ATLANTA      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
SHIP	U 235	7274.0	4.4756E+06 *	1.8185E+03	6.1529E+02 *	2.5000E-01	B	D	FUEL CY
SHIP	U 238	617.0	8.5481E+06 *	1.5425E+02	1.3854E+04 *	2.5000E-01	B	D	FUEL CY

TABLE A-151

CITY LAT = 3.3880000E+01      CITY LONG = 8.4140000E+01      RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = ATLANTA      TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MF	1608.4	1.9650E+03 *	8.5458E+03	1.2218E+00 *	5.3158E+00	LS	D	FUEL CY
TRUCK	U 235	3.0	3.6800E+01 *	0.	1.2267E+01 *	0.	E	D	FUEL CY
TRUCK	U 235	1.0	1.4000E+02 *	1.0000E-02	1.4000E+02 *	1.0000E-02	LS	ND	FUEL CY
TRUCK	U 238	278.1	3.4925E+06 *	9.6744E+00	1.2557E+04 *	3.4783E-02	A	D	FUEL CY
TRUCK	KR 85	36.1	6.1425E+02	2.7814E+01	1.7019E+01	7.7062E-01	A	D	INDUSTR
TRUCK	SE 75	52.0	1.3000E-02	1.5600E+01	2.5000E-04	3.0000E-01	A	D	INDUSTR
TRUCK	GA 67	156.0	4.0560E-01	4.1600E+01	2.6000E-03	2.6667E-01	A	D	MEDICAL
TRUCK	I 131	260.0	6.9160E-01	6.2400E+01	2.6600E-03	2.4000E-01	A	D	MEDICAL
TRUCK	IN111	104.0	1.5600E-01	0.	1.5000E-03	0.	A	D	MEDICAL
TRUCK	MO 99	208.0	1.1440E+02	1.9760E+02	5.5000E-01	9.5000E-01	A	D	MEDICAL
TRUCK	P 32	104.0	1.3000E+00	3.1200E+01	1.2500E-02	3.0000E-01	A	D	MEDICAL
TRUCK	W	766.6	2.1822E+02 *	1.8623E+02	2.8466E-01 *	2.4293E-01	LS	D	WASTE

TABLE A-152

CITY LAT = 3.388000E+01 CITY LONG = 8.414000E+01 RADIUS = 9.160000E-01  
 \* \* \* \* \* CITY = ATLANTA ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	106.0	3.1700E-02	0.	2.9906E-04	0.	E	D	FUEL CY
TRUCK	MF	226.0	1.0038E+00	0.	4.4416E-03	0.	A	ND	FUEL CY
TRUCK	MF	102.0	1.4408E-02	0.	1.4125E-04	0.	LS	ND	FUEL CY
TRUCK	PU238	50.0	9.9841E+03	2.5000E-01	1.9788E+02	5.0000E-03	B	D	FUEL CY
TRUCK	PU238	1.0	8.0000E-01	1.0000E+00	8.0000E-01	1.0000E+00	B	ND	FUEL CY
TRUCK	PU238	1.0	2.0000E+05	2.0000E+00	2.0000E+05	2.0000E+00	E	ND	FUEL CY
TRUCK	PU239	1.0	2.2800E+02	2.0000E+00	2.2800E+02	2.0000E+00	B	D	FUEL CY
TRUCK	PU242	2.0	3.6600E+02	6.0000E+00	1.8300E+02	3.0000E+00	B	D	FUEL CY
TRUCK	TM232	8.0	2.7039E+05	4.0000E-01	3.3799E+04	5.0000E-02	B	ND	FUEL CY
TRUCK	U 235	188.0	9.2125E+03	0.	4.9003E+01	0.	A	D	FUEL CY
TRUCK	U 235	1.0	7.5300E+02	1.0000E-01	7.5300E+02	1.0000E-01	A	ND	FUEL CY
TRUCK	U 235	1649.0	3.2955E+06	4.1142E+02	1.9985E+03	2.4951E-01	B	D	FUEL CY
TRUCK	U 235	16.0	6.7865E+05	0.	4.2378E+04	0.	B	ND	FUEL CY
TRUCK	U 235	2431.6	2.1969E+04	9.6944E+01	9.0347E+00	3.9868E-02	E	D	FUEL CY
TRUCK	U 235	1.0	5.3000E+01	0.	5.3000E+01	0.	LS	ND	FUEL CY
TRUCK	U 238	60.5	2.5194E+06	1.8140E+01	4.1667E+04	3.0000E-01	A	ND	FUEL CY
TRUCK	U 238	69.0	1.0625E+07	2.8000E+01	1.5399E+05	4.0580E-01	B	D	FUEL CY
TRUCK	U 238	12.1	1.7996E+06	2.4186E+00	1.4881E+05	2.0000E-01	LS	ND	FUEL CY
TRUCK	CF252	2.0	1.2000E+01	7.6000E+00	6.0000E+00	3.8000E+00	B	ND	INDUSTR
TRUCK	CS137	3.0	1.5000E+00	0.	5.0000E-01	0.	A	ND	INDUSTR
TRUCK	IR192	18.0	3.2280E+02	2.2200E+01	1.7933E+01	1.2333E+00	A	ND	INDUSTR
TRUCK	IR192	2.0	2.0400E+02	0.	1.0200E+02	0.	B	ND	INDUSTR
TRUCK	SE 75	52.0	5.2000E-02	1.5600E+01	1.0000E-03	3.0000E-01	A	D	INDUSTR
TRUCK	CO 60	2.0	1.2400E+02	2.0000E+00	6.2000E+01	1.0000E+00	A	ND	MED-IND
TRUCK	CO 60	2.0	8.8600E+03	1.0000E+00	4.4300E+03	5.0000E-01	B	ND	MED-IND
TRUCK	H6197	104.0	2.6000E-01	2.6000E+01	2.5000E-03	2.5000E-01	A	D	MEDICAL
TRUCK	I 131	520.0	8.3850E-01	2.3400E+02	1.6125E-03	4.5000E-01	A	D	MEDICAL
TRUCK	MO 99	884.0	6.7860E+02	1.4768E+03	7.6765E-01	1.6706E+00	A	D	MEDICAL
TRUCK	W	26.0	2.6000E-02	0.	1.0000E-03	0.	E	D	WASTE
TRUCK	W	2.0	8.9920E+02	2.0000E-01	4.4960E+02	1.0000E-01	LQ	D	WASTE
TRUCK	W	906.0	2.4971E+03	5.1830E+02	2.7562E+00	5.7208E-01	LS	D	WASTE

TABLE A-153

CITY LAT = 3.3660000E+01 CITY LONG = 1.1779000E+02 RADIUS = 3.8200000E-01  
 \* \* \* \* \* CITY = ANAHEIM \* \* \* \* \* TO OR FRC \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MC	70.0	3.4370E-02	3.5000E+01	4.9100E-04	5.0000E-01	A	NO	FUEL CY
AUTOMOBILE	CS137	12.1	1.4512E-02	1.2093E+01	1.2000E-03	1.0000E+00	A	D	INDUSTR
AUTOMOBILE	KR 85	12.1	4.8372E-01	1.2093E+00	4.0000E-02	1.0000E-C1	A	D	INDUSTR

TABLE A-154

CITY LAT = 3.3660000E+01 CITY LONG = 1.1779000E+02 RADIUS = 3.8200000E-01  
 \* \* \* \* \* CITY = ANAHEIM \* \* \* \* \* ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MC	2.0	4.0000E-05	1.0000E-01	2.0000E-05	5.0000E-02	A	NO	FUEL CY
AUTOMOBILE	MC	2.0	6.0000E-05	0.	3.0000E-05	0.	E	NO	FUEL CY

TABLE A-155

CITY LAT = 3.3660000E+01 CITY LONG = 1.1779000E+02 RADIUS = 3.8200000E-01  
 \* \* \* \* \* CITY = ANAHEIM TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	U 235	52.0	2.8080E-03	1.0400E+01	5.4000E-05	2.0000E-01	A	D	FUEL CY
AIR,FRT.	AM241	106.0	2.0974E-01	2.0000E-01	1.9787E-03	1.8868E-03	A	D	INDUSTR
AIR,FRT.	H 3	13.0	7.8000E-02	0.	6.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	IR192	12.1	1.2335E+03	3.6279E+01	1.0200E+02	3.0000E+00	B	ND	INDUSTR
AIR,FRT.	CM244	2.0	2.0000E-06	0.	1.0000E-06	0.	E	ND	MED-IND
AIR,FRT.	XE133	104.0	1.8200E+02	5.2000E+01	1.7500E+00	5.0000E-01	A	D	MED-IND
AIR,FRT.	HG197	52.0	4.8360E-01	5.2000E+00	9.3000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	64.1	1.8321E-01	6.4093E+00	2.8585E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 131	244.3	3.4151E+01	2.4053E+02	1.3980E-01	9.8465E-01	A	D	MEDICAL
AIR,FRT.	I 131	260.0	1.4612E+00	1.7600E+02	5.6200E-03	6.8000E-01	A	ND	MEDICAL
AIR,FRT.	MO 99	52.0	1.4664E+01	6.2400E+01	2.8200E-01	1.2000E+00	A	ND	MEDICAL
AIR,FRT.	MO 99	52.0	2.4440E+03	5.2000E+01	4.7000E+01	1.0000E+00	B	D	MEDICAL
AIR,FRT.	P 32	52.0	5.2000E-01	5.2000E+00	1.0000E-02	1.0000E-01	A	D	MEDICAL
AIR,FRT.	KU106	12.1	2.4186E-01	8.4651E+00	2.0000E-02	7.0000E-01	A	D	MEDICAL
AIR,FRT.	TA182	12.1	2.4186E-02	8.4651E+00	2.0000E-03	7.0000E-01	A	ND	MEDICAL

TABLE A-156

CITY LAT = 3.3660000E+01 CITY LONG = 1.1779000E+02 RADIUS = 3.8200000E-01  
 \* \* \* \* \* CITY = ANAHEIM ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MC	2.0	2.0000E-05	0.	1.0000E-05	0.	E	ND	FUEL CY
AIR,FRT.	MF	10.0	1.0000E-02	1.0000E+00	1.0000E-03	1.0000E-01	A	D	FUEL CY
AIR,FRT.	MF	2.0	2.0000E-06	0.	1.0000E-06	0.	A	ND	FUEL CY
AIR,FRT.	TH232	10.0	1.2000E+04	0.	1.2000E+03	0.	A	ND	FUEL CY
AIR,FRT.	U 235	47.0	5.4700E+03	1.0118E+02	1.1638E+02	2.1528E+00	A	ND	FUEL CY
AIR,FRT.	U 235	6.0	9.8000E-01	0.	1.6333E-01	0.	E	ND	FUEL CY
AIR,FRT.	CF252	2.0	8.0000E-02	5.6000E+00	4.0000E-02	2.8000E+00	A	ND	INDUSTR
AIR,FRT.	H 3	251.3	4.8668E+01	0.	1.9364E-01	0.	A	D	INDUSTR
AIR,FRT.	IR192	12.1	1.2698E+03	3.6279E+01	1.0500E+02	3.0000E+00	B	ND	INDUSTR
AIR,FRT.	KR 85	12.1	2.4186E+02	3.9907E+01	2.0000E+01	3.3000E+00	A	D	INDUSTR
AIR,FRT.	S 35	4.3	8.6667E-03	0.	2.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	CO 60	2.0	2.0000E-05	2.0000E-01	1.0000E-05	1.0000E-01	A	D	MED-IND
AIR,FRT.	CR 51	260.0	7.4360E-01	2.6000E+01	2.8600E-03	1.0000E-01	A	D	MED-IND
AIR,FRT.	XE133	256.4	3.8117E+02	1.1720E+02	1.4868E+00	4.5755E-01	A	D	MED-IND
AIR,FRT.	C 14	119.0	2.1200E-02	2.0000E-02	1.7815E-04	1.6807E-04	A	D	MEDICAL
AIR,FRT.	I 125	157.5	1.2023E+00	4.8372E+00	6.0870E-03	2.4450E-02	A	D	MEDICAL
AIR,FRT.	I 131	441.6	2.5370E+01	6.8112E+02	5.7451E-02	1.5424E+00	A	D	MEDICAL
AIR,FRT.	I 131	312.0	2.9900E+00	6.3960E+02	9.5833E-03	2.0500E+00	A	ND	MEDICAL
AIR,FRT.	X 42	12.1	2.2977E-01	1.2053E+01	1.9000E-02	1.0000E+00	A	D	MEDICAL
AIR,FRT.	MO 99	21.7	1.1700E+01	0.	5.4000E-01	0.	A	D	MEDICAL
AIR,FRT.	MO 99	260.0	2.0561E+02	5.8760E+02	7.9080E-01	2.2600E+00	A	ND	MEDICAL
AIR,FRT.	MO 99	48.4	5.4189E+03	3.2409E+02	1.1203E+02	6.7000E+00	B	D	MEDICAL
AIR,FRT.	MO 99	12.1	3.6279E-02	1.6620E+01	3.0000E-03	1.4000E-01	A	D	MEDICAL
AIR,FRT.	PM147	2.0	2.9400E+01	4.0000E-01	1.9700E+01	2.0000E-01	A	D	MEDICAL

