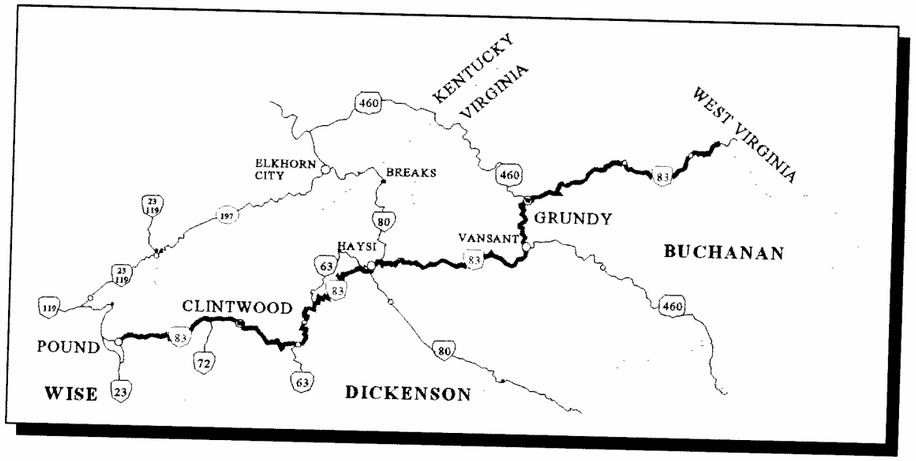
Coalfields Expressway Location Study

Project R000-961-101, PE-100
From: Route 23 at Pound
To: West Virginia State Line

TRAFFIC DATA COLLECTION REPORT



Prepared for:

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December 1997

PREFACE

This report documents the traffic data collection effort undertaken by BMI and Chi Associates, Inc. for the Coalfields Expressway Location Study. Traffic data collected and compiled included the following:

- Link Tube Count Data
- Intersection Manual Count Data
- Intersection Video Surveillance Data
- Vehicle Classification Data
- License Plate Matching Survey Data
- Travel Time Data
- Accident Data
- Census Data

This document presents a summary for each type of data collected and also contains, as appendices, printouts of the raw data sheets. This technical memorandum is not intended for distribution to the general public.

DECEMBER REVISIONS

This version of the report (December 1997) contains several revisions to the original October 1997 report. These revisions, which are noted below, were minor and do not include any changes to the data presented in the original report.

1. ***In Figure 5, Average Travel Speeds, one of the speed range color codes was changed.***

2. ***Figure 1, Data Collection Sites, was updated to include the location of a manual intersection count site that had not been shown previously.***

3. ***Several labeling corrections were made to Figure 3.***

In response to a question concerning the daily count of 3,800 shown on VA 83 between Rt. 642 and Rt. 643 west of Stacy (Figure 2), a comparison was made with counts at this location done earlier by VDOT. VDOT AADT estimates for this general location are 3,600 (1993) and 4,241 (1995). Our count of 3,800 was also checked by reviewing the 12-hr. video that was taken at the VA 83/Rt. 643 intersection. Expanding the 12-hr. volume of 2,386 for the western leg of this intersection with a factor of 1.35 to estimate a 24-hr. volume yields an estimate of 3,221. Based on these comparisons, we believe that our count of 3,800 is reasonable.

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1.0 OVERVIEW

BMI and Chi Associates, Inc. conducted an extensive field study of the existing traffic conditions along the Coalfields Expressway Corridor from August 15, 1997 to August 21, 1997. Data were collected along Virginia State Highway 83 (VA 83) between the intersection of Business 23 in Pound and the West Virginia State Line. Data collection activities included tube counts, intersection turning movement counts using manual and video surveillance methods, license plate surveys, and travel time measurements. Travel time measurements were also made along adjacent and parallel roadways to provide a comparison among alternate routes between major points within the corridor.

Section 2.0 describes the data collection plan, including the exact location and duration of each type of count performed within the corridor. The results of the tube counts along eight segments of VA 83 and turning movement counts at fifteen major intersections are summarized in Sections 3.1, and 3.2. Section 3.3 describes the vehicle classification data collected to determine the percentage of truck traffic along VA 83. The license plate survey results are discussed in Section 4.0. Two final sources of data were collected to describe the existing traffic conditions within the corridor: accident records and journey to work information from the 1990 U.S. Census. The accident data are briefly discussed in Section 5.0. Census figures for Wise, Dickenson, and Buchanan counties were extracted from the U.S. Census Transportation Planning Package CD-ROM. Section 6.0 summarizes the findings of this effort.

Raw data for the link tube counts are presented in Appendix A. Data from the manual intersection counts are given in Appendix B while Appendix C contains data from the video surveillance counts. Appendix D contains vehicle classification data obtained through the video surveillance counts. Finally, Appendix E presents the data from travel time measurements used to determine average speeds through various segments of the corridor.

2.0 TRAFFIC DATA COLLECTION PLAN

Figure 1 shows the geographic distribution of the intersection and tube counts, including the location of the license plate surveys. The duration of each field survey is summarized in Table 1. Tube counters were installed at eight locations along VA 83 (T-1 through T-8 in Figure 1). Tubes were installed at the entrances to four additional sites in the corridor which appeared to potentially generate relatively large traffic volumes. These locations included two entrances to Buchanan General Hospital (T-9,T-10), the driveway of the Buchanan Information Park (T-11), and the access road to Breaks Interstate Park (T-12). Weekday intersection counts using video surveillance were made at seven locations along VA 83 for a single twelve-hour period, approximately 8:00 AM to 8:00 PM. Twelve-hour video counts were also conducted over a three-day period (Friday, Saturday, Sunday) at three locations near Breaks Interstate Park (V-8, V-9, and V-10 in Figure 1). Manual turning movement counts were conducted on a weekday at five locations. Traffic was measured at 15-minute intervals from 8:00 to 11:00 AM and 3:00 to 6:00 PM. License plate surveys were conducted for a single eight-hour period starting at 8:00 to 9:30 AM and ending between 4:30 and 6:00 PM. Finally, travel time runs were made at various times of the day throughout the seven days of data collection.

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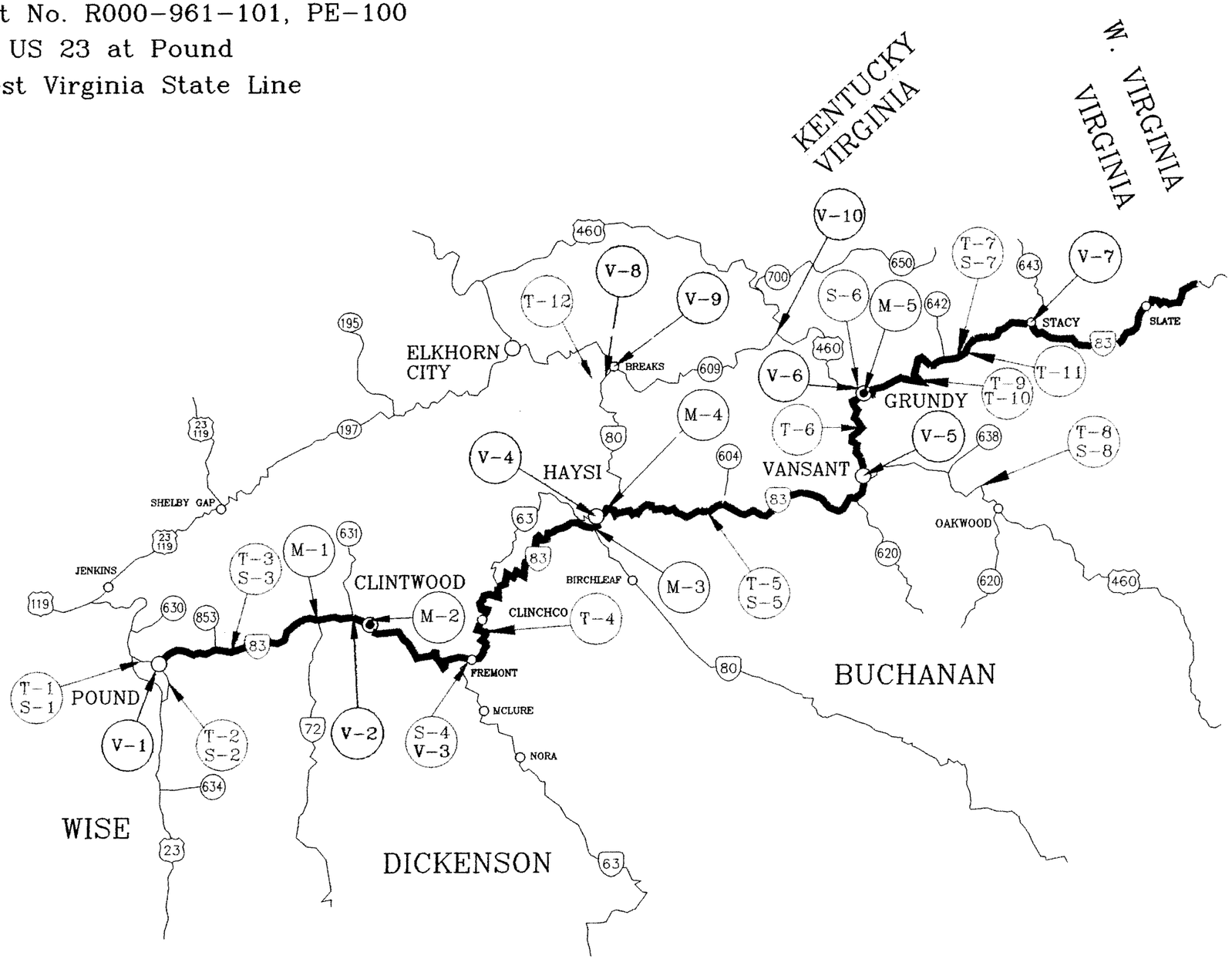

LEGEND

M-1	Intersection Manual Count Location
S-1	License Plate Survey Location
T-1	Tube Counter Location
V-1	Intersection Video Location

DATA COLLECTION SITES

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Figure 1

Approx. Scale:
1" = 4.5 miles

Table 1. Traffic Data Collection Plan Summary

Type	Map Code	Location	Time Period
Tube	T-1	US 23 Business - North	Weekdays - 48 hours
	T-2	US 23 Business - South	Weekdays - 48 hours
	T-3	VA 83 @ Wise/Dickenson Co. Line	Weekdays - 48 hours
	T-4	VA 83/63 between SR 779 and SR 664	Weekdays - 48 hours
	T-5	VA 83 @ Prater	Weekdays - 48 hours
	T-6	VA 83/US 460 between Vansant and Grundy	Weekdays - 48 hours
	T-7	VA 83 between SR 642 and SR 674	Weekdays - 48 hours
	T-8	US 460 between Vansant and Oakwood	Weekdays - 48 hours
	T-9	Buchanan General Hospital (West Access)	Weekdays - 48 hours
	T-10	Buchanan General Hospital (East Access)	Weekdays - 48 hours
	T-11	Buchanan Information Park	Weekdays - 48 hours
	T-12	Entrance to Breaks Interstate Park	Weekday/Weekend - 96 hours
Intersection - Video	V-1	VA 83 @ US 23 Business (Pound)	Weekday - 12 hours
	V-2	VA 83 @ SR 631 (Clintwood)	Weekday - 12 hours
	V-3	VA 83 @ VA 63 (Fremont)	Weekday - 12 hours
	V-4	VA 83/80 @ VA 63 (Haysi)	Weekday - 12 hours
	V-5	VA 83 @ US 460 (Vansant)	Weekday - 12 hours
	V-6	VA 460 @ VA 83 Business (Grundy)	Weekday - 12 hours
	V-7	VA 83 @ SR 643 (Stacy)	Weekday - 12 hours
	V-8	VA 80 @ Entrance to Breaks Interstate Park	Weekend - 36 hours
	V-9	VA 80 @ SR 609	Weekend - 36 hours
	V-10	US 460 @ SR 609	Weekend - 36 hours

Table 1. Traffic Data Collection Plan Summary (cont.)

Type	Map Code	Location	Time Period
Intersection - Manual	M-1	VA 83 @ VA 72 (Georges Fork)	Weekday - 6 hours
	M-2	VA 83 @ T-607 (Clintwood)	Weekday - 6 hours
	M-3	VA 83 @ VA 80 South (Haysi)	Weekday - 6 hours
	M-4	VA 83 @ VA 80 North (Haysi)	Weekday - 6 hours
	M-5	US 460 @ VA 83 @ VA 83/US 460 (Grundy)	Weekday - 6 hours
License Plate Survey	S-1	US 23 Business - North	Weekday - 8 hours
	S-2	US 23 Business - South	Weekday - 8 hours
	S-3	US 83 @ Wise/Dickenson Co. Line	Weekday - 8 hours
	S-4	VA 83 @ Fremont	Weekday - 8 hours
	S-5	VA 83 @ Prater	Weekday - 8 hours
	S-6	US 460 west of Grundy	Weekday - 8 hours
	S-7	VA 83 between SR 642 and SR 674	Weekday - 8 hours
	S-8	US 460 between Vansant and Oakwood	Weekday - 8 hours
Travel Time/ Speed Data		VA 63, VA 72, VA 80, VA 83, SR 609, SR 631, SR 662, US 23, US 460, KY 197	All Periods

3.0 TRAFFIC COUNT DATA

3.1 Tube Counts

Mechanical tube counters were installed and maintained by Chi Associates at eight locations along VA 83 and at the access points to four additional sites within the corridor. All tubes were in place for a minimum period of 48 consecutive hours on two weekdays. In addition, weekend counts were obtained at the entrance to Breaks Interstate Park. Figure 2 shows the average weekday traffic (ADT) at eight locations along VA 83. Table 2 displays the volumes recorded by each of the twelve tube counters. The values listed in Figure 2 and Table 2 represent the average traffic volume in both directions over a 24-hour period. The raw data downloaded from the tube counters to a computer can be found in Appendix A. The time of the peak hour and the peak volumes (by direction) are also computed at the bottom of each sheet in Appendix A.

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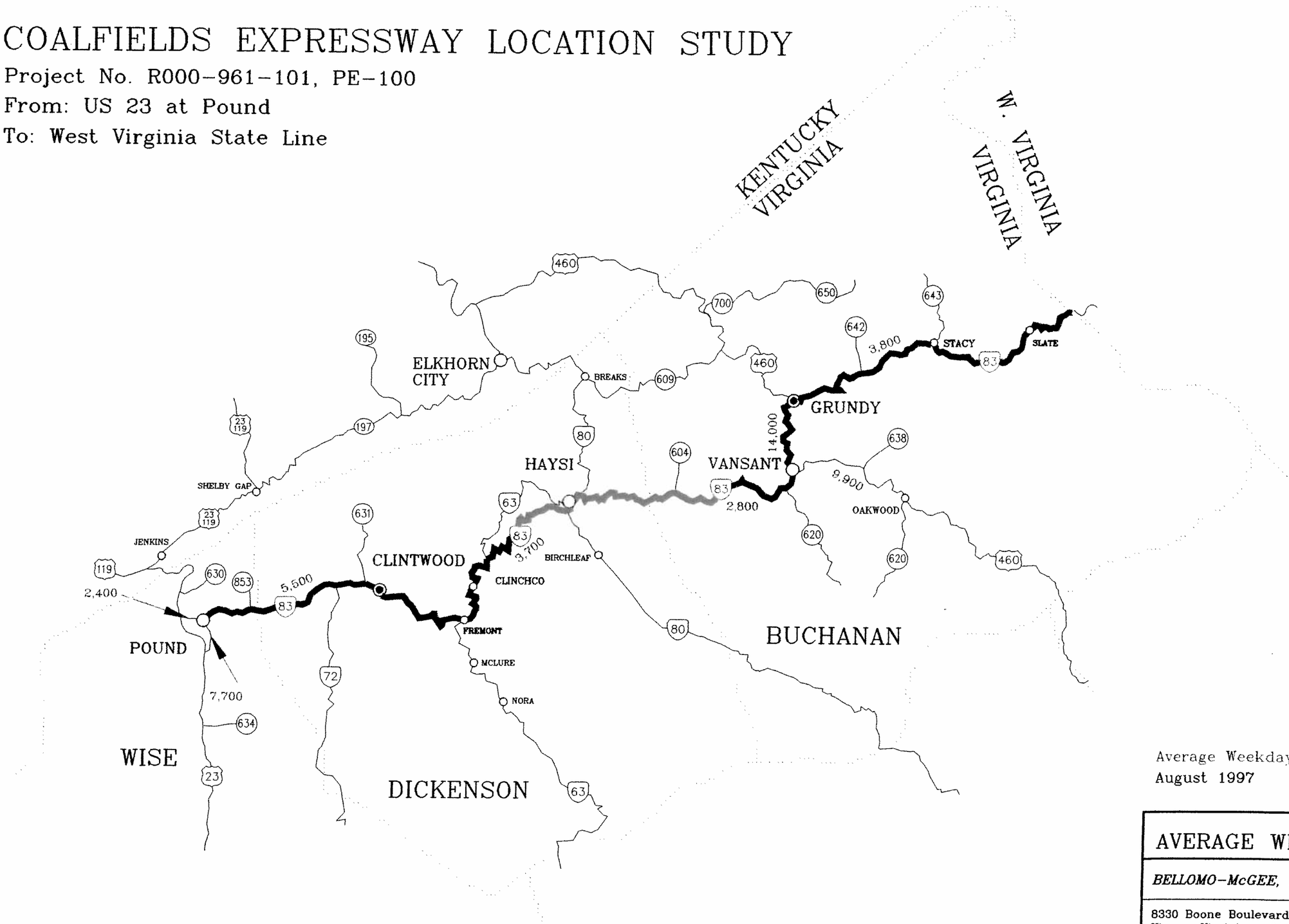

Average Weekday Traffic
August 1997

AVERAGE WEEKDAY TRAFFIC

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Figure 2

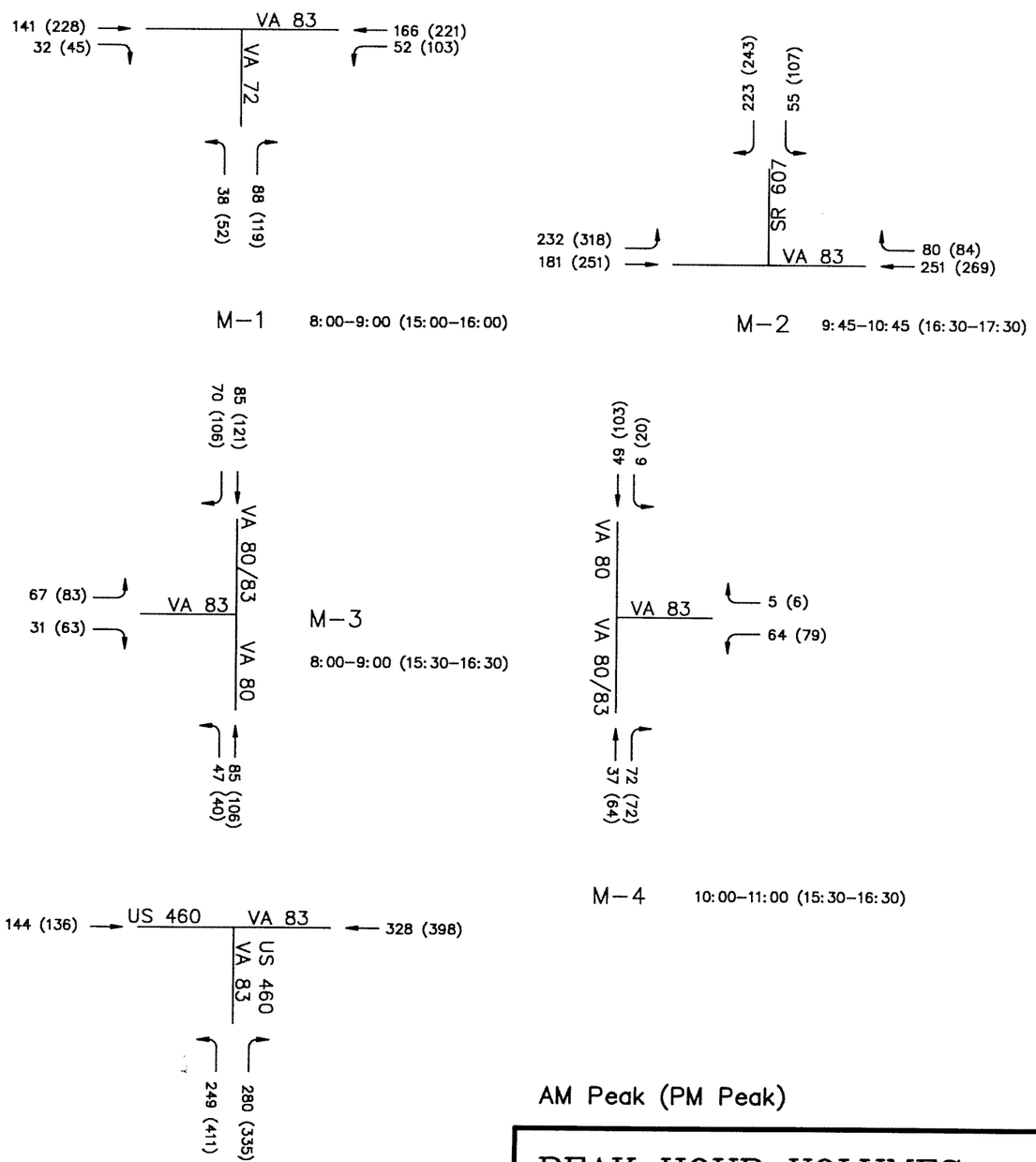
Approx. Scale:
1" = 4.5 miles

Table 2. Average Daily Traffic

Site Code	Location	Average Weekday Traffic
T-1	US 23 Business - North	2,400
T-2	US 23 Business - South	7,700
T-3	VA 83 @ Wise/Dickenson Co. Line	5,500
T-4	VA 83/63 between SR 779 and SR 664	3,700
T-5	VA 83 @ Prater	2,800
T-6	VA 83/US 460 between Vansant and Grundy	14,000
T-7	VA 83 between SR 642 and SR 674	3,800
T-8	US 460 between Vansant and Oakwood	9,900
T-9	Buchanan General Hospital (West Access)	1,400
T-10	Buchanan General Hospital (East Access)	2,200
T-11	Buchanan Information Park	400
T-12	Entrance to Breaks Interstate Park	500 (Weekend: 1,900)

3.2 Intersection Counts

Manual turning movement counts were conducted by Chi Associates at five intersections on Tuesday, August 19, 1997. Traffic was measured at 15-minute intervals from 8:00 to 11:00 AM and 3:00 to 6:00 PM. Video turning movement counts were conducted by BMI and Chi Associates at seven intersections along VA 83 between August 19 and August 21, 1997. Traffic was measured at 15-minutes intervals from approximately 8:00 AM to 8:00 PM. Twelve-hour video counts were also conducted for a three-day weekend period at three locations near Breaks Interstate Park. BMI mounted surveillance cameras on utility poles or sign posts to achieve a continuous, wide angle view of each intersection. The 12-hour observation period was recorded on a 2-hour time lapse VHS tape. The tapes were reduced by Chi Associates who summarized turning movements by viewing the surveillance tapes. Figure 3 shows the time of the AM and PM peak periods and the traffic volumes for each turning movement at the fifteen intersections. Table 3 summarizes the peak period volumes based on the total number of vehicles entering the intersection. The volumes and associated times for the two hours of the day with the largest traffic volumes in either the morning or afternoon/evening periods are listed. It is important to note that many of the video surveillance sites do not seem to experience a typical AM and PM peak period. The actual data sheets for the manual and video turning movement counts can be found in Appendices B and C, respectively.



AM Peak (PM Peak)

PEAK HOUR VOLUMES

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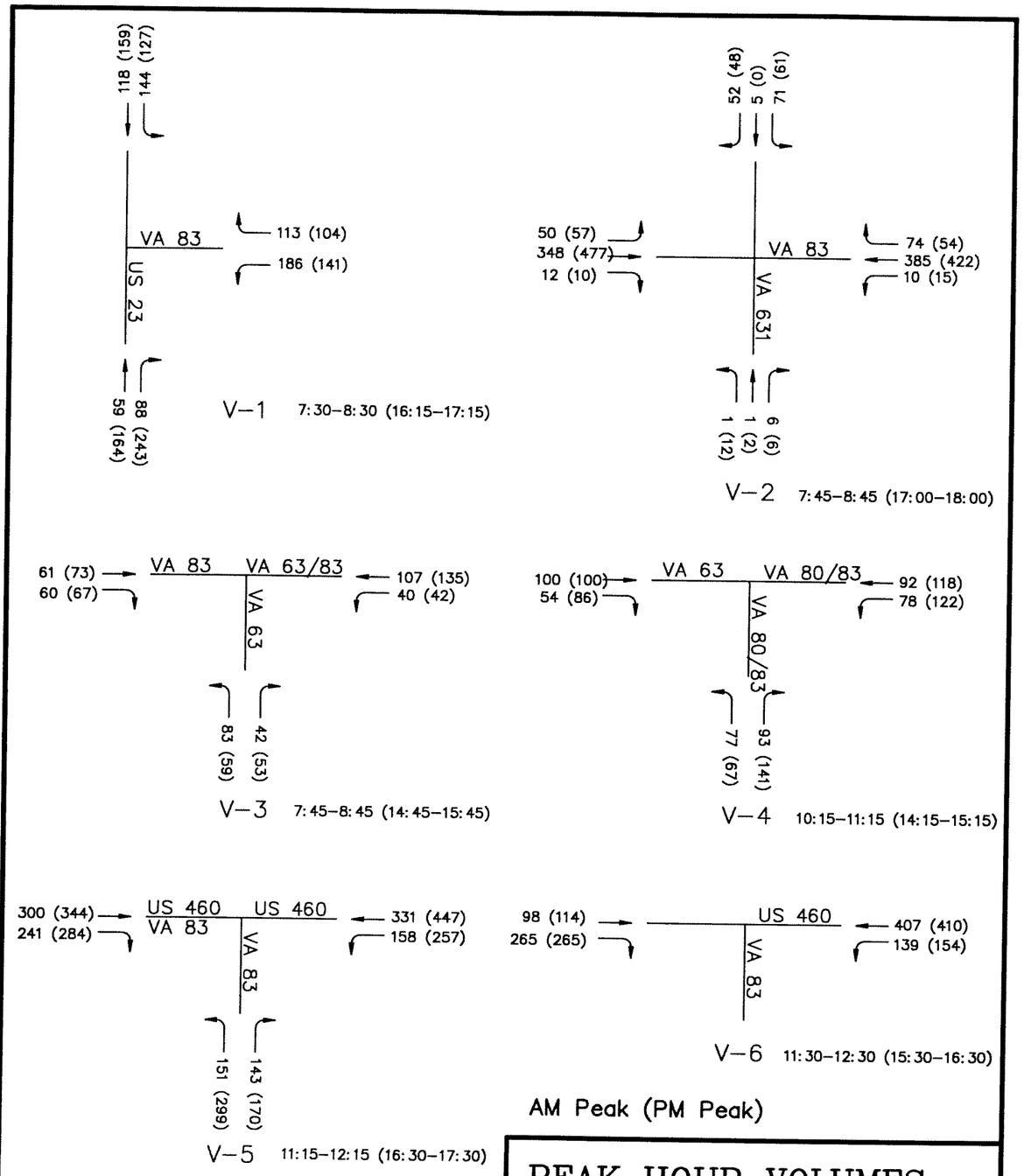
Figure 3



AM Peak (PM Peak)

PEAK HOUR VOLUMES

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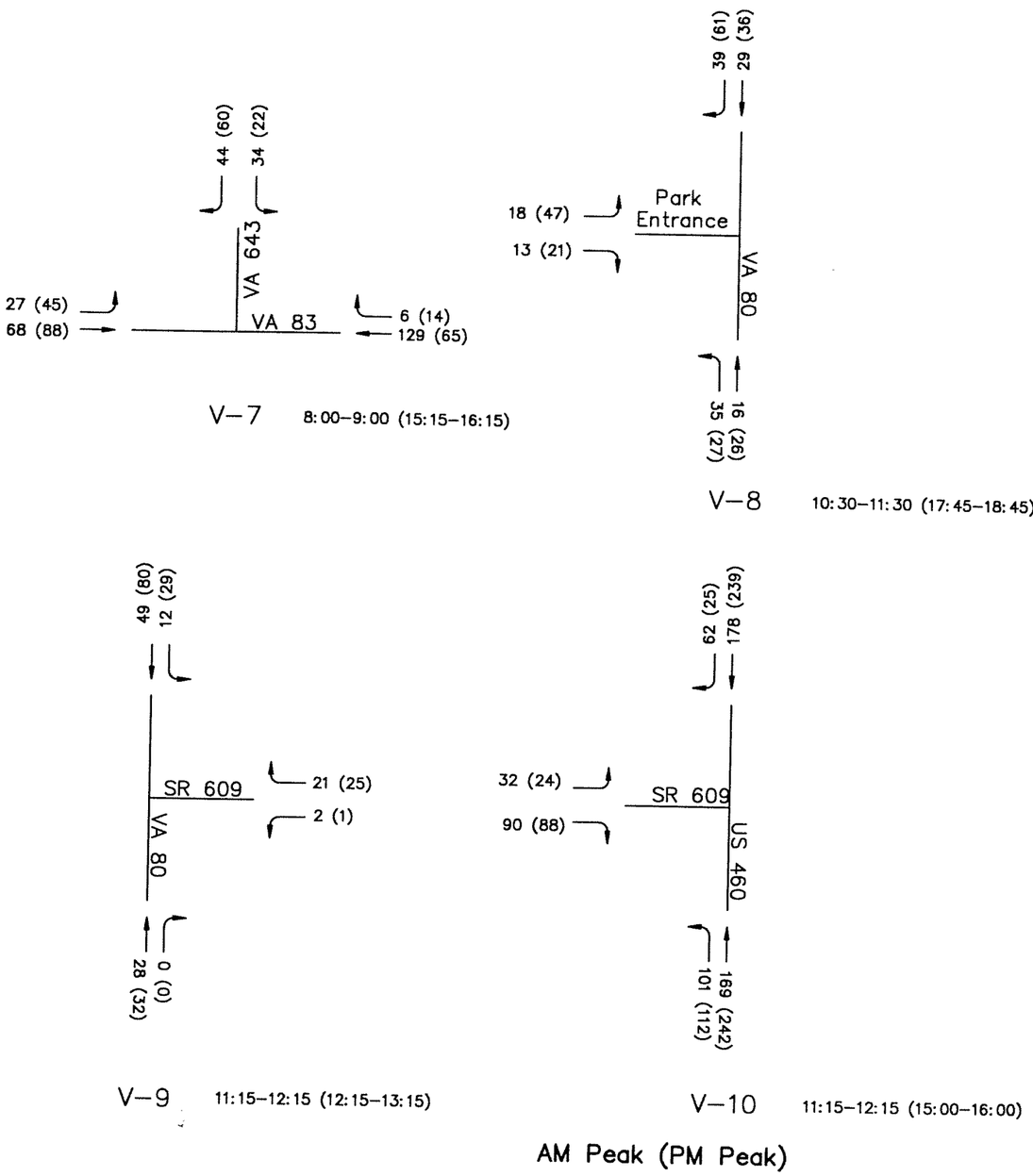
Figure 3
(cont.)



PEAK HOUR VOLUMES

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Figure 3
(cont.)

Table 3. Peak Hour Volumes and Corresponding Time of Day

Site Code	Intersection	AM	PM
M-1	VA 83 @ VA 72 (Georges Fork)	517 (8:00-9:00)	768 (3:00-4:00)
M-2	VA 83 @ T-607 (Clintwood)	1,012 (9:45-10:45)	1,272 (4:30-5:30)
M-3	VA 83 @ VA 80 South (Haysi)	385 (8:00-9:00)	519 (3:30-4:30)
M-4	VA 83 @ VA 80 North (Haysi)	233 (10:00-11:00)	368 (3:30-4:30)
M-5	US 460 @ VA 83 @ VA 83/US 460 (Grundy)	1,001 (8:00-9:00)	1,280 (4:30-5:30)
V-1	VA 83 @ US 23 Business (Pound)	708 (7:30-8:30)	938 (4:15-5:15)
V-2	VA 83 @ SR 631 (Clintwood)	1,015 (7:45-8:45)	1,164 (5:00-6:00)
V-3	VA 83 @ VA 63 (Fremont)	393 (7:45-8:45)	429 (2:45-3:45)
V-4	VA 83/80 @ VA 63 (Haysi)	494 (11:30-12:30)	634 (2:15-3:15)
V-5	VA 83 @ US 460 (Vansant)	1,324 (11:15-12:15)	1,801 (4:30-5:30)
V-6	VA 460 @ VA 83 Business (Grundy)	909 (11:30-12:30)	943 (3:30-4:30)
V-7	VA 83 @ SR 643 (Stacy)	308 (8:00-9:00)	294 (3:15-4:15)
V-8*	VA 80 @ Entrance to Breaks Interstate Park	150 (10:30-11:30)	218 (5:45-6:45)
V-9*	VA 80 @ SR 609	112 (11:15-12:15)	163 (12:15-1:15)
V-10*	US 460 @ SR 609	632 (11:15-12:15)	730 (3:00-4:00)

* Values listed represent weekend (Friday, Saturday, or Sunday) peak hour volumes.

3.3 Vehicle Classification

A second objective of the video surveillance counts was to allow a classification of vehicles into auto, medium truck, and heavy truck categories. Medium trucks have only two axles and are largely represented by local delivery trucks. Large trucks have two or more axles and include all dump trucks and semi tractor trailers. School buses are classified as large trucks due to their operational capabilities. Figure 4 shows the percentage of trucks on various segments of VA 83. The values listed represent the total number of trucks (medium plus heavy) as a percentage of the total traffic volume in both directions. A summary of the actual numbers of trucks observed at the video surveillance locations can be found in Appendix D.

