

FROM: FITZPATRICK NP NY Leaving : 06/01/04 03:27
 TO : YUCCA MOUNTAIN NV Arriving: 06/02/04 22:13

Miles	Hwy	Sign	City	Dir	Junction	State	Dist	Time	Date	Hour
0.0			FITZPATRICK NP			NY	0.0	0:00	06/01/04	
03:27										
3.1	LOCAL		NORTH SCRIBA	S	S104LOCL	NY	3.1	0:05	06/01/04	
03:32										
13.7	S104		MAPLE VIEW	E	I81 X34	NY	16.8	0:25	06/01/04	
03:52										
26.8	I81		SYRACUSE	N	I81 I90	NY	43.6	0:52	06/01/04	
04:19										
137.2	I90 \$	TNYT\$	BUFFALO	NE	I290I90	NY	180.8	3:01	06/01/04	
06:28										
9.8	I90	TNYT	LACKAWANNA	E	I90 X55	NY	190.7	3:11	06/01/04	
06:38										
			Rest 30 minutes							
64.6	I90 \$	TNYT\$	RIPLEY	W	I90 X61	NY	255.3	4:42	06/01/04	
08:09										
1.1	I90		crossing state border NY/PA				256.3	4:43	06/01/04	
08:10										
43.2	I90		CHERRY HILL	N	I90 X3	PA	299.6	5:24	06/01/04	
08:51										
3.0	I90		crossing state border OH/PA				302.5	5:26	06/01/04	
08:53										
55.3	I90		WILLOUGHBY HLS	W	I271I90	OH	357.9	6:27	06/01/04	
09:54										
14.2	I271		BEDFORD	NE	I271I480	OH	372.0	6:42	06/01/04	
10:09										
4.0	I271	I480	NORTHFIELD		I271I480	OH	376.1	6:47	06/01/04	
10:14										
11.7	I271		RICHFIELD		I271I77	OH	387.8	6:59	06/01/04	
10:26										
2.1	I77		RICHFIELD	N	I77 X145	OH	389.9	7:02	06/01/04	
10:29										
1.1	S21		BRECKSVILLE	S	I80 X173	OH	391.0	7:03	06/01/04	
10:30										
30.0	I80 \$		ELYRIA	NW	I80 I90	OH	421.0	7:36	06/01/04	
11:03										
			Rest 30 minutes							
128.7	I80 \$	I90 \$	WEST JEFFERSON	N	I80 X13	OH	549.7	10:27	06/01/04	
13:54										
13.1	I80 \$	I90 \$	crossing state border IN/OH				562.8	10:41	06/01/04	
14:08										
			Rest 30 minutes							
135.4	I80 \$	I90 \$	PORTAGE	W	I80 I90	IN	698.1	13:26	06/01/04	
15:53										
0.5	I80		LAKE STATION	NE	I80 I94	IN	698.6	13:27	06/01/04	
15:54										
14.5	I80	I94	HAMMOND	W	I80 X1	IN	713.1	13:42	06/01/04	
16:09										
0.9	I80	I94	crossing state border IL/IN				714.0	13:43	06/01/04	
16:10										
3.0	I80	I94	LANSING	W	I294I94	IL	717.0	13:46	06/01/04	
16:13										
4.9	I294\$	I80 \$	HOMEWOOD	NW	I294I80	IL	721.9	13:52	06/01/04	
16:19										
144.5	I80		GREEN ROCK	SE	I74 I80	IL	866.4	16:29	06/01/04	
18:56										

fitzpatrick_hrcq.txt									
19:07	9.3	I74	MLI AIRPORT		I280I74	IL	875.7	16:40	06/01/04
19:14	6.8	I280	ROCK ISLAND	SW	I280X11	IL	882.5	16:47	06/01/04
19:16	1.4	I280	crossing state border IA/IL				883.9	16:49	06/01/04
19:25	9.6	I280	DAVENPORT	NW	I280I80	IA	893.5	16:58	06/01/04
22:16	151.5	I80	Rest 30 minutes DES MOINES N I235I35			IA	1045.0	19:49	06/01/04
22:30	14.2	I35 I80	DES MOINES	W	I235I35	IA	1059.2	20:03	06/01/04
23:58	95.7	I80	Rest 30 minutes MINDEN NW I680I80			IA	1154.9	21:31	06/01/04
00:43	16.5	I680	LOVELAND	SW	I29 I680	IA	1171.3	22:16	06/02/04
00:52	9.7	I29 I680	CRESCENT	W	I29 I680	IA	1181.1	22:25	06/02/04
00:55	3.0	I680	crossing state border IA/NE				1184.1	22:28	06/02/04
01:10	13.4	I680	OMAHA	SW	I680I80	NE	1197.5	22:43	06/02/04
06:19	422.7	I80	Rest 30 minutes KIMBALL S I80 X20			NE	1620.2	28:52	06/02/04
06:36	20.6	I80	crossing state border NE/WY				1640.7	29:09	06/02/04
12:12	382.4	I80	Rest 30 minutes EVANSTON NE I80 X18			WY	2023.1	34:45	06/02/04
12:56	18.2	I80	crossing state border UT/WY				2041.3	35:29	06/02/04
13:51	68.4	I80	HOLLADAY	N	I215I80	UT	2109.6	36:24	06/02/04
14:00	10.2	I215	MIDVALE		I15 I215	UT	2119.9	36:33	06/02/04
18:29	294.2	I15	Rest 30 minutes SGU AIRPORT I15 X6			UT	2414.1	41:02	06/02/04
18:34	6.4	I15	crossing state border AZ/UT				2420.5	41:07	06/02/04
17:51	20.6	I15	LITTLEFIELD		I15 X8	AZ	2441.1	41:24	06/02/04
17:58	8.6	I15	crossing state border AZ/NV				2449.7	41:31	06/02/04
18:58	73.6	I15	N LAS VEGAS	NE	I15 S215	NV	2523.3	42:31	06/02/04
19:42	14.8	S215	Rest 30 minutes LAS VEGAS NW U95 S215			NV	2538.1	43:15	06/02/04
20:58	46.1	U95	MERCURY	S	U95 LOCL	NV	2584.2	44:31	06/02/04
22:13	33.1	LOCAL	YUCCA MOUNTAIN			NV	2617.2	45:46	06/02/04