TABLE A-157

CITY LAT = 3.3660000E+01      CITY LONG = 1.1779000E+02      RADIUS = 3.8200000E-01  
 \* \* \* \* \* CITY = ANAHEIM      TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	U 235	1.0	5.0000E+00	0.	5.0000E+00	0.	A	ND	FUEL CY
AIR,PASS.	AM241	4.0	4.0000E-03	2.0000E-01	1.0000E-03	5.0000E-02	A	ND	INDUSTR
AIR,PASS.	AM241	12.1	1.4512E-04	0.	1.2000E-05	0.	E	D	INDUSTR
AIR,PASS.	H 3	117.0	3.2933E-01	0.	2.8148E-03	0.	A	D	INDUSTR
AIR,PASS.	H 3	8.0	1.4000E-02	0.	1.7500E-03	0.	E	D	INDUSTR
AIR,PASS.	IR192	2.0	3.5000E-01	0.	1.7500E-01	0.	B	ND	INDUSTR
AIR,PASS.	KR 85	12.1	3.6279E-05	0.	3.0000E-06	0.	E	D	INDUSTR
AIR,PASS.	SE 75	468.0	4.5500E-01	1.4040E+02	9.7222E-04	3.0000E-01	A	D	INDUSTR
AIR,PASS.	C 14	6.3	6.3333E-03	0.	1.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	C 14	6.0	1.6000E-02	0.	2.6667E-03	0.	E	D	MEDICAL
AIR,PASS.	CO 57	52.0	1.0400E-05	0.	2.0000E-07	0.	A	D	MEDICAL
AIR,PASS.	CO 57	12.1	3.6279E-05	0.	3.0000E-06	0.	E	D	MEDICAL
AIR,PASS.	I 125	212.3	5.6918E-01	1.5600E+01	2.6806E-03	7.3469E-02	A	D	MEDICAL
AIR,PASS.	I 125	2.0	1.0000E-02	2.0000E-02	5.0000E-03	1.0000E-02	LS	D	MEDICAL
AIR,PASS.	I 131	2028.0	4.5672E+00	7.1240E+02	2.2521E-03	3.5128E-01	A	D	MEDICAL
AIR,PASS.	I 131	208.0	6.9680E-01	2.0280E+02	3.3500E-03	9.7500E-01	A	ND	MEDICAL
AIR,PASS.	MO 99	52.0	1.0400E+02	1.5080E+02	2.0000E+00	2.9000E 00	A	D	MEDICAL
AIR,PASS.	P 32	2.0	6.0000E-02	2.0000E-02	3.0000E-02	1.0000E-02	LS	D	MEDICAL

TABLE A-158

CITY LAT = 3.3660000E+01 CITY LONG = 1.1779000E+02 RADIUS = 3.8200000E-01  
 \* \* \* \* \* CITY = ANAHEIM ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MC	8.0	3.0000E-01	1.4000E+01	3.7500E-02	1.7500E+00	A	ND	FUEL CY
AIR,PASS.	MF	10.0	1.0000E-02	5.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,PASS.	U 235	9.0	4.0242E+00	6.0000E-01	4.4713E-01	6.6667E-02	A	ND	FUEL CY
AIR,PASS.	U 235	4.0	9.4000E+00	0.	2.3500E+00	0.	E	ND	FUEL CY
AIR,PASS.	H 3	182.0	4.3837E+01	0.	2.4086E-01	0.	A	D	INDUSTR
AIR,PASS.	S 35	4.3	4.3333E-02	0.	1.0000E-02	0.	A	D	INDUSTR
AIR,PASS.	SE 75	624.0	2.4700E-01	2.0280E+02	3.9583E-04	3.2500E-01	A	D	INDUSTR
AIR,PASS.	CR 51	164.7	1.8200E-01	1.6467E+01	1.1053E-03	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	277.3	5.4687E+01	0.	1.9719E-01	0.	A	D	MED-IND
AIR,PASS.	AU198	52.0	1.0400E-01	5.2000E+01	2.0000E-03	1.0000E+00	A	D	MEDICAL
AIR,PASS.	C 14	56.3	6.9333E-03	0.	1.2308E-04	0.	A	D	MEDICAL
AIR,PASS.	CO 57	116.1	6.5786E-01	2.6000E+01	5.6667E-03	2.2396E-01	A	D	MEDICAL
AIR,PASS.	GA 67	69.3	1.0920E+01	5.2000E+00	1.5750E-01	7.5000E-02	A	D	MEDICAL
AIR,PASS.	H6197	52.0	2.6000E-02	2.6000E+01	5.0000E-04	5.0000E-01	A	D	MEDICAL
AIR,PASS.	HG203	156.0	6.2400E-01	0.	4.0000E-03	0.	A	D	MEDICAL
AIR,PASS.	I 123	2.0	1.6000E-01	1.0000E+00	8.0000E-02	5.0000E-01	A	D	MEDICAL
AIR,PASS.	I 125	325.0	1.9895E-01	2.0800E+01	6.1215E-04	6.4000E-02	A	D	MEDICAL
AIR,PASS.	I 125	52.0	5.2000E-04	0.	1.0000E-05	0.	E	D	MEDICAL
AIR,PASS.	I 131	3952.0	5.1539E+01	2.8652E+03	1.3041E-02	7.2500E-01	A	D	MEDICAL
AIR,PASS.	I 131	104.0	1.6640E-01	4.6800E+01	1.6000E-03	4.5000E-01	A	ND	MEDICAL
AIR,PASS.	IN111	52.0	5.2000E-01	0.	1.0000E-02	0.	A	D	MEDICAL
AIR,PASS.	MG 28	10.0	2.4500E-03	1.0000E+01	2.4500E-04	1.0000E+00	A	D	MEDICAL
AIR,PASS.	MO 99	416.0	5.7200E+02	8.7880E+02	1.3750E+00	2.1125E+00	A	D	MEDICAL
AIR,PASS.	MO 99	104.0	1.7612E+02	2.1320E+02	1.6935E+00	2.0500E+00	A	ND	MEDICAL
AIR,PASS.	MO 99	52.0	2.0800E+01	2.0800E+02	4.0000E-01	4.0000E+00	B	D	MEDICAL
AIR,PASS.	P 32	104.0	1.8200E+00	2.6000E+01	1.7500E-02	2.5000E-01	A	D	MEDICAL
AIR,PASS.	TC 99M	104.0	7.8000E+00	5.2000E+00	7.5000E-02	5.0000E-02	A	D	MEDICAL



TABLE A-159

CITY LAT = 3.3660000E+01 CITY LONG = 1.1779000E+02 RADIUS = 3.8200000E-01  
 \* \* \* \* \* CITY = ANAHI \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	U 235	24.2	3.6884E-04 *	4.8372E+00	1.5250E-05 *	2.0000E-01	A	D	FUEL CY
TRUCK	U 235	2.0	2.6260E+03 *	3.0000E+00	1.3130E+03 *	1.5000E+00	A	ND	FUEL CY
TRUCK	AM241	2.0	2.0000E-02	0.	1.0000E-02	0.	A	ND	INDUSTR
TRUCK	H 3	72.6	4.7163E+03	0.	6.5000E+01	0.	E	D	INDUSTR
TRUCK	IR192	12.1	1.4512E+03	2.6000E+01	1.2000E+02	2.1500E+00	B	ND	INDUSTR
TRUCK	PO210	156.0	1.9240E-01	0.	1.2333E-02	0.	E	D	INDUSTR
TRUCK	CO 60	12.1	5.6837E+00	9.6744E+00	4.7000E-01	8.0000E-01	A	ND	MED-IND
TRUCK	CR 51	12.1	1.2093E-02	2.6605E+02	1.0000E-03	2.2000E+01	A	D	MED-IND
TRUCK	CR 51	2.0	4.0000E-03	2.0000E-02	2.0000E-03	1.0000E-02	LS	D	MED-IND
TRUCK	XE133	208.0	2.0800E+00	5.2000E+00	1.0000E-02	2.5000E-02	A	D	MED-IND
TRUCK	AG110M	12.1	1.2093E-02	2.4186E+01	1.0000E-03	2.0000E+00	A	D	MEDICAL
TRUCK	CD109	12.1	1.2093E-04	1.2093E+00	1.0000E-05	1.0000E-01	A	D	MEDICAL
TRUCK	CE144	12.1	1.2093E-02	2.4186E+01	1.0000E-03	2.0000E+00	A	D	MEDICAL
TRUCK	CO 57	24.2	6.8930E-01	1.8140E+01	2.8500E-02	7.5000E-01	A	D	MEDICAL
TRUCK	GA 67	104.0	3.1200E-01	1.3000E+01	3.0000E-03	1.2500E-01	A	D	MEDICAL
TRUCK	I 123	624.0	1.6640E-01	4.9400E+01	2.6667E-04	7.9167E-02	A	ND	MEDICAL
TRUCK	I 125	22.0	4.6094E-02	2.2000E-01	2.0952E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	I 129	12.1	2.4186E-04	1.2093E+00	2.0000E-05	1.0000E-01	A	D	MEDICAL
TRUCK	I 131	2.0	4.0000E-03	2.0000E-02	2.0000E-03	1.0000E-02	LS	D	MEDICAL
TRUCK	IN111	52.0	1.5600E-01	0.	3.0000E-03	0.	A	D	MEDICAL
TRUCK	P 32	104.0	6.5520E+02	1.5600E+02	6.3000E+00	1.5000E+00	A	D	MEDICAL
TRUCK	TC 99M	1560.0	1.1492E+02	3.6400E+01	7.3667E-02	2.3333E-02	A	D	MEDICAL

TABLE A-160

CITY LAT = 3.366000E+01		CITY LONG = 1.1779000E+02		RADIUS =		ACROSS 3.8200000E-01		
CITY = ANAHEIM		CITY = ANAHEIM		RADIUS =		ACROSS		
MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL YI PER YEAR	AVERAGE ACTIVITY PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	PU238	2.0	2.6400E+01	0.	1.3200E+01	E	ND	FUEL CY
TRUCK	PU239	1.0	2.0000E+00	1.3000E+00	2.0000E+00	A	ND	FUEL CY
TRUCK	PU239	1.0	2.4000E+01	1.3000E+00	3.4000E+01	B	ND	FUEL CY
TRUCK	U 235	2.0	8.4675E-02	2.3195E+01	3.5010E-03	A	D	FUEL CY
TRUCK	U 235	2.0	3.0400E+02	1.5000E+01	1.5200E+02	A	ND	FUEL CY
TRUCK	U 235	5.0	1.3020E+02	0.	2.6040E+01	E	A	FUEL CY
TRUCK	U 238	2.0	3.5000E+04	0.	1.7500E+04	A	D	FUEL CY
TRUCK	U 238	1.0	1.3800E+02	1.3000E+00	1.3800E+02	A	ND	FUEL CY
TRUCK	U 238	1.0	1.0000E+03	1.3000E+00	1.0000E+03	B	ND	FUEL CY
TRUCK	AM241	8.0	7.2200E+01	2.4100E+01	9.0250E+00	A	ND	INDUSTR
TRUCK	CF252	2.0	1.0000E-01	4.0000E+00	5.0000E-02	A	ND	INDUSTR
TRUCK	CF252	2.0	1.0000E-02	0.	5.0000E-03	E	ND	INDUSTR
TRUCK	CS137	2.0	2.4000E+04	1.0000E+00	1.2000E+04	B	ND	INDUSTR
TRUCK	CS137	4.0	4.0000E+04	6.0000E-02	1.0000E-04	LS	D	INDUSTR
TRUCK	IR192	3.0	5.2000E+01	3.0000E+01	3.0667E+01	B	D	INDUSTR
TRUCK	IR192	2.0	2.0000E+02	4.0000E+00	1.6000E+02	B	ND	INDUSTR
TRUCK	KR 85	2.0	4.0000E+01	6.2000E+00	2.0000E+01	LS	D	INDUSTR
TRUCK	CO 60	2.0	6.0600E+02	1.0000E+00	3.0300E+02	B	ND	MED-IND
TRUCK	XE133	520.0	6.7600E+00	2.0800E+01	1.3000E-02	A	D	MED-IND
TRUCK	CD109	2.0	4.0000E-02	1.0000E-01	2.0000E-02	A	ND	MEDICAL
TRUCK	CO 57	4.0	4.0000E-03	6.0000E-02	1.0000E-03	LS	D	MEDICAL
TRUCK	GA 67	312.0	2.4960E+00	2.0800E+01	8.0000E-03	A	D	MEDICAL
TRUCK	I 123	1404.0	3.2760E-01	1.1440E+02	2.3333E-04	A	ND	MEDICAL
TRUCK	I 125	52.0	4.1600E-04	0.	8.0000E-06	A	D	MEDICAL
TRUCK	IN111	208.0	4.6800E-01	0.	2.2500E-03	A	D	MEDICAL
TRUCK	TC 99P	5824.0	5.2130E+02	1.9760E+02	8.9509E-02	A	D	MEDICAL