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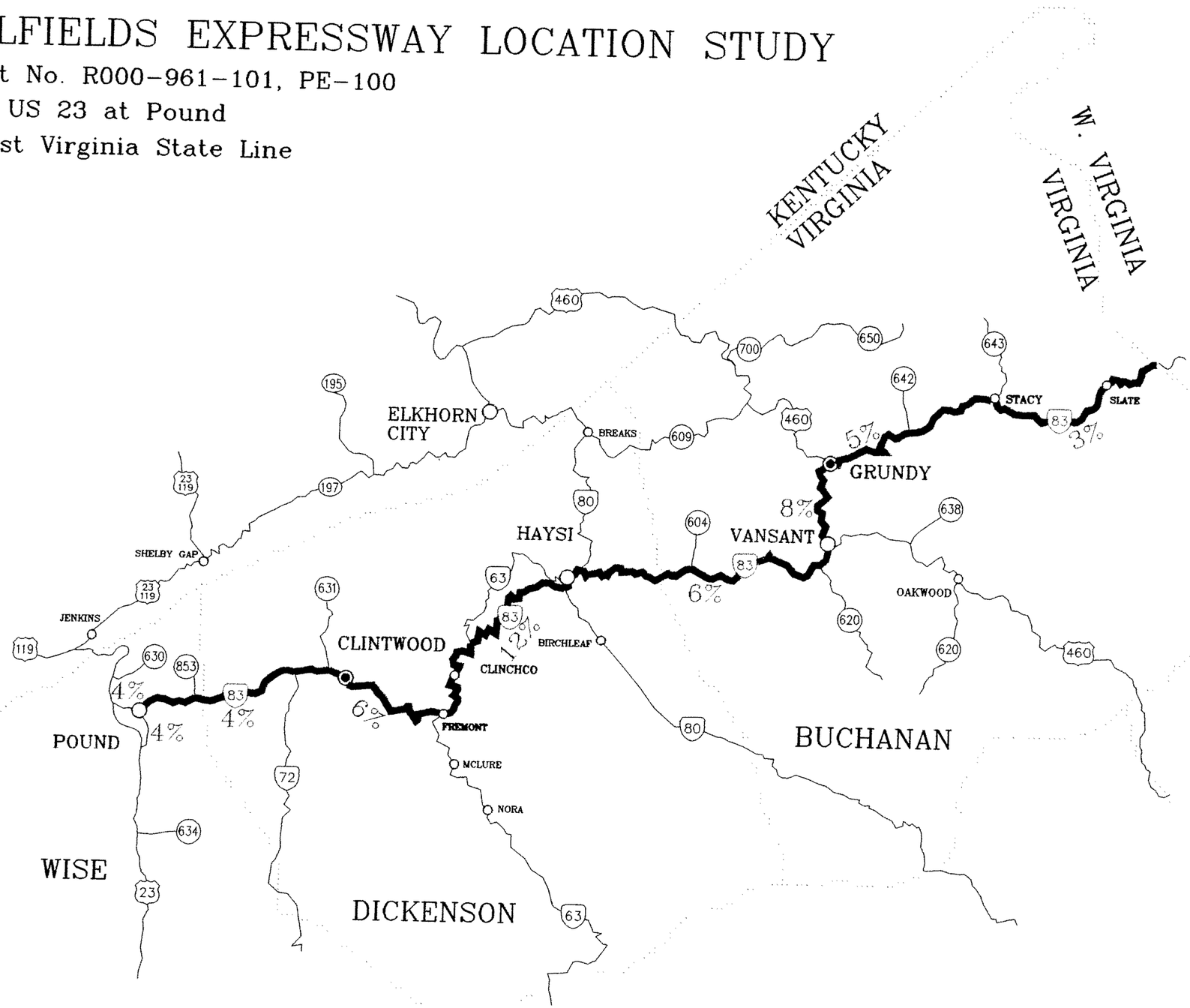

Note: Values represent the percentage of total trucks (medium and heavy) as a proportion of the average daily traffic.

PERCENT TRUCKS

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Figure 4

Approx. Scale: 1" = 4.5 miles

4.0 TRAVEL TIME/SPEED DATA

Travel time runs were made along 13 separate segments of VA 83 and 21 sections of adjacent and parallel corridors. A map showing the travel time segments can be found in Appendix E. A stopwatch was used to measure the time required to traverse the segment at the prevailing or allowable speed. The length of each segment was measured using an odometer. Several times were measured along each segment at morning, midday and evening hours. The individual travel times recorded for each segment can be found in Appendix E. The measured segment distances were divided by the travel times to determine the average speed. The travel times and average speeds between major points are presented in Table 4. Comparisons of the travel times of parallel routes in Kentucky are shown in the bottom half of Table 4. For example, the travel time from Pound to Breaks is nearly the same (56.1 minutes vs. 54.9 minutes) regardless of the route taken. The average speeds along VA 83 are shown in Figure 5. The results of the travel time runs indicate that speeds are neither direction dependent, nor time dependent (i.e., slower at some hours than others). Since the majority of the segments were two-lane facilities without passing opportunities, the resulting travel time was primarily influenced by large trucks or school buses encountered during the travel time run. The result was a queue of autos whose speed was limited by the truck or bus at the front.

Table 4. Travel Times and Average Speeds

From	To	Distance (miles)	Travel Time (minutes)	Average Speed (minutes)
Pound	Clintwood	8.7	12.1	43.1
Clintwood	Haysi (80/83)	18.9	29.0	39.1
Haysi	Grundy	17.6	31.2	33.8
Grundy	W. Virginia State Line	15.4	25.8	35.8
Pound	**W. Virginia State Line**	**60.6**	**98.1**	**37.3***

Alternate Route Comparisons

From	To	Distance (miles)	Travel Time (minutes)	Average Speed (mph)
Pound	Elkhorn City (via 23/197)	27.3	46.9	35.8*
Pound	Elkhorn City (via 83/80)	41.1	64.1	39.1*
Pound	Breaks (via 23/197/80)	32.8	56.1	35.8*
Pound	Breaks (via 83/80)	35.6	54.9	39.6*
Pound	Grundy (via 23/197/80/460)	53.8	83.5	39.7*
Pound	Grundy (via 83)	45.2	72.3	38.3*

* Average speed weighted by distance.

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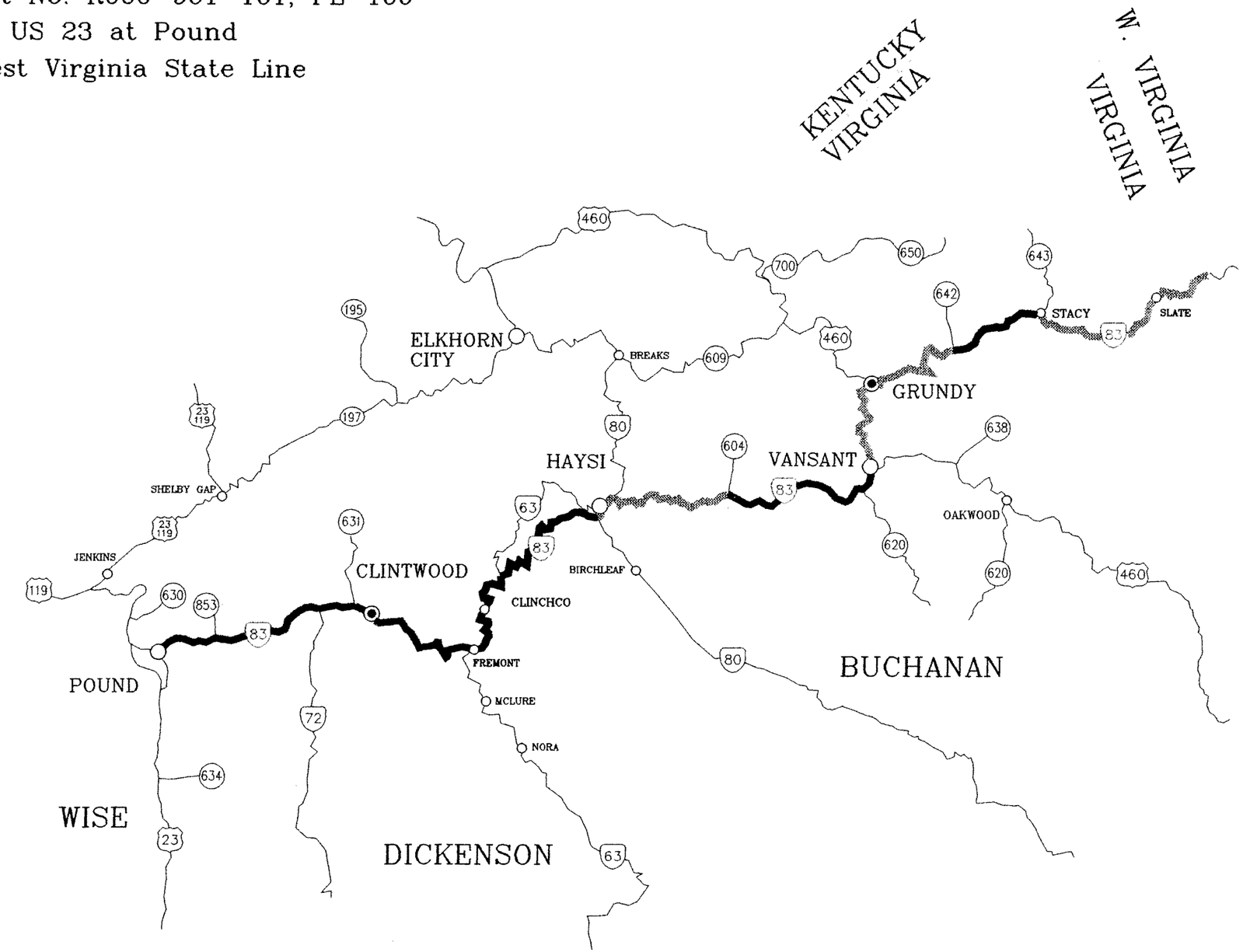

LEGEND

- 30-35 mph
- 35-40 mph
- 40-45 mph
- 45-50 mph

AVERAGE TRAVEL SPEEDS

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Figure 5

Approx. Scale:
1" = 4.5 miles

5.0 LICENSE PLATE SURVEY DATA

The license plate survey data was first assembled in a database using dBASE. The database was then converted to a spreadsheet format for further analyses. The license plates read only once, at only one of the survey stations, during the 8 hour period were first sorted out. Then, the data were arranged by license plate and the plates recorded at multiple stations were matched based on the time interval during which they were read. Our estimates of travel times from field test-runs were used as a basis to link the plates at sequential survey stations, defining a trip along the direction of survey, i.e., from east side of the corridor towards the west. If the travel time for a vehicle recorded at two neighboring stations indicated that the vehicle stopped for more than 15 minutes between those stations then the trip was not linked, i.e., two separate trips were considered. Finally, an origin-destination (O-D) trip matrix was created for all recorded trips and is presented in Table 5. This table represents trips between various survey stations only in one direction. The originating station indicates where the vehicle was recorded first and the destination station indicates where the trip terminated, i.e., was recorded last.

Table 5. Origin-Destination Trip-Matrix from License Plate Survey.

Origin (From Survey Station No.)	Destination (To Survey Station No.)								
	1	2	3	4	5	6	7	8	Total
1	633	n/a*	n/a	n/a	n/a	n/a	n/a	n/a	633
2	n/a	1479	n/a	n/a	n/a	n/a	n/a	n/a	1479
3	106	576	493	n/a	n/a	n/a	n/a	n/a	1175
4	16	102	52	667	n/a	n/a	n/a	n/a	837
5	2	11	1	19	394	n/a	n/a	n/a	427
6	0	0	0	4	59	1765	n/a	n/a	1828
7	0	2	1	9	36	n/a	1127	n/a	1175
8	2	10	3	11	150	n/a	n/a	3113	3289
Total	759	2180	550	710	639	1765	1127	3113	10843

* n/a indicates that survey was not performed for that O-D pair

Some key findings from the license plate survey are listed below.

- There is a minimal amount of traffic that traverses the study area from eastern end to the western end. Less than 0.30% (18 out of 6292 trips) of the total traffic entering the study area from the east (i.e., from SB US 460 just north of Grundy, NB US 460 just south of Vansant, and WB Route 83 just east of Grundy) was found to reach Pound. Only about 4.56% (287 trips) of the total entering traffic was recorded traveling on WB Route 83 towards Haysi, possibly going up to Route 63.

- About 5.35% (176 out of 3289 trips) of the traffic on NB US 460 just south of Vansant was found to be headed westbound on Route 83 towards Haysi or beyond.

- About 3.45% (63 out of 1828 trips) of the traffic on SB US 460 just north of Grundy was recorded to be traveling west bound on Route 83 towards Haysi or beyond.

- About 4.09% (48 out of 1175 trips) of the traffic on WB Route 83 recorded just east of Grundy was recorded to continue on WB Route 83 beyond Vansant towards Haysi or beyond.

- About 10.50% (75 out of 714) of the traffic recorded on WB Route 83 east of Haysi continued on Route 83 beyond Route 63.

- About 92.27% (394 out of 427) of the traffic originating around Vansant area does not go beyond Route 63.

- Out of 1175 trips recorded as originating around Clintwood area, about 49% (576 trips) were recorded on SB US 23, about 9% (106 trips) were found to be northbound on US 23, while about 42% (493 trips) were estimated to terminate in Pound.

- About 70% (1479 out of 2112) of the traffic originating in Pound area was found to be headed south towards SB US 23 whereas only about 30% headed north of Pound.

- An overwhelming 89.19% (9671 out of 10843 trips) of all the vehicles recorded were spotted only at one station of the study area.

Based on our analyses, it appears that a majority of the trips on US 460 are through trips, i.e., they do not go on WB Route 83 towards Haysi. Also, few trips on WB 83 from east side of Grundy continue towards Haysi or beyond. A significant portion of the traffic originating in Pound or Clintwood area appears to be traveling southbound towards the Town of Wise or beyond on SB US 23. More traffic activity occurs near the east and west ends of the study area than in the middle and through the corridor.

6.0 ACCIDENT DATA

Accident records were obtained from the Virginia Department of Transportation (VDOT) by Hayes, Seay, Mattern & Mattern. Records were received for accidents occurring on VA 83 from Pound to the West Virginia State Line and the business loop of US 23 serving Pound. All accidents reported between January 1, 1994 and May 31, 1997 were retrieved by VDOT personnel. The accident records are classified by collision type, severity, weather condition, surface condition, and time of day, among others. VDOT reported an accident rate of 153 per million vehicles miles traveled on VA 83 (1994), a value noted to be slightly above the State average. Should additional accident data be required, BMI will contact VDOT staff. Further analysis of the accident data will occur in Task 2.

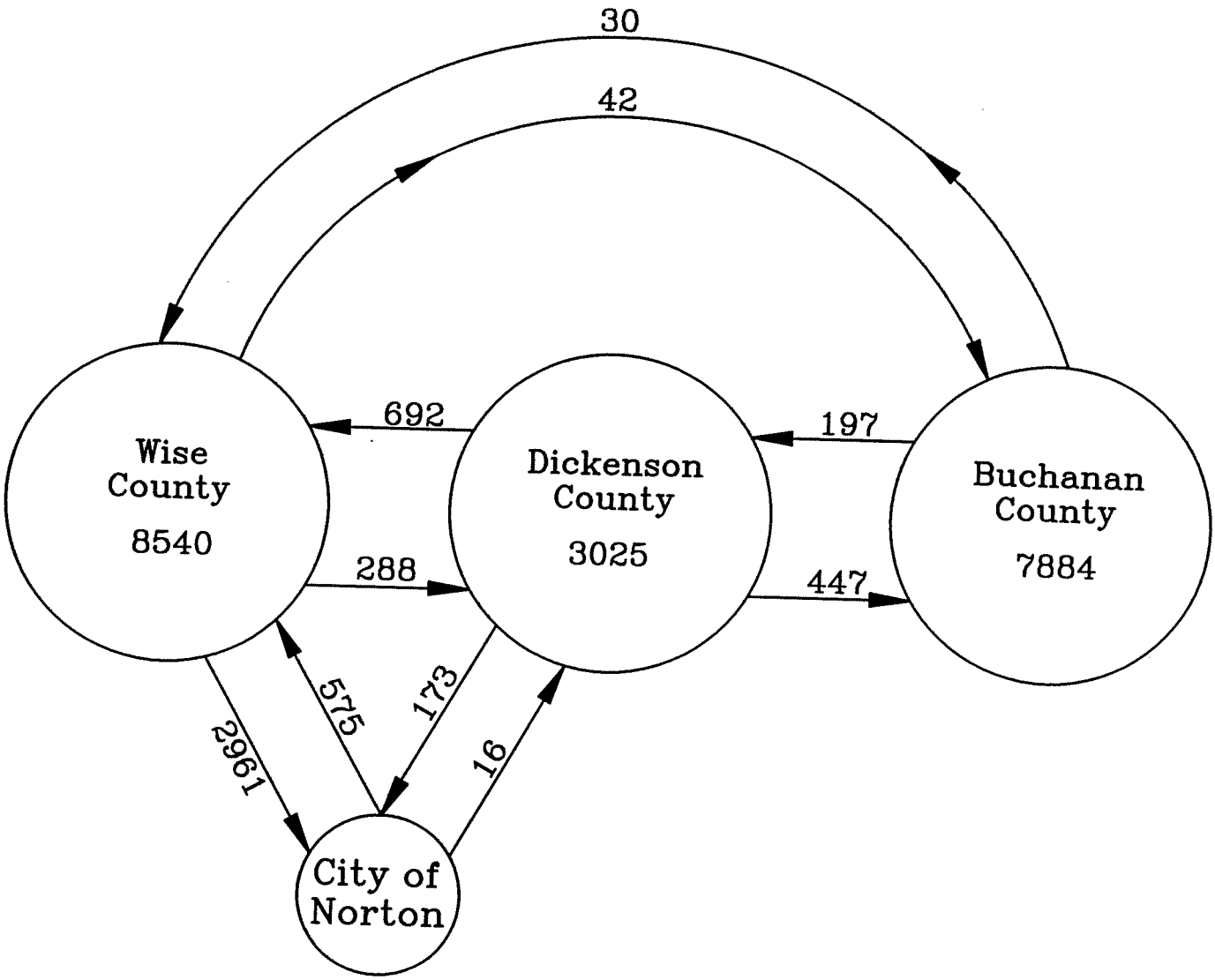
7.0 CENSUS DATA

To further examine existing traffic patterns in the study area, BMI accessed the 1990 U.S. Census Transportation Planning Package (CTPP) and obtained "Journey to Work" information. These data are based on a person's listed residence and location of employment at the time of the Census. The CTTP Journey to Work data for the Coalfields Expressway Corridor is described in Table 6. Figure 6 illustrates the commuting patterns between and within Wise, Dickenson, and Buchanan Counties. The values shown in Table 6 and Figure 6 are the number of people who live in one area (i.e., the origin) and had their place of work in another area (i.e., the destination) during the week the Census was taken. For example, Table 6 shows that 8,540 people stated that they both live and work in Wise County. Similarly, 173 people said they lived in Dickenson County and worked in the City of Norton. As the values in bold indicate, the majority of persons live and work within the same county. Only a small number of commuters (about 120) cross the entire study corridor. It is important to note that these numbers represent person-trips. The corresponding number of vehicle-trips is less than this number due to ride sharing and car pools. This also excludes those who were on vacation or did not complete a Census form. The "Other" category represents those people either living or working outside the listed areas at the time of the Census.

Table 6. Summary of Journey to Work Trips from Census Data

Destinations (Place of Work)	Origins (Place of Residence)							
	Wise County	Dickenson County	Buchanan County	City of Norton	West Virginia	Kentucky	VA* NC TN	Other
Wise County	**8540**	692	30	575	26	310	**2464**	415
Dickenson County	288	**3025**	197	16	55	16	408	0
Buchanan County	42	447	**7884**	0	575	323	**2478**	7
City of Norton	**2961**	173	0	821	18	136	x	x
W. Virginia	9	27	227	0	x	x	x	x
Kentucky	265	109	342	11	x	x	x	x
VA,NC,TN*	983	394	786	x	x	x	x	x
Other	57	13	19	x	x	x	x	x

* VA (Virginia), NC (North Carolina), TN (Tennessee)



INTERNAL JTW TRIPS

BELLOMO–McGEE, INC. BMI

8330 Boone Boulevard–Suite 700
Vienna, Virginia 22182
703 / 847–3071

Figure 6

APPENDIX A

LINK TUBE COUNTS

ather :SUNNY/DRY
unted by:CHI ASSOC., INC.
Board / :406
other :

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-1
Start Date: 08/19/9
File I.D. : T1_F1
Page : 1

reet name :US 23 BUSINESS - (NORTH OF POUND) N/S

Begin Time	<------ NB A.M.		------> P.M.		<------ SB A.M.		------> P.M.		<------Combined A.M.		------> P.M.		Tuesday
:00 08/19	2		25		3		13		5		38		
:15	1		20		2		9		3		29		
12:30	2		23		3		11		5		34		
:45	2	7	24	92	3	11	15	48	5	18	39	140	
:00	2		11		1		13		3		24		
01:15	1		18		2		6		3		24		
01:30	1		22		2		21		3		43		
:45	5	9	23	74	1	6	13	53	6	15	36	127	
:00	7		19		5		16		12		35		
02:15	0		11		2		13		2		24		
:30	2		16		5		7		7		23		
:45	0	9	15	61	2	14	15	51	2	23	30	112	
03:00	2		27		0		12		2		39		
03:15	0		17		3		14		3		31		
:30	0		38		5		14		5		52		
:45	5	7	25	107	4	12	14	54	9	19	39	161	
04:00	1		22		1		9		2		31		
:15	2		20		1		27		3		47		
:30	1		30		3		10		4		40		
04:45	7	11	28	100	1	6	29	75	8	17	57	175	
05:00	8		31		4		13		12		44		
5:15	5		29		5		17		10		46		
05:30	6		25		7		15		13		40		
05:45	6	25	29	114	5	21	13	58	11	46	42	172	
6:00	12		26		7		16		19		42		
6:15	10		16		16		18		26		34		
06:30	13		18		26		15		39		33		
06:45	11	46	19	79	13	62	12	61	24	108	31	140	
7:00	19		23		14		13		33		36		
07:15	8		17		6		19		14		36		
07:30	10		14		15		13		25		27		
07:45	21	58	16	70	24	59	9	54	45	117	25	124	
08:00	12		14		13		12		25		26		
08:15	14		20		14		15		28		35		
08:30	24		16		17		20		41		36		
08:45	16	66	16	66	10	54	8	55	26	120	24	121	
09:00	10		4		19		9		29		13		
09:15	16		6		7		14		23		20		
09:30	13		14		20		10		33		24		
09:45	25	64	5	29	8	54	7	40	33	118	12	69	
10:00	8		7		14		11		22		18		
10:15	17		3		11		6		28		9		
10:30	15		2		15		4		30		6		
10:45	25	65	6	18	18	58	5	26	43	123	11	44	
11:00	15		4		19		2		34		6		
11:15	24		7		17		6		41		13		
11:30	22		3		16		6		38		9		
11:45	15	76	1	15	5	57	6	20	20	133	7	35	
Totals	443		825		414		595		857		1420		
Day Totals		1268				1009				2277			
Split %	51.6%		58.1%		48.3%		41.9%						
Peak Hour	10:45		04:30		10:45		04:15		10:45		04:15		
Volume	86		118		70		79		156		188		
P.H.F.	.86		.95		.92		.68		.90		.82		

Weather :SUNNY/DRY
Counted by:CHI ASSOC., INC.
Board # :406
Other :

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-1
Start Date: 08/19/
File I.D. : T1_F1
Page : 2

Street name :US 23 BUSINESS - (NORTH OF POUND)

Begin Time	<------ NB		------>		<------ SB		------>		N/S <------Combined		------>		Wednesday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
12:00 08/20	3		23		6		20		9		43		
12:15	6		21		3		20		9		41		
12:30	2		22		0		23		2		45		
12:45	1	12	23	89	1	10	13	76	2	22	36	165	
01:00	0		17		4		27		4		44		
01:15	0		21		0		18		0		39		
01:30	2		20		2		22		4		42		
01:45	1	3	24	82	2	8	16	83	3	11	40	165	
02:00	2		15		3		17		5		32		
02:15	0		16		0		11		0		27		
02:30	1		24		0		15		1		39		
02:45	2	5	23	78	0	3	14	57	2	8	37	135	
03:00	1		23		0		25		1		48		
03:15	3		22		3		29		6		51		
03:30	1		32		3		23		4		55		
03:45	1	6	24	101	0	6	20	97	1	12	44	198	
04:00	1		32		0		13		1		45		
04:15	1		30		1		21		2		51		
04:30	5		22		4		25		9		47		
04:45	5	12	35	119	2	7	23	82	7	19	58	201	
05:00	6		30		7		30		13		60		
05:15	7		22		3		19		10		41		
05:30	3		28		2		23		5		51		
05:45	18	34	31	111	4	16	16	88	22	50	47	199	
06:00	8		19		1		21		9		40		
06:15	11		21		10		11		21		32		
06:30	14		20		24		18		38		38		
06:45	13	46	20	80	13	48	18	68	26	94	38	148	
07:00	10		22		6		14		16		36		
07:15	9		12		10		20		19		32		
07:30	17		12		11		13		28		25		
07:45	17	53	14	60	18	45	18	65	35	98	32	125	
08:00	14		13		30		22		44		35		
08:15	19		14		13		14		32		28		
08:30	12		19		22		14		34		33		
08:45	13	58	10	56	12	77	15	65	25	135	25	121	
09:00	18		12		18		3		36		15		
09:15	10		12		9		16		19		28		
09:30	15		10		18		12		33		22		
09:45	17	60	12	46	14	59	10	41	31	119	22	87	
10:00	11		9		18		7		29		16		
10:15	14		2		24		5		38		7		
10:30	17		2		16		2		33		4		
10:45	18	60	5	18	18	76	8	22	36	136	13	40	
11:00	29		4		14		6		43		10		
11:15	23		4		14		10		37		14		
11:30	13		3		24		2		37		5		
11:45	22	87	3	14	15	67	9	27	37	154	12	41	
Totals	436		854		422		771		858		1625		
Day Totals		1290				1193				2483			
Split %	50.8%		52.5%		49.1%		47.4%						
Peak Hour	10:30		04:00		07:45		04:15		11:00		04:15		
Volume	87		119		83		99		154		216		
P.H.F.	.75		.85		.69		.82		.89		.9		

NHY/DRY
unted by:CHI ASSOC., INC.
Board # :202
ber :
reet name :US 23 BUSINESS (SOUTH OF POUND) N/S

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-2
Start Date: 08/19/9
File I.D. : T2_P1

Tuesday

Begin Time	<------ NB ------>				<------ SB ------>				<------Combined ------>			
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
:00 08/19	7		51		12		79		19		130	
12:15	11		50		3		49		14		99	
12:30	5		52		5		54		10		106	
:45	15	38	41	194	5	25	48	230	20	63	89	424
:00	4		50		4		63		8		113	
01:15	6		50		2		63		8		113	
:30	8		71		5		62		13		133	
:45	5	23	82	253	3	14	47	235	8	37	129	488
02:00	6		58		4		73		10		131	
2:15	8		60		4		91		12		151	
:30	8		61		9		96		17		157	
02:45	2	24	38	217	3	20	87	347	5	44	125	564
03:00	10		61		2		82		12		143	
:15	8		87		2		82		10		169	
:30	5		76		3		108		8		184	
03:45	4	27	101	325	1	8	102	374	5	35	203	699
:00	5		73		2		53		7		126	
:15	1		81		4		54		5		135	
04:30	1		86		12		52		13		138	
04:45	10	17	104	344	19	37	61	220	29	54	165	564
5:00	7		82		22		81		29		163	
5:15	11		101		19		108		30		209	
05:30	26		88		16		53		42		141	
5:45	17	61	73	344	46	103	45	287	63	164	118	631
6:00	19		61		44		37		63		98	
06:15	29		58		42		46		71		104	
06:30	37		62		54		46		91		108	
6:45	31	116	65	246	33	173	40	169	64	289	105	415
7:00	29		48		37		36		66		84	
07:15	42		36		56		23		98		59	
7:30	44		32		132		30		176		62	
7:45	44	159	34	150	108	333	17	106	152	492	51	256
08:00	39		32		140		26		179		58	
08:15	37		40		114		27		151		67	
8:30	37		42		72		29		109		71	
08:45	40	153	33	147	46	372	29	111	86	525	62	258
09:00	40		34		52		21		92		55	
9:15	35		27		57		22		92		49	
9:30	34		38		64		9		98		47	
09:45	34	143	20	119	59	232	14	66	93	375	34	185
10:00	38		24		41		17		79		41	
10:15	40		17		50		14		90		31	
10:30	46		24		61		18		107		42	
10:45	55	179	16	81	58	210	7	56	113	389	23	137
11:00	49		21		62		7		111		28	
11:15	60		18		48		4		108		22	
11:30	58		23		64		3		122		26	
11:45	60	227	18	80	47	221	4	18	107	448	22	98
Totals	1167		2500		1748		2219		2915		4719	
Day Totals		3667				3967				7634		
Split %	40.0%		52.9%		59.9%		47.0%					

Peak Hour	11:00	04:45	07:30	03:00	07:30	03:00
Volume	227	375	494	374	658	699
P.H.F.	.94	.90	.88	.86	.91	.86

MNY/DRY
unted by:CHI ASSOC., INC.
Board / :202
^ther :
reet name :US 23 BUSINESS (SOUTH OF POUND) N/S

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-2
Start Date: 08/19/9
File I.D. : T2_P1

Wednesday

Begin Time	<------ A.M.		------> P.M.		<------ A.M.		------> P.M.		<------Combined A.M.		------> P.M.	
:00 08/20	19		69		6		76		25		145	
:15	13		49		2		56		15		105	
12:30	15		53		1		72		16		125	
:45	9	56	57	228	3	12	56	260	12	68	113	488
:00	7		67		4		56		11		123	
01:15	3		59		1		57		4		116	
01:30	6		59		4		64		10		123	
:45	10	26	58	243	2	11	78	255	12	37	136	498
02:00	8		65		6		58		14		123	
02:15	8		71		0		65		8		136	
:30	3		69		1		69		4		138	
:45	4	23	60	265	3	10	63	255	7	33	123	520
03:00	11		66		4		86		15		152	
3:15	11		69		5		66		16		135	
:30	5		82		3		106		8		188	
03:45	2	29	76	293	1	13	81	339	3	42	157	632
04:00	1		80		3		65		4		145	
4:15	5		88		4		53		9		141	
4:30	5		91		17		56		22		147	
04:45	3	14	91	350	14	38	61	235	17	52	152	585
5:00	4		84		13		52		17		136	
5:15	16		100		16		62		32		162	
05:30	13		85		22		54		35		139	
5:45	6	39	76	345	33	84	46	214	39	123	122	559
6:00	17		85		59		51		76		136	
06:15	31		77		38		32		69		109	
06:30	31		46		55		43		86		89	
6:45	27	106	58	266	43	195	31	157	70	301	89	423
7:00	21		40		41		33		62		73	
07:15	33		39		75		34		108		73	
7:30	46		46		91		41		137		87	
7:45	62	162	38	163	114	321	26	134	176	483	64	297
08:00	52		43		125		26		177		69	
08:15	29		41		121		22		150		63	
8:30	43		34		77		25		120		59	
8:45	34	158	21	139	58	381	18	91	92	539	39	230
09:00	41		36		67		25		108		61	
9:15	48		28		75		15		123		43	
9:30	38		25		80		24		118		49	
09:45	37	164	28	117	65	287	17	81	102	451	45	198
10:00	37		31		88		22		125		53	
10:15	46		24		63		10		109		34	
10:30	54		12		73		11		127		23	
10:45	45	182	16	83	52	276	5	48	97	458	21	131
11:00	66		20		60		8		126		28	
11:15	56		26		57		6		113		32	
11:30	58		31		65		2		123		33	
11:45	62	242	22	99	87	269	9	25	149	511	31	124
Totals	1201		2591		1897		2094		3098		4685	
Day Totals		3792				3991				7783		
Split %	38.7%		55.3%		61.2%		44.7%					

Peak Hour	11:00	04:30	07:30	03:00	07:30	03:00
Volume	242	366	451	339	640	632
P.H.F.	.91	.91	.90	.79	.90	.84

tner :SUNNY/DRY
nted by:CHI ASSOC., INC.
rd / :405
er :

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-3
Start Date: 08/19/97
File I.D. : T3_F1

eet name :VA 83 @ WISE/DICKENSON COUNTY LINE E/W

In	<------ EB		------><------ WB		------><------Combined		------>		Tuesday
e	A.M.		P.M.		A.M.		P.M.		
00 08/19	7		42		5		44		12		86	
15	10		37		2		49		12		86	
30	5		43		3		33		8		76	
45	3	25	38	160	3	13	45	171	6	38	83	331
00	10		29		1		47		11		76	
15	3		20		2		54		5		74	
30	4		49		4		52		8		101	
45	4	21	47	145	7	14	39	192	11	35	86	337
00	5		43		4		41		9		84	
15	5		56		0		51		5		107	
:30	4		52		3		44		7		96	
:45	1	15	52	203	3	10	47	183	4	25	99	386
:00	2		33		1		54		3		87	
:15	12		44		3		51		15		95	
:30	8		83		4		43		12		126	
:45	20	42	69	229	3	11	36	184	23	53	105	413
:00	5		50		3		42		8		92	
:15	6		58		7		42		13		100	
:30	3		57		21		37		24		94	
:45	9	23	68	233	8	39	44	165	17	62	112	398
:00	10		66		13		57		23		123	
:15	15		71		25		39		40		110	
:30	24		65		32		35		56		100	
:45	23	72	54	256	37	107	27	158	60	179	81	414
:00	28		44		40		43		68		87	
:15	22		45		49		33		71		78	
:30	17		47		52		33		69		80	
:45	21	88	42	178	34	175	25	134	55	263	67	312
:00	33		30		38		23		71		53	
:15	35		29		50		13		85		42	
:30	46		25		73		28		119		53	
:45	35	149	30	114	53	214	18	82	88	363	48	196
:00	35		18		67		17		102		35	
:15	31		26		53		14		84		40	
:30	31		24		36		17		67		41	
:45	49	146	12	80	44	200	19	67	93	346	31	147
:00	34		24		35		14		69		38	
:15	18		18		55		12		73		30	
:30	28		15		44		7		72		22	
:45	29	109	19	76	36	170	17	50	65	279	36	126
:00	23		19		43		11		66		30	
:15	15		21		39		13		54		34	
:30	33		14		43		3		76		17	
:45	40	111	12	66	29	154	8	35	69	265	20	101
:00	41		13		31		5		72		18	
:15	43		13		52		2		95		15	
:30	39		16		43		2		82		18	
:45	38	161	15	57	51	177	1	10	89	338	16	67
otals	962		1797		1284		1431		2246		3228	
ay Totals		2759				2715				5474		
plit %	42.8%		55.6%		57.1%		44.3%					

eak Hour	10:45	04:45	07:30	00:45	07:15	04:45
olume	163	270	246	198	394	445
.H.F.	.94	.95	.84	.91	.82	.90

ier :SUNNY/DRY
ıced by:CHI ASSOC., INC.
ırd # :405
:

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-3
Start Date: 08/19/97
File I.D. : T3_F1

:t name :VA 83 @ WISE/DICKENSON COUNTY LINE E/W

ıin	<------ EB ------>				<------ WB ------>				<------Combined ------>				Wednesday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
) 08/20	16		48		0		45		16		93		
15	11		44		3		46		14		90		
30	6		28		0		61		6		89		
;	10	43	45	165	2	5	34	186	12	48	79	351	
30	4		39		1		47		5		86		
15	8		38		1		34		9		72		
)	4		44		0		40		4		84		
;	3	19	38	159	4	6	65	186	7	25	103	345	
00	10		44		5		44		15		88		
5	5		48		0		43		5		91		
)	3		47		1		35		4		82		
:45	3	21	52	191	3	9	37	159	6	30	89	350	
:00	1		39		4		45		5		84		
;	9		54		5		58		14		112		
30	5		69		3		43		8		112		
:45	6	21	65	227	1	13	52	198	7	34	117	425	
)	0		47		6		37		6		84		
5	6		71		12		47		18		118		
:30	2		70		9		45		11		115		
45	6	14	76	264	13	40	42	171	19	54	118	435	
0	6		57		9		46		15		103		
:15	13		83		20		40		33		123		
:30	11		57		27		25		38		82		
5	14	44	66	263	42	98	37	148	56	142	103	411	
0	20		50		36		33		56		83		
:15	17		54		36		25		53		79		
0	24		53		68		30		92		83		
5	14	75	34	191	38	178	28	116	52	253	62	307	
:00	17		31		23		31		40		62		
:15	27		25		56		28		83		53		
0	33		21		45		24		78		45		
5	43	120	20	97	50	174	14	97	93	294	34	194	
:00	43		23		55		21		98		44		
5	29		22		44		12		73		34		
0	34		24		55		13		89		37		
:45	24	130	24	93	38	192	15	61	62	322	39	154	
00	31		14		47		25		78		39		
5	38		19		49		10		87		29		
:30	31		23		59		15		90		38		
:45	25	125	17	73	41	196	26	76	66	321	43	149	
0	27		14		52		13		79		27		
15	20		15		55		10		75		25		
:30	48		16		36		4		84		20		
45	36	131	12	57	40	183	8	35	76	314	20	92	
0	33		13		46		3		79		16		
:15	33		24		45		3		78		27		
:30	39		20		51		7		90		27		
45	40	145	23	80	53	195	11	24	93	340	34	104	
als	888		1860		1289		1457		2177		3317		
y Totals		2748				2746				5494			
it %	40.7%		56.0%		59.2%		43.9%						
ak Hour	10:30		04:30		09:30		03:00		07:45		04:30		
ılume	150		286		207		198		353		459		
.F.	.78		.86		.87		.85		.90		.93		

/DRY
SSOC., INC.