Total elapsed time: 45:46
Total trip mileage: 2617.2 Impedance: 5577.8

Routing parameters used to calculate the route-

fitzpatrick_hrcq.txt

Routing type: HRCQ Preferred Route with 2 driver(s)
 Preferred roads Time bias: 1.00 Mile bias: 0.00, Toll bias: 1.00
 Nonpreferred roads Time bias: 0.00 Mile bias: 1.00, Toll bias: 1.00, Penalty factor: 30.0

Constraints used on route:

Prohibit use of links prohibiting truck use
 Prohibit use of ferry crossing

Links Blocked:

H 321200227 1 N LAS VEGAS N I15 X48 , NV N LAS VEGAS NE I15
 S215, NV
 H 321200227 -1 N LAS VEGAS NE I15 S215, NV N LAS VEGAS N I15 X48
 , NV
 H 321200245 1 LAS VEGAS S I15 I215, NV PARADISE SW I15 X37
 , NV
 H 321200245 -1 PARADISE SW I15 X37 , NV LAS VEGAS S I15
 I215, NV

State Mileage:

AZ: 29.2 IA: 300.2 IL: 169.9 IN: 151.2 NE: 456.6 NV: 167.5
 NY: 256.3 OH: 260.2 PA: 46.2 UT: 379.2 WY: 400.5

Mileage by Sign Type:

1-INTERSTATE: 2505.4 2-US: 46.1 3-STATE: 29.6
 6-LOCAL: 36.2

Mileage by Lane Type:

1-Multi-Lane Controlled Access: 2505.4 3-Multi-Lane Divided Highway:
 47.2
 5-Principle Road: 28.5
 7-Other: 36.2

Mileage within Tribal Lands:

Outside Tribal Lands : 2600.7

Cattaraugus Reservation : 2.6 Cedar City Reservation
 : 1.4
 Kanosh Reservation : 0.5 Las Vegas Colony
 : 2.8
 Moapa River Reservation : 9.2

Mileage within Nevada Counties:

Clark: 130.1 Nye: 37.4

TRAGIS Routing Engine Version 1.4.15

-- 2000 Census Data

POPULATION DENSITY within 800 meter Buffer Zone:

FROM: FITZPATRICK NP NY
 TO : YUCCA MOUNTAIN NV

ST MILES 0 >0.0 22.7 59.7 139 326 821 1861 3326 5815
 >9996 -22.7 -59.7 -139 -326 -821 -1861 -3326 -5815 -9996

AZ 29.2 16.21 10.81 1.58 0.33 0.13 0.21 0.00 0.00 0.00 0.00
 0.00

fitzpatrick_hrcq.txt

IL	169.9	20.49	37.06	30.19	25.64	18.89	14.12	10.91	5.92	3.91	2.30
0.40											
IN	151.2	1.73	19.97	37.40	25.85	28.69	17.16	8.92	5.71	3.55	1.89
0.41											
IA	300.2	26.40	71.62	91.20	51.29	24.67	17.99	10.28	3.79	2.22	0.59
0.20											
NE	456.6	167.07	80.87	107.72	49.64	24.69	10.77	7.27	4.24	2.75	1.02
0.59											
NV	167.5	108.64	21.20	17.69	9.50	3.95	3.63	1.23	0.76	0.52	0.40
0.00											
NY	256.3	6.82	35.50	58.08	42.32	30.77	35.33	23.55	12.48	7.47	3.70
0.36											
OH	260.2	5.75	37.34	52.67	45.40	42.60	30.83	20.16	12.73	8.34	3.33
1.09											
PA	46.2	1.03	3.99	6.76	10.30	12.16	9.50	2.12	0.35	0.00	0.00
0.00											
UT	379.2	117.87	69.94	66.59	38.46	23.83	17.47	14.45	10.59	10.40	8.11
1.52											
WY	400.5	207.08	105.56	52.54	12.14	6.48	6.02	4.33	4.26	1.86	0.22
0.06											

TOTALS
 2617.2 679.09 493.86 522.42 310.87 216.86 163.03 103.22 60.83 41.02 21.56
 4.63
 PERCENTAGES
 25.95 18.87 19.96 11.88 8.29 6.23 3.94 2.32 1.57 0.82
 0.18

BASIS: 2000 Census data

RADTRAN Input Data	RURAL	SUBURBAN	URBAN
WEIGHTED POPULATION			
People/sq. mi.	29.5	809.1	6083.2
People/sq. km.	11.4	312.4	2348.7

DISTANCE				TOTALS
Miles	2006.2	543.9	67.2	2617.2
Kilometers	3228.6	875.4	108.2	4211.9
Percentages	76.7	20.8	2.6	

BASIS (people/sq mi.) <139 139-3326 >3326

Population within 800 meter Buffer Zone by State:

AZ 287 IL 78442 IN 79041 IA 56670 NE 59486 NV 12582 NY 132598 OH 146289
 PA 10748 UT 159595 WY 32573

Total Population within 800 meter Buffer Zone: 768311