TABLE A-161

CITY LAT = 3.3040000E+01 CITY LONG = 1.1682000E+02 RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = SAN DIEGO TC OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AUTOMOBILE	MC	2.0	4.0000E-05	1.0000E-01	2.0000E-05	5.0000E-02	A	ND	FUEL CY
AUTOMOBILE	MC	2.0	6.0000E-05	0.	3.0000E-05	0.	E	ND	FUEL CY

TABLE A-162

CITY LAT = 3.3040000E+01 CITY LONG = 1.1682000E+02 RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = SAN DIEGO TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MC	2.0	2.0000E-05	0.	1.0000E-05	0.	E	ND	FUEL CY
AIR,FRT.	PU238	7.0	5.6298E+01	0.0000E+00	8.0426E+00	2.8571E-01	B	ND	FUEL CY
AIR,FRT.	TH232	22.1	1.2193E+05	0.	5.5187E+03	0.	A	ND	FUEL CY
AIR,FRT.	TH232	1.0	1.6700E+00	0.	1.6700E+00	0.	E	ND	FUEL CY
AIR,FRT.	U 235	112.7	2.0069E-01	5.6333E+00	1.7812E-03	5.0000E-02	A	D	FUEL CY
AIR,FRT.	U 235	136.0	3.2725E+04	1.3958E+02	2.4063E+02	1.0263E+00	A	ND	FUEL CY
AIR,FRT.	U 235	5.0	4.4211E+04	4.0000E-01	8.8422E+03	8.0000E-02	B	ND	FUEL CY
AIR,FRT.	U 235	7.0	1.5780E+01	0.	2.2543E+00	0.	E	ND	FUEL CY
AIR,FRT.	U 235	2.0	2.2310E+00	0.	1.1155E+00	0.	LS	D	FUEL CY
AIR,FRT.	U 238	1.0	5.2000E+02	0.	5.2000E+02	0.	E	ND	FUEL CY
AIR,FRT.	CF252	2.0	8.0000E-02	5.5000E+00	4.0000E-02	2.8000E+00	A	ND	INDUSTR
AIR,FRT.	CS137	2.0	4.0000E+01	5.0000E-01	2.0000E+01	2.5000E-01	A	ND	INDUSTR
AIR,FRT.	H 3	279.3	5.0927E-01	0.	3.2551E-03	0.	A	D	INDUSTR
AIR,FRT.	S 35	8.7	3.4667E-01	0.	4.0000E-02	0.	A	D	INDUSTR
AIR,FRT.	CR 51	13.0	5.2000E-02	1.3000E+00	4.0000E-03	1.0000E-01	A	D	MED-IND
AIR,FRT.	XE133	336.2	4.8699E+02	1.6324E+02	1.4486E+00	4.8561E-01	A	D	MED-IND
AIR,FRT.	C 14	6.3	7.3333E-03	2.0000E-02	1.1579E-03	3.1579E-03	A	D	MEDICAL
AIR,FRT.	FE 59	4.3	8.6667E-03	1.3000E+00	2.0000E-03	3.0000E-01	A	D	MEDICAL
AIR,FRT.	FE 59	12.1	1.2093E-02	9.6744E+00	1.0030E-03	8.0000E-01	A	ND	MEDICAL
AIR,FRT.	I 125	86.7	7.4967E-01	5.2000E+00	8.6500E-03	6.0000E-02	A	D	MEDICAL
AIR,FRT.	I 131	264.3	6.8839E+00	2.9250E+02	2.5043E-02	1.1066E+00	A	D	MEDICAL
AIR,FRT.	I 131	156.0	5.7720E-01	1.2480E+02	3.7000E-03	8.0000E-01	A	ND	MEDICAL
AIR,FRT.	MO 99	52.0	5.8708E+01	8.3200E+01	1.1290E+00	1.6000E+00	A	ND	MEDICAL

TABLE A-163

CITY LAT = 3.3040000E+01 CITY LONG = 1.1682000E+02 RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = SAN DIEGO \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,FRT.	MF	10.0	1.0000E-02 *	1.0000E+00	1.0000E-03 *	1.0000E-01	A	D	FUEL CY
AIR,FRT.	U 235	52.0	2.8080E-03 *	1.0400E+01	5.4000E-05 *	2.0000E-01	A	D	FUEL CY
AIR,FRT.	H 3	13.0	7.8000E-02	0.	6.0000E-03	0.	A	D	INDUSTR
AIR,FRT.	IR192	24.2	2.5033E+03	7.2558E+01	1.0350E+02	3.0000E+00	B	ND	INDUSTR
AIR,FRT.	KR 85	2.0	2.0000E+01	3.4000E+00	1.0000E+01	1.7000E+00	LS	D	INDUSTR
AIR,FRT.	CO 60	2.0	2.0000E-05	2.0000E-01	1.0000E-05	1.0000E-01	A	D	MED-IND
AIR,FRT.	CR 51	52.0	1.0400E-01	5.2000E+00	2.0000E-03	1.0000E-01	A	D	MED-IND
AIR,FRT.	XE133	48.4	4.8372E+01	1.3302E+01	1.0000E+00	2.7500E-01	A	D	MED-IND
AIR,FRT.	CO 57	12.1	4.8372E-02	1.2093E+00	4.0000E-03	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 125	12.1	1.5721E-01	1.2093E+00	1.3000E-02	1.0000E-01	A	D	MEDICAL
AIR,FRT.	I 131	88.3	3.4071E+01	1.9853E+02	3.8595E-01	2.2534E+00	A	D	MEDICAL
AIR,FRT.	I 131	52.0	6.7600E-01	2.0800E+01	1.3000E-02	4.0000E-01	A	ND	MEDICAL
AIR,FRT.	PM147	2.0	3.9400E+01	4.0000E-01	1.9700E+01	2.0000E-01	A	D	MEDICAL
AIR,FRT.	RU106	12.1	2.4186E-01	8.4651E+00	2.0000E-02	7.0000E-01	A	D	MEDICAL
AIR,FRT.	TA182	12.1	2.4186E-02	8.4651E+00	2.0000E-03	7.0000E-01	A	ND	MEDICAL

TABLE A-164

CITY LAT = 3.3040000E+01 CITY LONG = 1.1682000E+02 RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = SAN DIEGO \* \* \* \* \* TO OR FROM \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MF	2.0	2.0000E-03 *	1.0000E-01	1.0000E-03 *	5.0000E-02	A	D	FUEL CY
AIR,PASS.	U 235	1.0	7.0000E-02 *	1.0000E-01	7.0000E-02 *	1.0000E-01	A	D	FUEL CY
AIR,PASS.	U 235	3.0	4.0600E+02 *	0.	1.3533E+02 *	0.	A	ND	FUEL CY
AIR,PASS.	U 235	1.0	1.3900E+02 *	0.	1.3900E+02 *	0.	E	D	FUEL CY
AIR,PASS.	U 235	15.0	1.0500E+02 *	0.	7.0000E+00 *	0.	E	ND	FUEL CY
AIR,PASS.	U 238	1.0	2.0610E+00 *	0.	2.0610E+00 *	0.	B	ND	FUEL CY
AIR,PASS.	CA 45	4.3	4.3333E-03	0.	1.0000E-03	0.	A	D	INDUSTR
AIR,PASS.	CF252	2.0	6.0000E-04	4.0000E-01	3.0000E-04	2.0000E-01	A	ND	INDUSTR
AIR,PASS.	H 3	65.0	5.5033E-01	0.	8.4667E-03	0.	A	D	INDUSTR
AIR,PASS.	SE 75	104.0	6.5000E-02	5.2000E+00	6.2500E-04	5.0000E-02	A	D	INDUSTR
AIR,PASS.	CR 51	4.3	2.1667E-02	4.3333E-01	5.0000E-03	1.0000E-01	A	D	MED-IND
AIR,PASS.	XE133	52.0	5.2000E-01	0.	1.0000E-02	0.	A	D	MED-IND
AIR,PASS.	C 14	160.3	8.4933E-02	0.	5.2973E-04	0.	A	D	MEDICAL
AIR,PASS.	I 125	628.3	5.4601E-01	5.2000E+00	8.6898E-04	8.2755E-03	A	D	MEDICAL
AIR,PASS.	I 131	1248.0	1.3718E+01	7.1760E+02	1.0992E-02	5.7500E-01	A	D	MEDICAL
AIR,PASS.	I 131	104.0	1.3520E-01	4.1600E+01	1.3000E-03	4.0000E-01	A	ND	MEDICAL
AIR,PASS.	MO 99	208.0	2.4950E+02	4.5240E+02	1.1995E+00	2.1750E+00	A	ND	MEDICAL
AIR,PASS.	P 32	104.0	1.0400E+00	3.1200E+01	1.0000E-02	3.0000E-01	A	D	MEDICAL
AIR,PASS.	P 33	4.3	2.1667E-03	0.	5.0000E-04	0.	A	D	MEDICAL

TABLE A-165

CITY LAT = 3.3040000E+01 CITY LONG = 1.1682000E+02 RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = SAN DIEGO ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIC- N. CODE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
AIR,PASS.	MF	10.0	1.0000E-02	5.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
AIR,PASS.	U 235	2.0	5.0100E+00	0.	2.5050E+00	0.	A	ND	FUEL CY
AIR,PASS.	AM241	4.0	4.0000E-03	2.0000E-01	1.0000E-03	5.0000E-02	A	ND	INDUSTR
AIR,PASS.	AM241	12.1	1.4512E-04	0.	1.2000E-05	0.	E	D	INDUSTR
AIR,PASS.	H 3	108.3	3.1633E-01	0.	2.9200E-03	0.	A	D	INDUSTR
AIR,PASS.	H 5	8.0	1.4000E-02	0.	1.7500E-03	0.	E	D	INDUSTR
AIR,PASS.	IR192	0.0	3.5000E-01	0.	1.7500E-01	0.	B	ND	INDUSTR
AIR,PASS.	KR 85	12.1	3.6279E-05	0.	3.0000E-06	0.	E	D	INDUSTR
AIR,PASS.	SE 75	312.0	1.1700E-01	4.1600E+01	3.7500E-04	1.3333E-01	A	D	INDUSTR
AIR,PASS.	C 14	24.2	3.9907E-01	2.4186E+01	1.6500E-02	1.0000E+00	A	C	MEDICAL
AIR,PASS.	C 14	6.0	1.6000E-02	0.	2.6667E-03	0.	E	D	MEDICAL
AIR,PASS.	CO 57	64.1	2.4187E-01	0.	3.7737E-03	0.	A	D	MEDICAL
AIR,PASS.	CO 57	12.1	3.6279E-05	0.	3.0000E-06	0.	E	D	MEDICAL
AIR,PASS.	GA 67	52.0	6.2400E-01	5.2000E+00	1.2000E-02	1.0000E-01	A	D	MEDICAL
AIR,PASS.	I 125	104.0	5.2012E-01	5.2000E+00	5.0012E-03	5.0000E-02	A	D	MEDICAL
AIR,PASS.	I 125	2.0	1.0000E-02	2.0000E-02	5.0000E-03	1.0000E-02	LS	D	MEDICAL
AIR,PASS.	I 131	1092.0	1.9932E+00	4.2120E+02	1.8252E-03	3.8571E-01	A	D	MEDICAL
AIR,PASS.	I 131	52.0	4.6800E-02	3.6400E+01	9.0000E-04	7.0000E-01	A	ND	MEDICAL
AIR,PASS.	IN111	52.0	5.2000E-01	0.	1.0000E-02	0.	A	D	MEDICAL
AIR,PASS.	MO 99	52.0	1.0400E+02	1.5080E+02	2.0000E+00	2.9000E+00	A	D	MEDICAL
AIR,PASS.	TC 99M	988.0	4.2900E+01	1.5600E+01	4.3421E-02	1.5789E-02	A	D	MEDICAL