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-4
Start Date: 08/19/97
File I.D. : T4_F1

:

t name :VA 83 BETWEEN SR 779 AND SR 664 E/W Page : 1

in	<------WESTBOUND------>				<------EASTBOUND------>				<------Combined------>				Tuesday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
08/19	5		22		2		25		7		47		
	7		42		1		25		8		67		
30	3		24		1		35		4		59		
	3	18	26	114	1	5	31	116	4	23	57	230	
	1		42		1		28		2		70		
15	2		23		0		19		2		42		
	1		31		6		45		7		76		
	1	5	30	126	2	9	33	125	3	14	63	251	
00	1		42		7		19		8		61		
15	1		38		0		28		1		66		
	0		36		1		43		1		79		
45	4	6	36	152	0	8	40	130	4	14	76	282	
00	0		33		1		36		1		69		
	1		28		4		23		5		51		
	4		42		0		27		4		69		
:45	6	11	48	151	0	5	32	118	6	16	80	269	
	2		51		1		24		3		75		
	19		37		3		28		22		65		
:30	6		41		7		31		13		72		
:45	9	36	42	171	3	14	24	107	12	50	66	278	
	6		35		13		23		19		58		
.15	17		57		5		21		22		78		
:30	12		33		12		19		24		52		
5	11	46	42	167	4	34	16	79	15	80	58	246	
0	14		34		23		20		37		54		
:15	25		22		26		18		51		40		
0	16		18		31		14		47		32		
5	17	72	18	92	14	94	17	69	31	166	35	161	
:00	26		20		17		19		43		39		
:15	24		29		36		13		60		42		
0	24		21		44		20		68		41		
.5	50	124	27	97	29	126	5	57	79	250	32	154	
:00	27		18		31		12		58		30		
15	28		16		29		19		57		35		
30	16		13		32		13		48		26		
:45	32	103	15	62	25	117	17	61	57	220	32	123	
:00	22		16		38		14		60		30		
15	42		10		23		8		65		18		
.30	38		13		27		5		65		18		
:45	33	135	12	51	18	106	8	35	51	241	20	86	
00	29		6		28		11		57		17		
15	23		10		25		3		48		13		
:30	19		11		31		9		50		20		
:45	43	114	8	35	38	122	11	34	81	236	19	69	
00	29		7		25		0		54		7		
.15	31		4		16		2		47		6		
1:30	40		2		24		4		64		6		
45	42	142	10	23	25	90	1	7	67	232	11	30	
als	812		1241		730		938		1542		2179		
ay Totals		2053				1668				3721			
plit %	52.6%		56.9%		47.3%		43.0%						
eak Hour	10:45		03:30		07:15		02:15		07:15		03:45		
olume	143		178		140		147		265		292		
H.F.	.83		.87		.79		.85		.83		.91		

ssoc., Inc.

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-4
Start Date: 08/19/97
File I.D. : T4_F1

er :
t name :VA 83 BETWEEN SR 779 AND SR 664 E/W Page : 2

	<------ WESTBOUND				------><------EAST BOUND				------><------Combined				------> Wednesday
e	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
) 08/20	7		36		0		29		7		65		
5	5		25		1		29		6		54		
30	3		31		1		39		4		70		
45	3	18	31	123	0	2	27	124	3	20	58	247	
0	3		36		3		28		6		64		
5	1		22		1		27		2		49		
30	3		29		4		28		7		57		
5	1	8	37	124	0	8	30	113	1	16	67	237	
0	2		29		1		20		3		49		
:15	1		36		3		23		4		59		
:30	2		22		1		37		3		59		
5	0	5	46	133	1	6	30	110	1	11	76	243	
0	2		47		0		32		2		79		
:15	1		24		2		24		3		48		
0	3		43		2		42		5		85		
5	1	7	40	154	0	4	24	122	1	11	64	276	
:00	3		52		1		34		4		86		
:15	5		37		3		20		8		57		
0	2		45		3		18		5		63		
:45	4	14	43	177	10	17	10	82	14	31	53	259	
:00	3		42		10		30		13		72		
5	9		37		9		17		18		54		
0	12		52		9		22		21		74		
:45	19	43	43	174	8	36	16	85	27	79	59	259	
0	14		30		17		25		31		55		
15	14		25		22		24		36		49		
:30	9		42		23		19		32		61		
:45	27	64	21	118	18	80	20	88	45	144	41	206	
00	24		15		15		15		39		30		
.15	21		17		38		20		59		37		
:30	32		16		31		9		63		25		
45	46	123	26	74	34	118	19	63	80	241	45	137	
00	15		21		39		13		54		34		
:15	30		11		27		17		57		28		
:30	24		13		34		14		58		27		
45	24	93	8	53	31	131	12	56	55	224	20	109	
:00	34		12		34		16		68		28		
:15	36		8		22		8		58		16		
30	25		12		28		6		53		18		
:45	40	135	13	45	29	113	6	36	69	248	19	81	
0:00	33		10		19		9		52		19		
:15	26		8		25		3		51		11		
:30	29		14		21		8		50		22		
0:45	25	113	10	42	37	102	2	22	62	215	12	64	
:00	40		5		26		4		66		9		
:15	30		8		28		1		58		9		
:30	23		5		20		2		43		7		
1:45	38	131	10	28	20	94	2	9	58	225	12	37	
tals	754		1245		711		910		1465		2155		
y Totals		1999				1621				3620			
plit %	51.4%		57.7%		48.5%		42.2%						
ak Hour	09:00		04:00		07:15		02:45		07:15		03:30		
olume	135		177		142		128		256		292		
P.H.F.	.84		.85		.91		.76		.8		.84		

ed by: CHI ASSOC., INC.
/ :305
:
t name :VA 83 @ PRATER

WOOD FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-5
Start Date: 08/18/97
File I.D. : 5T_PADJ

E/W

	<------ WB ------>				<------ EB ------>				<------Combined ------>				Monday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
08/18	1		35		1		26		2		61		
	6		17		0		9		6		26		
	3		29		2		29		5		58		
	2	12	19	100	2	5	24	88	4	17	43	188	
	1		17		2		35		3		52		
	0		27		3		20		3		47		
	2		25		0		25		2		50		
	3	6	22	91	1	6	23	103	4	12	45	194	
	0		14		0		20		0		34		
	2		19		2		18		4		37		
	0		29		0		27		0		56		
	0	2	14	76	1	3	26	91	1	5	40	167	
	1		16		0		32		1		48		
	2		15		5		38		7		53		
	3		19		0		25		3		44		
	3	9	22	72	2	7	31	126	5	16	53	198	
	5		20		2		31		7		51		
	8		17		6		26		14		43		
	7		20		2		28		9		48		
	12	32	18	75	3	13	41	126	15	45	59	201	
	8		22		7		30		15		52		
	12		19		4		52		16		71		
	18		10		3		36		21		46		
	21	59	15	66	3	17	28	146	24	76	43	212	
	10		13		4		28		14		41		
	23		18		13		25		36		43		
	19		15		10		17		29		32		
	24	76	8	54	15	42	21	91	39	118	29	145	
	37		9		24		16		61		25		
	27		15		18		27		45		42		
	36		8		15		10		51		18		
	37	137	10	42	19	76	20	73	56	213	30	115	
	32		12		15		16		47		28		
	23		9		27		12		50		21		
	31		14		14		12		45		26		
	25	111	12	47	12	68	9	49	37	179	21	96	
	21		3		26		16		47		19		
	24		8		16		9		40		17		
	18		7		23		6		41		13		
	13	76	11	29	16	81	8	39	29	157	19	68	
	20		3		16		2		36		5		
	22		5		17		6		39		11		
	27		7		24		9		51		16		
	21	90	3	18	21	78	5	22	42	168	8	40	
	18		8		25		4		43		12		
	29		5		20		1		49		6		
	16		7		25		8		41		15		
	25	88	0	20	22	92	4	17	47	180	4	37	
tals	698		690		488		971		1186		1661		
y Totals		1388				1459				2847			
lit %	58.8%		41.5%		41.1%		58.4%						

ak Hour	07:00	00:00	11:00	04:45	07:00	04:30
lume	137	100	92	159	213	230
H.F.	.92	.71	.92	.76	.87	.80

ted by: CHI ASSOC., INC.
ard / :305
her :
eet name :VA 83 @ PRATER

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-5
Start Date: 08/18/97
File I.D. : 5T_FADJ

E/W

Tuesday

n	<------ WB		------><------ EB		------><------Combined		------>				
me	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
00 08/19	0		26		5		46		5		72	
15	3		21		1		40		4		61	
:30	0		18		2		17		2		35	
:45	1	4	23	88	1	9	30	133	2	13	53	221
00	2		23		1		27		3		50	
.15	0		27		1		26		1		53	
:30	2		18		3		34		5		52	
45	0	4	27	95	2	7	17	104	2	11	44	199
00	2		23		1		18		3		41	
2:15	0		21		2		18		2		39	
30	1		30		0		26		1		56	
45	0	3	15	89	1	4	33	95	1	7	48	184
3:00	3		18		0		39		3		57	
3:15	0		16		0		27		0		43	
30	1		18		2		32		3		50	
.45	6	10	23	75	3	5	30	128	9	15	53	203
4:00	5		21		3		27		8		48	
15	6		16		0		29		6		45	
30	15		21		5		42		20		63	
4:45	15	41	19	77	1	9	29	127	16	50	48	204
5:00	6		23		5		53		11		76	
15	10		20		7		37		17		57	
5:30	15		9		5		29		20		38	
5:45	16	47	16	68	12	29	29	148	28	76	45	216
:00	17		14		6		23		23		37	
:15	23		19		4		18		27		37	
6:30	26		16		9		22		35		38	
:45	18	84	7	56	7	26	17	80	25	110	24	136
:00	32		10		24		28		56		38	
7:15	29		16		12		11		41		27	
7:30	35		9		14		19		49		28	
:45	33	129	11	46	14	64	17	75	47	193	28	121
:00	33		13		14		13		47		26	
08:15	30		10		25		13		55		23	
:30	28		14		17		10		45		24	
:45	13	104	13	50	21	77	17	53	34	181	30	103
09:00	16		5		21		1		37		6	
09:15	19		9		17		7		36		16	
:30	17		8		12		10		29		18	
:45	14	66	12	34	15	65	3	21	29	131	15	55
10:00	24		4		23		7		47		11	
:15	21		7		16		11		37		18	
:30	20		5		10		6		30		11	
10:45	22	87	3	19	18	67	5	29	40	154	8	48
11:00	15		1		4		4		19		5	
1:15	16		7		28		1		44		8	
11:30	15		5		9		8		24		13	
11:45	22	68	8	21	10	51	4	17	32	119	12	38
otals	647		718		413		1010		1060		1728	
ay Totals		1365				1423				2788		
Split %	61.0%		41.5%		38.9%		58.4%					
eak Hour	07:30		01:45		08:15		04:30		07:30		04:30	
Volume	131		101		84		161		198		244	
P.H.F.	.93		.84		.84		.75		.9		.80	

ASSOC., INC.

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-6
Start Date: 08/19/97
File I.D. : T6_F1
Page : 1

Tuesday

Sheet name :VA 83/US 460 BETWEEN VANSANT & GRUNDY N/S

Begin Time	NB A.M.		NB P.M.		SB A.M.		SB P.M.		Combined A.M.		Combined P.M.	
00 08/19	8		128		6		126		14		254	
15	13		130		3		108		16		238	
2:30	11		134		10		108		21		242	
45	6	38	169	561	6	25	107	449	12	63	276	1010
00	11		143		7		100		18		243	
1:15	4		122		2		105		6		227	
1:30	9		144		5		102		14		246	
45	15	39	141	550	7	21	106	413	22	60	247	963
00	5		129		1		117		6		246	
2:15	3		140		2		104		5		244	
30	5		124		2		134		7		258	
45	1	14	155	548	3	8	122	477	4	22	277	1025
03:00	4		168		7		109		11		277	
3:15	3		138		3		126		6		264	
:30	10		158		9		134		19		292	
3:45	5	22	148	612	5	24	121	490	10	46	269	1102
04:00	10		129		2		129		12		258	
:15	8		118		3		129		11		247	
:30	14		128		8		117		22		245	
04:45	14	46	162	537	10	23	124	499	24	69	286	1036
05:00	29		170		15		140		44		310	
:15	25		148		25		149		50		297	
05:30	38		121		14		103		52		224	
05:45	39	131	127	566	29	83	108	500	68	214	235	1066
:00	39		132		26		79		65		211	
:15	46		117		40		89		86		206	
06:30	55		113		60		55		115		168	
:45	64	204	105	467	48	174	86	309	112	378	191	776
:00	50		90		37		73		87		163	
07:15	81		66		56		76		137		142	
07:30	136		86		74		54		210		140	
:45	184	451	69	311	79	246	55	258	263	697	124	569
08:00	139		74		95		61		234		135	
08:15	176		75		97		68		273		143	
8:30	137		70		84		65		221		135	
8:45	148	600	51	270	96	372	50	244	244	972	101	514
09:00	115		62		93		45		208		107	
9:15	104		43		105		26		209		69	
9:30	108		37		102		24		210		61	
09:45	104	431	35	177	90	390	31	126	194	821	66	303
10:00	97		32		100		20		197		52	
10:15	90		33		92		20		182		53	
10:30	133		17		91		31		224		48	
10:45	118	438	19	101	97	380	12	83	215	818	31	184
11:00	131		23		96		18		227		41	
11:15	123		20		97		21		220		41	
11:30	130		22		127		13		257		35	
11:45	129	513	11	76	154	474	14	66	283	987	25	142
Totals	2927		4776		2220		3914		5147		8690	
Day Totals		7703				6134				13837		
Split %	56.8%		54.9%		43.1%		45.0%					
Peak Hour	07:45		02:45		11:00		04:30		07:45		04:30	
Volume	636		619		474		530		991		1138	
P.H.F.	.86		.92		.76		.88		.90		.91	

ASSOC., INC.

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-6
Start Date: 08/19/97
File I.D. : T6_F1
Page : 2

her :

et name :VA 83/US 460 BETWEEN VANSANT & GRUNDY N/S

Wednesday

	NB				SB				Combined			
ne	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
00 08/20	15		161		6		144		21		305	
.5	15		158		15		141		30		299	
:30	14		135		5		116		19		251	
:45	4	48	136	590	3	29	138	539	7	77	274	1129
0	11		130		10		126		21		256	
.15	11		149		4		128		15		277	
:30	7		154		3		117		10		271	
15	5	34	147	580	4	21	121	492	9	55	268	1072
0	7		129		2		113		9		242	
2:15	2		149		5		113		7		262	
30	1		132		2		137		3		269	
45	6	16	164	574	0	9	129	492	6	25	293	1066
3:00	4		158		2		124		6		282	
3:15	8		125		4		125		12		250	
30	5		147		13		152		18		299	
.45	12	29	146	576	2	21	130	531	14	50	276	1107
4:00	5		155		10		128		15		283	
15	10		147		3		133		13		280	
30	5		165		6		132		11		297	
4:45	19	39	140	607	7	26	117	510	26	65	257	1117
5:00	22		154		14		171		36		325	
15	30		134		17		111		47		245	
5:30	38		118		20		107		58		225	
5:45	45	135	118	524	20	71	102	491	65	206	220	1015
:00	40		98		27		79		67		177	
:15	38		104		40		84		78		188	
6:30	47		100		54		90		101		190	
:45	49	174	87	389	54	175	87	340	103	349	174	729
:00	62		79		43		69		105		148	
7:15	88		77		44		58		132		135	
7:30	125		77		69		68		194		145	
:45	171	446	80	313	74	230	68	263	245	676	148	576
:00	138		67		84		51		222		118	
08:15	134		80		104		50		238		130	
:30	131		76		90		51		221		127	
:45	140	543	84	307	94	372	54	206	234	915	138	513
09:00	96		61		88		36		184		97	
09:15	110		42		82		67		192		109	
:30	90		43		82		32		172		75	
:45	104	400	34	180	104	356	29	164	208	756	63	344
10:00	115		29		100		27		215		56	
:15	116		30		96		35		212		65	
:30	116		22		100		24		216		46	
10:45	109	456	26	107	135	431	18	104	244	887	44	211
11:00	111		21		105		14		216		35	
1:15	131		37		121		9		252		46	
1:30	150		29		122		23		272		52	
11:45	150	542	13	100	136	484	12	58	286	1026	25	158
otals	2862		4847		2225		4190		5087		9037	
ay Totals		7709				6415				14124		
Split %	56.2%		53.6%		43.7%		46.3%					

eak Hour	07:45	03:45	11:00	04:15	11:00	04:15
olume	574	613	484	553	1026	1159
P.H.F.	.83	.92	.88	.80	.89	.89

ted by:Chi Assoc., Inc.
..d # :407
ber :
et name :VA 83 BETWEEN SR 642 & SR 674

TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-7
Start Date: 08/19/97
File I.D. : T7_F1ADJ
Page : 1

E/W

n	<------ EB		------>		<------ WB		------>		<------Combined		------>		Tuesday
me	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
..00 08/19	2		22		1		32		3		54		
5	2		21		0		36		2		57		
:30	2		28		22		29		24		57		
:45	0	6	26	97	38	61	23	120	38	67	49	217	
00	0		26		7		30		7		56		
..5	2		36		0		28		2		64		
:30	0		31		0		36		0		67		
15	0	2	27	120	0	7	24	118	0	9	51	238	
00	1		36		2		29		3		65		
2:15	0		49		2		39		2		88		
30	1		28		1		27		2		55		
45	1	3	41	154	1	6	29	124	2	9	70	278	
3:00	0		31		1		26		1		57		
3:15	0		45		0		21		0		66		
30	2		58		0		37		2		95		
45	2	4	62	196	0	1	52	136	2	5	114	332	
4:00	2		46		3		30		5		76		
15	1		43		3		18		4		61		
30	2		42		3		32		5		74		
4:45	0	5	42	173	4	13	26	106	4	18	68	279	
5:00	6		61		3		28		9		89		
15	10		72		8		36		18		108		
..30	10		46		10		21		20		67		
5:45	15	41	47	226	10	31	24	109	25	72	71	335	
:00	18		52		17		19		35		71		
:15	6		48		24		22		30		70		
6:30	11		28		35		28		46		56		
:45	5	40	32	160	26	102	30	99	31	142	62	259	
:00	5		30		16		16		21		46		
7:15	17		29		26		14		43		43		
7:30	23		27		51		22		74		49		
:45	32	77	30	116	50	143	17	69	82	220	47	185	
..:00	20		26		64		14		84		40		
08:15	12		30		55		9		67		39		
:30	16		20		51		6		67		26		
:45	15	63	28	104	35	205	12	41	50	268	40	145	
09:00	18		17		32		8		50		25		
09:15	24		20		28		11		52		31		
:30	12		12		40		7		52		19		
09:45	15	69	12	61	29	129	7	33	44	198	19	94	
10:00	20		11		39		11		59		22		
:15	16		8		37		10		53		18		
:30	18		10		33		6		51		16		
10:45	14	68	7	36	16	125	2	29	30	193	9	65	
11:00	15		9		28		2		43		11		
1:15	18		7		32		1		50		8		
11:30	25		7		40		3		65		10		
11:45	24	82	5	28	35	135	2	8	59	217	7	36	
otals	460		1471		958		992		1418		2463		
..ay Totals		1931				1950				3881			
Split %	32.4%		59.7%		67.5%		40.2%						

eak Hour	07:15	05:00	07:30	03:15	07:30	03:15
Volume	92	226	220	140	307	351
P.H.F.	.71	.78	.85	.67	.91	.76

ted by:Chi Assoc., Inc.
ad / :407
her :
et name :VA 83 BETWEEN SR 642 & SR 674

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-7
Start Date: 08/19/97
File I.D. : T7_F1ADJ
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E/W

n	<------ EB ------>				<------ WB ------>				<------Combined ------>				Wednesday
e	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
0 08/20	4		25		1		32		5		57		
5	5		38		0		36		5		74		
:30	5		22		1		29		6		51		
:45	4	18	25	110	0	2	23	120	4	20	48	230	
0	2		25		0		30		2		55		
.15	2		29		1		28		3		57		
:30	1		33		0		36		1		69		
5	1	6	31	118	1	2	24	118	2	8	55	236	
0	1		33		3		29		4		62		
:15	0		34		2		39		2		73		
:30	0		34		1		27		1		61		
5	1	2	30	131	2	8	29	124	3	10	59	255	
:00	3		35		1		26		4		61		
:15	2		38		1		21		3		59		
0	0		29		0		37		0		66		
5	2	7	35	137	1	3	52	136	3	10	87	273	
:00	0		41		3		30		3		71		
15	1		27		4		30		5		57		
30	1		37		3		47		4		84		
:45	3	5	37	142	3	13	25	132	6	18	62	274	
5:00	9		50		3		29		12		79		
15	10		49		8		35		18		84		
.30	4		42		8		25		12		67		
5:45	17	40	27	168	11	30	13	102	28	70	40	270	
00	18		30		17		26		35		56		
15	17		33		25		25		42		58		
6:30	10		32		33		17		43		49		
:45	10	55	19	114	26	101	14	82	36	156	33	196	
00	8		24		18		9		26		33		
7:15	17		15		26		5		43		20		
7:30	21		23		49		12		70		35		
:45	35	81	20	82	50	143	5	31	85	224	25	113	
:00	27		23		63		5		90		28		
8:15	24		20		55		10		79		30		
:30	29		25		53		10		82		35		
:45	16	96	22	90	31	202	8	33	47	298	30	123	
9:00	22		22		33		10		55		32		
:15	22		30		28		4		50		34		
:30	19		16		29		4		48		20		
9:45	16	79	20	88	40	130	6	24	56	209	26	112	
10:00	30		7		39		13		69		20		
:15	22		12		37		3		59		15		
:30	28		11		33		5		61		16		
10:45	20	100	8	38	16	125	3	24	36	225	11	62	
:00	22		3		17		3		39		6		
:15	21		2		11		0		32		2		
11:30	25		7		40		1		65		8		
11:45	29	97	9	21	35	103	1	5	64	200	10	26	
tals	586		1239		862		931		1448		2170		
y Totals		1825				1793				3618			
Split %	40.4%		57.1%		59.5%		42.9%						
eak Hour	07:45		04:45		07:45		03:45		07:45		04:30		
Volume	115		178		221		159		336		309		
P.H.F.	.82		.89		.87		.76		.93		.91		

ASSOC., INC.

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-8
Start Date: 08/19/97
File I.D. : T8_F1
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ther :

eet name :US 460 BETWEEN VANSANT AND OAKWOOD E/W

in	<------ EB		------>		<------ WB		------>		<------Combined		------>		Tuesday
ime	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
:00 08/19	11		100		11		92		22		192		
15	11		112		8		78		19		190		
.30	13		87		10		88		23		175		
2:45	9	44	105	404	6	35	89	347	15	79	194	751	
00	5		66		7		92		12		158		
15	7		83		8		115		15		198		
1:30	8		61		7		91		15		152		
:45	8	28	89	299	6	28	89	387	14	56	178	686	
00	4		107		4		108		8		215		
:15	4		84		2		91		6		175		
2:30	4		91		3		120		7		211		
.45	4	16	71	353	2	11	114	433	6	27	185	786	
:00	2		106		1		97		3		203		
3:15	12		72		2		98		14		170		
:30	2		82		4		110		6		192		
:45	3	19	100	360	4	11	87	392	7	30	187	752	
4:00	4		100		7		104		11		204		
4:15	6		112		3		100		9		212		
:30	9		115		8		88		17		203		
:45	15	34	125	452	6	24	116	408	21	58	241	860	
5:00	25		112		10		95		35		207		
:15	15		99		17		98		32		197		
:30	21		83		24		89		45		172		
5:45	15	76	85	379	18	69	68	350	33	145	153	729	
:00	47		69		16		80		63		149		
:15	46		64		40		83		86		147		
06:30	65		53		42		76		107		129		
06:45	60	218	39	225	54	152	70	309	114	370	109	534	
:00	50		52		48		37		98		89		
:15	42		35		62		53		104		88		
07:30	64		46		86		47		150		93		
:45	67	223	46	179	78	274	49	186	145	497	95	365	
:00	80		43		79		36		159		79		
08:15	64		32		96		37		160		69		
08:30	60		30		85		31		145		61		
3:45	84	288	32	137	86	346	27	131	170	634	59	268	
09:00	78		33		66		24		144		57		
09:15	82		23		70		33		152		56		
9:30	70		16		65		21		135		37		
9:45	97	327	24	96	66	267	35	113	163	594	59	209	
10:00	71		17		72		30		143		47		
0:15	76		16		73		25		149		41		
0:30	76		32		84		15		160		47		
10:45	82	305	10	75	71	300	26	96	153	605	36	171	
11:00	88		9		121		22		209		31		
1:15	61		14		90		27		151		41		
1:30	84		6		93		21		177		27		
11:45	83	316	10	39	102	406	15	85	185	722	25	124	
Totals	1894		2998		1923		3237		3817		6235		
Day Totals		4892				5160				10052			
Split %	49.6%		48.0%		50.3%		51.9%						
Peak Hour	09:00		04:15		11:00		02:00		11:00		04:15		
Volume	327		464		406		433		722		863		
P.H.F.	.84		.92		.83		.90		.86		.89		

ASSOC., INC.

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-8
Start Date: 08/19/97
File I.D. : T8_F1
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ther :

eet name :US 460 BETWEEN VANSANT AND OAKWOOD E/W

Begin Time	<------ EB ------>				<------ WB ------>				<------Combined ------>				Wednesday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
00 08/20	11		103		8		88		19		191		
15	15		87		13		99		28		186		
2:30	14		100		12		71		26		171		
2:45	4	44	90	380	9	42	77	335	13	86	167	715	
00	6		95		10		82		16		177		
15	11		104		13		66		24		170		
1:30	9		89		5		106		14		195		
:45	6	32	79	367	6	34	78	332	12	66	157	699	
:00	2		83		6		85		8		168		
2:15	6		86		2		100		8		186		
2:30	5		88		1		86		6		174		
:45	3	16	95	352	8	17	109	380	11	33	204	732	
:00	1		94		4		98		5		192		
3:15	6		101		2		96		8		197		
:30	4		91		8		106		12		197		
:45	3	14	102	388	1	15	90	390	4	29	192	778	
4:00	5		73		4		87		9		160		
:15	5		113		6		87		11		200		
:30	13		113		4		96		17		209		
4:45	11	34	88	387	16	30	85	355	27	64	173	742	
5:00	19		98		4		93		23		191		
:15	18		91		23		76		41		167		
:30	15		68		14		80		29		148		
5:45	19	71	57	314	22	63	83	332	41	134	140	646	
:00	46		68		32		71		78		139		
:15	49		60		37		62		86		122		
06:30	59		64		46		59		105		123		
6:45	62	216	54	246	44	159	51	243	106	375	105	489	
:00	57		50		71		53		128		103		
07:15	51		46		70		40		121		86		
07:30	51		31		83		45		134		76		
:45	68	227	53	180	73	297	47	185	141	524	100	365	
:00	63		40		69		39		132		79		
08:15	61		22		73		35		134		57		
8:30	71		32		80		50		151		82		
8:45	68	263	34	128	76	298	35	159	144	561	69	287	
09:00	96		29		53		33		149		62		
9:15	75		27		64		32		139		59		
9:30	85		26		57		35		142		61		
9:45	63	319	20	102	70	244	33	133	133	563	53	235	
10:00	89		35		94		20		183		55		
0:15	76		31		68		12		144		43		
0:30	76		27		81		23		157		50		
10:45	71	312	13	106	85	328	28	83	156	640	41	189	
11:00	80		13		90		28		170		41		
1:15	99		16		107		26		206		42		
11:30	99		10		78		16		177		26		
11:45	91	369	18	57	87	362	16	86	178	731	34	143	
Totals	1917		3007		1889		3013		3806		6020		
Day Totals		4924				4902				9826			
Split %	50.3%		49.9%		49.6%		50.0%						
Peak Hour	11:00		04:15		10:30		02:45		11:00		02:45		
Volume	369		412		363		409		731		790		
P.H.F.	.93		.91		.84		.93		.88		.96		

ASSOC., INC.

TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-9
Start Date: 08/17/97
File I.D. : T9_F1
Page : 1

ber :
eet Name :VA 83 @ BUCHANAN GENERAL HOSPITAL (West Access) N/S

n	<------ SB (In)				------><------ NB (Out)				------><------Combined				------> Sunday
me	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
:00 08/17	0		5		2		2		2		7		
5	2		13		3		4		5		17		
0	2		15		2		6		4		21		
:45	3	7	8	41	7	14	6	18	10	21	14	59	
0	2		5		2		6		4		11		
5	0		5		1		7		1		12		
:30	1		6		5		4		6		10		
:45	2	5	6	22	2	10	7	24	4	15	13	46	
0	0		10		0		7		0		17		
5	0		12		4		7		4		19		
:30	2		15		2		12		4		27		
5	1	3	3	40	1	7	5	31	2	10	8	71	
0	0		5		0		6		0		11		
:15	1		10		1		9		2		19		
:30	2		10		0		6		2		16		
5	1	4	8	33	1	2	8	29	2	6	16	62	
:00	3		2		1		11		4		13		
:15	0		6		0		6		0		12		
30	1		9		0		2		1		11		
5	0	4	6	23	1	2	5	24	1	6	11	47	
:00	0		7		2		6		2		13		
:15	1		6		0		3		1		9		
30	0		3		1		4		1		7		
:45	3	4	5	21	1	4	7	20	4	8	12	41	
6:00	3		9		0		12		3		21		
15	6		12		2		4		8		16		
30	5		19		2		11		7		30		
6:45	5	19	7	47	2	6	5	32	7	25	12	79	
:00	0		6		2		13		2		19		
15	2		4		6		10		8		14		
:30	8		8		10		7		18		15		
7:45	2	12	3	21	3	21	9	39	5	33	12	60	
:00	4		3		2		2		6		5		
:15	4		6		6		11		10		17		
8:30	4		3		1		4		5		7		
:45	3	15	6	18	3	12	2	19	6	27	8	37	
:00	3		2		1		5		4		7		
9:15	3		2		5		8		8		10		
:30	2		3		4		18		6		21		
:45	2	10	2	9	2	12	2	33	4	22	4	42	
10:00	3		2		4		2		7		4		
10:15	4		1		2		2		6		3		
:30	3		1		2		1		5		2		
:45	2	12	1	5	6	14	1	6	8	26	2	11	
11:00	4		0		3		0		7		0		
:15	6		5		4		1		10		6		
:30	10		0		5		2		15		2		
11:45	4	24	1	6	6	18	5	8	10	42	6	14	
Totals	119		286		122		283		241		569		
ly Totals		405				405				810			
plit %	49.3%		50.2%		50.6%		49.7%						

eak Hour	11:00	06:00	07:00	06:30	11:00	05:45
olume	24	47	21	39	42	79
P.H.F.	.6	.61	.52	.75	.7	.65

ASSOC., INC.

TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-9
Start Date: 08/17/97
File I.D. : T9_F1
Page : 2

Other :
Street Name : VA 83 @ BUCHANAN GENERAL HOSPITAL (West Access) N/S
Begin <------SB (In) ------><------ NB (Out) ------><------Combined ------> Monday

Time	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
12:00 08/18	1		11		4		14		5		25	
:15	1		11		4		12		5		23	
:30	0		12		0		8		0		20	
12:45	0	2	12	46	1	9	10	44	1	11	22	90
:00	0		7		0		13		0		20	
:15	0		13		0		7		0		20	
01:30	0		6		1		9		1		15	
01:45	0	*	8	34	0	1	5	34	0	1	13	68
:00	0		12		0		12		0		24	
02:15	0		15		0		17		0		32	
02:30	1		7		0		5		1		12	
:45	1	2	7	41	0	*	19	53	1	2	26	94
:00	1		11		1		8		2		19	
03:15	0		8		2		15		2		23	
:30	0		13		0		12		0		25	
:45	1	2	5	37	1	4	15	50	2	6	20	87
04:00	0		11		0		15		0		26	
04:15	2		5		2		8		4		13	
:30	0		7		0		19		0		26	
04:45	0	2	9	32	0	2	10	52	0	4	19	84
05:00	1		13		0		18		1		31	
:15	2		3		0		17		2		20	
:30	0		11		2		14		2		25	
05:45	2	5	7	34	2	4	3	52	4	9	10	86
06:00	1		7		0		6		1		13	
:15	8		8		0		3		8		11	
06:30	17		20		2		4		19		24	
06:45	12	38	11	46	3	5	5	18	15	43	16	64
07:00	8		8		5		6		13		14	
07:15	7		2		8		13		15		15	
07:30	6		4		9		18		15		22	
07:45	16	37	7	21	6	28	6	43	22	65	13	64
08:00	15		8		7		10		22		18	
08:15	18		7		5		5		23		12	
08:30	12		0		9		3		21		3	
08:45	18	63	1	16	6	27	1	19	24	90	2	35
09:00	15		1		6		8		21		9	
09:15	14		3		6		2		20		5	
09:30	14		3		6		10		20		13	
09:45	16	59	2	9	10	28	1	21	26	87	3	30
10:00	16		3		10		4		26		7	
10:15	19		1		12		3		31		4	
10:30	11		3		9		1		20		4	
10:45	13	59	1	8	23	54	1	9	36	113	2	17
11:00	15		1		20		3		35		4	
11:15	15		2		20		4		35		6	
11:30	16		1		14		5		30		6	
11:45	8	54	4	8	13	67	7	19	21	121	11	27
Totals	323		332		229		414		552		746	
Day Totals		655				643				1298		
Split %	58.5%		44.5%		41.4%		55.5%					
Peak Hour	09:30		06:15		10:45		04:30		10:45		04:30	
Volume	65		47		77		64		136		96	
P.H.F.	.85		.58		.83		.84		.94		.77	

ASSOC., INC.

COAL FIELDS EXPRESSWAY
TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-9
Start Date: 08/17/97
File I.D. : T9_F1
Page : 3

ther :

eet name :VA 83 @ BUCHANAN GENERAL HOSPITAL (West Access) N/S

in <------ SB (In) ------><------ NB (Out) ------><------Combined ------> Tuesday

ine	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
:00 08/19	1		4		4		16		5		20	
15	2		14		4		12		6		26	
2:30	0		9		2		21		2		30	
2:45	0	3	16	43	1	11	12	61	1	14	28	104
00	2		10		0		15		2		25	
15	0		9		0		12		0		21	
1:30	0		13		0		9		0		22	
:45	0	2	10	42	2	2	5	41	2	4	15	83
:00	0		9		0		16		0		25	
2:15	0		17		0		12		0		29	
2:30	0		7		0		10		0		17	
:45	0	*	16	49	0	*	11	49	0	*	27	98
:00	3		18		0		14		3		32	
3:15	0		10		0		18		0		28	
:30	0		9		1		12		1		21	
:45	0	3	11	48	0	1	9	53	0	4	20	101
4:00	0		7		0		19		0		26	
4:15	0		6		1		15		1		21	
:30	1		11		1		22		2		33	
:45	1	2	7	31	1	3	18	74	2	5	25	105
5:00	0		10		0		19		0		29	
:15	2		18		2		8		4		26	
:30	1		9		0		11		1		20	
5:45	5	8	7	44	2	4	8	46	7	12	15	90
:00	1		16		1		7		2		23	
:15	9		12		1		6		10		18	
6:30	15		12		3		7		18		19	
6:45	16	41	3	43	1	6	7	27	17	47	10	70
:00	11		5		3		8		14		13	
:15	13		7		8		14		21		21	
7:30	7		10		10		13		17		23	
:45	18	49	3	25	6	27	7	42	24	76	10	67
:00	13		5		7		8		20		13	
8:15	16		3		3		10		19		13	
8:30	23		3		5		12		28		15	
:45	16	68	0	11	7	22	0	30	23	90	0	41
9:00	16		0		5		6		21		6	
9:15	7		2		11		2		18		4	
9:30	14		0		5		0		19		0	
9:45	24	61	1	3	8	29	2	10	32	90	3	13
10:00	16		1		13		3		29		4	
0:15	11		0		12		1		23		1	
0:30	17		0		9		1		26		1	
10:45	12	56	1	2	8	42	1	6	20	98	2	8
11:00	11		4		19		0		30		4	
1:15	11		0		14		0		25		0	
1:30	10		1		13		0		23		1	
11:45	14	46	5	10	16	62	4	4	30	108	9	14
otals	339		351		209		443		548		794	
ay Totals		690				652				1342		
Split %	61.8%		44.2%		38.1%		55.7%					

eak Hour	08:15	02:15	11:00	04:00	09:45	04:30
olume	71	58	62	74	110	113
P.H.F.	.77	.80	.81	.84	.85	.85

I ASSOC., INC.
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Other :
Street name :VA 83 @ BUCHANAN GENERAL HOSPITAL (West Access) N/S
Begin

TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-9
Start Date: 08/17/9
File I.D. : T9_F1
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Time	<------ SB (In) ------>				<------ NB (Out) ------>				<------Combined ------>				Wednesday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
12:00 08/20	1		14		2		13		3		27		
12:15	0		12		3		14		3		26		
12:30	0		14		4		14		4		28		
12:45	0	1	12	52	0	9	12	53	0	10	24	105	
01:00	0		13		0		15		0		28		
01:15	1		14		1		7		2		21		
01:30	1		12		1		12		2		24		
01:45	0	2	16	55	0	2	13	47	0	4	29	102	
02:00	1		17		1		14		2		31		
02:15	0		6		1		17		1		23		
02:30	0		11		0		10		0		21		
02:45	0	1	7	41	0	2	12	53	0	3	19	94	
03:00	1		17		0		21		1		38		
03:15	0		21		0		26		0		47		
03:30	1		10		0		19		1		29		
03:45	0	2	10	58	1	1	14	80	1	3	24	138	
04:00	0		10		0		18		0		28		
04:15	1		12		1		13		2		25		
04:30	1		14		3		30		4		44		
04:45	0	2	9	45	0	4	10	71	0	6	19	116	
05:00	1		4		0		13		1		17		
05:15	0		15		0		10		0		25		
05:30	1		9		0		7		1		16		
05:45	3	5	8	36	1	1	6	36	4	6	14	72	
06:00	2		16		1		10		3		26		
06:15	9		13		1		11		10		24		
06:30	11		9		0		16		11		25		
06:45	15	37	6	44	1	3	11	48	16	40	17	92	
07:00	7		11		2		4		9		15		
07:15	12		4		8		9		20		13		
07:30	5		6		5		13		10		19		
07:45	15	39	4	25	8	23	9	35	23	62	13	60	
08:00	13		6		7		4		20		10		
08:15	17		4		12		8		29		12		
08:30	16		2		5		13		21		15		
08:45	13	59	5	17	3	27	4	29	16	86	9	46	
09:00	20		3		7		6		27		9		
09:15	11		6		6		2		17		8		
09:30	9		1		2		5		11		6		
09:45	13	53	5	15	6	21	4	17	19	74	9	32	
10:00	12		3		14		5		26		8		
10:15	12		0		9		7		21		7		
10:30	13		1		8		1		21		2		
10:45	12	49	0	4	4	35	1	14	16	84	1	18	
11:00	10		2		20		2		30		4		
11:15	11		2		7		0		18		2		
11:30	8		2		12		3		20		5		
11:45	13	42	3	9	11	50	5	10	24	92	8	19	
Totals	292		401		178		493		470		894		
Day Totals		693				671				1364			
Split %	62.1%		44.8%		37.8%		55.1%						
Peak Hour	08:15		01:15		11:00		03:00		07:45		03:00		
Volume	66		59		50		80		93		138		
P.H.F.	.82		.86		.62		.76		.80		.73		

TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

Site Code : T-10
Start Date: 08/17/97
File I.D. : T10_F1
Page : 1

eet name :VA 83 @ BUCHANAN GENERAL HOSPITAL (East Access) N/S

	<------ NB (out)				------><------ SB (In)				------><------ Combined				------>	Sunday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.			
00 08/17	0		4		4		7		4		11			
15	0		5		4		10		4		15			
)	0		8		1		4		1		12			
45	0	*	9	26	1	10	13	34	1	10	22	60		
00	0		5		0		5		0		10			
5	1		8		0		6		1		14			
0	0		15		1		8		1		23			
:45	0	1	17	45	0	1	16	35	0	2	33	80		
0	0		5		0		4		0		9			
5	0		3		0		5		0		8			
:30	2		8		0		7		2		15			
:45	0	2	12	28	0	*	10	26	0	2	22	54		
0	0		7		0		6		0		13			
:15	0		8		0		8		0		16			
:30	0		11		1		8		1		19			
5	1	1	2	28	1	2	6	28	2	3	8	56		
0	0		8		0		4		0		12			
:15	0		7		2		9		2		16			
0	0		14		2		5		2		19			
15	0	*	15	44	1	5	13	31	1	5	28	75		
:00	0		15		0		3		0		18			
:15	0		10		0		4		0		14			
30	0		6		0		7		0		13			
.45	0	*	7	38	0	*	8	22	0	*	15	60		
:00	0		12		2		3		2		15			
15	0		7		0		12		0		19			
30	0		7		10		7		10		14			
6:45	2	2	11	37	2	14	7	29	4	16	18	66		
:00	1		6		4		8		5		14			
15	0		7		2		9		2		16			
:30	4		11		4		6		8		17			
7:45	2	7	11	35	3	13	4	27	5	20	15	62		
:00	2		5		3		2		5		7			
:15	1		3		2		4		3		7			
8:30	1		4		1		6		2		10			
:45	5	9	2	14	0	6	3	15	5	15	5	29		
:00	1		2		1		5		2		7			
9:15	1		3		3		3		4		6			
9:30	2		4		3		0		5		4			
:45	1	5	3	12	2	9	2	10	3	14	5	22		
:00	4		0		5		2		9		2			
10:15	7		0		2		2		9		2			
:30	4		0		3		2		7		2			
:45	11	26	0	*	3	13	1	7	14	39	1	7		
11:00	4		1		1		1		5		2			
:15	2		2		3		0		5		2			
:30	0		0		5		1		5		1			
11:45	2	8	2	5	7	16	1	3	9	24	3	8		
Totals	61		312		89		267		150		579			
y Totals		373				356				729				
plit %	40.6%		53.8%		59.3%		46.1%							
eak Hour	10:00		04:30		06:30		01:00		10:00		04:15			
olume	26		54		18		35		39		81			
P.H.F.	.59		.9		.45		.54		.69		.72			

TRAFFIC VOLUME COUNTS
CHI ASSOCIATES, INC.

er :
treet name :VA 83 @ BUCHANAN GENERAL HOSPITAL (East Access) N/S
eain <------ NB (Out) ------><------ SB (In) ------><------Combined ------>

Site Code : T-10
Start Date: 08/17/97
File I.D. : T10_F1
Page : 2

Monday

e	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
..00 08/18	0		14		1		15		1		29	
2:15	0		17		0		7		0		24	
30	0		11		0		14		0		25	
45	0	*	12	54	0	1	15	51	0	1	27	105
1:00	0		13		0		10		0		23	
1:15	0		5		0		17		0		22	
30	0		16		0		10		0		26	
1.45	0	*	17	51	0	*	14	51	0	*	31	102
2:00	0		8		1		13		1		21	
15	0		15		0		16		0		31	
30	0		14		0		22		0		36	
2:45	0	*	15	52	1	2	15	66	1	2	30	118
3:00	2		12		0		25		2		37	
15	0		78		0		25		0		103	
3:30	0		46		0		24		0		70	
3:45	0	2	18	154	0	*	15	89	0	2	33	243
00	1		27		0		16		1		43	
..15	0		29		2		17		2		46	
4:30	2		27		2		22		4		49	
45	0	3	15	98	3	7	35	90	3	10	50	188
00	0		39		0		23		0		62	
5:15	2		25		5		24		7		49	
5:30	1		24		6		11		7		35	
45	1	4	14	102	6	17	12	70	7	21	26	172
6:00	1		12		3		9		4		21	
6:15	3		16		11		17		14		33	
:30	6		13		12		11		18		24	
:45	8	18	11	52	7	33	13	50	15	51	24	102
7:00	2		11		9		17		11		28	
:15	9		22		21		28		30		50	
:30	24		56		45		10		69		66	
7:45	38	73	23	112	103	178	15	70	141	251	38	182
8:00	52		10		131		6		183		16	
:15	31		4		57		9		88		13	
:30	6		9		24		9		30		18	
8:45	10	99	11	34	12	224	11	35	22	323	22	69
:00	9		4		12		7		21		11	
:15	12		24		6		7		18		31	
9:30	8		8		10		4		18		12	
9:45	20	49	5	41	14	42	4	22	34	91	9	63
:00	9		3		13		1		22		4	
:15	7		2		10		2		17		4	
10:30	9		2		17		0		26		2	
:45	8	33	0	7	7	47	1	4	15	80	1	11
:00	6		1		6		0		12		1	
11:15	7		2		8		0		15		2	
11:30	25		1		16		4		41		5	
:45	16	54	4	8	13	43	0	4	29	97	4	12
otals	335		765		594		602		929		1367	
Day Totals		1100				1196				2296		
lit %	36.0%		55.9%		63.9%		44.0%					
Peak Hour	07:30		03:15		07:30		04:30		07:30		03:15	
lume	145		169		336		104		481		249	
H.F.	.69		.54		.64		.74		.65		.60	

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eet name :VA 83 @ BUCHANAN GENERAL HOSPITAL (East Access) N/S

in	<------ NB (Out) ------>				<------ SB (In) ------>				<------Combined ------>				Tuesday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
08/19	2		22		0		15		2		37		
15	0		13		0		16		0		29		
	0		7		0		9		0		16		
	0	2	7	49	0	*	11	51	0	2	18	100	
00	3		9		1		10		4		19		
15	0		7		0		8		0		15		
	0		13		0		14		0		27		
	0	3	22	51	0	1	13	45	0	4	35	96	
00	0		17		1		12		1		29		
	0		13		0		19		0		32		
	0		12		0		14		0		26		
45	0	*	14	56	0	1	28	73	0	1	42	129	
	0		14		0		24		0		38		
	1		69		1		22		2		91		
30	0		46		0		19		0		65		
45	1	2	25	154	0	1	21	86	1	3	46	240	
	1		27		0		12		1		39		
	0		24		1		12		1		36		
:30	0		19		3		18		3		37		
	0	1	7	77	1	5	18	60	1	6	25	137	
	1		25		0		29		1		54		
:15	1		28		5		25		6		53		
:30	2		20		6		22		8		42		
	0	4	22	95	6	17	31	107	6	21	53	202	
:00	1		28		5		39		6		67		
:15	4		24		8		24		12		48		
0	6		15		13		28		19		43		
5	7	18	29	96	6	32	23	114	13	50	52	210	
:00	5		25		9		18		14		43		
5	10		20		22		15		32		35		
0	15		23		49		6		64		29		
:45	32	62	19	87	94	174	5	44	126	236	24	131	
:00	32		26		107		9		139		35		
5	25		43		63		9		88		52		
0	12		20		16		8		28		28		
:45	7	76	11	100	10	196	6	32	17	272	17	132	
0	8		7		9		3		17		10		
5	4		0		5		1		9		1		
:30	6		7		9		3		15		10		
:45	5	23	5	19	12	35	3	10	17	58	8	29	
0	12		2		11		4		23		6		
:15	6		2		11		2		17		4		
:30	8		2		6		4		14		6		
45	10	36	3	9	7	35	1	11	17	71	4	20	
00	7		2		8		2		15		4		
:15	4		1		20		1		24		2		
:30	47		1		15		3		62		4		
45	19	77	4	8	14	57	1	7	33	134	5	15	
tals	304		801		554		640		858		1441		
v Totals		1105				1194				2299			
it %	35.4%		55.5%		64.5%		44.4%						
eak Hour	07:30		03:15		07:30		05:45		07:30		03:15		
ume	104		167		313		122		417		241		
.F.	.81		.60		.73		.78		.75		.66		

t name :VA 83 @ BUCHANAN GENERAL HOSPITAL (East Access) N/S

Wednesday

In	<------ NB (out) ------>				<------ SB (In) ------>				<------Combined ------>			
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
08/20	0		12		1		26		1		38	
15	0		18		0		15		0		33	
30	3		8		0		10		3		18	
	0	3	7	45	0	1	11	62	0	4	18	107
	0		13		0		6		0		19	
15	0		8		0		11		0		19	
	0		18		0		15		0		33	
	0	*	17	56	0	*	14	46	0	*	31	102
00	0		11		0		10		0		21	
15	0		11		0		14		0		25	
	0		9		0		11		0		20	
45	0	*	11	42	0	*	24	59	0	*	35	101
00	0		15		0		37		0		52	
5	0		82		0		34		0		116	
0	0		27		0		13		0		40	
:45	0	*	23	147	0	*	9	93	0	*	32	240
0	1		23		0		13		1		36	
5	0		19		2		13		2		32	
:30	1		19		2		17		3		36	
:45	0	2	15	76	1	5	29	72	1	7	44	148
0	0		41		1		24		1		65	
5	0		14		3		23		3		37	
:30	1		16		4		12		5		28	
5	0	1	18	89	6	14	12	71	6	15	30	160
0	1		8		2		13		3		21	
:15	1		14		11		13		12		27	
30	6		34		7		19		13		53	
15	6	14	28	84	7	27	11	56	13	41	39	140
00	10		30		10		16		20		46	
:15	3		15		19		15		22		30	
30	14		15		40		10		54		25	
45	25	52	14	74	84	153	6	47	109	205	20	121
:00	34		13		107		9		141		22	
15	36		2		81		9		117		11	
30	5		9		17		11		22		20	
:45	14	89	5	29	16	221	11	40	30	310	16	69
:00	3		23		4		6		7		29	
15	4		8		2		9		6		17	
30	7		1		7		2		14		3	
:45	6	20	7	39	10	23	2	19	16	43	9	58
00	9		1		10		5		19		6	
15	8		3		9		0		17		3	
0:30	8		5		13		2		21		7	
0:45	4	29	1	10	8	40	1	8	12	69	2	18
:00	17		2		13		3		30		5	
15	10		0		19		0		29		0	
1:30	30		1		14		4		44		5	
45	18	75	4	7	14	60	2	9	32	135	6	16
tals.	285		698		544		582		829		1280	
ay Totals		983				1126				2109		
-lit %	34.3%		54.5%		65.6%		45.4%					
eak Hour	07:30		03:15		07:30		02:45		07:30		02:45	
olume	109		155		312		108		421		243	
H.F.	.75		.47		.72		.72		.74		.52	

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gin <------ SB (out) ------><------ NB (In) ------><------Combined ------> Sunday

	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
00 08/17	0		2		0		1		0		3	
:15	0		0		0		0		0		0	
30	1		0		0		1		1		1	
45	3	4	0	2	1	1	0	2	4	5	0	4
:00	0		4		0		0		0		4	
:15	0		2		0		1		0		3	
30	1		4		0		1		1		5	
45	0	1	0	10	0	*	3	5	0	1	3	15
:00	0		1		0		3		0		4	
15	0		1		0		0		0		1	
30	4		2		0		1		4		3	
:45	0	4	0	4	0	*	0	4	0	4	0	8
00	0		5		0		1		0		6	
15	0		0		0		0		0		0	
:30	0		0		0		2		0		2	
3:45	0	*	2	7	0	*	2	5	0	*	4	12
00	0		3		0		0		0		3	
15	0		0		2		0		2		0	
4:30	3		0		1		0		4		0	
45	0	3	0	3	1	4	0	*	1	7	0	3
00	0		5		0		0		0		5	
5:15	0		0		0		1		0		1	
5:30	0		0		1		0		1		0	
45	0	*	1	6	1	2	0	1	1	2	1	7
.00	0		4		0		0		0		4	
6:15	0		3		0		3		0		6	
30	0		0		0		0		0		0	
45	0	*	2	9	0	*	2	5	0	*	4	14
7:00	1		1		0		0		1		1	
7:15	0		0		1		0		1		0	
:30	1		0		0		1		1		1	
7:45	0	2	2	3	1	2	2	3	1	4	4	6
8:00	0		1		3		0		3		1	
:15	2		1		1		1		3		2	
.:30	0		1		0		0		0		1	
8:45	1	3	0	3	2	6	1	2	3	9	1	5
:00	0		2		6		1		6		3	
:15	0		5		0		2		0		7	
9:30	0		3		0		0		0		3	
9:45	0	*	1	11	1	7	0	3	1	7	1	14
:00	0		3		2		1		2		4	
10:15	0		0		1		0		1		0	
10:30	0		0		0		0		0		0	
:45	0	*	1	4	1	4	0	1	1	4	1	5
:00	2		3		0		0		2		3	
11:15	0		0		1		0		1		0	
:30	0		1		0		1		0		2	
:45	0	2	1	5	0	1	1	2	0	3	2	7
rotals	19		67		27		33		46		100	
Day Totals		86				60				146		
plit %	41.3%		67.0%		58.7%		33.0%					

Peak Hour	00:00	09:15	08:15	01:15	08:15	01:00
olume	4	12	9	8	12	15
.H.F.	.33	.6	.37	.66	.5	.75

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ACCESS TO BUCHANAN INFO. PARK N/S

gin <------ SB (out) ------><------ NB (In) ------><------Combined ------> Monday

e	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
00 08/18	0		2		0		1		0		3	
:15	0		3		0		0		0		3	
30	0		1		0		1		0		2	
45	0	*	1	7	0	*	0	2	0	*	1	9
:00	2		3		0		2		2		5	
:15	0		1		0		3		0		4	
30	0		1		0		4		0		5	
45	0	2	5	10	0	*	2	11	0	2	7	21
:00	3		2		0		7		3		9	
15	0		4		0		4		0		8	
30	0		4		0		2		0		6	
:45	0	3	2	12	0	*	4	17	0	3	6	29
:00	0		1		0		3		0		4	
15	0		2		0		4		0		6	
:30	0		3		0		9		0		12	
:45	0	*	3	9	0	*	4	20	0	*	7	29
00	0		6		0		3		0		9	
15	0		1		0		1		0		2	
:30	0		1		0		4		0		5	
:45	0	*	0	8	0	*	4	12	0	*	4	20
:00	0		13		0		0		0		13	
:15	0		2		1		1		1		3	
:30	1		0		6		5		7		5	
:45	1	2	8	23	1	8	9	15	2	10	17	38
:00	0		6		0		2		0		8	
:15	0		2		0		8		0		10	
:30	0		5		0		4		0		9	
:45	0	*	2	15	0	*	6	20	0	*	8	35
:00	0		8		1		0		1		8	
:15	3		2		7		0		10		2	
:30	0		0		1		0		1		0	
:45	0	3	2	12	2	11	2	2	2	14	4	14
:00	6		1		11		2		17		3	
:15	3		10		2		6		5		16	
:30	1		3		7		1		8		4	
08:45	0	10	6	20	4	24	3	12	4	34	9	32
09:00	1		8		4		0		5		8	
:15	1		2		5		2		6		4	
:30	0		1		0		0		0		1	
09:45	0	2	1	12	1	10	0	2	1	12	1	14
:00	0		3		5		0		5		3	
:15	2		2		4		0		6		2	
10:30	0		0		0		1		0		1	
:45	0	2	2	7	0	9	0	1	0	11	2	8
:00	0		10		0		0		0		10	
11:15	1		4		1		0		2		4	
11:30	0		4		0		0		0		4	
:45	1	2	1	19	3	4	0	*	4	6	1	19
Totals	26		154		66		114		92		268	
Day Totals		180				180				360		
Split %	28.2%		57.4%		71.7%		42.5%					

Peak Hour	07:45	08:15	08:00	05:30	08:00	05:45
Volume	10	27	24	24	34	44
P.H.F.	.41	.67	.54	.66	.5	.64

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gin	<------ SB(out) ------>				<------ NB (In) ------>				<------Combined ------>				Tuesday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
0 08/19	0		4		0		4		0		8		
:15	2		2		1		3		3		5		
:30	3		7		0		1		3		8		
5	1	6	2	15	0	1	1	9	1	7	3	24	
..0	1		5		0		1		1		6		
:15	2		2		0		1		2		3		
0	0		3		0		1		0		4		
5	0	3	4	14	0	*	5	8	0	3	9	22	
:00	0		1		0		5		0		6		
:15	0		5		0		3		0		8		
0	0		7		0		6		0		13		
:45	0	*	1	14	0	*	5	19	0	*	6	33	
:00	0		5		0		3		0		8		
5	0		1		0		3		0		4		
0	0		3		0		6		0		9		
:45	0	*	3	12	0	*	2	14	0	*	5	26	
:00	0		8		0		2		0		10		
5	0		5		0		1		0		6		
:30	0		1		0		2		0		3		
:45	0	*	2	16	0	*	5	10	0	*	7	26	
0	0		11		0		0		0		11		
5	0		4		2		4		2		8		
:30	0		4		0		4		0		8		
15	0	*	1	20	1	3	4	12	1	3	5	32	
0	0		16		0		2		0		18		
:15	0		11		1		0		1		11		
:30	0		3		0		3		0		6		
15	0	*	1	31	0	1	2	7	0	1	3	38	
:00	0		6		4		1		4		7		
:15	1		1		2		1		3		2		
30	0		0		1		1		1		1		
15	0	1	3	10	1	8	2	5	1	9	5	15	
:00	1		2		6		0		7		2		
15	2		0		6		4		8		4		
30	0		6		9		1		9		7		
:45	1	4	1	9	8	29	0	5	9	33	1	14	
:00	2		0		5		0		7		0		
15	1		1		4		1		5		2		
.30	0		1		5		0		5		1		
:45	0	3	2	4	8	22	0	1	8	25	2	5	
00	0		6		4		2		4		8		
15	2		4		6		1		8		5		
:30	0		5		0		0		0		5		
:45	1	3	3	18	2	12	1	4	3	15	4	22	
00	1		3		0		0		1		3		
:15	1		1		4		0		5		1		
:30	3		4		10		0		13		4		
45	3	8	0	8	5	19	0	*	8	27	0	8	
als	28		171		95		94		123		265		
ay Totals		199				189				388			
lit %	22.7%		64.5%		77.2%		35.4%						
eak Hour	11:00		05:30		08:00		01:45		08:00		05:30		
olume	8		32		29		19		33		42		
.F.	.66		.5		.80		.79		.91		.58		

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ccess TO BUCHANAN INFO. PARK N/S

gin	<------ SB(out) ------>				<------ NB(in) ------>				<------Combined ------>				Wednesday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
0 08/20	1		3		0		4		1		7		
:15	4		2		0		0		4		2		
:30	3		1		1		2		4		3		
5	1	9	1	7	0	1	1	7	1	10	2	14	
:00	0		6		0		2		0		8		
:15	0		1		0		2		0		3		
0	0		3		0		1		0		4		
5	0	*	2	12	0	*	0	5	0	*	2	17	
:00	0		2		0		6		0		8		
:15	0		0		0		1		0		1		
0	0		5		0		0		0		5		
:45	0	*	1	8	0	*	5	12	0	*	6	20	
:00	0		2		0		2		0		4		
5	0		1		0		2		0		3		
0	0		3		0		9		0		12		
:45	0	*	0	6	0	*	3	16	0	*	3	22	
00	0		10		0		1		0		11		
5	0		1		0		1		0		2		
:30	0		2		0		4		0		6		
:45	0	*	4	17	0	*	7	13	0	*	11	30	
00	0		12		0		1		0		13		
:15	2		3		1		2		3		5		
:30	0		4		2		3		2		7		
45	0	2	3	22	2	5	3	9	2	7	6	31	
00	0		10		0		1		0		11		
:15	0		11		0		6		0		17		
:30	0		6		0		7		0		13		
45	0	*	4	31	1	1	4	18	1	1	8	49	
:00	0		6		0		1		0		7		
7:15	0		0		5		1		5		1		
30	0		0		1		0		1		0		
45	1	1	1	7	1	7	4	6	2	8	5	13	
8:00	2		4		4		0		6		4		
15	3		0		17		0		20		0		
30	5		1		17		0		22		1		
8:45	4	14	0	5	6	44	1	1	10	58	1	6	
9:00	1		1		9		0		10		1		
:15	4		4		2		2		6		6		
:30	1		4		3		3		4		7		
9:45	0	6	4	13	6	20	0	5	6	26	4	18	
:00	0		7		2		0		2		7		
:15	0		3		7		2		7		5		
0:30	0		3		0		1		0		4		
:45	2	2	1	14	1	10	0	3	3	12	1	17	
:00	0		4		0		0		0		4		
11:15	1		1		0		0		1		1		
11:30	0		4		1		0		1		4		
145	3	4	2	11	3	4	0	*	6	8	2	11	
Totals	38		153		92		95		130		248		
Day Totals		191				187				378			
Lit %	29.2%		61.6%		70.7%		38.3%						
Peak Hour	08:00		06:00		08:15		02:45		08:15		06:00		
Volume	14		31		49		18		62		49		
H.F.	.7		.70		.72		.5		.70		.72		

CHI ASSOCIATES, INC.

Start Date: 08/16/97
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ir :
et name :ACCESS TO BREAKS INTERSTATE PARK E/W
gin <------ EB (out) ------><------ WB (In) ------><------Combined ------> Saturday

	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
)0 08/16	2		3		0		18		2		21	
:15	0		12		0		22		0		34	
:30	0		4		1		32		1		36	
15	0	2	9	28	1	2	20	92	1	4	29	120
..00	0		10		0		24		0		34	
1:15	0		13		0		29		0		42	
30	0		10		0		17		0		27	
45	0	*	15	48	0	*	20	90	0	*	35	138
2:00	0		12		0		25		0		37	
2:15	0		18		0		11		0		29	
30	0		19		0		13		0		32	
..45	0	*	14	63	0	*	12	61	0	*	26	124
3:00	0		28		0		11		0		39	
15	0		14		0		8		0		22	
30	0		14		0		9		0		23	
3:45	0	*	20	76	0	*	15	43	0	*	35	119
:00	0		24		0		9		0		33	
15	0		26		0		10		0		36	
4:30	0		16		0		7		0		23	
4:45	0	*	32	98	0	*	15	41	0	*	47	139
00	0		21		0		19		0		40	
..15	0		19		0		18		0		37	
5:30	0		8		0		16		0		24	
45	0	*	15	63	0	*	25	78	0	*	40	141
00	0		13		1		24		1		37	
6:15	1		24		7		17		8		41	
:30	2		13		0		30		2		43	
45	0	3	8	58	2	10	29	100	2	13	37	158
7:00	1		17		4		18		5		35	
7:15	1		9		3		17		4		26	
.30	3		10		5		7		8		17	
:45	1	6	16	52	4	16	13	55	5	22	29	107
8:00	4		16		4		6		8		22	
:15	5		24		4		3		9		27	
:30	4		33		6		1		10		34	
8:45	9	22	39	112	3	17	4	14	12	39	43	126
9:00	6		61		3		5		9		66	
:15	2		12		5		1		7		13	
:30	5		6		3		4		8		10	
9:45	5	18	4	83	4	15	2	12	9	33	6	95
:00	7		0		14		2		21		2	
:15	8		7		9		1		17		8	
10:30	10		2		25		3		35		5	
10:45	8	33	2	11	12	60	2	8	20	93	4	19
:00	3		3		20		0		23		3	
:15	8		0		21		0		29		0	
11:30	3		0		23		1		26		1	
:45	3	17	0	3	15	79	1	2	18	96	1	5
tals	101		695		199		596		300		1291	
Day Totals		796				795				1591		
Split %	33.6%		53.8%		66.3%		46.1%					

Peak Hour	10:00	08:15	11:00	00:30	10:30	08:15
Volume	33	157	79	105	107	170
.H.F.	.82	.64	.85	.82	.76	.64

CHI ASSOCIATES, INC.