TABLE A-166

CITY LAT = 3.3040000E+01		CITY LONG = 1.1682000E+02		RADIUS = 9.1600000E-01		TO OR FROM			
CITY = SAN DIEGO		CITY = SAN DIEGO		RADIUS = 9.1600000E-01		TO OR FROM			
MAJOR MODE	RADIO-NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMT	AVERAGE TI PER SHPMT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	MC	6.0	2.200E-04	2.200E-01	3.6667E-05	3.6667E-02	A	ND	FUEL CY
TRUCK	MC	6.0	2.1200E-04	0.	3.5333E-05	0.	E	ND	FUEL CY
TRUCK	MF	2.0	2.0000E-03	1.0000E-01	1.0000E-03	5.0000E-02	A	D	FUEL CY
TRUCK	PU238	1.0	3.6000E-02	5.0000E-01	3.6000E-02	5.0000E-01	B	D	FUEL CY
TRUCK	PU238	1.0	7.7900E+01	4.0000E-01	7.7900E+01	4.0000E-01	B	ND	FUEL CY
TRUCK	PU238	2.0	2.6400E+01	0.	1.3200E+01	0.	E	ND	FUEL CY
TRUCK	PU239	5.0	1.6900E+02	3.6000E+00	3.3800E+01	7.2000E-01	A	ND	FUEL CY
TRUCK	PU239	8.0	7.0500E+02	2.6000E+00	8.8625E+01	3.2500E-01	B	ND	FUEL CY
TRUCK	TH232	78.0	1.1378E+06	1.0000E-01	1.4588E+04	1.2821E-03	A	ND	FUEL CY
TRUCK	TH232	1.0	1.3000E+04	1.0000E-01	1.3000E+04	1.0000E-01	B	ND	FUEL CY
TRUCK	TH232	191.0	1.9500E+05	0.	1.0209E+03	0.	LS	ND	FUEL CY
TRUCK	U 233	7.0	1.0333E+03	1.5000E+00	1.4761E+02	2.1429E-01	A	ND	FUEL CY
TRUCK	U 233	2.0	5.8000E+01	0.	2.9000E+01	0.	LS	ND	FUEL CY
TRUCK	U 235	28.2	2.6971E+03	4.9755E+01	9.5689E+01	1.7667E+00	A	D	FUEL CY
TRUCK	U 235	94.0	3.9670E+04	4.8100E+01	4.2202E+02	5.1170E-01	A	ND	FUEL CY
TRUCK	U 235	7.0	6.6340E+03	3.5800E+01	9.4771E+02	5.1143E+00	B	ND	FUEL CY
TRUCK	U 235	14.0	1.6020E+02	0.	1.1443E+01	0.	E	ND	FUEL CY
TRUCK	U 235	1.0	2.0000E+00	1.0000E-01	2.0000E+00	1.0000E-01	LG	ND	FUEL CY
TRUCK	U 235	1.0	2.7708E+00	0.	2.7708E+00	0.	LS	D	FUEL CY
TRUCK	U 235	2953.0	1.6595E+04	0.	5.6198E+00	0.	LS	ND	FUEL CY
TRUCK	U 238	26.2	1.3459E+06	2.4166E+00	5.1397E+04	9.2362E-02	A	D	FUEL CY
TRUCK	U 238	1.0	1.3800E+02	1.3000E+00	1.3800E+02	1.3000E+00	A	ND	FUEL CY
TRUCK	U 238	2.0	2.0000E+03	2.6000E+00	1.0000E+02	1.3000E+00	B	ND	FUEL CY
TRUCK	U 238	1.0	4.2000E+02	0.	4.2000E+02	0.	E	ND	FUEL CY
TRUCK	AM241	6.0	3.2000E-01	3.0000E-01	5.3333E-02	5.0000E-02	A	ND	INDUSTR
TRUCK	AM241	6.0	1.0003E-04	0.	1.6671E-05	0.	E	ND	INDUSTR
TRUCK	CF252	10.0	3.3000E-01	2.6200E+01	3.3000E-02	2.6200E+00	A	ND	INDUSTR
TRUCK	CF252	2.0	1.2000E-01	7.6000E+00	6.0000E+00	3.8000E+00	B	ND	INDUSTR
TRUCK	CF252	2.0	1.0000E-02	0.	5.0000E-03	0.	E	ND	INDUSTR
TRUCK	CS137	2.0	4.0000E-01	6.0000E-01	2.0000E-01	3.0000E-01	A	ND	INDUSTR
TRUCK	IR192	4.0	8.0000E+01	8.0000E-01	2.0000E+01	2.0000E-01	A	ND	INDUSTR
TRUCK	IR192	2.0	2.0000E+02	4.0000E+00	1.0000E+02	2.0000E+00	B	ND	INDUSTR
TRUCK	KR 85	2.0	4.0000E+01	6.2000E+00	2.0000E+01	3.1000E+00	LS	D	INDUSTR
TRUCK	NA 22	2.0	1.0000E+00	1.6000E+00	5.0000E-01	8.0000E-01	A	D	INDUSTR
TRUCK	NA 22	4.0	1.0000E-04	0.	2.5000E-05	0.	A	ND	INDUSTR
TRUCK	NA 22	2.0	4.0000E-05	0.	2.0000E-05	0.	E	ND	INDUSTR
TRUCK	CO 60	2.0	6.0000E-05	0.	3.0000E-05	0.	A	ND	INDUSTR
TRUCK	XE133	520.0	6.77600E+00	2.0800E+01	1.3000E-02	4.0000E-02	A	D	MED-IND
TRUCK	C 14	2.0	1.4000E-02	4.0000E-01	7.0000E-03	2.0000E-01	A	ND	MEDICAL
TRUCK	CD109	4.0	6.0000E-02	3.0000E-01	1.5000E-02	7.5000E-02	A	ND	MEDICAL
TRUCK	CS134	2.0	2.1400E-01	8.0000E-01	1.0700E-01	4.0000E-01	A	ND	MEDICAL
TRUCK	GA 67	312.0	2.7960E+00	2.0800E+01	8.0000E-03	6.6667E-02	A	D	MEDICAL
TRUCK	I 123	208.0	4.6800E-01	1.3520E+02	2.2813E-04	8.1250E-02	A	ND	MEDICAL
TRUCK	IN111	6296.0	5.8396E+02	2.1840E+02	9.1301E-02	3.4146E-02	A	D	MEDICAL
TRUCK	TC 99M	2.0	1.0000E+01	0.	5.0000E+00	0.	A	ND	WASTE
TRUCK	W	2.0	1.0570E+04	6.0000E-01	5.2650E+03	3.0000E-01	B	ND	WASTE



TABLE A-167

CITY LAT = 3.3040000E+01      CITY LONG = 1.1682000E+02      RADIUS = 9.1600000E-01  
 \* \* \* \* \* CITY = SAN DIEGO      ACROSS \* \* \* \* \*

MAJOR TRANSPORT MODE	RADIO- NUCLIDE	TOTAL SHIPMENTS PER YEAR	TOTAL ACTIVITY PER YEAR	TOTAL TI PER YEAR	AVERAGE ACTIVITY PER SHPMNT	AVERAGE TI PER SHPMNT	PACKAGE TYPE	PHYSICAL FORM	END USE
TRUCK	AM241	4.0	7.2000E+01	2.4000E+01	1.8000E+01	6.0000E+00	A	ND	INDUSTR
TRUCK	H 3	72.6	4.7163E+03	0.	6.5000E+01	0.	E	D	INDUSTR
TRUCK	IR192	3.0	9.2000E+01	3.0000E+01	3.0667E+01	1.0000E+01	B	D	INDUSTR
TRUCK	IR192	12.1	1.4512E+03	2.6000E+01	1.2000E+02	2.1500E+00	B	ND	INDUSTR
TRUCK	CO 60	12.1	5.6837E+00	9.6744E+00	4.7000E-01	8.0000E-01	A	ND	MED-IND

Appendix B

Shipment Categorization for Risk  
Analysis Under Causative Events  
Other than Incident Free  
Transport  
(Exclusive of Sabotage)

The approach chosen for extension of the transportation analysis for causative events other than incident free transport involved an examination of the major contributors to overall accident risk from 10 separate categories of radioactive materials. The categories and a description of the selection process by which materials are placed in them follow and are also summarized in Table B-1. For nondispersible materials, the selection process consists solely of subdividing on the basis of number of curies per package. Nondispersible materials shipments of less than or equal to 1 curies per package comprise Category 1. Category 2 contains all other nondispersible material shipments.

Dispersible material shipments are categorized based on three factors:

1. Curies per package--Shipments of less than or equal to 2 curies per package are classified as small and the remainder as large shipments.
2. Rem per curie values--Subdivision of materials is made on the basis of inhalation toxicity by examining the average rem per curie value for the material, as determined from the 50-year values listed in Appendix G of Reference 4. Materials with average rem per curie values less than  $10^5$  are considered to have low toxicity. All other materials are classified as having high toxicity.
3. Average photon energy per disintegration ( $E_d$ )--if a material has a value for  $E_d$  less than or equal to 0.1 MeV, it is not considered to contribute as an external source (groundshine). All other materials are assumed to act as additional external sources, thus contributing to the overall groundshine consequences.

Tables B-2 through B-21 present the shipment models for the twenty SMSA's categorized according to the above criteria. As reported in SAND79-0369,<sup>4</sup> the categories were partially recombined in calculating the initial risk estimates.

Table B-1

## Description of Risk Categories

Category Number	Description
1	Small nondispersible shipments $\leq 2$ curies
2	Large nondispersible shipments $> 2$ curies
3	Small dispersible shipments, groundshine, low toxicity ( $< 2$ Ci, $E_d > 0.1$ MeV, $\overline{RPC} \leq 1 \times 10^5$ )
4	Small dispersible shipments, groundshine, high toxicity ( $< 2$ Ci, $E_d > 0.1$ MeV, $\overline{RPC} > 1 \times 10^5$ )
5	Large dispersible shipments, groundshine, low toxicity ( $> 2$ Ci, $E_d > 0.1$ MeV, $\overline{RPC} \leq 1 \times 10^5$ )
6	Large dispersible shipments, groundshine, high toxicity ( $> 2$ Ci, $E_d > 0.1$ MeV, $\overline{RPC} > 1 \times 10^5$ )
7	Small dispersible shipments, no groundshine, low toxicity ( $< 2$ Ci, $E_d < 0.1$ MeV, $\overline{RPC} \leq 1 \times 10^5$ )
8	Small dispersible shipments, no groundshine, high toxicity ( $< 2$ Ci, $E_d < 0.1$ MeV, $\overline{RPC} > 1 \times 10^5$ )
9	Large dispersible shipments, no groundshine, low toxicity ( $> 2$ Ci, $E_d < 0.1$ MeV, $\overline{RPC} \leq 1 \times 10^5$ )
10	Large dispersible shipments, no groundshine, high toxicity ( $> 2$ Ci, $E_d < 0.1$ MeV, $\overline{RPC} > 1 \times 10^5$ )

Table B-2

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>New York</b>												
To or From												
Fuel Cycle	$7.6 \times 10^3$	$1.4 \times 10^1$	$3.4 \times 10^0$	$1.4 \times 10^8$	$2.5 \times 10^4$	$1.9 \times 10^3$	$6.0 \times 10^0$	$2.5 \times 10^2$	---	---	---	---
Other	$7.0 \times 10^3$	$1.9 \times 10^3$	$6.3 \times 10^2$	$2.6 \times 10^6$	$8.2 \times 10^4$	$1.1 \times 10^4$	$1.7 \times 10^3$	$1.1 \times 10^5$	$2.9 \times 10^4$	$1.8 \times 10^3$	$9.1 \times 10^3$	$6.0 \times 10^4$
Total	$1.5 \times 10^4$	$1.9 \times 10^3$	$6.6 \times 10^2$	$1.5 \times 10^8$	$1.1 \times 10^5$	$1.3 \times 10^4$	$1.7 \times 10^3$	$1.1 \times 10^5$	$2.9 \times 10^4$	$1.8 \times 10^3$	$9.1 \times 10^3$	$6.0 \times 10^4$
<b>Across</b>												
Fuel Cycle	$4.1 \times 10^2$	$6.1 \times 10^0$	$6.0 \times 10^0$	$3.7 \times 10^5$	$1.4 \times 10^3$	$3.2 \times 10^0$	---	---	---	---	---	---
Other	$6.8 \times 10^3$	$2.2 \times 10^3$	$2.6 \times 10^2$	$2.8 \times 10^4$	$1.1 \times 10^4$	$1.1 \times 10^3$	$5.4 \times 10^1$	$4.1 \times 10^3$	$2.8 \times 10^3$	$6.2 \times 10^1$	$3.7 \times 10^2$	$1.0 \times 10^5$
Total	$7.2 \times 10^3$	$2.2 \times 10^3$	$2.6 \times 10^2$	$4.0 \times 10^5$	$1.3 \times 10^4$	$1.1 \times 10^3$	$5.4 \times 10^1$	$4.1 \times 10^3$	$2.8 \times 10^3$	$6.2 \times 10^1$	$3.7 \times 10^2$	$1.0 \times 10^5$
<b>Total</b>	$2.2 \times 10^4$	$4.2 \times 10^3$	$9.2 \times 10^2$	$1.5 \times 10^8$	$1.2 \times 10^5$	$1.4 \times 10^4$	$1.7 \times 10^3$	$1.2 \times 10^5$	$3.2 \times 10^4$	$1.9 \times 10^3$	$9.4 \times 10^3$	$1.6 \times 10^5$