Start Date: 08/16/97
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Street name :ACCESS TO BREAKS INTERSTATE PARK E/W

Begin	<------ EB(Out) ------>				<------ WB(In) ------>				<------Combined ------>				Sunday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
0 08/17	4		11		1		33		5		44		
:15	0		8		2		26		2		34		
:30	0		8		0		53		0		61		
5	0	4	17	44	0	3	49	161	0	7	66	205	
:00	0		14		0		47		0		61		
:15	0		12		0		41		0		53		
0	0		24		0		57		0		81		
5	0	*	33	83	0	*	31	176	0	*	64	259	
:00	0		30		0		47		0		77		
:15	0		46		0		38		0		84		
0	0		35		0		34		0		69		
:45	0	*	34	145	0	*	37	156	0	*	71	301	
:00	0		42		0		20		0		62		
5	0		52		0		23		0		75		
0	0		42		0		25		0		67		
:45	0	*	37	173	0	*	26	94	0	*	63	267	
:00	0		64		0		26		0		90		
5	0		41		0		19		0		60		
:30	0		30		0		14		0		44		
:45	0	*	39	174	0	*	15	74	0	*	54	248	
0	0		28		0		17		0		45		
:15	0		36		0		13		0		49		
:30	0		43		0		13		0		56		
15	0	*	51	158	1	1	12	55	1	1	63	213	
00	0		96		2		10		2		106		
:15	1		31		6		1		7		32		
:30	1		6		0		2		1		8		
15	2	4	17	150	2	10	8	21	4	14	25	171	
7:00	1		14		9		3		10		17		
7:15	0		6		3		1		3		7		
30	0		3		0		5		0		8		
:45	2	3	5	28	4	16	6	15	6	19	11	43	
8:00	3		11		2		3		5		14		
15	5		6		1		0		6		6		
30	17		3		7		1		24		4		
8:45	5	30	1	21	6	16	2	6	11	46	3	27	
:00	9		5		6		2		15		7		
15	6		2		5		2		11		4		
9:30	7		3		13		1		20		4		
9:45	7	29	1	11	6	30	0	5	13	59	1	16	
00	4		0		13		2		17		2		
:15	4		3		12		1		16		4		
0:30	7		1		19		1		26		2		
45	12	27	0	4	26	70	1	5	38	97	1	9	
:00	9		1		29		0		38		1		
1:15	6		0		26		0		32		0		
1:30	7		0		29		1		36		1		
:45	13	35	0	1	33	117	1	2	46	152	1	3	
Totals	132		992		263		770		395		1762		
Day Totals		1124				1033				2157			
Split %	33.4%		56.3%		66.5%		43.7%						
Peak Hour	08:30		05:15		11:00		00:45		11:00		01:30		
Volume	37		226		117		194		152		306		
P.H.F.	.54		.58		.88		.85		.82		.91		

CHI ASSOCIATES, INC.

Start Date: 08/16/97
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r :
et name :ACCESS TO BREAKS INTERSTATE PARK E/W
gin <------ EB(out) ------><------ WB(In) ------><------Combined ------> Monday

	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
0 08/18	0		5		0		3		0		8	
:15	0		4		0		4		0		8	
:30	0		3		0		8		0		11	
5	0	*	6	18	0	*	3	18	0	*	9	36
:00	0		6		0		5		0		11	
:15	1		4		1		7		2		11	
0	1		7		1		12		2		19	
5	0	2	9	26	0	2	9	33	0	4	18	59
:00	0		6		0		1		0		7	
5	0		1		0		3		0		4	
0	1		13		0		2		1		15	
:45	0	1	4	24	1	1	2	8	1	2	6	32
:00	2		9		0		3		2		12	
5	1		1		1		7		2		8	
30	0		4		0		6		0		10	
:45	0	3	1	15	1	2	4	20	1	5	5	35
0	0		13		0		2		0		15	
5	0		7		0		6		0		13	
:30	0		2		0		10		0		12	
15	0	*	9	31	0	*	4	22	0	*	13	53
0	0		8		0		4		0		12	
:15	0		2		0		2		0		4	
:30	1		7		0		2		1		9	
45	1	2	4	21	0	*	6	14	1	2	10	35
0	1		5		0		8		1		13	
:15	0		5		5		1		5		6	
30	0		2		1		4		1		6	
45	0	1	3	15	5	11	7	20	5	12	10	35
7:00	1		7		3		2		4		9	
7:15	0		5		5		4		5		9	
30	4		2		7		3		11		5	
45	9	14	1	15	6	21	1	10	15	35	2	25
8:00	10		4		3		2		13		6	
15	2		4		3		4		5		8	
30	3		0		7		0		10		0	
8:45	8	23	4	12	4	17	2	8	12	40	6	20
9:00	4		5		3		2		7		7	
15	4		3		0		1		4		4	
30	7		0		4		0		11		0	
9:45	3	18	0	8	2	9	0	3	5	27	0	11
:00	2		1		6		1		8		2	
:15	6		1		7		0		13		1	
0:30	2		0		4		1		6		1	
0:45	7	17	1	3	5	22	2	4	12	39	3	7
:00	6		0		8		0		14		0	
:15	7		0		6		0		13		0	
1:30	3		0		5		0		8		0	
:45	2	18	0	*	7	26	1	1	9	44	1	1
tals	99		188		111		161		210		349	
ay Totals		287				272				559		
lit %	47.1%		53.8%		52.8%		46.1%					

Peak Hour	07:30	04:00	11:00	01:00	10:45	01:00
olume	25	31	26	33	47	59
H.F.	.62	.59	.81	.68	.83	.77

CHI ASSOCIATES, INC.

Start Date: 08/16/97
File I.D. : T12_F1
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et name :ACCESS TO BREAKS INTERSTATE PARK E/W

gin	<------ EB (out)				------><------ WB (In)				------><------Combined				------> Tuesday
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
0 08/19	1		0		0		1		1		1		
:15	0		3		0		6		0		9		
:30	0		6		0		7		0		13		
5	0	1	1	10	0	*	6	20	0	1	7	30	
:00	0		6		0		4		0		10		
:15	0		9		0		7		0		16		
0	0		7		0		5		0		12		
5	0	*	4	26	0	*	10	26	0	*	14	52	
:00	0		3		0		7		0		10		
5	0		4		0		1		0		5		
0	0		2		0		5		0		7		
:45	0	*	8	17	0	*	3	16	0	*	11	33	
:00	0		5		0		4		0		9		
15	0		10		0		5		0		15		
.30	0		8		0		5		0		13		
3:45	0	*	9	32	0	*	6	20	0	*	15	52	
30	0		13		0		7		0		20		
15	0		6		0		5		0		11		
4:30	0		6		0		2		0		8		
45	0	*	7	32	0	*	3	17	0	*	10	49	
00	0		3		0		6		0		9		
5:15	0		4		0		3		0		7		
5:30	0		6		0		2		0		8		
45	2	2	1	14	0	*	6	17	2	2	7	31	
.00	1		10		0		2		1		12		
6:15	1		6		4		4		5		10		
:30	3		6		1		7		4		13		
:45	1	6	3	25	4	9	10	23	5	15	13	48	
7:00	1		5		5		4		6		9		
:15	1		4		0		3		1		7		
:30	0		3		5		2		5		5		
7:45	1	3	4	16	3	13	4	13	4	16	8	29	
08:00	3		5		2		4		5		9		
:15	2		2		8		4		10		6		
:30	3		3		4		1		7		4		
08:45	7	15	3	13	2	16	2	11	9	31	5	24	
:00	3		1		1		3		4		4		
:15	1		2		2		2		3		4		
09:30	0		5		2		1		2		6		
09:45	3	7	4	12	12	17	1	7	15	24	5	19	
:00	1		0		2		0		3		0		
:15	3		0		4		0		7		0		
10:30	8		1		4		1		12		2		
:45	6	18	1	2	3	13	0	1	9	31	1	3	
1:00	2		0		4		1		6		1		
11:15	0		0		2		1		2		1		
1:30	6		1		6		1		12		2		
1:45	3	11	1	2	3	15	1	4	6	26	2	6	
Totals	63		201		83		175		146		376		
Day Totals		264				258				522			
plit %	43.1%		53.4%		56.8%		46.5%						

Peak Hour	10:15	03:15	09:45	01:15	09:45	03:15
olume	19	40	22	29	37	63
.H.F.	.59	.76	.45	.72	.61	.78

...ard # :181
...er :
...eet name :ACCESS TO BREAKS INTERSTATE PARK

CHI ASSOCIATES, INC.

Site code : T 12
Start Date: 08/16/97
File I.D. : T12_F1
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E/W

Begin	<------ EB(out)			------>	<------ WB(In)			------>	<------Combined			------>	Wednesday
...e	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		
00 08/20	1		5		1		5		2		10		
2:15	0		2		0		3		0		5		
...30	0		1		0		4		0		5		
45	0	1	7	15	0	1	6	18	0	2	13	33	
1:00	0		5		0		4		0		9		
1:15	0		4		0		6		0		10		
:30	0		1		0		1		0		2		
...45	0	*	4	14	0	*	7	18	0	*	11	32	
2:00	0		8		0		2		0		10		
:15	0		4		0		5		0		9		
:30	0		5		0		3		0		8		
2:45	0	*	4	21	0	*	3	13	0	*	7	34	
...00	0		4		0		3		0		7		
:15	0		5		0		3		0		8		
...:30	0		2		0		6		0		8		
3:45	0	*	2	13	0	*	3	15	0	*	5	28	
:00	0		13		0		2		0		15		
:15	0		3		0		3		0		6		
4:30	0		0		0		4		0		4		
...:45	0	*	3	19	0	*	4	13	0	*	7	32	
:00	0		3		0		3		0		6		
...:15	0		3		0		4		0		7		
05:30	0		3		0		7		0		10		
:45	1	1	3	12	0	*	3	17	1	1	6	29	
:00	1		3		1		0		2		3		
06:15	1		1		4		5		5		6		
...:30	1		3		1		1		2		4		
:45	3	6	2	9	3	9	7	13	6	15	9	22	
07:00	2		1		2		3		4		4		
07:15	0		1		4		2		4		3		
:30	2		5		1		1		3		6		
...:45	3	7	0	7	3	10	0	6	6	17	0	13	
08:00	1		4		3		3		4		7		
...:15	2		1		4		1		6		2		
:30	4		4		4		3		8		7		
08:45	4	11	5	14	1	12	1	8	5	23	6	22	
09:00	4		2		2		3		6		5		
:15	0		0		0		1		0		1		
09:30	5		3		4		2		9		5		
09:45	1	10	1	6	3	9	1	7	4	19	2	13	
:00	1		1		2		0		3		1		
:15	3		2		2		2		5		4		
10:30	5		0		3		1		8		1		
...:45	3	12	2	5	1	8	1	4	4	20	3	9	
:00	4		0		7		0		11		0		
11:15	2		0		3		0		5		0		
11:30	5		1		1		1		6		2		
:45	2	13	0	1	1	12	0	1	3	25	0	2	
Totals	61		136		61		133		122		269		
Day Totals		197				194				391			
Split %	50.0%		50.5%		50.0%		49.4%						
Peak Hour	10:15		03:15		07:45		00:30		10:15		01:45		
Volume	15		22		14		20		28		38		
.H.F.	.75		.42		.87		.83		.63		.86		

APPENDIX B

MANUAL INTERSECTION COUNTS

ther :SUNNY/DRY
..nted by:CHI ASSOC.
oard # :D1-0853
:ation :M-1 (VA 83 @ VA 72 - G. FORK)

TURNING MOVEMENT COUNT
COAL FIELDS EXPRESSWAY
CHI ASSOCIATES, INC.

Study Name: M1_AMPM2
Site Code : 00000001
Start Date: 08/19/97
Page : 1

Vehicle group 1

Start Time	VA ROUTE 83 Westbound			VA ROUTE 72 Northbound			VA ROUTE 83 Eastbound			Intrvl. Total
	Left	Thru	Other	Left	Right	Other	Thru	Right	Other	
08/19/97										
08:00	14	44	0	11	26	0	35	7	0	137
08:15	15	40	0	4	22	0	31	8	0	120
08:30	13	38	0	14	16	0	36	8	0	125
08:45	10	44	0	9	24	0	39	9	0	135
Hour	52	166	0	38	88	0	141	32	0	517
09:00	14	39	0	9	23	0	45	5	0	135
09:15	14	47	0	8	18	0	20	4	0	111
09:30	13	36	0	6	22	0	34	4	0	115
09:45	24	50	0	5	25	0	23	4	0	131
Hour	65	172	0	28	88	0	122	17	0	492
10:00	17	40	0	7	16	0	28	3	0	111
10:15	21	48	0	3	19	0	20	7	0	118
10:30	21	46	0	8	17	0	35	6	0	133
10:45	22	33	0	4	11	0	47	4	0	121
Hour	81	167	0	22	63	0	130	20	0	483
[BREAK]	---	---	---	---	---	---	---	---	---	---
15:00	33	60	0	21	40	0	38	4	0	196
15:15	22	58	0	16	23	0	46	10	0	175
15:30	27	52	0	9	30	0	65	18	0	201
15:45	21	51	0	6	26	0	79	13	0	196
Hour	103	221	0	52	119	0	228	45	0	768
16:00	20	47	0	5	19	0	60	7	0	158
16:15	27	50	0	9	30	0	56	10	0	182
16:30	24	54	0	5	27	0	52	9	0	171
16:45	16	52	0	7	23	0	57	10	0	165
Hour	87	203	0	26	99	0	225	36	0	676
17:00	29	71	0	8	19	1	67	8	0	203
17:15	39	48	0	5	33	0	68	7	0	200
17:30	40	33	0	3	16	0	78	13	0	183
17:45	14	46	0	1	14	0	52	15	0	142
Hour	122	198	0	17	82	1	265	43	0	728
Total	510	1127	0	183	539	1	1111	193	0	3664
% Apr.	31.1	68.8	-	25.3	74.5	0.1	85.1	14.8	-	-
% Int.	13.9	30.7	-	4.9	14.7	-	30.3	5.2	-	-

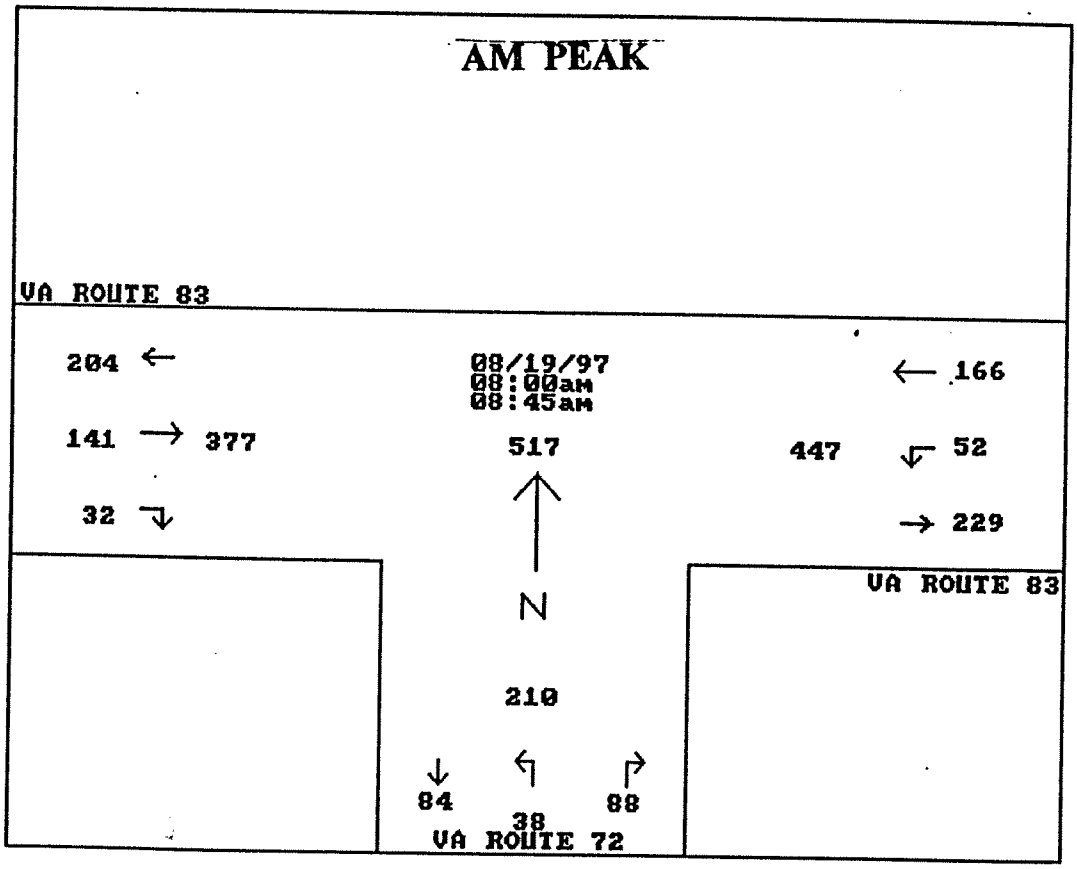
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0853
Location :M-1 (VA 83 @ VA 72 - G. FORK)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name:
Site Code :
Start Date:
Page :

Vehicle group 1

Start Time	VA ROUTE 83 Westbound Left	Thru	Other	VA ROUTE 72 Northbound Left	Right	Other	VA ROUTE 83 Eastbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 08:00 on 08/19/97 to 10:45 on 08/19/97										
Time	08:00			08:00			08:00			
Vol.	52	166	0	38	88	0	141	32	0	
Pct.	23.8	76.1	0.0	30.1	69.8	0.0	81.5	18.4	0.0	
Total	218			126			173			
High	08:00			08:00			08:45			
Vol.	14	44	0	11	26	0	39	9	0	
Total	58			37			48			
PHF	0.939			0.851			0.901			



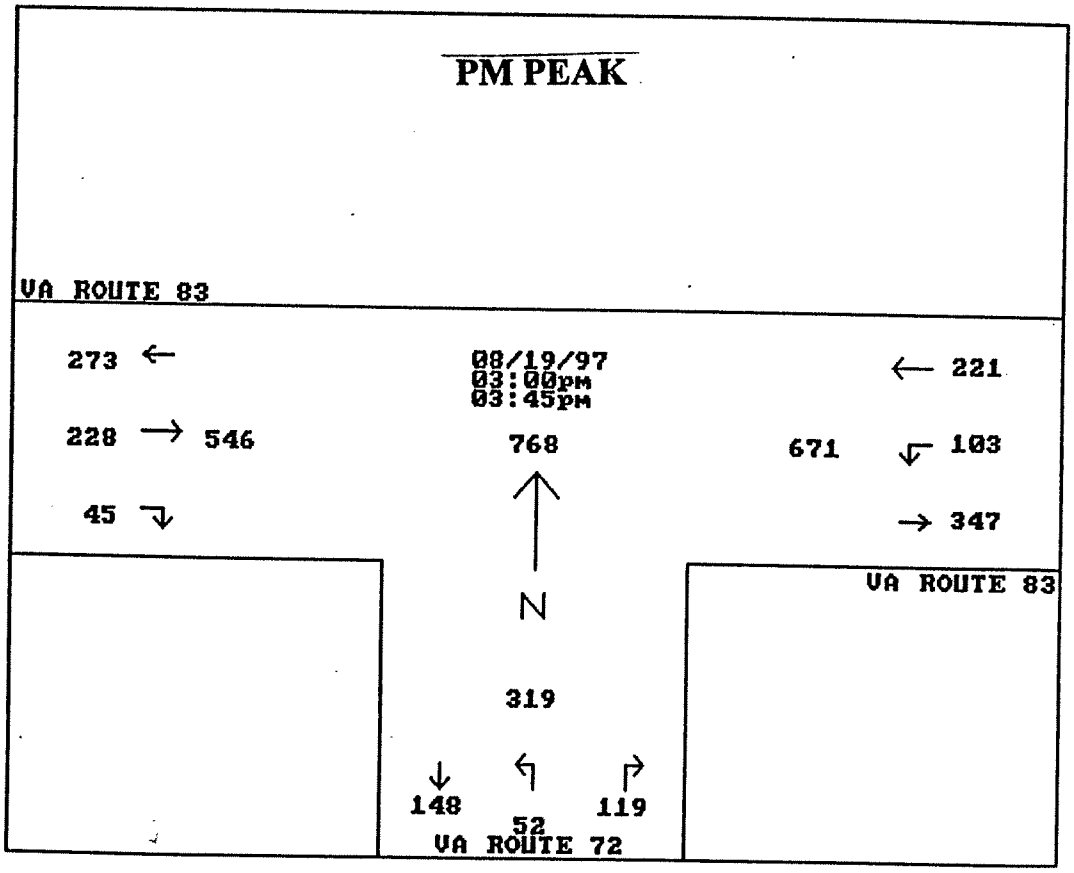
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0853
Location :M-1 (VA 83 @ VA 72 - G. FORK)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name
Site Code
Start Date
Page

Vehicle group 1

Start Time	VA ROUTE 83 Westbound Left	Thru	Other	VA ROUTE 72 Northbound Left	Right	Other	VA ROUTE 83 Eastbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 15:00 on 08/19/97 to 17:45 on 08/19/97										
Time	15:00			15:00			15:00			
Vol.	103	221	0	52	119	0	228	45	0	
Pct.	31.7	68.2	0.0	30.4	69.5	0.0	83.5	16.4	0.0	
Total	324			171			273			
High	15:00			15:00			15:45			
Vol.	33	60	0	21	40	0	79	13	0	
Total	93			61			92			
PHF	0.870			0.700			0.741			



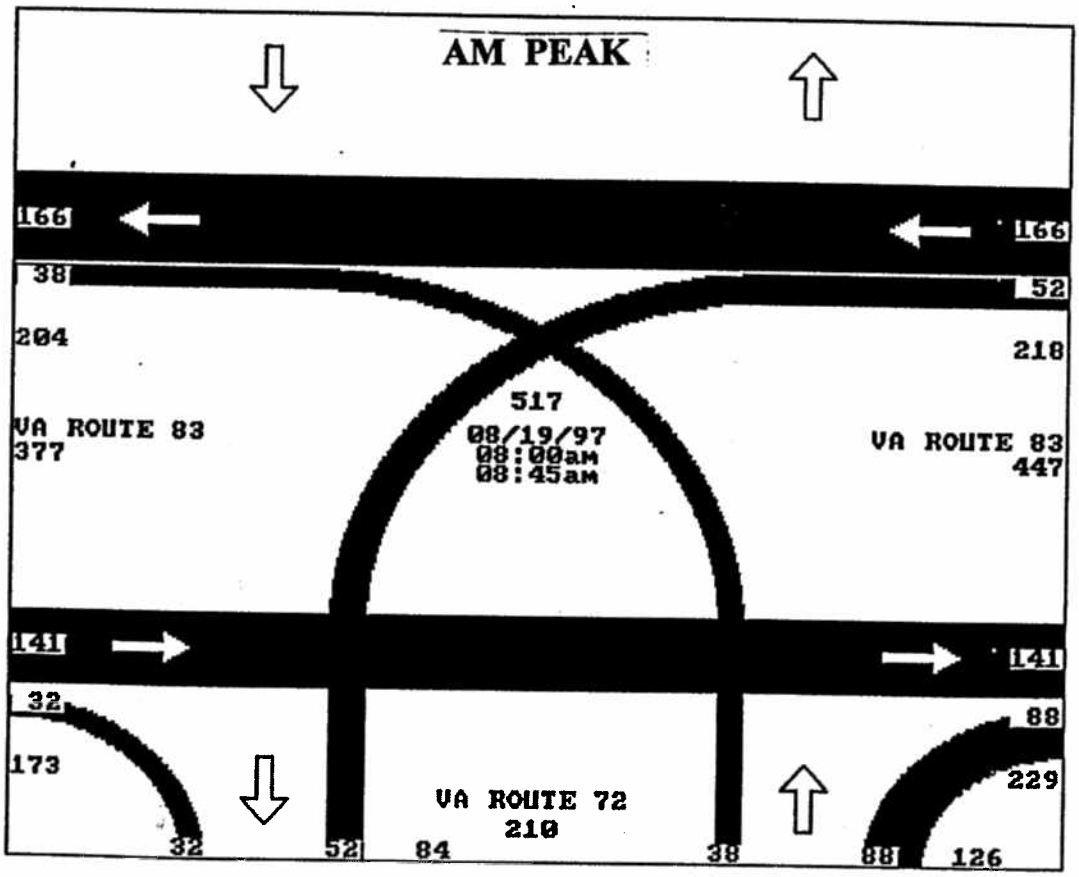
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0853
Location :M-1 (VA 83 @ VA 72 - G. FORK)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name
Site Code
Start Date
Page

Vehicle group 1

Start Time	VA ROUTE 83 Westbound Left	Thru	Other	VA ROUTE 72 Northbound Left	Right	Other	VA ROUTE 83 Eastbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 08:00 on 08/19/97 to 10:45 on 08/19/97										
Time	08:00			08:00			08:00			
Vol.	52	166	0	38	88	0	141	32	0	
Pct.	23.8	76.1	0.0	30.1	69.8	0.0	81.5	18.4	0.0	
Total	218			126			173			
High	08:00			08:00			08:45			
Vol.	14	44	0	11	26	0	39	9	0	
Total	58			37			48			
PHF	0.939			0.851			0.901			



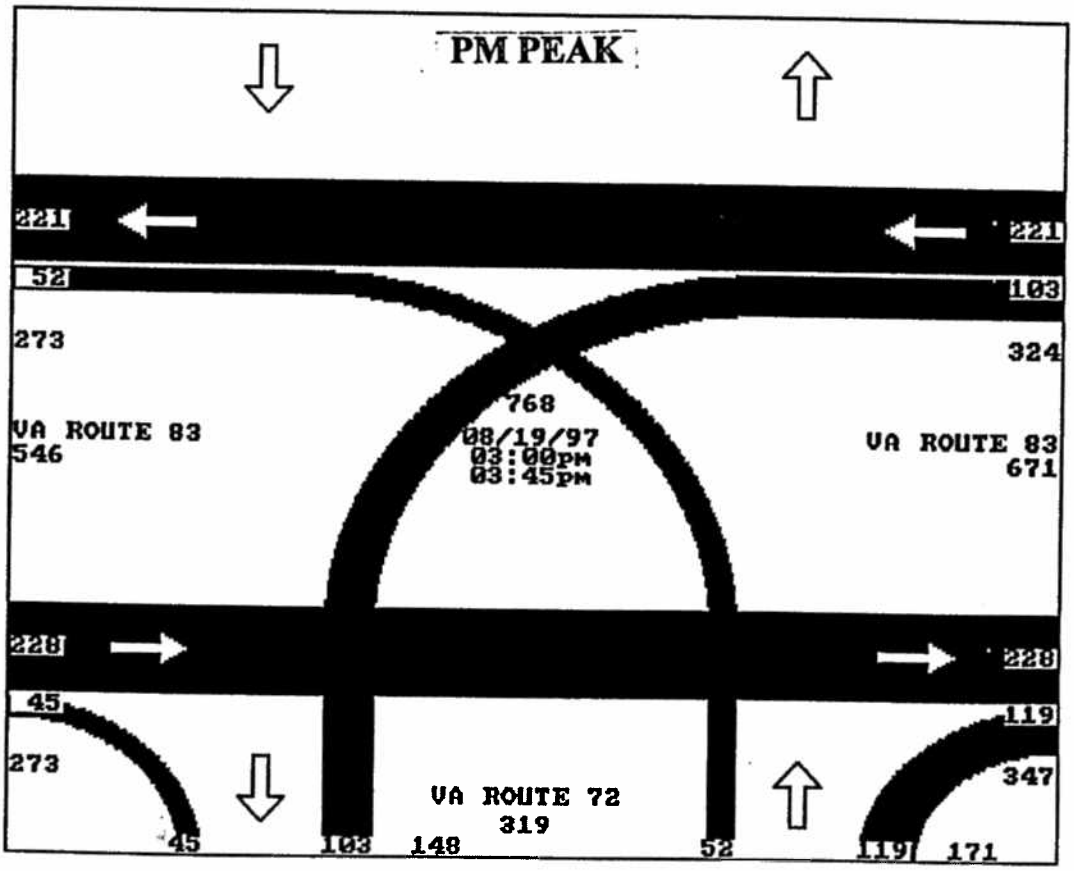
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0853
Location :M-1 (VA 83 @ VA 72 - G. FORK)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name:
Site Code :
Start Date:
Page :

Vehicle group 1

Start Time	VA ROUTE 83 Westbound Left	Thru	Other	VA ROUTE 72 Northbound Left	Right	Other	VA ROUTE 83 Eastbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 15:00 on 08/19/97 to 17:45 on 08/19/97										
Time	15:00			15:00			15:00			
Vol.	103	221	0	52	119	0	228	45	0	
Pct.	31.7	68.2	0.0	30.4	69.5	0.0	83.5	16.4	0.0	
Total	324			171			273			
High	15:00			15:00			15:45			
Vol.	33	60	0	21	40	0	79	13	0	
Total	93			61			92			
PHF	0.870			0.700			0.741			



Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0855
Location :M-2 (VA 83 @ T-607 CLINTWOOD)

COAL FIELDS EXPRESSWAY
CHI ASSOCIATES, INC.