Table B-3

Los Angeles- Long Beach	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
To or From												
Fuel Cycle	2.6x10 <sup>2</sup>	3.0x10 <sup>0</sup>	2.1x10 <sup>1</sup>	2.2x10 <sup>8</sup>	2.4x10 <sup>2</sup>	1.8x10 <sup>0</sup>	1.2x10 <sup>1</sup>	4.5x10 <sup>2</sup>	---	---	---	---
Other	8.9x10 <sup>3</sup>	6.1x10 <sup>2</sup>	1.3x10 <sup>2</sup>	4.0x10 <sup>4</sup>	5.7x10 <sup>4</sup>	4.9x10 <sup>3</sup>	2.6x10 <sup>2</sup>	1.3x10 <sup>4</sup>	1.5x10 <sup>4</sup>	1.7x10 <sup>3</sup>	1.4x10 <sup>2</sup>	1.0x10 <sup>3</sup>
Total	9.1x10 <sup>3</sup>	6.1x10 <sup>2</sup>	1.5x10 <sup>2</sup>	2.2x10 <sup>8</sup>	5.7x10 <sup>4</sup>	4.9x10 <sup>3</sup>	2.7x10 <sup>2</sup>	1.4x10 <sup>4</sup>	1.5x10 <sup>4</sup>	1.7x10 <sup>3</sup>	1.4x10 <sup>2</sup>	1.0x10 <sup>3</sup>
Across												
Fuel Cycle	3.4x10 <sup>1</sup>	3.2x10 <sup>0</sup>	4.0x10 <sup>0</sup>	1.7x10 <sup>3</sup>	3.0x10 <sup>0</sup>	6.0x10 <sup>-1</sup>	---	---	---	---	---	---
Other	6.4x10 <sup>1</sup>	8.3x10 <sup>0</sup>	2.7x10 <sup>0</sup>	2.0x10 <sup>2</sup>	3.6x10 <sup>2</sup>	4.4x10 <sup>1</sup>	---	---	1.0x10 <sup>3</sup>	1.1x10 <sup>3</sup>	---	---
Total	9.8x10 <sup>1</sup>	1.2x10 <sup>1</sup>	6.0x10 <sup>0</sup>	1.9x10 <sup>3</sup>	3.7x10 <sup>2</sup>	4.5x10 <sup>1</sup>	---	---	1.0x10 <sup>3</sup>	1.1x10 <sup>3</sup>	---	---
Total	9.2x10 <sup>3</sup>	6.3x10 <sup>2</sup>	1.5x10 <sup>2</sup>	2.2x10 <sup>8</sup>	5.7x10 <sup>4</sup>	5.0x10 <sup>3</sup>	2.7x10 <sup>2</sup>	1.4x10 <sup>4</sup>	1.6x10 <sup>4</sup>	2.8x10 <sup>3</sup>	1.4x10 <sup>2</sup>	1.0x10 <sup>3</sup>



Table B-4

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
Chicago												
To or From												
Fuel Cycle	1.8x10 <sup>2</sup>	7.6x10 <sup>0</sup>	2.4x10 <sup>1</sup>	2.3x10 <sup>8</sup>	6.0x10 <sup>3</sup>	6.0x10 <sup>0</sup>	8x10 <sup>2</sup>	4.2x10 <sup>5</sup>	---	---	---	---
Other	3.1x10 <sup>3</sup>	9.5x10 <sup>2</sup>	1.1x10 <sup>2</sup>	5.9x10 <sup>5</sup>	7.5x10 <sup>4</sup>	4.9x10 <sup>3</sup>	4x10 <sup>4</sup>	1.3x10 <sup>5</sup>	4.0x10 <sup>4</sup>	5.6x10 <sup>3</sup>	4.0x10 <sup>0</sup>	6.0x10 <sup>1</sup>
Total	3.3x10 <sup>3</sup>	9.6x10 <sup>2</sup>	1.4x10 <sup>2</sup>	2.3x10 <sup>8</sup>	8.1x10 <sup>4</sup>	4.9x10 <sup>3</sup>	4x10 <sup>4</sup>	5.5x10 <sup>5</sup>	4.0x10 <sup>4</sup>	5.6x10 <sup>3</sup>	4.0x10 <sup>0</sup>	6.0x10 <sup>1</sup>
Across												
Fuel Cycle	2.7x10 <sup>2</sup>	2.3x10 <sup>1</sup>	2.9x10 <sup>1</sup>	4.1x10 <sup>5</sup>	1.3x10 <sup>4</sup>	1.1x10 <sup>3</sup>	2x10 <sup>1</sup>	1.3x10 <sup>6</sup>	---	---	---	---
Other	5.9x10 <sup>3</sup>	2.5x10 <sup>3</sup>	8.6x10 <sup>1</sup>	4.4x10 <sup>4</sup>	5.2x10 <sup>3</sup>	1.1x10 <sup>3</sup>	1x10 <sup>2</sup>	8.2x10 <sup>3</sup>	1.5x10 <sup>3</sup>	3.3x10 <sup>2</sup>	---	---
Total	6.1x10 <sup>3</sup>	2.5x10 <sup>3</sup>	1.2x10 <sup>2</sup>	4.5x10 <sup>5</sup>	1.8x10 <sup>4</sup>	2.2x10 <sup>3</sup>	7x10 <sup>2</sup>	1.3x10 <sup>6</sup>	1.5x10 <sup>3</sup>	3.3x10 <sup>2</sup>	---	---
Total	9.5x10 <sup>3</sup>	3.5x10 <sup>3</sup>	2.5x10 <sup>2</sup>	2.3x10 <sup>8</sup>	9.9x10 <sup>4</sup>	7.1x10 <sup>3</sup>	4x10 <sup>4</sup>	1.9x10 <sup>6</sup>	4.2x10 <sup>4</sup>	6.0x10 <sup>3</sup>	4.0x10 <sup>0</sup>	6.0x10 <sup>1</sup>

Table B-5

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>Philadelphia</b>												
<b>To or From</b>												
Fuel Cycle	1.1x10 <sup>2</sup>	2.4x10 <sup>-1</sup>	2.1x10 <sup>1</sup>	9.2x10 <sup>5</sup>	7.3x10 <sup>3</sup>	2.5x10 <sup>3</sup>	---	---	---	---	---	---
Other	2.7x10 <sup>3</sup>	1.8x10 <sup>3</sup>	4.6x10 <sup>2</sup>	1.8x10 <sup>5</sup>	2.6x10 <sup>4</sup>	1.9x10 <sup>3</sup>	---	---	5.1x10 <sup>3</sup>	2.4x10 <sup>2</sup>	6.2x10 <sup>2</sup>	7.6x10 <sup>3</sup>
<b>Total</b>	<b>2.8x10<sup>3</sup></b>	<b>1.8x10<sup>3</sup></b>	<b>4.8x10<sup>2</sup></b>	<b>1.1x10<sup>6</sup></b>	<b>3.3x10<sup>4</sup></b>	<b>4.4x10<sup>3</sup></b>	<b>---</b>	<b>---</b>	<b>5.1x10<sup>3</sup></b>	<b>2.4x10<sup>2</sup></b>	<b>6.2x10<sup>2</sup></b>	<b>7.6x10<sup>3</sup></b>
<b>Across</b>												
Fuel Cycle	5.3x10 <sup>2</sup>	1.6x10 <sup>1</sup>	3.3x10 <sup>1</sup>	2.2x10 <sup>3</sup>	6.7x10 <sup>3</sup>	4.6x10 <sup>2</sup>	---	---	---	---	---	---
Other	5.4x10 <sup>4</sup>	3.1x10 <sup>4</sup>	5.1x10 <sup>2</sup>	1.5x10 <sup>5</sup>	7.2x10 <sup>4</sup>	6.9x10 <sup>3</sup>	1.0x10 <sup>3</sup>	2.6x10 <sup>4</sup>	1.7x10 <sup>4</sup>	1.3x10 <sup>4</sup>	5.1x10 <sup>3</sup>	1.6x10 <sup>5</sup>
<b>Total</b>	<b>5.5x10<sup>4</sup></b>	<b>3.1x10<sup>4</sup></b>	<b>5.4x10<sup>2</sup></b>	<b>1.5x10<sup>5</sup></b>	<b>7.9x10<sup>4</sup></b>	<b>7.4x10<sup>3</sup></b>	<b>1.0x10<sup>3</sup></b>	<b>2.6x10<sup>4</sup></b>	<b>1.7x10<sup>4</sup></b>	<b>1.3x10<sup>4</sup></b>	<b>5.1x10<sup>3</sup></b>	<b>1.6x10<sup>5</sup></b>
<b>Total</b>	<b>5.8x10<sup>4</sup></b>	<b>3.3x10<sup>4</sup></b>	<b>1.0x10<sup>3</sup></b>	<b>1.3x10<sup>6</sup></b>	<b>1.1x10<sup>5</sup></b>	<b>1.2x10<sup>4</sup></b>	<b>1.0x10<sup>3</sup></b>	<b>2.6x10<sup>4</sup></b>	<b>2.2x10<sup>4</sup></b>	<b>1.3x10<sup>4</sup></b>	<b>5.7x10<sup>3</sup></b>	<b>1.7x10<sup>5</sup></b>

Table B-6

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>Detroit</b>												
<b>To or From</b>												
Fuel Cycle	$7.9 \times 10^2$	$1.0 \times 10^1$	---	---	$5.5 \times 10^1$	$1.0 \times 10^{-2}$	---	---	---	---	---	---
Other	$1.8 \times 10^3$	$1.0 \times 10^3$	$1.0 \times 10^1$	$1.0 \times 10^3$	$8.6 \times 10^3$	$1.2 \times 10^3$	---	---	$3.3 \times 10^3$	$1.6 \times 10^2$	$6.7 \times 10^1$	$6.5 \times 10^2$
<b>Total</b>	$2.6 \times 10^3$	$1.0 \times 10^3$	$1.0 \times 10^1$	$1.0 \times 10^3$	$8.7 \times 10^3$	$1.2 \times 10^3$	---	---	$3.3 \times 10^3$	$1.6 \times 10^2$	$6.7 \times 10^1$	$6.5 \times 10^2$
<b>Across</b>												
Fuel Cycle	$8.3 \times 10^1$	$8.3 \times 10^{-1}$	$7.1 \times 10^1$	$2.7 \times 10^7$	$3.0 \times 10^2$	$1.4 \times 10^1$	$1.3 \times 10^1$	$3.3 \times 10^1$	---	---	---	---
Other	$6.8 \times 10^3$	$3.5 \times 10^3$	$2.3 \times 10^2$	$6.1 \times 10^5$	$9.0 \times 10^3$	$3.4 \times 10^2$	$9.0 \times 10^1$	$4.0 \times 10^3$	$6.2 \times 10^3$	$3.4 \times 10^2$	---	---
<b>Total</b>	$6.8 \times 10^3$	$3.5 \times 10^3$	$3.0 \times 10^2$	$2.7 \times 10^7$	$9.3 \times 10^3$	$3.6 \times 10^2$	$1.0 \times 10^2$	$4.1 \times 10^3$	$6.2 \times 10^3$	$3.4 \times 10^2$	---	---
<b>Total</b>	$9.5 \times 10^3$	$4.6 \times 10^3$	$3.1 \times 10^2$	$2.7 \times 10^7$	$1.8 \times 10^4$	$1.5 \times 10^3$	$1.0 \times 10^2$	$4.1 \times 10^3$	$9.4 \times 10^3$	$5.0 \times 10^2$	$6.7 \times 10^1$	$6.5 \times 10^2$

Table B-7

San Francisco- Oakland	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
To or From												
Fuel Cycle	$7.0 \times 10^2$	$4.2 \times 10^0$	$2.0 \times 10^1$	$3.3 \times 10^4$	$9.3 \times 10^3$	$1.7 \times 10^1$	$1.3 \times 10^1$	$4.2 \times 10^3$	---	---	$1.0 \times 10^0$	$2.9 \times 10^0$
Other	$4.4 \times 10^3$	$3.1 \times 10^2$	$5.1 \times 10^2$	$4.1 \times 10^5$	$3.0 \times 10^4$	$2.2 \times 10^3$	$3.6 \times 10^3$	$2.3 \times 10^5$	$9.2 \times 10^3$	$3.8 \times 10^3$	$9.6 \times 10^3$	$9.4 \times 10^4$
Total	$5.1 \times 10^3$	$3.2 \times 10^2$	$5.3 \times 10^2$	$4.5 \times 10^5$	$3.9 \times 10^4$	$2.2 \times 10^3$	$3.6 \times 10^3$	$2.3 \times 10^5$	$9.2 \times 10^3$	$3.8 \times 10^3$	$9.6 \times 10^3$	$9.4 \times 10^4$
Across												
Fuel Cycle	---	---	---	---	$1.2 \times 10^1$	$1.0 \times 10^{-11}$	---	---	---	---	---	---
Other	---	---	---	---	$5.2 \times 10^1$	$1.0 \times 10^{-1}$	---	---	$7.2 \times 10^1$	$4.0 \times 10^{-1}$	---	---
Total	---	---	---	---	$6.4 \times 10^1$	$1.0 \times 10^{-1}$	---	---	$7.2 \times 10^1$	$4.0 \times 10^{-1}$	---	---
Total	$5.1 \times 10^3$	$3.2 \times 10^2$	$5.3 \times 10^2$	$4.5 \times 10^5$	$3.9 \times 10^4$	$2.2 \times 10^3$	$3.6 \times 10^3$	$2.3 \times 10^5$	$9.3 \times 10^3$	$3.8 \times 10^3$	$9.6 \times 10^3$	$9.4 \times 10^4$

Table B-8

Washington, D.C.	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>To or From</b>												
Fuel Cycle	1.1x10 <sup>2</sup>	1.7x10 <sup>0</sup>	1.1x10 <sup>2</sup>	3.2x10 <sup>6</sup>	2.9x10 <sup>2</sup>	1.9x10 <sup>0</sup>	5.0x10 <sup>0</sup>	3.7x10 <sup>3</sup>	---	---	---	---
Other	1.4x10 <sup>3</sup>	5.8x10 <sup>2</sup>	4.6x10 <sup>1</sup>	2.2x10 <sup>4</sup>	6.0x10 <sup>3</sup>	2.6x10 <sup>2</sup>	1.2x10 <sup>2</sup>	1.5x10 <sup>3</sup>	4.0x10 <sup>3</sup>	2.3x10 <sup>1</sup>	1.6x10 <sup>1</sup>	1.6x10 <sup>2</sup>
Total	1.5x10 <sup>3</sup>	5.8x10 <sup>2</sup>	1.5x10 <sup>2</sup>	3.2x10 <sup>6</sup>	6.3x10 <sup>3</sup>	2.6x10 <sup>2</sup>	1.2x10 <sup>2</sup>	5.2x10 <sup>3</sup>	4.0x10 <sup>3</sup>	2.3x10 <sup>1</sup>	1.6x10 <sup>1</sup>	1.6x10 <sup>2</sup>
<b>Across</b>												
Fuel Cycle	4.4x10 <sup>2</sup>	2.4x10 <sup>1</sup>	2.3x10 <sup>1</sup>	8.4x10 <sup>4</sup>	6.4x10 <sup>3</sup>	2.3x10 <sup>3</sup>	1.0x10 <sup>0</sup>	8.3x10 <sup>0</sup>	---	---	---	---
Other	1.5x10 <sup>4</sup>	8.3x10 <sup>3</sup>	5.7x10 <sup>2</sup>	1.5x10 <sup>5</sup>	9.8x10 <sup>3</sup>	1.4x10 <sup>3</sup>	2.3x10 <sup>2</sup>	2.8x10 <sup>3</sup>	5.9x10 <sup>3</sup>	8.4x10 <sup>2</sup>	4.8x10 <sup>2</sup>	1.2x10 <sup>5</sup>
Total	1.5x10 <sup>4</sup>	8.3x10 <sup>3</sup>	5.9x10 <sup>2</sup>	2.3x10 <sup>5</sup>	1.6x10 <sup>4</sup>	3.7x10 <sup>3</sup>	2.3x10 <sup>2</sup>	2.8x10 <sup>3</sup>	5.9x10 <sup>3</sup>	8.4x10 <sup>2</sup>	4.8x10 <sup>2</sup>	1.2x10 <sup>5</sup>
Total	1.6x10 <sup>4</sup>	8.9x10 <sup>3</sup>	7.5x10 <sup>2</sup>	3.4x10 <sup>6</sup>	2.3x10 <sup>4</sup>	4.0x10 <sup>3</sup>	3.4x10 <sup>2</sup>	8.0x10 <sup>3</sup>	9.9x10 <sup>3</sup>	8.6x10 <sup>2</sup>	5.0x10 <sup>2</sup>	1.2x10 <sup>5</sup>

Table B-9

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
Boston												
To or From												
Fuel Cycle	1.1x10 <sup>3</sup>	1.2x10 <sup>1</sup>	6.0x10 <sup>1</sup>	3.7x10 <sup>5</sup>	9.7x10 <sup>2</sup>	2.0x10 <sup>-1</sup>	---	---	---	---	---	---
Other	1.3x10 <sup>3</sup>	3.0x10 <sup>2</sup>	1.9x10 <sup>3</sup>	3.5x10 <sup>5</sup>	1.2x10 <sup>4</sup>	1.0x10 <sup>3</sup>	6.0x10 <sup>2</sup>	6.6x10 <sup>4</sup>	8.0x10 <sup>3</sup>	8.1x10 <sup>2</sup>	1.3x10 <sup>3</sup>	1.0x10 <sup>5</sup>
Total	2.4x10 <sup>3</sup>	3.2x10 <sup>2</sup>	1.9x10 <sup>3</sup>	7.2x10 <sup>5</sup>	1.3x10 <sup>4</sup>	1.0x10 <sup>3</sup>	6.0x10 <sup>2</sup>	6.6x10 <sup>4</sup>	8.0x10 <sup>3</sup>	8.1x10 <sup>2</sup>	1.3x10 <sup>3</sup>	1.0x10 <sup>5</sup>
Across												
Fuel Cycle	2.0x10 <sup>0</sup>	4.2x10 <sup>-10</sup>	---	---	---	---	---	---	---	---	---	---
Other	7.2x10 <sup>1</sup>	3.0x10 <sup>1</sup>	---	---	---	---	---	---	---	---	---	---
Total	7.4x10 <sup>1</sup>	3.0x10 <sup>1</sup>	---	---	---	---	---	---	---	---	---	---
Total	2.5x10 <sup>3</sup>	3.5x10 <sup>2</sup>	1.9x10 <sup>3</sup>	7.2x10 <sup>5</sup>	1.3x10 <sup>4</sup>	1.0x10 <sup>3</sup>	6.0x10 <sup>2</sup>	6.6x10 <sup>4</sup>	8.0x10 <sup>3</sup>	8.1x10 <sup>2</sup>	1.3x10 <sup>3</sup>	1.0x10 <sup>5</sup>



Table B-10

Nassau/ Suffolk	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
To or From												
Fuel Cycle	$4.5 \times 10^1$	$4.8 \times 10^1$	$1.0 \times 10^0$	$3.7 \times 10^1$	$2.1 \times 10^0$	$2.6 \times 10^2$	---	---	---	---	---	---
Other	$1.8 \times 10^3$	$5.1 \times 10^2$	$1.8 \times 10^2$	$1.6 \times 10^4$	$1.1 \times 10^4$	$7.7 \times 10^2$	$7.6 \times 10^1$	$4.3 \times 10^3$	$3.4 \times 10^3$	$1.5 \times 10^2$	$8.6 \times 10^1$	$6.9 \times 10^2$
Total	$1.8 \times 10^3$	$5.5 \times 10^2$	$1.8 \times 10^2$	$1.6 \times 10^4$	$1.3 \times 10^4$	$1.0 \times 10^3$	$7.6 \times 10^1$	$4.3 \times 10^3$	$3.4 \times 10^3$	$1.5 \times 10^2$	$8.6 \times 10^1$	$6.9 \times 10^2$
Across												
Fuel Cycle	$3.3 \times 10^2$	$2.8 \times 10^0$	$6.0 \times 10^0$	$3.7 \times 10^5$	$4.0 \times 10^2$	$3.0 \times 10^{-1}$	---	---	---	---	---	---
Other	$4.3 \times 10^3$	$1.2 \times 10^3$	$6.9 \times 10^2$	$6.4 \times 10^4$	$1.1 \times 10^4$	$3.4 \times 10^2$	$2.1 \times 10^2$	$1.1 \times 10^4$	$3.7 \times 10^3$	$1.6 \times 10^2$	$4.1 \times 10^2$	$1.0 \times 10^5$
Total	$4.6 \times 10^3$	$1.2 \times 10^3$	$7.0 \times 10^2$	$4.3 \times 10^5$	$1.2 \times 10^4$	$3.4 \times 10^2$	$2.1 \times 10^2$	$1.1 \times 10^4$	$3.7 \times 10^3$	$1.6 \times 10^2$	$4.1 \times 10^2$	$1.0 \times 10^5$
Total	$6.5 \times 10^3$	$1.7 \times 10^3$	$8.7 \times 10^2$	$4.5 \times 10^5$	$2.5 \times 10^4$	$1.4 \times 10^3$	$2.8 \times 10^2$	$1.5 \times 10^4$	$7.1 \times 10^3$	$3.1 \times 10^2$	$4.9 \times 10^2$	$1.0 \times 10^5$

Table B-11

Dallas/ Fort Worth	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	<u>SPY</u>	<u>Ci/Yr</u>	<u>SPY</u>	<u>Ci/Yr</u>	<u>SPY</u>	<u>Ci/Yr</u>	<u>SPY</u>	<u>Ci/Yr</u>	<u>SPY</u>	<u>Ci/Yr</u>	<u>SPY</u>	<u>Ci/Yr</u>
To or From												
Fuel Cycle	$2.0 \times 10^0$	$8.2 \times 10^{-2}$	---	---	$3.0 \times 10^2$	$5.6 \times 10^0$	---	---	---	---	---	---
Other	$6.7 \times 10^2$	$3.7 \times 10^2$	$4.2 \times 10^1$	$1.8 \times 10^4$	$1.4 \times 10^4$	$6.9 \times 10^2$	$6.5 \times 10^1$	$1.4 \times 10^2$	$2.1 \times 10^3$	$1.9 \times 10^2$	---	---
Total	$6.7 \times 10^2$	$3.7 \times 10^2$	$4.2 \times 10^1$	$1.8 \times 10^4$	$1.4 \times 10^4$	$6.9 \times 10^2$	$6.5 \times 10^1$	$1.4 \times 10^2$	$2.1 \times 10^3$	$1.9 \times 10^2$	---	---
Across												
Fuel Cycle	$6.0 \times 10^0$	$4.0 \times 10^{-2}$	---	---	---	---	---	---	---	---	---	---
Other	$3.0 \times 10^2$	$1.9 \times 10^2$	$2.0 \times 10^2$	$1.1 \times 10^5$	$2.4 \times 10^3$	$5.1 \times 10^2$	$2.0 \times 10^0$	$5.0 \times 10^0$	$5.6 \times 10^2$	$3.8 \times 10^1$	---	---
Total	$3.1 \times 10^2$	$1.9 \times 10^2$	$2.0 \times 10^2$	$1.1 \times 10^5$	$2.4 \times 10^3$	$5.1 \times 10^2$	$2.0 \times 10^0$	$5.0 \times 10^0$	$5.6 \times 10^2$	$3.8 \times 10^1$	---	---
Total	$9.8 \times 10^2$	$5.6 \times 10^2$	$2.5 \times 10^2$	$1.3 \times 10^5$	$1.6 \times 10^4$	$1.2 \times 10^3$	$6.7 \times 10^1$	$1.4 \times 10^2$	$2.6 \times 10^3$	$2.3 \times 10^2$	---	---

Table B-12

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>Houston</b>												
<b>To or From</b>												
Fuel Cycle	$4.4 \times 10^1$	$1.1 \times 10^0$	$2.3 \times 10^1$	$1.4 \times 10^2$	$5.2 \times 10^1$	$1.9 \times 10^{-6}$	$5.0 \times 10^0$	$1.3 \times 10^2$	---	---	---	---
Other	$8.7 \times 10^2$	$4.9 \times 10^2$	$5.6 \times 10^2$	$7.6 \times 10^6$	$2.5 \times 10^4$	$3.1 \times 10^3$	$1.7 \times 10^2$	$1.8 \times 10^4$	$5.5 \times 10^3$	$4.4 \times 10^2$	$9.4 \times 10^1$	$1.7 \times 10^3$
<b>Total</b>	$9.1 \times 10^2$	$4.9 \times 10^2$	$5.8 \times 10^2$	$7.6 \times 10^6$	$2.5 \times 10^4$	$3.1 \times 10^3$	$1.7 \times 10^2$	$1.8 \times 10^4$	$5.5 \times 10^3$	$4.4 \times 10^2$	$9.4 \times 10^1$	$1.7 \times 10^3$
<b>Across</b>												
Fuel Cycle	---	---	$1.0 \times 10^0$	$1.5 \times 10^2$	$6.6 \times 10^1$	$1.6 \times 10^{-6}$	---	---	---	---	---	---
Other	$3.2 \times 10^2$	$3.5 \times 10^1$	$1.8 \times 10^2$	$2.2 \times 10^4$	$1.2 \times 10^3$	$2.3 \times 10^2$	$1.6 \times 10^2$	$1.8 \times 10^4$	$6.6 \times 10^2$	$4.2 \times 10^2$	$2.0 \times 10^0$	$2.0 \times 10^1$
<b>Total</b>	$3.2 \times 10^2$	$3.5 \times 10^1$	$1.8 \times 10^2$	$2.2 \times 10^4$	$1.3 \times 10^3$	$2.3 \times 10^2$	$1.6 \times 10^2$	$1.8 \times 10^4$	$6.6 \times 10^2$	$4.2 \times 10^2$	$2.0 \times 10^0$	$2.0 \times 10^1$
<b>Total</b>	$1.2 \times 10^3$	$5.3 \times 10^2$	$7.6 \times 10^2$	$7.6 \times 10^6$	$2.6 \times 10^4$	$3.3 \times 10^3$	$3.3 \times 10^2$	$3.6 \times 10^4$	$6.2 \times 10^3$	$8.6 \times 10^2$	$9.6 \times 10^1$	$1.7 \times 10^3$