Study Name: M2_AMPM2
Site Code : 00000002
Start Date: 08/19/97
Page : 1

Vehicle group 1

Start Time	ROUTE 607 Southbound Left	Right	Other	VA ROUTE 83 Westbound Thru	Right	Other	VA ROUTE 83 Eastbound Left	Thru	Other	Intrvl. Total
08/19/97										
08:00	26	66	0	62	19	0	47	54	0	274
08:15	18	54	0	49	20	0	50	38	0	229
08:30	14	41	0	57	27	0	45	42	0	226
08:45	10	43	0	35	9	0	50	45	0	192
Hour	68	204	0	203	75	0	192	179	0	921
09:00	15	30	0	51	19	0	52	54	0	221
09:15	16	44	0	54	13	0	49	54	0	230
09:30	16	47	0	65	20	0	57	39	0	244
09:45	16	56	0	60	29	0	67	42	0	270
Hour	63	177	0	230	81	0	225	189	0	965
10:00	5	70	0	60	19	0	51	54	0	259
10:15	19	54	0	56	13	0	43	49	0	234
10:30	15	43	0	75	19	0	71	36	0	259
10:45	12	42	0	52	13	0	44	55	0	218
Hour	51	209	0	243	64	0	209	194	0	970
[BREAK]	----	----	----	----	----	----	----	----	----	----
15:00	21	59	0	69	20	0	53	47	0	269
15:15	33	72	0	73	31	0	78	74	0	361
15:30	18	55	0	67	16	0	66	59	0	281
15:45	24	68	0	57	21	0	62	62	0	294
Hour	96	254	0	266	88	0	259	242	0	1205
16:00	20	47	0	64	19	0	75	78	0	303
16:15	19	54	0	64	25	0	70	67	0	299
16:30	21	72	0	52	20	0	68	72	0	305
16:45	32	64	0	68	18	0	81	60	0	323
Hour	92	237	0	248	82	0	294	277	0	1230
17:00	29	59	0	69	21	0	71	61	0	310
17:15	25	48	0	80	25	0	98	58	0	334
17:30	20	68	0	70	27	0	57	62	0	304
17:45	22	61	0	61	14	0	66	60	0	284
Hour	96	236	0	280	87	0	292	241	0	1232
Total	466	1317	0	1470	477	0	1471	1322	0	6523
% Apr.	26.1	73.8	-	75.5	24.4	-	52.6	47.3	-	-
% Int.	7.1	20.1	-	22.5	7.3	-	22.5	20.2	-	-

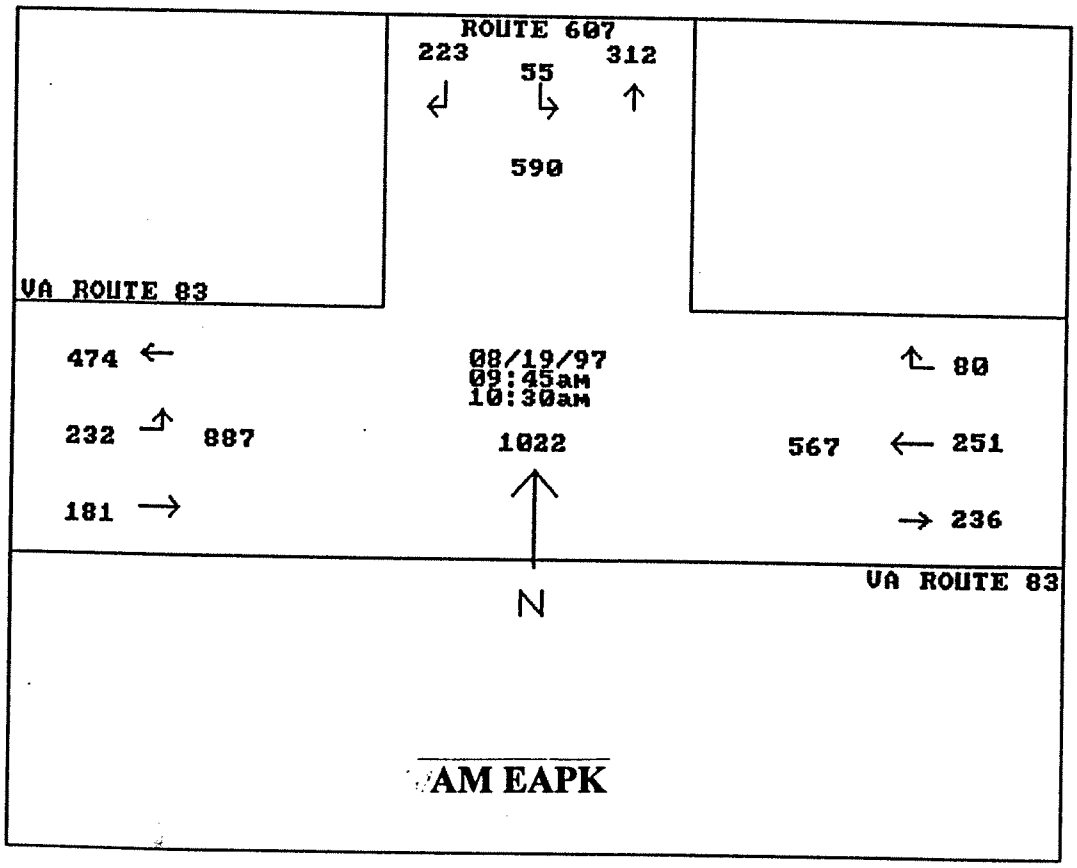
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0855
Location :M-2 (VA 83 @ T-607 CLINTWOOD)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name
Site Code
Start Date
Page

Vehicle group 1

Start Time	ROUTE 607 Southbound Left	Right	Other	VA ROUTE 83 Westbound Thru	Right	Other	VA ROUTE 83 Eastbound Left	Thru	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 08:00 on 08/19/97 to 10:45 on 08/19/97										
Time	09:45			09:45			09:45			
Vol.	55	223	0	251	80	0	232	181	0	
Pct.	19.7	80.2	0.0	75.8	24.1	0.0	56.1	43.8	0.0	
Total	278			331			413			
High	10:00			10:30			09:45			
Vol.	5	70	0	75	19	0	67	42	0	
Total	75			94			109			
PHF	0.926			0.880			0.947			



AM EAPK

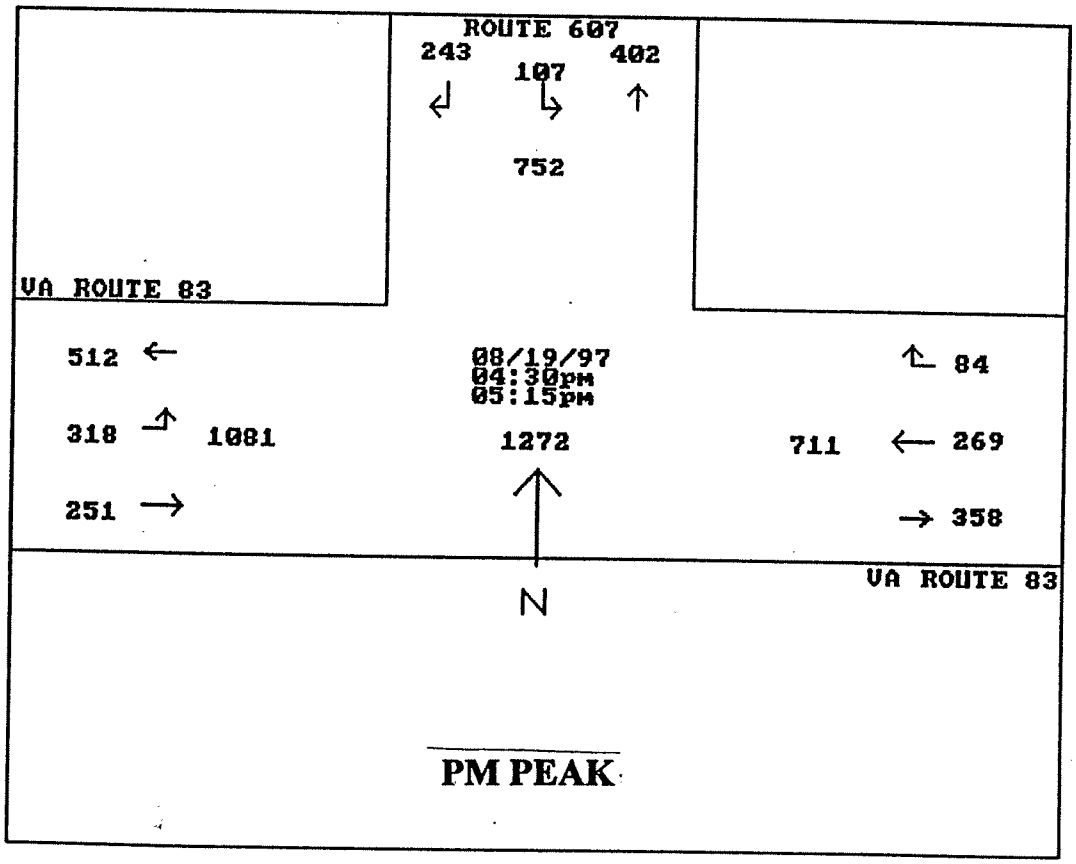
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0855
Location :M-2 (VA 83 @ T-607 CLINTWOOD)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name
Site Code
Start Date
Page

Vehicle group 1

Start Time	ROUTE 607 Southbound Left	Right	Other	VA ROUTE 83 Westbound Thru	Right	Other	VA ROUTE 83 Eastbound Left	Thru	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 15:00 on 08/19/97 to 17:45 on 08/19/97										
Time	16:30			16:30			16:30			
Vol.	107	243	0	269	84	0	318	251	0	
Pct.	30.5	69.4	0.0	76.2	23.7	0.0	55.8	44.1	0.0	
Total	350			353			569			
High	16:45			17:15			17:15			
Vol.	32	64	0	80	25	0	98	58	0	
Total	96			105			156			
PHF	0.911			0.840			0.911			



PM PEAK

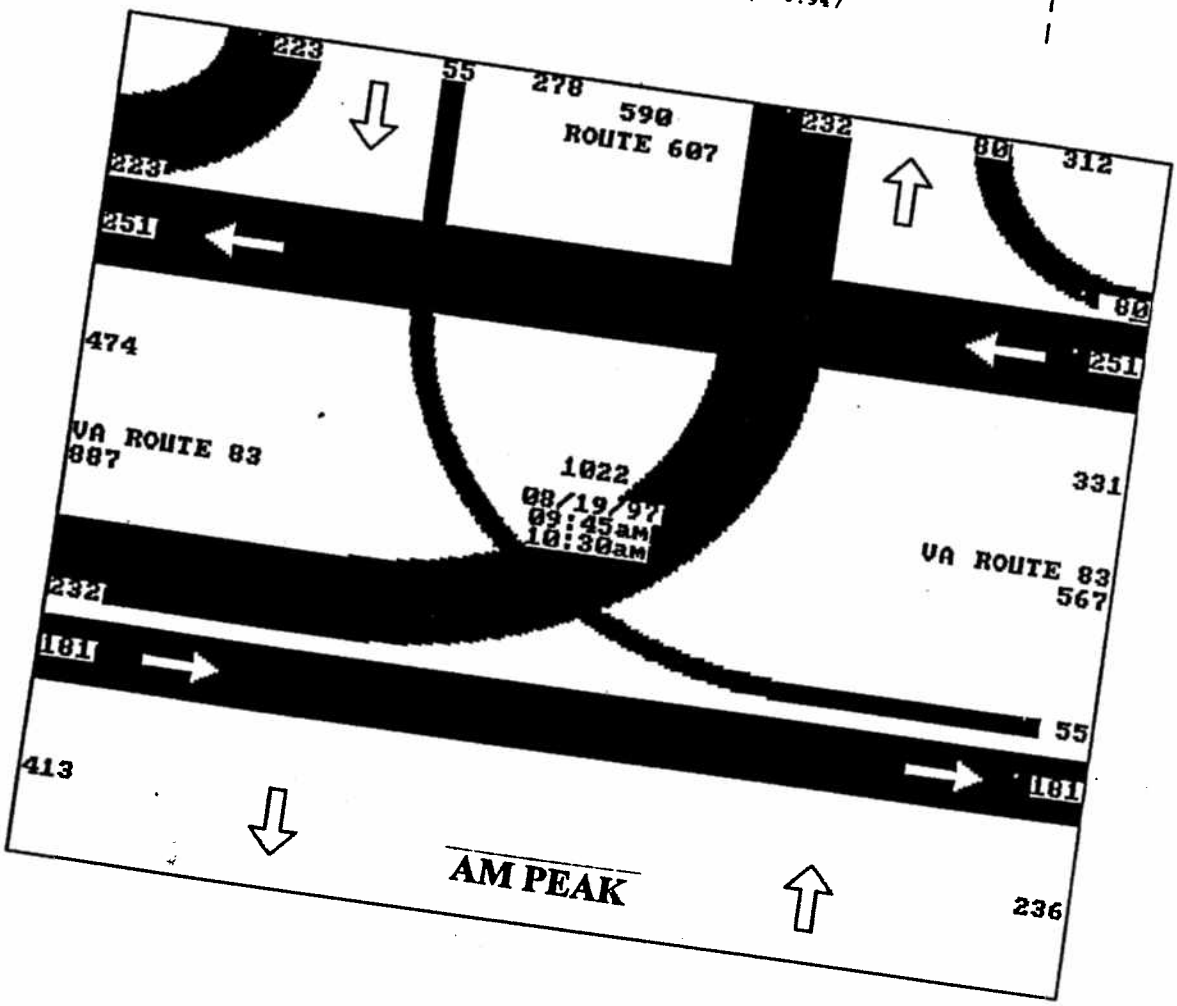
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0855
Location :M-2 (VA 83 @ T-607 CLINTWOOD)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Vehicle group 1

Peak Hour Analysis By Entire Intersection for the Period: 08:00 on 08/19/97 to 10:45 on 08/19/97

Time	09:45			09:45			09:45					
Vol.	55	223	0	251	80	0	232	181	0			
Pct.	19.7	80.2	0.0	75.8	24.1	0.0	56.1	43.8	0.0			
Total	278			331			413					
High	10:00			10:30			09:45					
Vol.	5	70	0	75	19	0	67	42	0			
Total	75			94			109					
PHF	0.926			0.880			0.947					

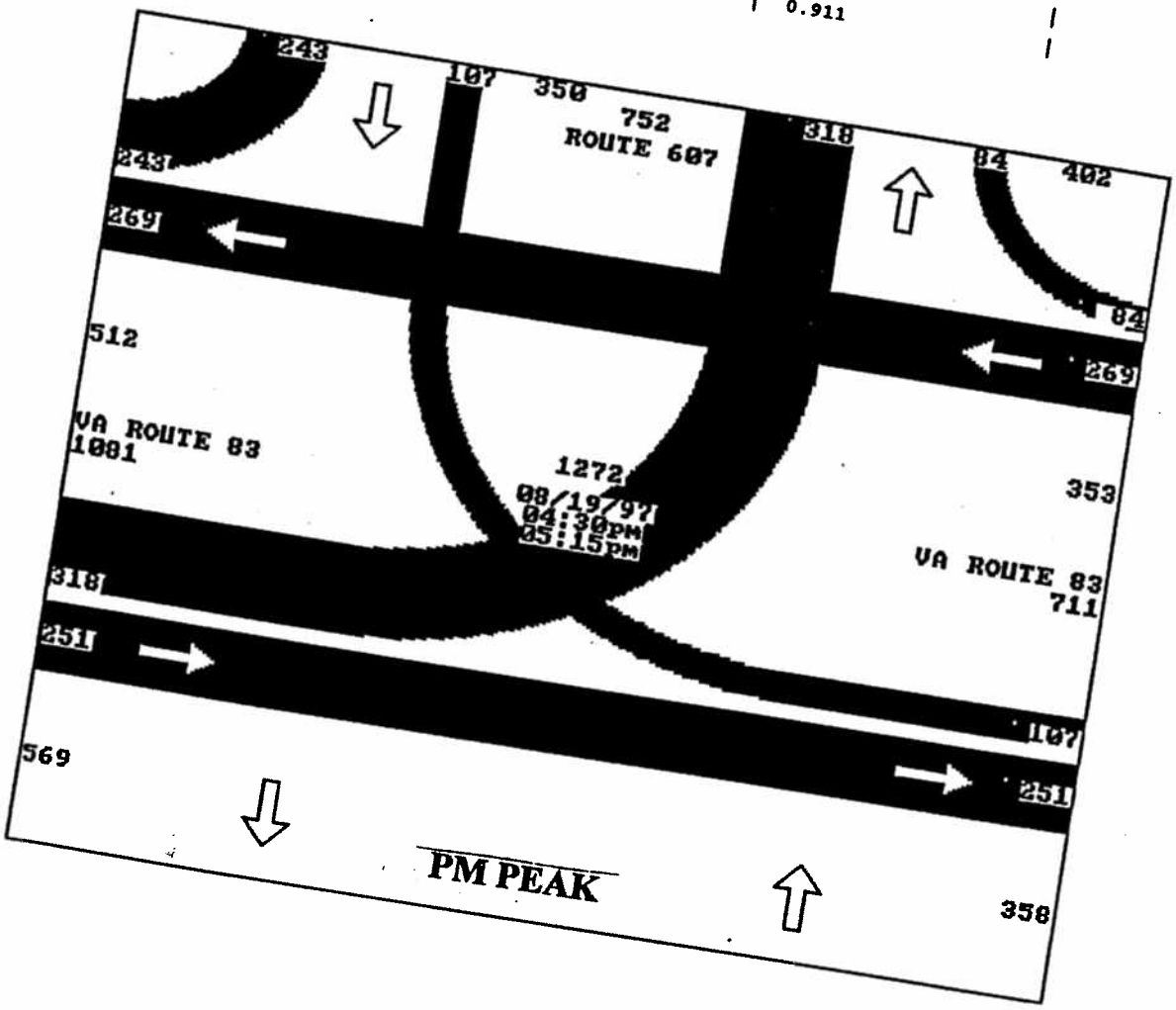


Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0855
Location :M-2 (VA 83 @ T-607 CLINTWOOD)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Vehicle group 1

Start Time	ROUTE 607 Southbound Left	Right	Other	VA ROUTE 83 Westbound Thru	Right	Other	VA ROUTE 83 Eastbound Left	Thru	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 15:00 on 08/19/97 to 17:45 on 08/19/97										
Time	16:30			16:30			16:30			
Vol.	107	243	0	269	84	0	318	251	0	
Pct.	30.5	69.4	0.0	76.2	23.7	0.0	55.8	44.1	0.0	
Total	350			353			569			
High	16:45			17:15			17:15			
Vol.	32	64	0	80	25	0	98	58	0	
Total	96			105			156			
PHF	0.911			0.840			0.911			



PM PEAK

TURNING MOVEMENT COUNT
COAL FIELDS EXPRESSWAY
CHI ASSOCIATES, INC.

ther :SUNNY/DRY
nted by:CHI ASSOC.
oard # :D1-0856
cation :M-3 (VA 83 @ VA 80 S. -HAYSI)

Study Name: M3_AMPM2
Site Code : 00000003
Start Date: 08/19/97
Page : 1

Vehicle group 1

Start Time	VA ROUTE 80 Westbound Left	Thru	Other	VA ROUTE 83 Northbound Left	Right	Other	VA 80/VA 83 Eastbound Thru	Right	Other	Intrvl. Total
08/19/97										
08:00	17	22	0	19	9	0	30	23	0	120
08:15	15	25	0	20	10	0	19	14	0	103
08:30	6	13	0	11	8	0	13	15	0	66
08:45	9	25	0	17	4	0	23	18	0	96
Hour	47	85	0	67	31	0	85	70	0	385
09:00	7	16	0	8	7	0	15	12	0	65
09:15	4	11	0	10	6	0	17	12	0	60
09:30	6	19	0	14	10	0	10	14	0	73
09:45	4	21	0	23	9	0	22	17	0	96
Hour	21	67	0	55	32	0	64	55	0	294
10:00	3	15	0	16	7	0	18	16	0	75
10:15	10	11	0	15	3	0	16	8	0	63
10:30	13	8	0	23	13	0	23	19	0	99
10:45	5	21	0	10	4	0	21	18	0	79
Hour	31	55	0	64	27	0	78	61	0	316
[BREAK]										
15:00	12	62	0	15	8	0	15	13	0	125
15:15	12	50	0	15	6	0	29	10	0	122
15:30	11	32	0	18	14	0	19	27	0	121
15:45	10	19	0	20	6	0	24	28	0	107
Hour	45	163	0	68	34	0	87	78	0	475
16:00	14	21	0	19	20	0	50	30	0	154
16:15	5	34	0	26	23	0	28	21	0	137
16:30	7	25	0	16	9	0	25	13	0	95
16:45	8	24	0	18	4	0	28	24	0	106
Hour	34	104	0	79	56	0	131	88	0	492
17:00	4	20	0	16	14	0	27	20	0	101
17:15	5	19	0	14	11	0	22	22	0	93
17:30	4	24	0	28	10	0	21	16	0	103
17:45	7	16	0	13	9	0	33	26	0	104
Hour	20	79	0	71	44	0	103	84	0	401
Total	198	553	0	404	224	0	548	436	0	2363
% Apr.	26.3	73.6	-	64.3	35.6	-	55.6	44.3	-	-
% Int.	8.3	23.4	-	17.0	9.4	-	23.1	18.4	-	-

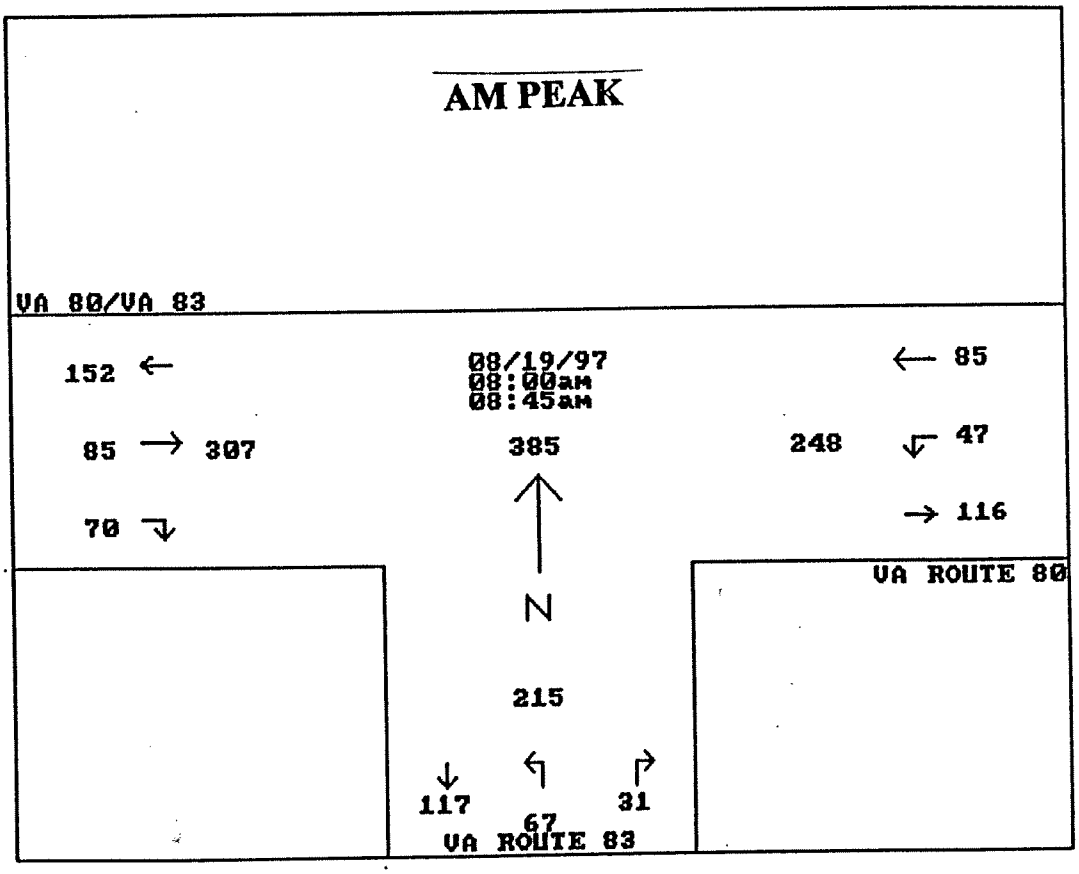
COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0856
Location :M-3 (VA 83 @ VA 80 N. -HAYSI)

Study Name:
Site Code :
Start Date:
Page :

Vehicle group 1

Start Time	VA ROUTE 80 Westbound Left	Thru	Other	VA ROUTE 83 Northbound Left	Right	Other	VA 80/VA 83 Eastbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 08:00 on 08/19/97 to 10:45 on 08/19/97										
Time	08:00			08:00			08:00			
Vol.	47	85	0	67	31	0	85	70	0	
Pct.	35.6	64.3	0.0	68.3	31.6	0.0	54.8	45.1	0.0	
Total	132			98			155			
High	08:15			08:15			08:00			
Vol.	15	25	0	20	10	0	30	23	0	
Total	40			30			53			
PHF	0.825			0.816			0.731			



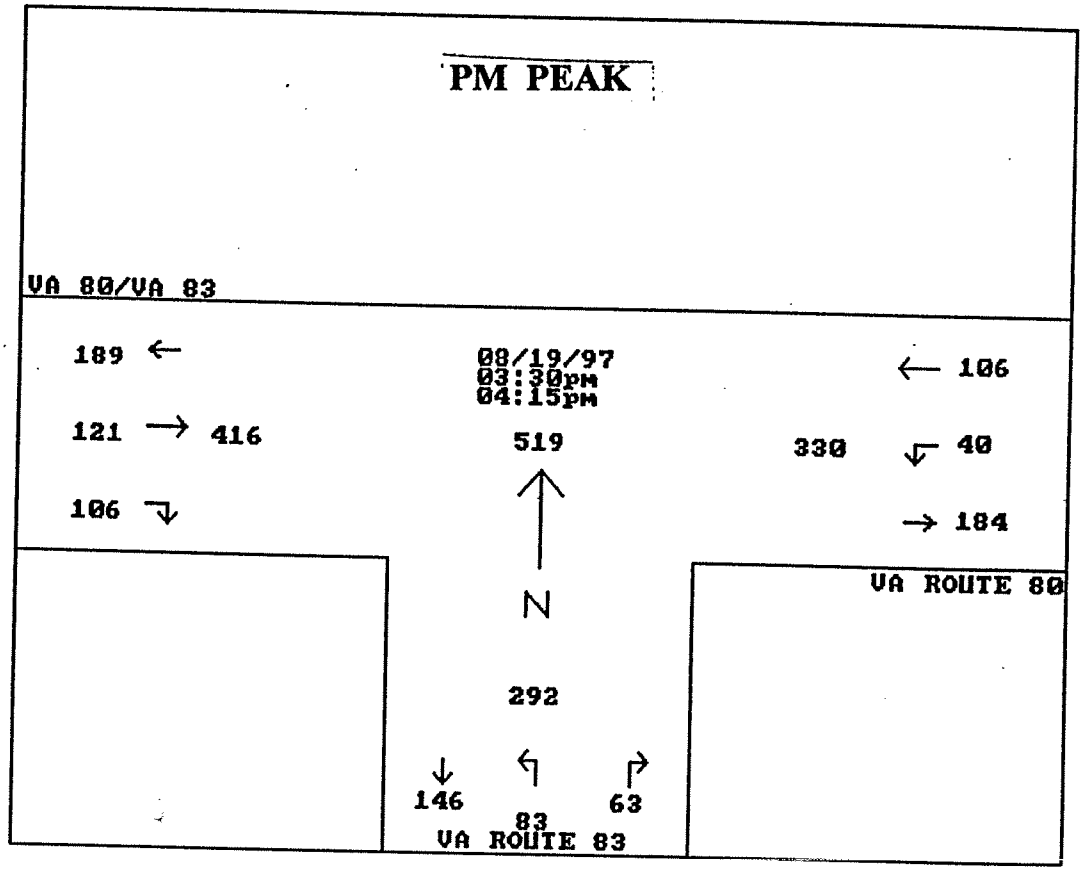
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0856
Location :M-3 (VA 83 @ VA 80 N. -HAYSI)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name
Site Code
Start Date
Page

Vehicle group 1

Start Time	VA ROUTE 80 Westbound Left	Thru	Other	VA ROUTE 83 Northbound Left	Right	Other	VA 80/VA 83 Eastbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 15:00 on 08/19/97 to 17:45 on 08/19/97										
Time	15:30			15:30			15:30			
Vol.	40	106	0	83	63	0	121	106	0	
Pct.	27.3	72.6	0.0	56.8	43.1	0.0	53.3	46.6	0.0	
Total	146			146			227			
High	15:30			16:15			16:00			
Vol.	11	32	0	26	23	0	50	30	0	
Total	43			49			80			
PHF	0.848			0.744			0.709			



Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0856
Location :M-3 (VA 83 @ VA 80 N. -HAYSI)

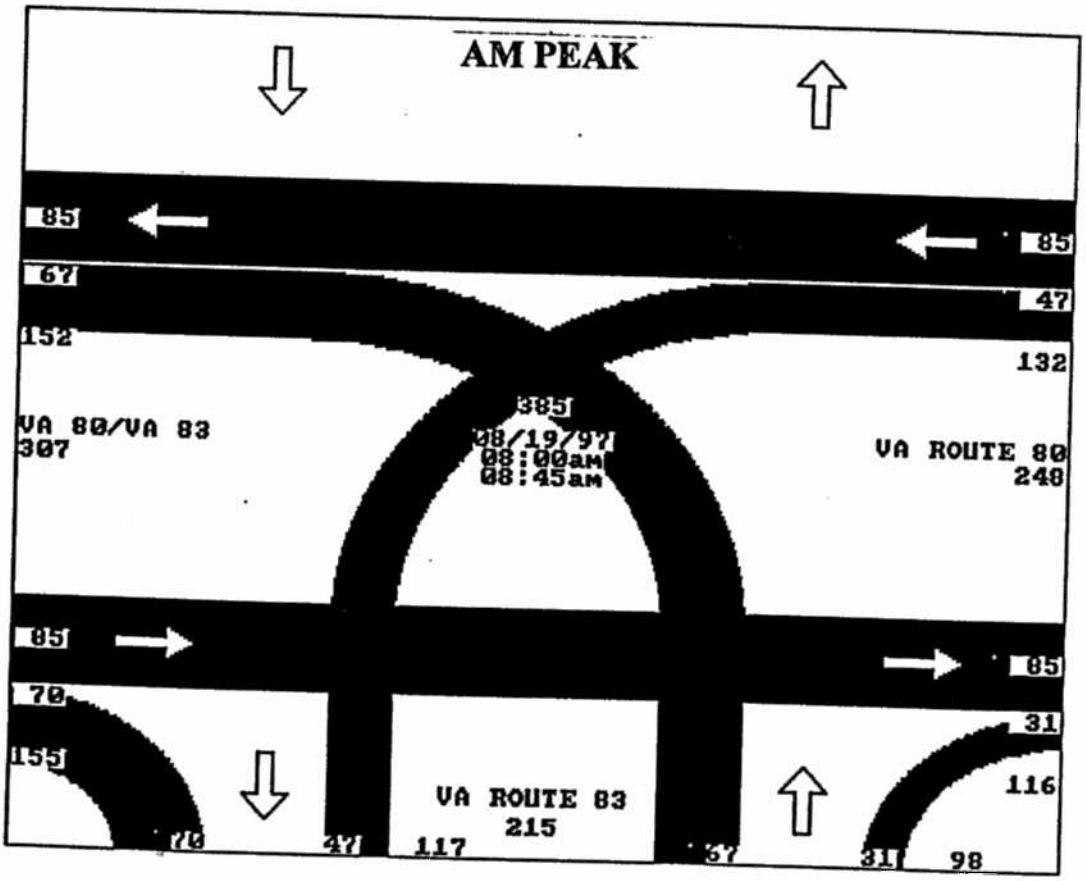
COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Vehicle group 1

Study Name
Site Code
Start Date
Page

Peak Hour Analysis By Entire Intersection for the Period: 08:00 on 08/19/97 to 10:45 on 08/19/97

Time	08:00			08:00			08:00		
Vol.	47	85	0	67	31	0	85	70	0
Pct.	35.6	64.3	0.0	68.3	31.6	0.0	54.8	45.1	0.0
Total	132			98			155		
High	08:15			08:15			08:00		
Vol.	15	25	0	20	10	0	30	23	0
Total	40			30			53		
PHF	0.825			0.816			0.731		



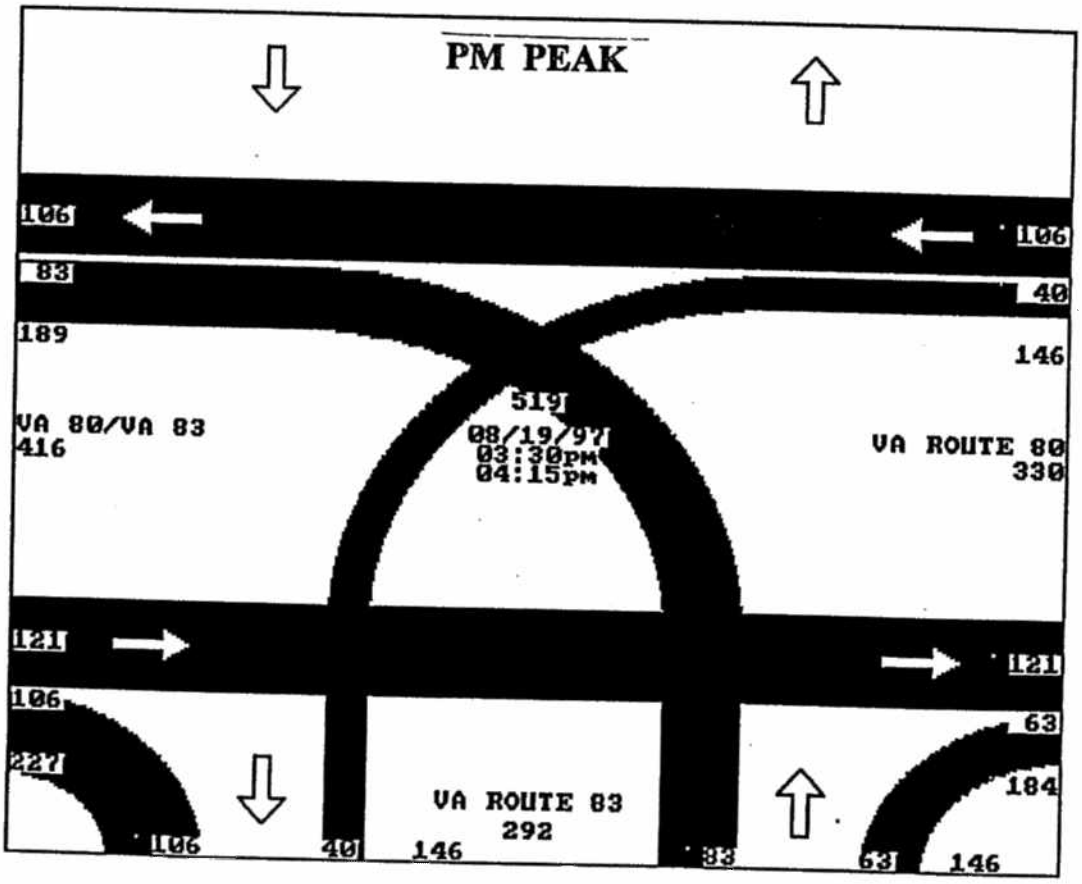
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0856
Location :M-3 (VA 83 @ VA 80 N. -HAYSI)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name
Site Code
Start Date
Page

Vehicle group 1

Start Time	VA ROUTE 80 Westbound Left	Thru	Other	VA ROUTE 83 Northbound Left	Right	Other	VA 80/VA 83 Eastbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 15:00 on 08/19/97 to 17:45 on 08/19/97										
Time	15:30			15:30			15:30			
Vol.	40	106	0	83	63	0	121	106	0	
Pct.	27.3	72.6	0.0	56.8	43.1	0.0	53.3	46.6	0.0	
Total	146			146			227			
High	15:30			16:15			16:00			
Vol.	11	32	0	26	23	0	50	30	0	
Total	43			49			80			
PHF	0.848			0.744			0.709			



TURNING MOVEMENT COUNT
COAL FIELDS EXPRESSWAY
CHI ASSOCIATES, INC.

:ather :SUNNY/DRY
.ounted by:CHI ASSOC.
Board # :D1-0854
ther :M-4 (VA 83 @ VA 80 N. -HAYSI)

Study Name: M4_AMPM
Site Code : 0000000
Start Date: 08/19/9
Page : 1

Vehicle group 1

Start Time	VA ROUTE 80 Southbound Left	Thru	Other	VA ROUTE 83 Westbound Left	Right	Other	VA ROUTE 80 Northbound Thru	Right	Other	Intrvl. Total
08/19/97										
08:00	1	21	0	14	3	0	5	23	0	67
08:15	2	5	0	14	5	0	10	16	0	52
08:30	2	9	0	12	1	0	7	10	0	41
08:45	0	15	0	24	0	0	3	15	0	57
Hour	5	50	0	64	9	0	25	64	0	217
09:00	1	13	0	11	0	0	14	17	0	56
09:15	0	11	0	20	1	0	9	12	0	53
09:30	0	5	0	12	2	0	6	15	0	40
09:45	1	6	0	14	0	0	10	12	0	43
Hour	2	35	0	57	3	0	39	56	0	192
10:00	3	11	0	16	1	0	10	24	0	65
10:15	0	9	0	16	2	0	8	18	0	53
10:30	3	18	0	16	1	0	9	12	0	59
10:45	0	11	0	16	1	0	10	18	0	56
Hour	6	49	0	64	5	0	37	72	0	233
[BREAK]										
15:00	0	12	0	19	1	0	7	20	0	59
15:15	2	8	0	11	7	0	13	22	0	63
15:30	3	7	0	22	2	0	26	29	0	89
15:45	2	18	0	18	2	0	10	30	0	80
Hour	7	45	0	70	12	0	56	101	0	291
16:00	4	14	0	23	2	0	12	22	0	77
16:15	11	64	0	16	0	0	16	15	0	122
16:30	4	23	0	14	6	0	15	16	0	78
16:45	3	23	0	17	4	0	13	15	0	75
Hour	22	124	0	70	12	0	56	68	0	352
17:00	1	17	0	28	0	0	8	20	0	74
17:15	3	13	0	17	1	0	15	20	0	69
17:30	2	10	0	24	0	0	13	15	0	64
17:45	1	10	0	31	2	0	17	20	0	81
Hour	7	50	0	100	3	0	53	75	0	288
Total	49	353	0	425	44	0	266	436	0	1573
% Apr.	12.1	87.8	-	90.6	9.3	-	37.8	62.1	-	-
% Int.	3.1	22.4	-	27.0	2.7	-	16.9	27.7	-	-

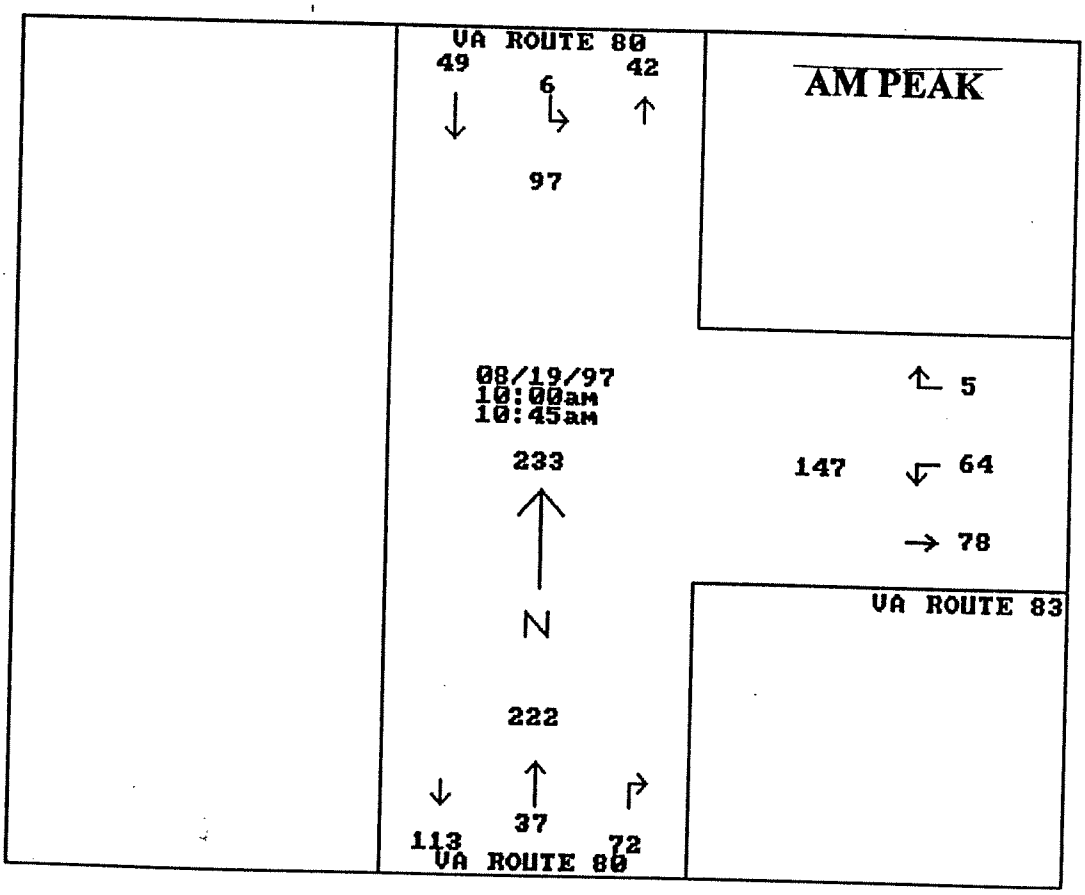
eather :SUNNY/DRY
ounted by:CHI ASSOC.
oard # :D1-0854
ther :M-4

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name: M
Site Code : 0
Start Date: 0
Page : 2

Vehicle group 1

Start Time	VA ROUTE 80 Southbound Left	Thru	Other	VA ROUTE 83 Westbound Left	Right	Other	VA ROUTE 80 Northbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 08:00 on 08/19/97 to 10:45 on 08/19/97										
Time	10:00			10:00			10:00			
Vol.	6	49	0	64	5	0	37	72	0	
Pct.	10.9	89.0	0.0	92.7	7.2	0.0	33.9	66.0	0.0	
Total	55			69			109			
High	10:30			10:15			10:00			
Vol.	3	18	0	16	2	0	10	24	0	
Total	21			18			34			
PHF	0.654			0.958			0.801			



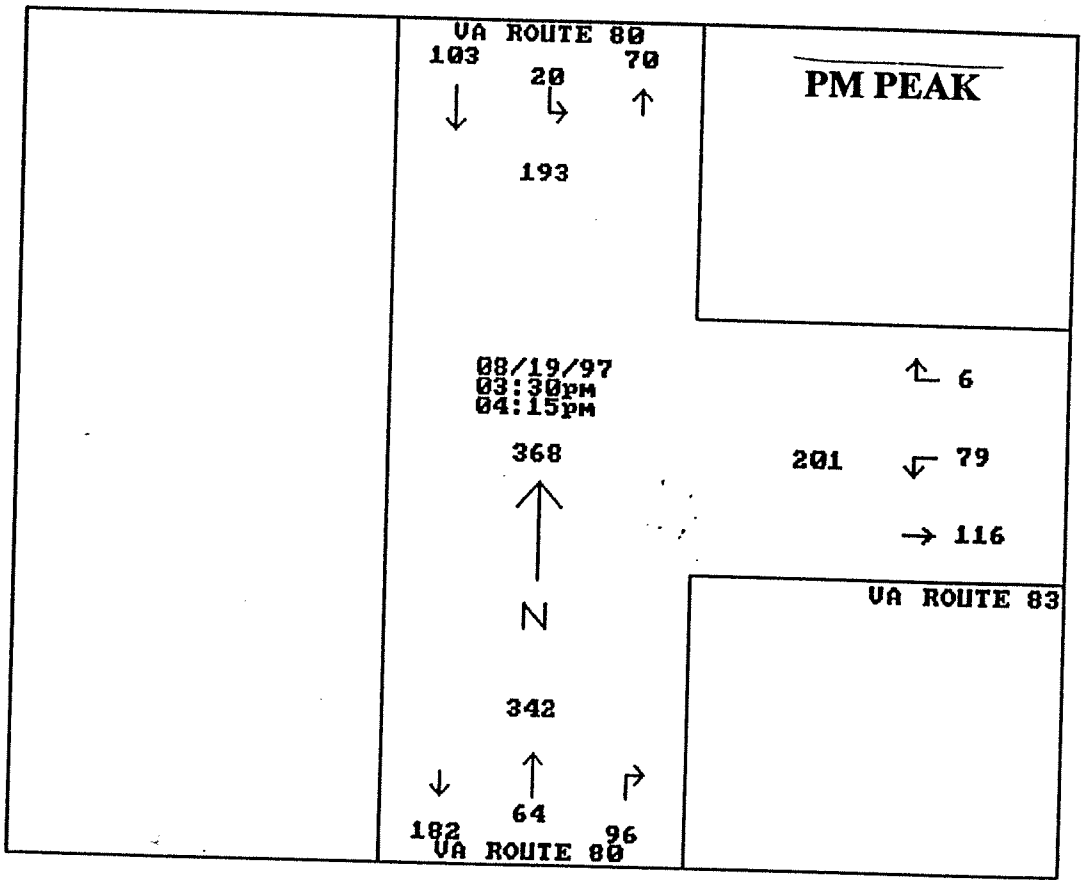
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0854
Other :M-4

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Nam
Site Code
Start Dat
Page

Vehicle group 1

Start Time	VA ROUTE 80 Southbound Left	Thru	Other	VA ROUTE 83 Westbound Left	Right	Other	VA ROUTE 80 Northbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 15:00 on 08/19/97 to 17:45 on 08/19/97										
Time	15:30			15:30			15:30			
Vol.	20	103	0	79	6	0	64	96	0	
Pct.	16.2	83.7	0.0	92.9	7.0	0.0	40.0	60.0	0.0	
Total	123			85			160			
High	16:15			16:00			15:30			
Vol.	11	64	0	23	2	0	26	29	0	
Total	75			25			55			
PHF	0.410			0.850			0.727			



'eather :SUNNY/DRY
'ounted by:CHI ASSOC.
Board # :D1-0854
Other :M-4

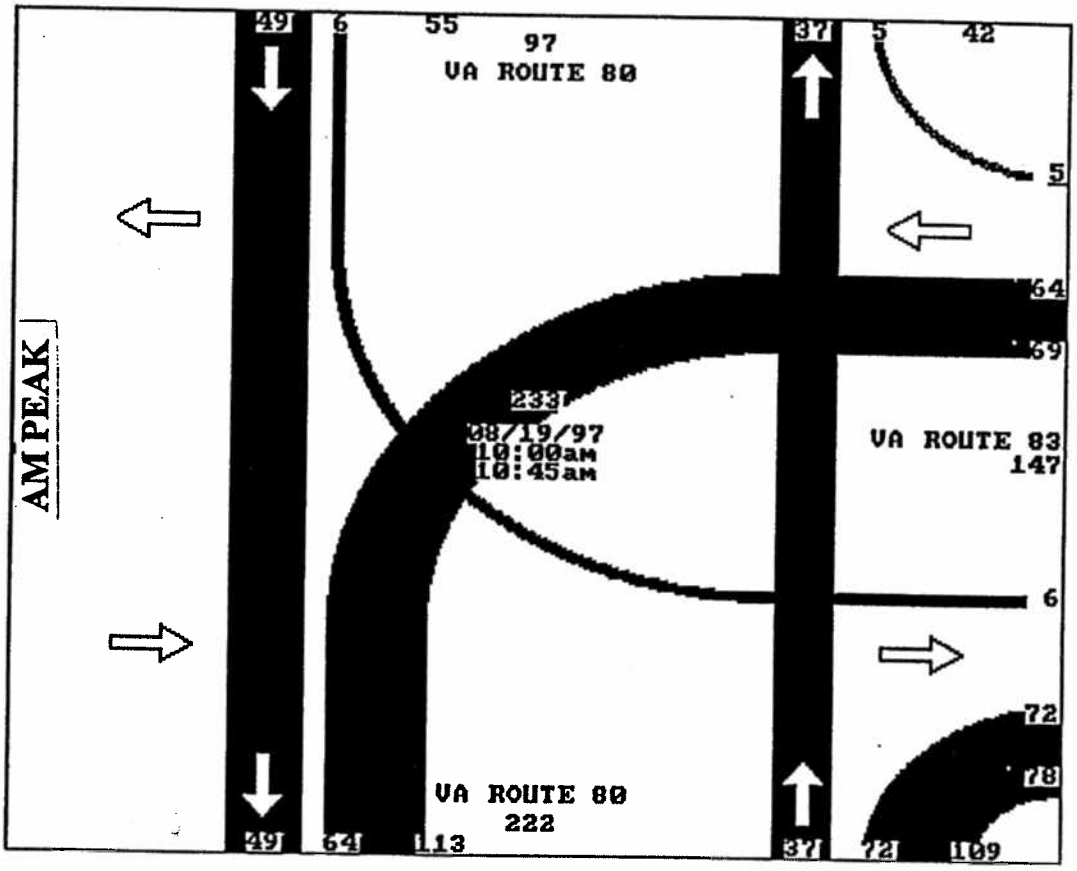
COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name:
Site Code :
Start Date:
Page

Vehicle group 1

Peak Hour Analysis By Entire Intersection for the Period: 08:00 on 08/19/97 to 10:45 on 08/19/97

Time	10:00			10:00			10:00			
Vol.	6	49	0	64	5	0	37	72	0	
Pct.	10.9	89.0	0.0	92.7	7.2	0.0	33.9	66.0	0.0	
Total	55			69			109			
High	10:30			10:15			10:00			
Vol.	3	18	0	16	2	0	10	24	0	
Total	21			18			34			
PHF	0.654			0.958			0.801			



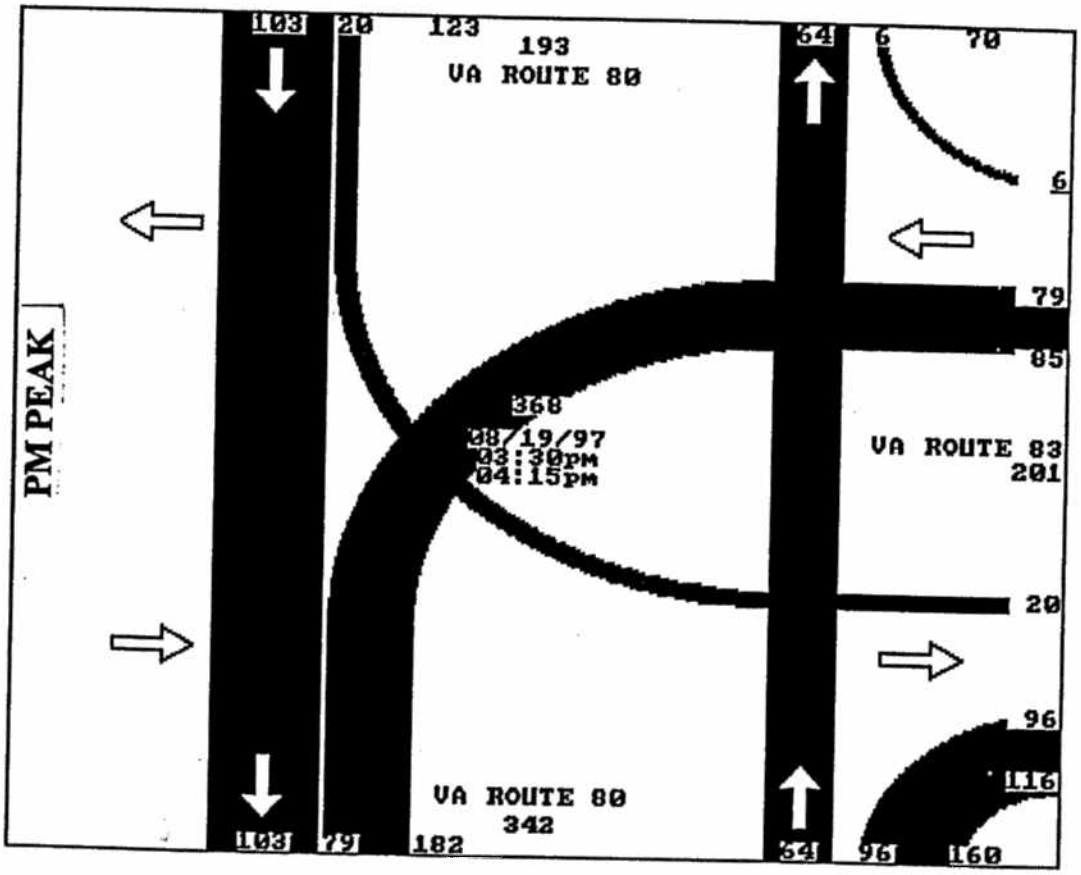
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0854
Other :M-4

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name
Site Code
Start Date
Page

Vehicle group 1

Start Time	VA ROUTE 80 Southbound Left	Thru	Other	VA ROUTE 83 Westbound Left	Right	Other	VA ROUTE 80 Northbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 15:00 on 08/19/97 to 17:45 on 08/19/97										
Time	15:30			15:30			15:30			
Vol.	20	103	0	79	6	0	64	96	0	
Pct.	16.2	83.7	0.0	92.9	7.0	0.0	40.0	60.0	0.0	
Total	123			85			160			
High	16:15			16:00			15:30			
Vol.	11	64	0	23	2	0	26	29	0	
Total	75			25			55			
PHF	0.410			0.850			0.727			



Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0852
Location :M-5 (US 460/VA 830 83-GRUNDY)

COAL FIELDS EXPRESSWAY
CHI ASSOCIATES, INC.

Study Name: M5_AMPM
Site Code : 0000000
Start Date: 08/19/9
Page : 1

Vehicle group 1

Start Time	VA ROUTE 83 Westbound Left	Thru	Other	US 460/VA 83 Northbound Left	Right	Other	US ROUTE 460 Eastbound Thru	Right	Other	Intrvl. Total
08/19/97										
08:00	0	96	0	56	79	0	55	0	0	286
08:15	0	94	0	61	68	0	35	0	0	258
08:30	0	79	0	68	69	0	31	0	0	247
08:45	0	59	0	64	64	0	23	0	0	210
Hour	0	328	0	249	280	0	144	0	0	1001
09:00	0	82	0	78	45	0	22	0	0	227
09:15	0	79	0	64	43	0	25	0	0	211
09:30	0	85	0	73	54	0	26	0	0	238
09:45	0	85	0	71	43	0	22	0	0	221
Hour	0	331	0	286	185	0	95	0	0	897
10:00	0	69	0	64	63	0	28	0	0	224
10:15	0	82	0	58	54	0	38	0	0	232
10:30	0	79	0	82	50	0	29	0	0	240
10:45	0	66	0	74	63	0	27	0	0	230
Hour	0	296	0	278	230	0	122	0	0	926
[BREAK]	---	---	---	---	---	---	---	---	---	---
15:00	0	81	0	107	84	0	23	0	0	295
15:15	0	121	0	91	70	0	39	0	0	321
15:30	0	139	0	93	76	0	28	0	0	336
15:45	0	125	0	100	73	0	27	0	0	325
Hour	0	466	0	391	303	0	117	0	0	1277
16:00	0	112	0	76	68	0	30	0	0	286
16:15	0	101	0	88	51	0	33	0	0	273
16:30	0	88	0	106	73	0	25	0	0	292
16:45	0	91	0	84	79	0	36	0	0	290
Hour	0	392	0	354	271	0	124	0	0	1141
17:00	0	96	0	139	109	0	49	0	0	393
17:15	0	123	0	82	74	0	26	0	0	305
17:30	0	101	0	68	71	0	28	0	0	268
17:45	0	63	0	80	68	0	35	0	0	246
Hour	0	383	0	369	322	0	138	0	0	1212
Total	0	2196	0	1927	1591	0	740	0	0	6454
% Apr.	-	100.0	-	54.7	45.2	-	100.0	-	-	-
% Int.	-	34.0	-	29.8	24.6	-	11.4	-	-	-

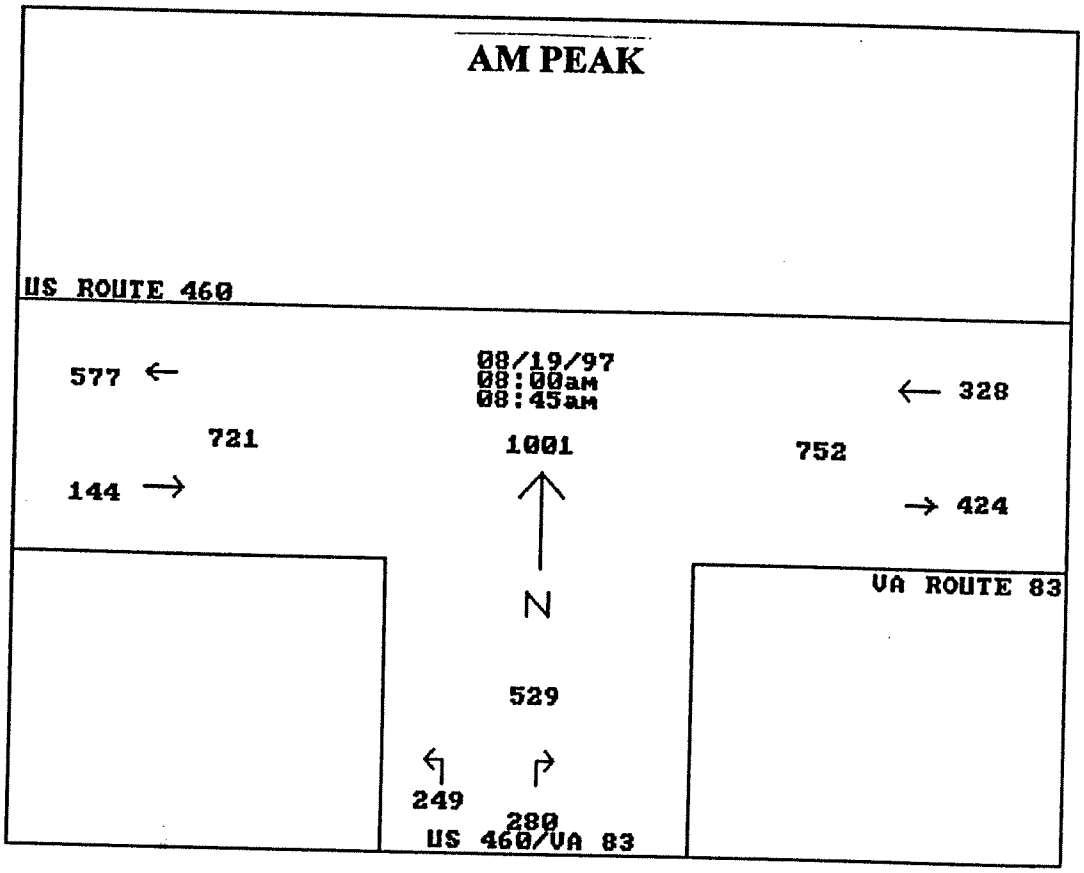
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0852
Location :M-5 (US 460/VA 83@ 83-GRUNDY)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name
Site Code
Start Date
Page

Vehicle group 1

Start Time	VA ROUTE 83 Westbound Left	Thru	Other	US 460/VA 83 Northbound Left	Right	Other	US ROUTE 460 Eastbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 08:00 on 08/19/97 to 10:45 on 08/19/97										
Time	08:00			08:00			08:00			
Vol.	0	328	0	249	280	0	144	0	0	
Pct.	0.0	100.0	0.0	47.0	52.9	0.0	100.0	0.0	0.0	
Total	328			529			144			
High	08:00			08:30			08:00			
Vol.	0	96	0	68	69	0	55	0	0	
Total	96			137			55			
PHF	0.854			0.965			0.654			



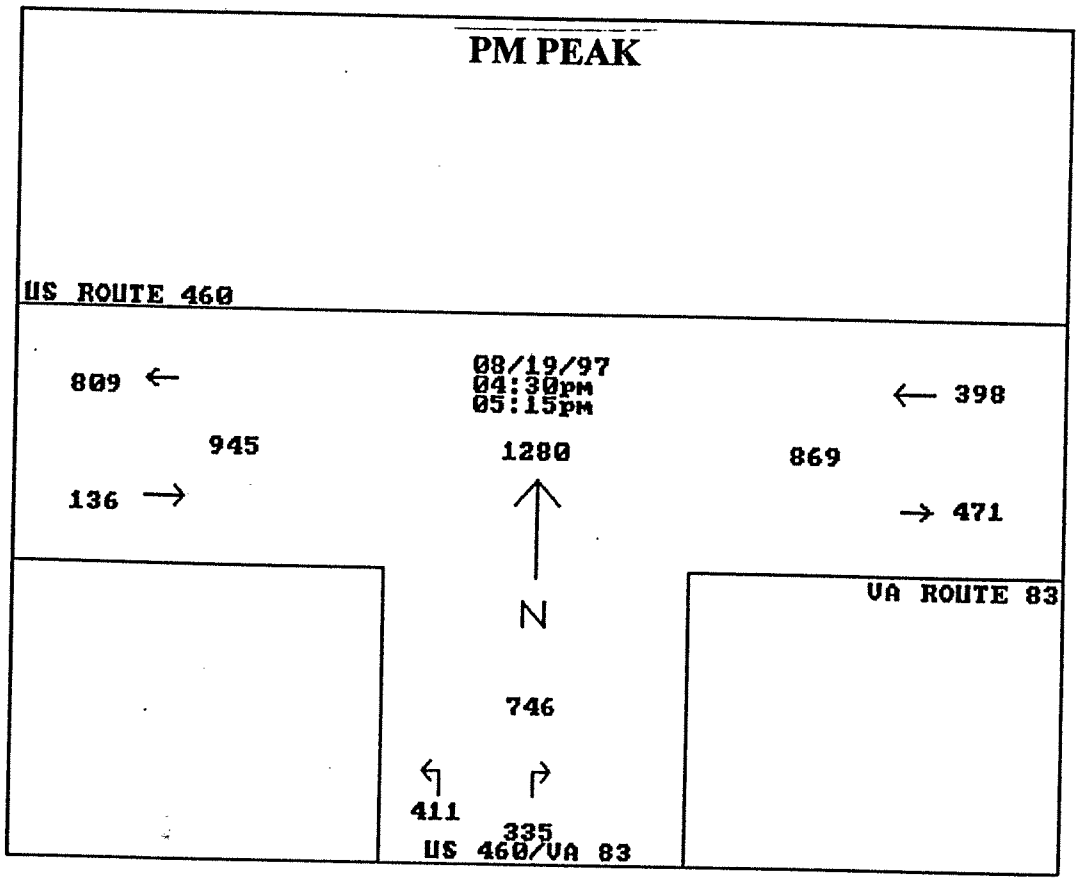
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0852
Location :M-5 (US 460/VA 83@ 83-GRUNDY)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name
Site Code
Start Date
Page

Vehicle group 1

Start Time	VA ROUTE 83 Westbound Left	Thru	Other	US 460/VA 83 Northbound Left	Right	Other	US ROUTE 460 Eastbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 15:00 on 08/19/97 to 17:45 on 08/19/97										
Time	16:30			16:30			16:30			
Vol.	0	398	0	411	335	0	136	0	0	
Pct.	0.0	100.0	0.0	55.0	44.9	0.0	100.0	0.0	0.0	
Total	398			746			136			
High	17:15			17:00			17:00			
Vol.	0	123	0	139	109	0	49	0	0	
Total	123			248			49			
PHF	0.808			0.752			0.693			



Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0852
Location :M-5 (US 460/VA 83@ 83-GRUNDY)

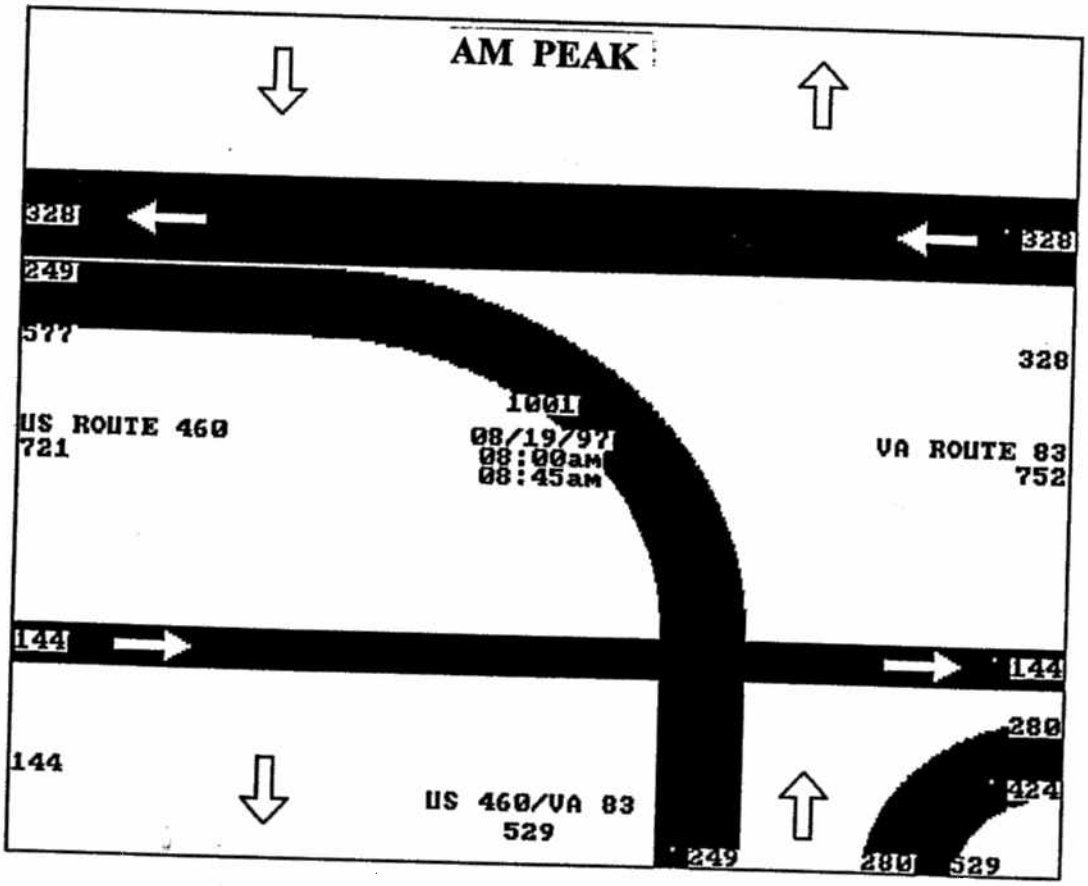
COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Name
Site Code
Start Date
Page

Vehicle group 1

Peak Hour Analysis By Entire Intersection for the Period: 08:00 on 08/19/97 to 10:45 on 08/19/97

Time	08:00			08:00			08:00		
Vol.	0	328	0	249	280	0	144	0	0
Pct.	0.0	100.0	0.0	47.0	52.9	0.0	100.0	0.0	0.0
Total	328			529			144		
High	08:00			08:30			08:00		
Vol.	0	96	0	68	69	0	55	0	0
Total	96			137			55		
PHF	0.854			0.965			0.654		



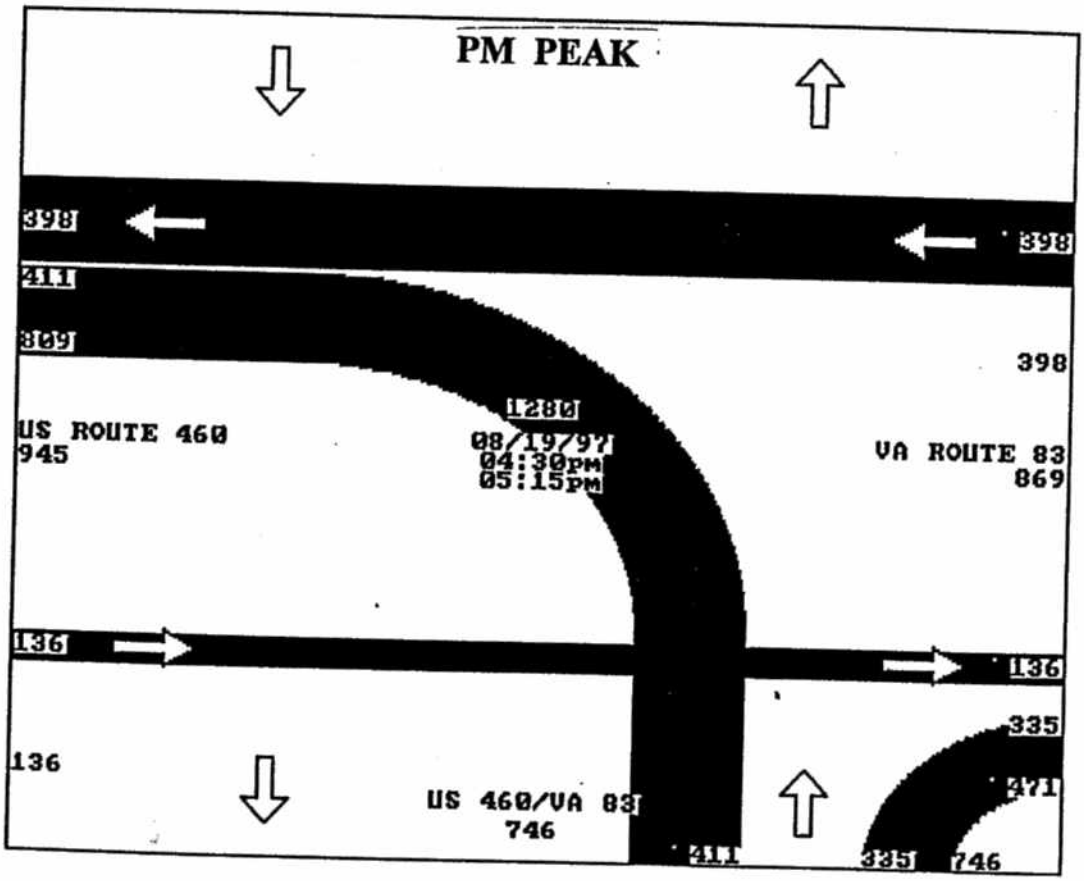
Weather :SUNNY/DRY
Counted by:CHI ASSOC.
Board # :D1-0852
Location :M-5 (US 460/VA 83@ 83-GRUNDY)

COAL FIELDS EXPRESSWAY
TURNING MOVEMENT COUNTS
CHI ASSOCIATES, INC.