Table B-13

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
St. Louis												
To or From												
Fuel Cycle	$3.7 \times 10^1$	$2.5 \times 10^0$	---	---	$2.3 \times 10^2$	$3.3 \times 10^0$	---	---	---	---	---	---
Other	$2.5 \times 10^2$	$1.4 \times 10^2$	$3.5 \times 10^1$	$3.4 \times 10^3$	$1.9 \times 10^5$	$4.7 \times 10^4$	$2.4 \times 10^2$	$2.2 \times 10^4$	$3.2 \times 10^4$	$8.9 \times 10^2$	---	---
Total	$2.9 \times 10^2$	$1.4 \times 10^2$	$3.5 \times 10^1$	$3.4 \times 10^3$	$1.9 \times 10^5$	$4.7 \times 10^4$	$2.4 \times 10^2$	$2.2 \times 10^4$	$3.2 \times 10^4$	$8.9 \times 10^2$	---	---
Across												
Fuel Cycle	$2.4 \times 10^2$	$7.5 \times 10^0$	$1.0 \times 10^2$	$5.3 \times 10^7$	$8.3 \times 10^4$	$6.7 \times 10^3$	$1.1 \times 10^1$	$4.3 \times 10^3$	---	---	---	---
Other	$5.3 \times 10^3$	$2.4 \times 10^3$	$1.3 \times 10^2$	$9.7 \times 10^4$	$1.1 \times 10^4$	$3.8 \times 10^2$	$4.8 \times 10^1$	$5.4 \times 10^3$	$6.4 \times 10^3$	$3.8 \times 10^2$	$4.1 \times 10^2$	$1.6 \times 10^4$
Total	$5.6 \times 10^3$	$2.4 \times 10^3$	$2.3 \times 10^2$	$5.3 \times 10^7$	$9.5 \times 10^4$	$7.1 \times 10^3$	$5.9 \times 10^1$	$9.7 \times 10^3$	$6.4 \times 10^3$	$3.8 \times 10^2$	$4.1 \times 10^2$	$1.6 \times 10^4$
Total	$5.9 \times 10^3$	$2.6 \times 10^3$	$2.6 \times 10^2$	$5.3 \times 10^7$	$2.8 \times 10^5$	$5.4 \times 10^4$	$3.0 \times 10^2$	$3.1 \times 10^4$	$3.8 \times 10^4$	$1.3 \times 10^3$	$4.1 \times 10^2$	$1.6 \times 10^4$

Table B-14

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>Pittsburgh</b>												
<b>To or From</b>												
Fuel Cycle	$4.7 \times 10^2$	$3.8 \times 10^1$	$2.2 \times 10^3$	$3.7 \times 10^5$	$2.3 \times 10^3$	$2.2 \times 10^3$	$6.1 \times 10^1$	$1.3 \times 10^6$	---	---	---	---
Other	$2.2 \times 10^3$	$1.3 \times 10^3$	$2.0 \times 10^2$	$3.6 \times 10^4$	$8.3 \times 10^3$	$6.0 \times 10^2$	$4.0 \times 10^0$	$7.2 \times 10^3$	$1.5 \times 10^3$	$1.4 \times 10^1$	---	---
<b>Total</b>	$2.7 \times 10^3$	$1.3 \times 10^3$	$2.4 \times 10^3$	$4.0 \times 10^5$	$1.1 \times 10^4$	$2.8 \times 10^3$	$6.5 \times 10^1$	$1.3 \times 10^6$	$1.5 \times 10^3$	$1.4 \times 10^1$	---	---
<b>Across</b>												
Fuel Cycle	$2.9 \times 10^2$	$9.8 \times 10^{-1}$	$2.1 \times 10^1$	$4.7 \times 10^6$	$1.4 \times 10^3$	$6.1 \times 10^0$	$3.9 \times 10^1$	$8.9 \times 10^2$	---	---	---	---
Other	$1.4 \times 10^4$	$8.7 \times 10^3$	$2.0 \times 10^2$	$9.4 \times 10^4$	$6.4 \times 10^4$	$3.3 \times 10^4$	$8.8 \times 10^2$	$3.2 \times 10^4$	$1.7 \times 10^4$	$9.5 \times 10^2$	$3.6 \times 10^3$	$2.1 \times 10^4$
<b>Total</b>	$1.5 \times 10^4$	$8.7 \times 10^3$	$2.2 \times 10^2$	$4.7 \times 10^6$	$6.6 \times 10^4$	$3.3 \times 10^4$	$9.2 \times 10^2$	$3.3 \times 10^4$	$1.7 \times 10^4$	$9.5 \times 10^2$	$3.6 \times 10^3$	$2.1 \times 10^4$
<b>Total</b>	$1.7 \times 10^4$	$1.0 \times 10^4$	$2.6 \times 10^3$	$5.1 \times 10^6$	$7.6 \times 10^4$	$3.6 \times 10^4$	$9.9 \times 10^2$	$1.4 \times 10^6$	$1.8 \times 10^4$	$9.6 \times 10^2$	$3.6 \times 10^3$	$2.1 \times 10^4$

Table B-15

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>Baltimore</b>												
<b>To or From</b>												
Fuel Cycle	2.9x10 <sup>2</sup>	7.4x10 <sup>-1</sup>	1.2x10 <sup>2</sup>	3.3x10 <sup>6</sup>	3.7x10 <sup>2</sup>	2.3x10 <sup>0</sup>	1.0x10 <sup>0</sup>	5.6x10 <sup>0</sup>	---	---	---	---
Other	1.2x10 <sup>3</sup>	5.1x10 <sup>2</sup>	4.4x10 <sup>1</sup>	2.2x10 <sup>4</sup>	7.1x10 <sup>3</sup>	3.3x10 <sup>2</sup>	1.1x10 <sup>2</sup>	1.5x10 <sup>3</sup>	4.1x10 <sup>3</sup>	2.1x10 <sup>1</sup>	1.6x10 <sup>0</sup>	1.6x10 <sup>2</sup>
<b>Total</b>	1.4x10 <sup>3</sup>	5.1x10 <sup>2</sup>	1.6x10 <sup>2</sup>	3.3x10 <sup>6</sup>	7.4x10 <sup>3</sup>	3.3x10 <sup>2</sup>	1.1x10 <sup>2</sup>	1.5x10 <sup>3</sup>	4.1x10 <sup>3</sup>	2.1x10 <sup>1</sup>	1.6x10 <sup>0</sup>	1.6x10 <sup>2</sup>
<b>Across</b>												
Fuel Cycle	4.5x10 <sup>2</sup>	2.5x10 <sup>1</sup>	2.2x10 <sup>1</sup>	5.5x10 <sup>5</sup>	6.5x10 <sup>3</sup>	2.3x10 <sup>3</sup>	1.0x10 <sup>0</sup>	8.3x10 <sup>0</sup>	---	---	---	---
Other	1.8x10 <sup>4</sup>	1.0x10 <sup>4</sup>	3.4x10 <sup>2</sup>	9.3x10 <sup>4</sup>	1.6x10 <sup>4</sup>	1.8x10 <sup>3</sup>	2.3x10 <sup>2</sup>	2.8x10 <sup>3</sup>	6.2x10 <sup>3</sup>	1.0x10 <sup>3</sup>	4.8x10 <sup>2</sup>	1.2x10 <sup>5</sup>
<b>Total</b>	1.8x10 <sup>4</sup>	1.0x10 <sup>4</sup>	3.6x10 <sup>2</sup>	6.5x10 <sup>5</sup>	2.2x10 <sup>4</sup>	4.1x10 <sup>3</sup>	2.3x10 <sup>2</sup>	2.8x10 <sup>3</sup>	6.2x10 <sup>3</sup>	1.0x10 <sup>3</sup>	4.8x10 <sup>2</sup>	1.2x10 <sup>5</sup>
<b>Total</b>	2.0x10 <sup>4</sup>	1.1x10 <sup>4</sup>	5.2x10 <sup>2</sup>	3.9x10 <sup>6</sup>	3.0x10 <sup>4</sup>	4.4x10 <sup>3</sup>	3.5x10 <sup>2</sup>	4.3x10 <sup>3</sup>	1.0x10 <sup>4</sup>	1.0x10 <sup>3</sup>	4.9x10 <sup>2</sup>	1.2x10 <sup>5</sup>



Table B-16

Minneapolis/ St. Paul	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>To or From</b>												
Fuel Cycle	$1.2 \times 10^1$	$1.6 \times 10^0$	---	---	$9.4 \times 10^1$	$8.0 \times 10^{-1}$	---	---	---	---	---	---
Other	$8.4 \times 10^2$	$4.8 \times 10^2$	$4.5 \times 10^1$	$5.0 \times 10^3$	$2.1 \times 10^3$	$1.9 \times 10^2$	$4.2 \times 10^2$	$1.4 \times 10^3$	$2.5 \times 10^3$	$1.8 \times 10^2$	$2.0 \times 10^0$	$4.0 \times 10^1$
<b>Total</b>	$8.5 \times 10^2$	$4.8 \times 10^2$	$4.5 \times 10^1$	$5.0 \times 10^3$	$2.2 \times 10^3$	$1.9 \times 10^2$	$4.2 \times 10^2$	$1.4 \times 10^3$	$2.4 \times 10^3$	$1.8 \times 10^2$	$2.0 \times 10^0$	$4.0 \times 10^1$
<b>Across</b>												
Fuel Cycle	$2.0 \times 10^0$	$4.2 \times 10^{-8}$	---	---	$3.4 \times 10^1$	$1.0 \times 10^{-1}$	----	---	---	---	---	---
Other	$9.4 \times 10^2$	$5.5 \times 10^2$	$1.1 \times 10^2$	$1.9 \times 10^4$	$5.5 \times 10^2$	$8.7 \times 10^1$	---	---	$4.9 \times 10^2$	$1.1 \times 10^1$	---	---
<b>Total</b>	$9.4 \times 10^2$	$5.5 \times 10^2$	$1.1 \times 10^2$	$1.9 \times 10^4$	$5.9 \times 10^2$	$8.7 \times 10^1$	---	---	$4.9 \times 10^2$	$1.1 \times 10^1$	---	---
<b>Total</b>	$1.8 \times 10^3$	$1.0 \times 10^3$	$1.5 \times 10^2$	$2.4 \times 10^4$	$2.8 \times 10^3$	$2.8 \times 10^2$	$4.2 \times 10^2$	$1.4 \times 10^3$	$3.0 \times 10^3$	$1.9 \times 10^2$	$2.0 \times 10^0$	$4.0 \times 10^1$