Study Nam
Site Code
Start Dat
Page

Vehicle group 1

Start Time	VA ROUTE 83 Westbound Left	Thru	Other	US 460/VA 83 Northbound Left	Right	Other	US ROUTE 460 Eastbound Thru	Right	Other	Intrvl. Total
Peak Hour Analysis By Entire Intersection for the Period: 15:00 on 08/19/97 to 17:45 on 08/19/97										
Time	16:30			16:30			16:30			
Vol.	0	398	0	411	335	0	136	0	0	
Pct.	0.0	100.0	0.0	55.0	44.9	0.0	100.0	0.0	0.0	
Total	398			746			136			
High	17:15			17:00			17:00			
Vol.	0	123	0	139	109	0	49	0	0	
Total	123			248			49			
PHF	0.808			0.752			0.693			



APPENDIX C

VIDEO SURVEILLANCE COUNTS

Monday, August 18, 1997

	US 23 Northbound		US 23 Southbound		VA 83 Westbound		
	through	right turn	left turn	through	left turn	right turn	total
7:15	7	30	16	10	31	20	114
7:30	10	35	23	20	60	17	165
7:45	13	27	34	31	60	24	189
8:00	14	18	50	35	20	48	185
8:15	22	8	37	32	46	24	169
8:30	21	14	23	37	39	19	153
8:45	26	31	17	26	29	29	158
9:00	18	29	15	33	37	11	143
9:15	28	23	14	22	41	16	144
9:30	20	30	21	25	21	17	134
9:45	26	32	10	30	21	18	137
10:00	23	38	14	25	49	17	166
10:15	24	21	13	16	18	20	112
10:30	27	31	18	33	47	23	179
10:45	30	31	20	23	33	16	153
11:00	30	37	19	38	30	16	170
11:15	29	37	16	29	33	10	154
11:30	31	37	17	29	38	21	173
11:45	40	39	16	31	22	13	161
12:00	27	42	23	35	41	21	189
12:15	33	30	20	32	28	19	162
12:30	32	37	17	30	31	21	168
12:45	34	33	19	30	13	18	147
13:00	35	30	21	43	34	18	181
13:15	30	31	11	29	37	28	166
13:30	34	41	19	31	36	17	178
13:45	31	42	16	32	23	16	160
14:00	40	41	27	37	16	23	184
14:15	0	0	0	0	0	0	0
14:30	0	0	0	0	0	0	0
14:45	24	30	24	23	22	14	137
15:00	27	40	31	30	31	14	173
15:15	37	52	58	41	36	11	235
15:30	36	39	27	35	57	23	217
15:45	32	57	30	32	33	20	204
16:00	39	56	25	18	18	18	174
16:15	41	58	38	33	36	28	234
16:30	35	64	26	38	31	16	210
16:45	40	66	35	41	40	24	246
17:00	48	55	28	47	34	36	248
17:15	42	65	28	39	20	18	212
17:30	51	60	25	35	30	22	223
17:45	40	50	29	33	17	29	198
18:00	43	42	25	44	17	22	193
18:15	34	49	18	38	37	18	194
18:30	33	62	18	47	41	28	229
18:45	43	42	24	27	37	21	194
19:00	31	42	25	24	36	32	190
total	1411	1804	1080	1449	1507	954	8205

AM Peak 7:30-8:30, 708 vehs
PM Peak 16:15-17:15, 938 vehs

Monday, August 18, 1997

	VA83 Eastbound			VA83 Westbound			SR631 Northbound			SR631 Southbound			
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	total
7:30	3	61	2	7	98	6	1	0	0	25	3	9	215
7:45	8	124	9	5	93	26	0	1	2	25	4	16	313
8:00	19	76	3	2	110	27	1	0	0	15	1	14	268
8:15	6	68	0	2	86	13	0	0	1	14	0	9	199
8:30	17	80	0	1	96	8	0	0	3	17	0	13	235
8:45	7	78	0	1	60	10	2	0	2	15	0	6	181
9:00	9	38	0	0	74	11	0	1	0	14	1	14	162
9:15	10	79	1	2	89	11	0	0	0	21	1	10	224
9:30	5	72	0	0	76	11	0	0	1	13	1	11	190
9:45	4	87	0	1	96	12	1	0	2	15	0	12	230
10:00	6	82	0	3	98	16	0	0	1	20	1	10	237
10:15	7	71	0	1	88	9	0	1	2	17	0	20	216
10:30	3	78	0	1	100	14	0	0	0	24	0	4	224
10:45	9	71	0	2	68	12	1	0	0	20	0	9	192
11:00	16	83	0	0	83	12	0	0	1	21	0	16	232
11:15	3	87	2	1	91	15	1	0	0	27	0	10	237
11:30	10	86	0	0	77	16	2	0	2	19	0	10	222
11:45	11	84	1	2	101	8	4	0	0	16	0	11	238
12:00	14	91	1	1	109	8	2	1	1	18	0	8	254
12:15	8	89	2	1	103	18	0	0	0	14	0	15	250
12:30	12	91	0	0	91	9	0	1	1	9	0	14	228
12:45	7	83	0	3	111	8	0	0	0	15	0	11	238
13:00	6	103	0	0	86	10	2	0	2	12	0	6	227
13:15	4	71	0	1	95	12	0	1	1	13	0	14	212
13:30	3	103	0	1	102	8	2	0	7	19	0	9	254
13:45	5	96	0	2	83	9	1	0	1	18	0	14	229
14:00	9	97	0	0	92	9	1	1	1	7	0	14	231
14:15	6	85	0	0	79	12	1	0	0	20	0	10	213
14:30	6	104	1	1	99	5	2	0	1	13	0	13	245
14:45	8	92	0	1	99	8	1	0	2	11	0	8	230
15:00	9	112	1	4	129	15	10	5	12	12	0	8	317
15:15	14	97	1	4	112	20	2	2	0	10	1	9	272
15:30	8	116	1	2	105	8	3	0	0	6	1	13	263
15:45	11	129	0	1	105	18	0	1	0	15	0	14	294
16:00	10	119	1	4	81	13	3	0	1	21	1	9	263
16:15	6	118	0	2	126	12	1	1	2	11	0	10	289
16:30	8	114	1	1	100	15	2	0	2	31	0	15	289
16:45	8	111	0	3	98	14	1	0	3	18	0	6	262
17:00	9	119	1	1	120	16	3	1	1	15	0	16	302
17:15	8	127	2	3	121	16	6	0	1	13	0	8	305
17:30	26	111	2	7	93	12	0	1	0	14	0	17	283
17:45	14	120	5	4	88	10	3	0	4	19	0	7	274
18:00	13	86	0	7	99	9	3	0	4	8	0	13	242
18:15	12	86	2	2	73	11	5	3	6	15	1	8	224
18:30	14	99	2	4	85	15	11	2	7	12	1	12	264
18:45	7	79	1	4	74	8	3	1	3	13	0	8	201
19:00	6	97	2	4	73	9	4	2	1	9	0	7	214
19:15	8	102	0	2	78	7	2	1	0	8	9	8	225
total	432	4452	44	101	4493	581	87	27	81	757	26	528	11609

AM Peak 7:45-8:45, 1015 vehs
PM Peak 17:00-18:00, 1164 vehs

Monday, August 18, 1997

	VA 63 Northbound		VA 83 Eastbound		VA 83 Westbound		
	left turn	right turn	through	right turn	left turn	through	total
7:45	23	20	26	19	9	26	123
8:00	19	6	10	16	15	29	95
8:15	17	9	12	6	11	31	85
8:30	24	7	13	20	5	21	90
8:45	12	5	14	3	8	19	61
9:00	20	14	20	10	0	0	64
9:15	14	7	25	13	10	6	75
9:30	22	12	13	16	2	16	81
9:45	10	10	16	14	11	24	85
10:00	13	8	16	13	6	16	72
10:15	12	6	17	11	11	22	79
10:30	14	5	23	12	5	14	73
10:45	15	17	7	11	16	26	92
11:00	3	5	15	18	6	22	69
11:15	18	19	17	17	6	25	102
11:30	10	13	32	19	9	26	109
11:45	13	3	21	22	8	20	87
12:00	4	6	18	5	8	25	66
12:15	13	8	23	16	8	19	87
12:30	9	11	10	9	6	22	67
12:45	13	12	17	18	11	24	95
13:00	5	8	17	18	8	10	66
13:15	8	9	2	1	6	14	40
13:30	12	15	21	19	5	23	95
13:45	4	7	26	21	10	33	101
14:00	14	10	22	12	10	19	87
14:15	10	3	24	13	5	17	72
14:30	15	13	18	18	7	18	89
14:45	11	8	17	19	13	52	120
15:00	15	9	15	14	12	39	104
15:15	20	16	18	18	8	22	102
15:30	13	20	23	16	9	22	103
15:45	16	9	31	19	4	17	96
16:00	14	4	23	18	11	19	89
16:15	17	11	26	19	7	18	98
16:30	15	16	22	18	3	22	96
16:45	14	10	28	28	9	31	120
17:00	15	9	27	16	5	17	89
17:15	15	12	29	20	8	12	96
17:30	17	16	18	9	10	14	84
17:45	25	10	22	22	7	12	98
18:00	21	7	25	17	4	13	87
18:15	23	6	17	14	8	17	85
18:30	8	6	12	9	1	8	44
18:45	14	9	16	10	7	9	65
19:00	8	6	12	9	1	15	51
19:15	10	10	11	9	4	13	57
19:30	10	8	12	9	1	14	54
total	667	470	899	702	354	953	4045

AM Peak 7:45-8:45, 393 vehs
PM Peak 14:45-15:45, 429 vehs

Thursday, August 21, 1997

	VA 83 Northbound		US460/VA83 Eastbound		US 460 Westbound		
	left turn	right turn	through	right turn	left turn	through	total
7:30	83	23	46	26	34	73	285
7:45	111	20	65	30	28	88	342
8:00	92	19	56	36	19	91	313
8:15	101	46	56	36	16	75	330
8:30	72	30	63	51	22	69	307
8:45	65	43	34	45	32	75	294
9:00	39	44	61	43	25	50	262
9:15	65	43	61	41	24	60	294
9:30	56	33	44	50	20	72	275
9:45	48	47	71	54	34	55	309
10:00	49	51	63	56	32	62	313
10:15	48	45	67	42	17	53	272
10:30	44	48	68	37	27	80	304
10:45	47	29	49	48	28	82	283
11:00	50	43	74	48	30	60	305
11:15	43	36	82	69	41	90	361
11:30	56	41	60	56	44	86	343
11:45	29	33	76	61	38	64	301
12:00	23	33	82	55	35	91	319
12:15	48	38	86	68	29	82	351
12:30	12	34	86	53	32	88	305
12:45	12	36	83	59	27	75	292
13:00	29	27	71	51	31	60	269
13:15	48	33	66	56	35	65	303
13:30	39	43	84	56	32	83	337
13:45	32	32	71	45	30	72	282
14:00	45	40	78	59	42	33	297
14:15	54	50	94	56	53	87	394
14:30	43	44	90	53	54	91	375
14:45	40	50	89	56	41	84	360
15:00	55	40	94	79	39	87	394
15:15	34	34	82	71	48	83	352
15:30	67	33	87	89	35	85	396
15:45	44	38	101	91	39	84	397
16:00	58	51	94	69	46	79	397
16:15	46	43	87	65	51	82	374
16:30	61	47	87	80	51	91	417
16:45	52	37	83	99	40	99	410
17:00	55	51	107	24	52	90	379
17:15	61	35	67	81	114	167	525
17:30	50	37	73	77	46	85	368
17:45	69	30	61	49	39	72	320
18:00	51	22	56	55	43	62	289
18:15	39	28	55	60	48	67	297
18:30	45	23	61	55	30	63	277
18:45	39	16	57	61	31	54	258
19:00	54	14	42	52	32	41	235
19:15	23	17	32	52	28	48	200
total	2426	1730	3402	2705	1764	3635	15662

AM Peak 11:15-12:15, 1324 vehs
PM Peak 16:30-17:30, 1731 vehs

Wednesday, August 20 and Thursday, August 21, 1997

	SR 643 Southbound		VA 83 Eastbound		VA 83 Westbound		
	left turn	right turn	left turn	through	through	right turn	total
8:00	6	15	4	28	43	3	99
8:15	17	2	6	24	31	2	82
8:30	3	17	10	10	28	1	69
8:45	8	10	7	6	27	0	58
9:00	3	4	7	7	18	1	40
9:15	4	10	6	9	15	3	47
9:30	2	17	6	10	14	1	50
9:45	3	8	2	12	23	4	52
10:00	6	10	7	12	14	0	49
10:15	2	7	7	10	15	0	41
10:30	4	7	9	11	11	3	45
10:45	5	11	9	11	16	2	54
11:00	4	6	7	3	10	0	30
11:15	2	7	8	8	16	1	42
11:30	4	8	10	10	10	2	44
11:45	1	10	15	12	10	2	50
12:00	1	11	7	12	10	5	46
12:15	1	16	12	13	14	1	57
12:30	6	9	4	12	12	1	44
12:45	4	5	14	12	15	5	55
13:00	2	11	7	14	19	1	54
13:15	4	13	15	10	17	0	59
13:30	4	8	13	10	17	3	55
13:45	6	6	9	15	19	3	58
14:00	5	17	16	20	12	1	71
14:15	3	9	9	17	17	4	59
14:30	1	15	11	12	10	4	53
14:45	8	11	12	25	16	6	78
15:00	2	6	16	23	17	3	67
15:15	6	18	9	19	9	2	63
15:30	5	12	12	27	21	5	82
15:45	5	11	6	13	24	3	62
16:00	6	19	18	29	11	4	87
16:15	3	5	5	24	12	8	57
16:30	5	13	13	17	13	6	67
16:45	6	7	17	18	15	6	69
17:00	3	4	11	35	14	4	71
17:15	6	4	17	27	16	8	78
17:30	2	9	20	21	8	4	64
17:45	7	3	10	21	11	2	54
18:00	1	14	9	15	10	5	54
18:15	1	8	13	15	8	5	50
18:30	1	12	9	18	14	7	61
18:45	5	7	8	16	15	3	54
19:00	4	4	4	16	3	4	35
19:15	0	2	11	15	6	4	38
19:30	2	4	8	14	11	2	41
19:45	3	3	4	13	4	3	30
total	192	445	469	751	721	147	2725

AM Peak 8:00-9:00, 308 vehs
PM Peak 15:15-16:15, 294 vehs

Saturday, August 16, 1997

	Park Entrance		VA 80 Northbound		VA 80 Southbound		
	left turn	right turn	left turn	through	through	right turn	total
8:00	1	2	2	2	2	3	12
8:15	3	1	0	3	6	2	15
8:30	2	3	3	5	5	1	19
8:45	3	2	2	5	3	5	20
9:00	2	2	0	3	8	0	15
9:15	1	3	1	4	2	3	14
9:30	1	1	0	6	4	2	14
9:45	5	1	3	2	4	2	17
10:00	7	1	9	4	5	5	31
10:15	2	1	3	2	9	6	23
10:30	9	4	7	5	6	10	41
10:45	2	2	6	6	9	6	31
11:00	3	5	13	3	8	10	42
11:15	4	2	9	2	6	13	36
11:30	2	3	9	6	3	15	38
11:45	1	0	4	7	6	10	28
12:00	3	1	7	5	8	5	29
12:15	4	3	8	6	7	13	41
12:30	1	5	6	8	9	20	49
12:45	4	4	6	3	19	20	56
13:00	6	4	2	6	7	5	30
13:15	9	4	11	9	2	19	54
13:30	6	5	4	4	10	14	43
13:45	8	7	7	9	4	13	48
14:00	5	7	8	10	10	14	54
14:15	7	3	3	6	5	10	34
14:30	17	4	7	6	6	5	45
14:45	9	5	1	6	2	12	35
15:00	14	11	3	4	11	8	51
15:15	14	1	2	3	8	4	32
15:30	9	9	6	3	5	2	34
15:45	5	1	5	3	10	13	37
16:00	13	10	4	8	10	6	51
16:15	24	9	0	8	4	4	49
16:30	11	2	1	4	2	2	22
16:45	2	8	3	5	4	6	28
17:00	11	9	6	13	7	12	58
17:15	8	7	10	6	4	9	44
17:30	5	10	1	9	7	10	42
17:45	13	7	6	9	9	17	61
18:00	10	4	7	7	9	20	57
18:15	14	6	6	5	12	7	50
18:30	10	4	8	5	6	17	50
18:45	4	2	18	5	5	18	52
19:00	12	4	7	6	10	9	48
19:15	7	5	6	6	5	7	36
19:30	6	1	6	3	0	6	22
total	**313**	**189**	**241**	**245**	**290**	**414**	**1692**

AM Peak 10:30-11:30, 150 vehs
PM Peak 17:45-18:45, 218 vehs

Saturday, August 16, 1997

	VA80 Northbound		VA 80 Southbound		SR 609 Westbound		
	through	right turn	left turn	through	left turn	right turn	total
8:00	1	0	2	4	1	2	10
8:15	4	0	3	4	0	3	14
8:30	7	0	3	3	0	1	14
8:45	7	0	2	5	4	1	19
9:00	13	0	6	5	4	7	35
9:15	2	0	4	9	0	2	17
9:30	4	0	3	3	0	6	16
9:45	5	0	0	4	0	4	13
10:00	10	0	2	7	0	3	22
10:15	14	0	5	12	0	4	35
10:30	8	1	2	14	1	2	28
10:45	4	0	4	6	0	4	18
11:00	3	0	2	15	0	2	22
11:15	4	0	1	14	0	3	22
11:30	6	0	3	17	0	5	31
11:45	8	0	2	8	1	4	23
12:00	7	0	4	10	0	6	27
12:15	7	0	3	14	1	6	31
12:30	7	0	6	23	0	5	41
12:45	6	0	7	23	0	5	41
13:00	9	0	9	18	1	8	45
13:15	10	0	7	16	0	7	40
13:30	6	0	10	13	0	5	34
13:45	13	0	0	12	0	1	26
14:00	12	1	3	13	0	5	34
14:15	5	0	3	15	0	8	31
14:30	15	0	0	11	0	6	32
14:45	9	0	5	15	0	5	34
15:00	9	0	6	9	0	6	30
15:15	12	0	3	10	0	7	32
15:30	6	0	4	10	0	4	24
15:45	5	0	2	15	0	3	25
16:00	15	0	4	10	0	6	35
16:15	17	0	3	9	0	4	33
16:30	10	0	5	6	0	6	27
16:45	18	0	2	7	0	3	30
17:00	19	0	2	12	1	3	37
17:15	8	0	1	13	0	3	25
17:30	14	0	7	18	0	1	40
17:45	11	1	6	15	1	4	38
18:00	11	0	3	17	0	5	36
18:15	10	0	1	13	0	1	25
18:30	10	1	7	16	0	8	42
18:45	5	0	2	17	0	4	28
19:00	11	0	5	13	0	6	35
19:15	9	0	5	10	1	4	29
19:30	4	1	5	7	0	7	24
19:45	8	1	4	10	0	6	29
total	406	6	170	539	15	205	1341

AM Peak 11:15-12:15, 112 vehs
PM Peak 12:15-13:15, 167 vehs

Friday, August 15, 1997

	SR 609 Eastbound		US 460 Eastbound		US 460 Westbound		
	left turn	right turn	through	right turn	left turn	through	total
8:45	10	31	65	0	1	39	146
9:00	4	22	39	6	10	28	109
9:15	7	20	50	15	8	26	126
9:30	4	19	44	5	6	31	109
9:45	7	19	48	4	14	32	124
10:00	5	32	44	7	13	37	138
10:15	6	11	41	10	16	34	118
10:30	11	21	34	7	14	40	127
10:45	8	21	63	10	13	44	159
11:00	3	12	50	10	18	21	114
11:15	5	24	54	5	18	35	141
11:30	6	17	44	31	24	48	170
11:45	9	21	37	5	13	51	136
12:00	4	21	57	9	47	27	165
12:15	13	31	40	17	17	43	161
12:30	12	26	46	4	19	46	153
12:45	8	26	45	9	24	40	152
13:00	13	12	39	10	22	47	143
13:15	10	18	58	8	16	51	161
13:30	3	23	40	11	22	52	151
13:45	9	27	49	7	17	45	154
14:00	11	26	50	8	12	56	163
14:15	3	26	50	9	24	41	153
14:30	18	6	48	10	15	78	175
14:45	4	22	36	14	15	44	135
15:00	4	23	48	9	12	46	142
15:15	7	13	78	0	21	64	183
15:30	6	18	56	8	36	50	174
15:45	4	26	69	7	25	67	198
16:00	7	31	36	10	30	61	175
16:15	9	29	50	5	24	42	159
16:30	8	26	37	6	54	32	163
16:45	3	14	50	6	28	52	153
17:00	1	26	52	6	21	79	185
17:15	7	23	62	1	28	78	199
17:30	7	17	45	8	15	59	151
17:45	10	19	35	6	22	61	153
18:00	2	12	29	8	23	40	114
18:15	12	28	28	6	25	46	145
18:30	6	14	31	2	13	34	100
18:45	5	10	22	4	20	32	93
19:00	6	12	19	2	13	29	81
19:15	2	12	21	6	16	43	100
19:30	0	0	0	0	0	0	0
19:45	0	0	0	0	0	0	0
20:00	0	0	0	0	0	0	0
20:15	0	0	0	0	0	0	0
20:30	0	0	0	0	41	0	41
total	299	887	1939	331	885	1951	6292

AM Peak 11:15-12:15, 632 vehs
PM Peak 15:00-16:00, 730 vehs

APPENDIX D

VEHICLE CLASSIFICATION

V-4 trucks

Thursday, August 21, 1997

	VA 83/80 Northbound		VA 63 Eastbound		VA 83/80 Westbound		
	left turn	right turn	through	right turn	left turn	through	total
8:00	3	5	0	0	9	0	**17**
9:00	3	7	1	1	6	1	**19**
10:00	1	6	2	2	4	2	**17**
11:00	2	11	0	1	7	2	**23**
12:00	5	10	1	2	15	2	**35**
13:00	6	9	2	2	12	1	**32**
14:00	0	14	1	7	14	0	**36**
15:00	4	7	0	4	7	0	**22**
16:00	1	6	0	4	16	0	**27**
17:00	0	4	0	4	3	0	**11**
18:00	2	5	0	0	0	0	**7**
19:00	0	1	0	0	0	0	**1**
total	**27**	**85**	**7**	**27**	**93**	**8**	**247**

V-3 trucks

Monday, August 18, 1997

	VA 63 Northbound		VA 83 Eastbound		VA 83 Westbound		
	left turn	right turn	through	right turn	left turn	through	total
8:00	10	8	10	10	16	9	**63**
9:00	16	24	6	0	12	12	**70**
10:00	10	13	11	0	12	12	**58**
11:00	11	11	7	0	12	12	**53**
12:00	12	17	1	0	12	12	**54**
13:00	10	8	10	0	12	12	**52**
14:00	9	15	4	0	12	12	**52**
15:00	15	4	7	0	12	12	**50**
16:00	9	8	0	0	12	12	**41**
17:00	7	7	0	0	12	12	**38**
18:00	8	6	0	0	12	12	**38**
total	**117**	**121**	**56**	**10**	**136**	**129**	**569**

V-6 trucks

Wednesday, August 20, 1997

	VA 460 Eastbound		VA 460 Westbound		
	through	right turn	left turn	through	total
8:00	3	8	9	22	**42**
9:00	8	9	20	17	**54**
10:00	4	13	32	16	**65**
11:00	4	17	20	24	**65**
12:00	2	15	15	19	**51**
13:00	2	14	20	18	**54**
14:00	2	24	18	19	**63**
15:00	1	22	18	23	**64**
16:00	5	15	14	15	**49**
17:00	2	9	10	9	**30**
18:00	3	4	5	9	**21**
19:00	0	4	3	9	**16**
total	**36**	**154**	**184**	**200**	**574**

V-5 trucks

Thursday, August 21, 1997

	VA 83 Northbound		US460/VA83 Eastbound		US 460 Westbound		
	left turn	right turn	through	right turn	left turn	through	total
8:00	6	10	24	5	15	48	**108**
9:00	5	12	37	10	8	38	**110**
10:00	3	24	30	5	16	44	**122**
11:00	6	25	36	6	18	33	**124**
12:00	6	15	38	6	14	35	**114**
13:00	2	19	42	4	16	33	**116**
14:00	8	15	52	8	13	39	**135**
15:00	5	7	47	18	12	32	**121**
16:00	6	14	32	8	17	31	**108**
17:00	2	5	25	10	10	20	**72**
18:00	2	3	14	5	8	17	**49**
total	**51**	**149**	**377**	**85**	**147**	**370**	**1179**

V-8 trucks

Saturday, August 16, 1997

	Park Entrance		VA 80 Northbound		VA 80 Southbound		
	left turn	right turn	left turn	through	through	right turn	total
8:00	2	1	0	0	0	5	8
9:00	2	0	0	0	0	2	4
10:00	4	0	0	0	0	2	6
11:00	3	1	0	0	0	3	7
12:00	0	0	0	0	1	0	1
13:00	0	0	0	0	0	0	0
14:00	0	0	0	0	0	0	0
15:00	0	0	0	0	0	0	0
16:00	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0
18:00	0	0	0	0	0	0	0
total	**11**	**2**	**0**	**0**	**1**	**12**	**26**

V-7 trucks

Wednesday, August 20 and Thursday, August 21, 1997

	SR 643 Southbound		VA 83 Eastbound		VA 83 Westbound		
	left turn	right turn	left turn	through	through	right turn	total
8:00	0	2	5	3	3	0	13
9:00	0	1	0	1	2	5	9
10:00	1	0	0	1	0	0	2
11:00	0	0	2	0	0	0	2
12:00	1	1	0	0	4	1	7
13:00	3	3	2	0	2	0	10
14:00	1	3	1	4	2	1	12
15:00	0	3	1	4	5	1	14
16:00	0	3	1	0	1	1	6
17:00	0	3	1	0	0	0	4
18:00	0	0	1	0	0	0	1
19:00	1	0	0	0	0	0	1
total	**7**	**19**	**14**	**13**	**19**	**9**	**81**

V-10 trucks

Friday, August 15, 1997

	SR 609 SB		US 460 Eastbound		US 460 Westbound		
	left turns	right turns	through	right turns	left turns	through	total
9:00	9	5	24	14	5	18	75
10:00	14	4	23	6	6	30	83
11:00	11	5	19	9	4	24	72
12:00	10	5	29	9	4	21	78
13:00	11	1	26	10	4	21	73
14:00	7	6	15	10	1	25	64
15:00	7	6	25	6	4	28	76
16:00	5	1	13	8	4	10	41
17:00	5	3	15	4	3	11	41
18:00	0	0	3	3	0	5	11
19:00	0	0	1	0	0	0	1
total	**79**	**36**	**193**	**79**	**35**	**193**	**615**

V-9 trucks

Saturday, August 16, 1997

	VA80 Northbound		VA 80 Southbound		SR 609 Westbound		
	through	right turn	left turn	through	left turn	right turn	total
8:00	0	0	0	6	0	0	6
9:00	2	0	0	4	0	0	6
10:00	2	0	0	3	0	0	5
11:00	1	0	0	4	0	0	5
12:00	0	0	1	1	0	0	2
13:00	0	0	1	0	0	0	1
14:00	0	0	0	0	0	0	0
15:00	0	0	0	1	0	0	1
16:00	0	0	0	0	0	1	1
17:00	0	0	0	0	0	0	0
18:00	0	0	0	0	0	0	0
19:00	0	0	0	0	0	0	0
total	**5**	**0**	**2**	**19**	**0**	**1**	**27**

APPENDIX E

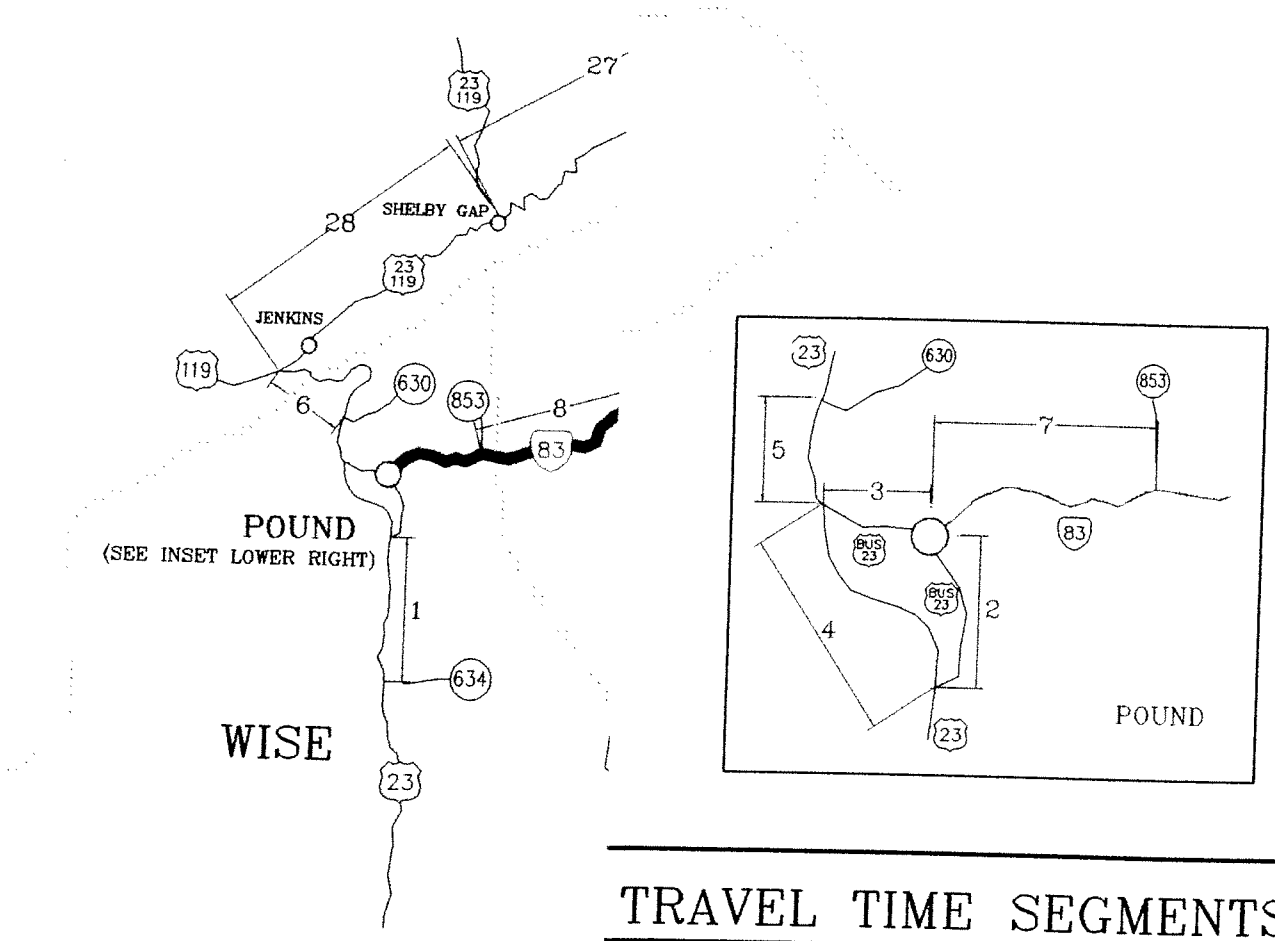
TRAVEL TIME DATA

#	Road	Segment	Distance (miles)	Travel Time (seconds) AM (8-11)	MID (11-3)	PM (3-7)	Average	Speed (mph)
1	US 23	VA 634 to US 23 Bus. (South)	3.4	234	235 238	233	235.000	52.1
2	US 23 Bus.	US 23 to VA 83	1.8	212 174 164	168 199	174	181.833	35.6
3	US 23 Bus.	VA 83 to US 23	1.2	137 144	150	157 146	146.800	29.4
4	US 23	US 23 Bus. South to US 23 Bus. North	2.4		167 164 166	160 167	164.800	52.4
5	US 23	US 23 Bus. North to VA 630	0.9	63 70	60 60	70 64	64.500	50.2
6	US 23	VA 630 to US 119	3.5	303 315	286	280 311	299.000	42.1
7	VA 83	US 23 Bus. to VA 853	2.9	227 229	248 268	237 500 235	277.714	37.6
8	VA 83	VA 853 to VA 72	4.3	285 322	290 305	324 340	311.000	49.8
9	VA 83	VA 72 to VA 631	1.5	105 120	152	164 132 160	138.833	38.9
10	VA 83	VA 631 to VA 63 south	6.5	605	745 759	598 605 624	656.000	35.7
11	VA 83	VA 63 south to VA 63 north	4.8	393 419	388 435	396 427	409.667	42.2
12	VA 83	VA 63 north to VA 80 south	6.1	483 520	460	502 510 522	499.500	44.0
13	VA 83	VA 80 south to VA 80 north	1.5	175 174		134 163 200 181	171.167	31.5
14	VA 83	VA 80 north to VA 604	5.7	774 600	636 594	608 602	635.667	32.3
15	VA 83	VA 604 to US 460	7.7	840 730	718 786	756 808	773.000	35.9
16	VA 83/US 460	US 460 to VA 83	4.2	434	445 472	520 435 462	461.333	32.8
17	VA 83	US 460 to VA 642	4.8	450 435	433 433 485	500 440	453.714	34.1

#	Road	Segment	Distance (miles)	Travel Time (seconds) AM (8-11)	MID (11-3)	PM (3-7)	Average	Speed (mph)
18	VA 83	VA 642 to VA 643	4.2	380	370 385	374 375	376.800	40.1
19	VA 83	VA 643 to State Line	6.9		674 765 745	676	715.000	34.7
20	US 460	VA 83 to VA 638	4.0			315 293 313	307.000	46.9
21	US 460	VA 638 to VA 624	3.6			298 270 317	295.000	43.9
22	US 460	VA 624 to VA 680	3.7			268 268 298	278.000	47.9
23	US 460	VA 83 to VA 609	5.8	542		589 491 485	526.750	39.6
24	US 460	VA 609 to KY 80	17.6	1372 1292		1414	1359.333	46.6
25	KY 80	US 460 to KY 197	3.1	293 292 377		276	309.500	36.1
26	KY 197	KY 80 to KY 195	5.6	690 616	675	639	655.000	30.8
27	KY 197	KY 195 to US 23	9.5	880 962 850	821 826	835	862.333	39.7
28	US 23	KY 197 to US 119	6.6	750 830	771 797	790	787.600	30.2
29	VA 72	VA 83 to VA 665	4.9		500 513		506.500	34.8
30	VA 63	VA 83 to VA 652	3.7			360 359	359.500	37.1
31	VA 80	VA 83 to VA 670	2	210		190 196	198.667	36.2
32	VA 80	VA 83 to VA 609	8	778	802 894	813 850	827.400	34.8
33	VA 80	VA 609 to KY 197	5.5	540 535		579	551.333	35.9
34	VA 609	VA 80 to US 460	9.5	1019 1015 1030		1079 990 1056	1031.500	33.2

COALFIELDS EXPR

Project No. R000-961-101,
From: US 23 at Pound
To: West Virginia State Line



TRAVEL TIME SEGMENTS

BELLOMO-McGEE, INC. BMI

8330 Boone Boulevard-Suite 700
Vienna, Virginia 22182
703 / 847-3071

Appendix E

Approx. Scale:
1" = 4.5 miles