Table B-17

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>Newark</b>												
<b>To or From</b>												
Fuel Cycle	$9.7 \times 10^2$	$3.6 \times 10^0$	$1.4 \times 10^1$	$1.4 \times 10^8$	$1.6 \times 10^3$	$4.0 \times 10^{-2}$	$6.0 \times 10^0$	$2.5 \times 10^2$	---	---	---	---
Other	$6.7 \times 10^4$	$3.8 \times 10^4$	$1.7 \times 10^2$	$2.4 \times 10^6$	$7.4 \times 10^4$	$5.5 \times 10^3$	$8.9 \times 10^2$	$5.0 \times 10^4$	$1.4 \times 10^4$	$4.0 \times 10^2$	$5.2 \times 10^3$	$3.1 \times 10^4$
<b>Total</b>	$6.7 \times 10^4$	$3.8 \times 10^4$	$1.9 \times 10^2$	$1.5 \times 10^8$	$7.5 \times 10^4$	$5.5 \times 10^3$	$9.0 \times 10^2$	$5.0 \times 10^4$	$1.4 \times 10^4$	$4.0 \times 10^2$	$5.2 \times 10^3$	$3.1 \times 10^4$
<b>Across</b>												
Fuel Cycle	$4.9 \times 10^2$	$1.3 \times 10^1$	$2.6 \times 10^1$	$3.7 \times 10^5$	$9.1 \times 10^3$	$9.2 \times 10^2$	---	---	---	---	---	---
Other	$2.0 \times 10^3$	$3.5 \times 10^2$	$3.7 \times 10^2$	$1.6 \times 10^5$	$3.7 \times 10^4$	$4.4 \times 10^3$	$2.6 \times 10^2$	$1.1 \times 10^4$	$2.0 \times 10^4$	$1.3 \times 10^3$	$1.9 \times 10^3$	$1.3 \times 10^5$
<b>Total</b>	$2.5 \times 10^3$	$3.6 \times 10^2$	$4.0 \times 10^2$	$5.3 \times 10^5$	$4.6 \times 10^4$	$5.3 \times 10^3$	$2.6 \times 10^2$	$1.1 \times 10^4$	$2.0 \times 10^4$	$1.3 \times 10^3$	$1.9 \times 10^3$	$1.3 \times 10^5$
<b>Total</b>	$7.0 \times 10^4$	$3.8 \times 10^4$	$5.8 \times 10^2$	$1.5 \times 10^8$	$1.2 \times 10^5$	$1.1 \times 10^4$	$1.2 \times 10^3$	$6.1 \times 10^4$	$3.4 \times 10^4$	$1.7 \times 10^3$	$7.1 \times 10^3$	$1.6 \times 10^5$

Table B-18

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>Cleveland</b>												
<b>To or From</b>												
Fuel Cycle	2.0x10 <sup>0</sup>	7.4x10 <sup>-5</sup>	---	---	9.3x10 <sup>1</sup>	1.0x10 <sup>-2</sup>	---	---	---	---	---	---
Other	8.9x10 <sup>2</sup>	5.6x10 <sup>2</sup>	1.9x10 <sup>2</sup>	5.3x10 <sup>5</sup>	4.8x10 <sup>3</sup>	1.0x10 <sup>3</sup>	1.6x10 <sup>2</sup>	1.6x10 <sup>3</sup>	1.6x10 <sup>3</sup>	1.7x10 <sup>2</sup>	---	---
<b>Total</b>	8.9x10 <sup>2</sup>	5.6x10 <sup>2</sup>	1.9x10 <sup>2</sup>	5.3x10 <sup>5</sup>	4.9x10 <sup>3</sup>	1.0x10 <sup>3</sup>	1.6x10 <sup>2</sup>	1.6x10 <sup>3</sup>	1.6x10 <sup>3</sup>	1.7x10 <sup>2</sup>	---	---
<b>Across</b>												
Fuel Cycle	1.4x10 <sup>3</sup>	4.5x10 <sup>0</sup>	8.0x10 <sup>0</sup>	4.0x10 <sup>6</sup>	1.3x10 <sup>4</sup>	9.2x10 <sup>0</sup>	6.0x10 <sup>1</sup>	1.3x10 <sup>6</sup>	---	---	---	---
Other	1.2x10 <sup>4</sup>	6.8x10 <sup>3</sup>	3.3x10 <sup>2</sup>	2.0x10 <sup>5</sup>	2.1x10 <sup>4</sup>	1.3x10 <sup>3</sup>	5.2x10 <sup>2</sup>	5.5x10 <sup>4</sup>	1.1x10 <sup>4</sup>	6.7x10 <sup>2</sup>	1.8x10 <sup>3</sup>	5.9x10 <sup>3</sup>
<b>Total</b>	1.3x10 <sup>4</sup>	6.8x10 <sup>3</sup>	3.4x10 <sup>2</sup>	4.2x10 <sup>5</sup>	3.4x10 <sup>4</sup>	1.3x10 <sup>3</sup>	5.8x10 <sup>2</sup>	1.4x10 <sup>6</sup>	1.1x10 <sup>4</sup>	6.7x10 <sup>2</sup>	1.8x10 <sup>3</sup>	5.9x10 <sup>3</sup>
<b>Total</b>	1.4x10 <sup>4</sup>	7.4x10 <sup>4</sup>	5.3x10 <sup>2</sup>	4.7x10 <sup>6</sup>	3.8x10 <sup>4</sup>	2.3x10 <sup>3</sup>	7.4x10 <sup>2</sup>	1.4x10 <sup>6</sup>	1.2x10 <sup>4</sup>	8.4x10 <sup>2</sup>	1.8x10 <sup>3</sup>	5.9x10 <sup>3</sup>

Table B-19

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>Atlanta</b>												
<b>To or From</b>												
Fuel Cycle	1.0x10 <sup>0</sup>	2.9x10 <sup>-4</sup>	---	---	1.9x10 <sup>3</sup>	1.6x10 <sup>0</sup>	---	---	---	---	---	---
Other	8.0x10 <sup>2</sup>	4.1x10 <sup>2</sup>	3.9x10 <sup>1</sup>	3.2x10 <sup>3</sup>	2.9x10 <sup>3</sup>	1.7x10 <sup>2</sup>	---	---	8.1x10 <sup>2</sup>	3.0x10 <sup>1</sup>	3.6x10 <sup>1</sup>	6.1x10 <sup>2</sup>
<b>Total</b>	8.0x10 <sup>2</sup>	4.1x10 <sup>2</sup>	3.9x10 <sup>1</sup>	3.2x10 <sup>3</sup>	4.8x10 <sup>3</sup>	1.7x10 <sup>2</sup>	---	---	8.1x10 <sup>2</sup>	3.0x10 <sup>1</sup>	3.6x10 <sup>1</sup>	6.1x10 <sup>2</sup>
<b>Across</b>												
Fuel Cycle	4.3x10 <sup>2</sup>	2.9x10 <sup>0</sup>	1.1x10 <sup>1</sup>	6.9x10 <sup>3</sup>	1.0x10 <sup>4</sup>	2.4x10 <sup>1</sup>	5.1x10 <sup>1</sup>	1.7x10 <sup>5</sup>	---	---	---	---
Other	3.7x10 <sup>3</sup>	2.0x10 <sup>3</sup>	3.9x10 <sup>2</sup>	4.8x10 <sup>4</sup>	4.3x10 <sup>3</sup>	7.2x10 <sup>2</sup>	---	---	1.5x10 <sup>3</sup>	4.2x10 <sup>0</sup>	---	---
<b>Total</b>	4.2x10 <sup>3</sup>	2.0x10 <sup>3</sup>	4.1x10 <sup>2</sup>	5.5x10 <sup>4</sup>	1.4x10 <sup>4</sup>	7.4x10 <sup>2</sup>	5.1x10 <sup>1</sup>	1.7x10 <sup>5</sup>	1.5x10 <sup>3</sup>	4.2x10 <sup>0</sup>	---	---
<b>Total</b>	5.0x10 <sup>3</sup>	2.4x10 <sup>3</sup>	4.4x10 <sup>2</sup>	5.8x10 <sup>4</sup>	1.9x10 <sup>4</sup>	9.1x10 <sup>2</sup>	5.1x10 <sup>1</sup>	1.7x10 <sup>5</sup>	2.3x10 <sup>3</sup>	3.4x10 <sup>1</sup>	3.6x10 <sup>1</sup>	6.1x10 <sup>2</sup>

Table B-20

Anaheim/ Santa Ana/ Garden Grove	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>To or From</b>												
Fuel Cycle	$7.3 \times 10^1$	$4.0 \times 10^{-2}$	---	---	$7.6 \times 10^1$	$6.7 \times 10^{-9}$	---	---	---	---	---	---
Other	$1.2 \times 10^3$	$2.9 \times 10^1$	$2.4 \times 10^1$	$1.7 \times 10^3$	$4.6 \times 10^3$	$2.6 \times 10^2$	$5.2 \times 10^1$	$2.4 \times 10^3$	$1.3 \times 10^3$	$3.7 \times 10^2$	$1.0 \times 10^2$	$6.6 \times 10^2$
Total	$1.3 \times 10^3$	$2.9 \times 10^1$	$2.4 \times 10^1$	$2.7 \times 10^3$	$4.7 \times 10^3$	$2.6 \times 10^2$	$5.2 \times 10^1$	$2.4 \times 10^3$	$1.3 \times 10^3$	$3.7 \times 10^2$	$1.0 \times 10^2$	$6.6 \times 10^2$
<b>Across</b>												
Fuel Cycle	$7.3 \times 10^1$	$4.4 \times 10^{-1}$	$1.1 \times 10^1$	$2.3 \times 10^2$	$4.6 \times 10^1$	$1.0 \times 10^{-2}$	---	---	---	---	---	---
Other	$2.2 \times 10^3$	$3.9 \times 10^2$	$3.4 \times 10^0$	$2.7 \times 10^4$	$1.2 \times 10^4$	$1.2 \times 10^3$	$5.3 \times 10^1$	$5.6 \times 10^3$	$4.3 \times 10^3$	$9.8 \times 10^2$	$1.4 \times 10^1$	$2.8 \times 10^2$
Total	$2.3 \times 10^3$	$3.9 \times 10^2$	$3.9 \times 10^1$	$2.7 \times 10^4$	$1.2 \times 10^4$	$1.2 \times 10^3$	$5.3 \times 10^1$	$5.6 \times 10^3$	$4.3 \times 10^3$	$9.8 \times 10^2$	$1.4 \times 10^1$	$2.8 \times 10^2$
Total	$3.5 \times 10^3$	$4.1 \times 10^2$	$6.3 \times 10^1$	$3.0 \times 10^4$	$1.7 \times 10^4$	$1.5 \times 10^3$	$1.1 \times 10^2$	$8.0 \times 10^3$	$5.6 \times 10^3$	$1.3 \times 10^3$	$1.2 \times 10^2$	$9.4 \times 10^2$

Table B-21

	Category 1		Category 2		Categories 3 & 4		Categories 5 & 6		Categories 7 & 8		Categories 9 & 10	
	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr	SPY	Ci/Yr
<b>San Diego</b>												
<b>To or From</b>												
Fuel Cycle	3.2x10 <sup>3</sup>	1.1x10 <sup>1</sup>	3.1x10 <sup>2</sup>	3.0x10 <sup>4</sup>	1.8x10 <sup>2</sup>	1.1x10 <sup>0</sup>	---	---	---	---	---	---
Other	2.2x10 <sup>3</sup>	3.1x10 <sup>2</sup>	1.0x10 <sup>1</sup>	1.5x10 <sup>2</sup>	8.5x10 <sup>3</sup>	6.1x10 <sup>2</sup>	---	---	3.2x10 <sup>3</sup>	9.9x10 <sup>2</sup>	2.0x10 <sup>0</sup>	4.0x10 <sup>1</sup>
<b>Total</b>	5.5x10 <sup>3</sup>	3.2x10 <sup>2</sup>	3.4x10 <sup>2</sup>	3.0x10 <sup>4</sup>	8.7x10 <sup>3</sup>	6.1x10 <sup>2</sup>	---	---	3.2x10 <sup>3</sup>	9.9x10 <sup>2</sup>	2.0x10 <sup>0</sup>	4.0x10 <sup>1</sup>
<b>Across</b>												
Fuel Cycle	2.0x10 <sup>0</sup>	1.1x10 <sup>-5</sup>	---	---	7.2x10 <sup>1</sup>	4.8x10 <sup>-8</sup>	---	---	---	---	---	---
Other	1.5x10 <sup>2</sup>	1.2x10 <sup>1</sup>	4.0x10 <sup>1</sup>	4.0x10 <sup>3</sup>	2.7x10 <sup>3</sup>	1.8x10 <sup>2</sup>	5.0x10 <sup>0</sup>	1.3x10 <sup>2</sup>	4.8x10 <sup>2</sup>	9.9x10 <sup>1</sup>	2.0x10 <sup>0</sup>	2.0x10 <sup>1</sup>
<b>Total</b>	1.5x10 <sup>2</sup>	1.2x10 <sup>1</sup>	4.0x10 <sup>1</sup>	4.0x10 <sup>3</sup>	2.8x10 <sup>3</sup>	1.8x10 <sup>2</sup>	5.0x10 <sup>0</sup>	1.3x10 <sup>2</sup>	4.8x10 <sup>2</sup>	9.9x10 <sup>1</sup>	2.0x10 <sup>0</sup>	2.0x10 <sup>1</sup>
<b>Total</b>	5.6x10 <sup>3</sup>	3.3x10 <sup>2</sup>	3.8x10 <sup>2</sup>	3.4x10 <sup>4</sup>	1.2x10 <sup>4</sup>	7.9x10 <sup>2</sup>	5.0x10 <sup>0</sup>	1.3x10 <sup>2</sup>	3.7x10 <sup>3</sup>	1.1x10 <sup>3</sup>	4.0x10 <sup>0</sup>	6.0x10 <sup>1</sup>



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