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MBTA GREEN LINE TESTS
RIVERSIDE LINE
DECEMBER 1972

VOLUME V
GAGE COMPUTER PRINTOUT

George W. Neat, Editor



OCTOBER 1973
FINAL REPORT

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VIRGINIA 22151.

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<p>16. Abstract</p> <p>The UMTA sponsored Urban Rail Supporting Technology Program emphasizes three major task areas; facilities development, technology development, and test program development. The test program development is composed of three sub-areas; vehicle testing, ways and structures testing, and track geometry measurement. This report, in five volumes, presents the technical methodology, data samples, and results of tests conducted on the Massachusetts Bay Transit Authority (MBTA) Green Line in December, 1972 prior to initiation of the Green Line refurbishment effort.</p> <p>An instrumented revenue type car was used for the measurement of track geometry, ride roughness, and interior noise. Actual car speed was approximately the same as normal revenue speed. The objectives of the tests were to identify critical track sections for improvement to quantify the benefits produced by the track rehabilitation program, and to provide data for TSC's development of an advanced track geometry measurement system.</p> <p>Volume V presents the gage computer printout for the complete length of track.</p>			
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VOLUME V GAGE COMPUTER PRINTOUT

This volume contains the complete gage data computer print-out for the MBTA Green Line (Riverside Line) tests run in December, 1972. Examples of this data were presented in Volume I of this report.

A map of the Green Line is shown in Figure 1, and the station distances are given in Figure 2.

As an aid to the reader, the Summary Sheet and Test and Data Sections of Volume I, Appendix C, are reprinted here.

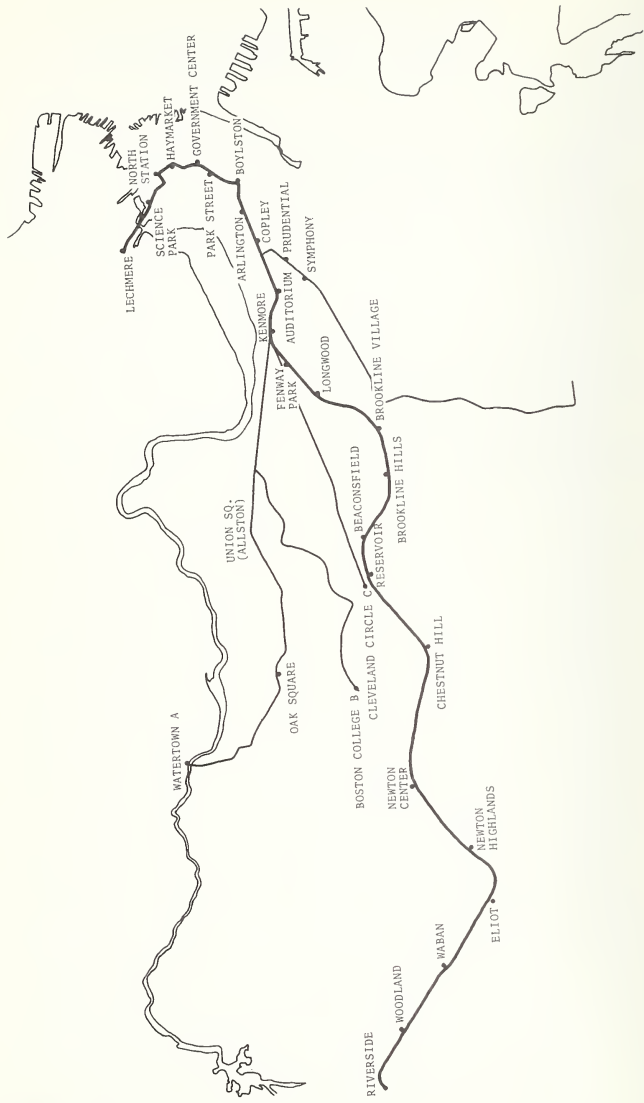


Figure 1 Map of MBTA Green Line

<u>Station</u>	<u>Distance From Last Station</u>	<u>Cumulative Distance</u>
Riverside	0	0
Woodland	2700	2700
Waban	4400	7100
Eliot	4600	11,700
Newton Highlands	4000	15,700
Newton Center	4300	20,000
Chestnut Hill	7700	27,700
Reservoir	5500	33,200
Beaconsfield	2300	35,500
Brookline Hills	4100	39,600
Brookline Village	2800	42,400
Longwood	3900	46,300
Fenway Park	2100	48,400
Kenmore	2900	51,300
Auditorium	2200	53,500
Copley	2600	56,100
Arlington	2000	58,100
Boylston	2100	60,200
Park Street	1200	61,400
Government Center	1500	62,900
Haymarket	1100	64,000
North Station	1800	65,800
Science Park	2100	67,900
Lechmere	3100	71,000

Figure 2 Station Distances



MBTA Green Line Tests, Riverside Branch

December, 1972

SEQUENCE NO. 12-72-602

PROCEDURE NO. PCC-TGC-6008-MBTA

OBJECTIVE:

To measure track gage on the Riverside Branch of the Green Line, prior to initiation of track rehabilitation. These data will help establish which sections of track most severely require rework. It will also be used to classify track according to gage specifications in the IRT Safety Guidelines for Urban Rapid Transit Systems. These results will subsequently be compared with data collected after rehabilitation.

STATUS:

Gage data has been collected and processed for the Riverside Branch Track. The twenty-six-plus miles of track is presented in forty six sections of data in the form of gage computer printout summaries.

Manual measurement of the gage to verify the automatically measured gage has revealed that the gage changes significantly in some places due to the vehicle loading. Further measurements may be made to provide improved understanding of the dynamic effects of vehicle loading on the gage data.



Test Description

In this test series, track gage is measured continuously using capacitive proximity detectors. The probes are located alongside the rails, one along each rail. The electronic circuit associated with each probe outputs a voltage proportional to the distance between the probe and the rail. By adding the two voltages, a sum voltage is obtained that is proportional to the difference between actual track gage and some known value of distance. The gage measuring system on this test put out zero volts for a track gage of 57 1/4 inches. This number is reached by measuring the distance between probe faces, 55 7/8 inches, and then adjusting the probe electronics so that an adequate displacement range is covered when the probes are mounted in the shadow of the wheel flange. Thus, each probe electronic system was set to operate at a sensitivity of 10 volts/inch and to put out zero volts when the probe face was 11/16 inch from the rail gage point.

Data

The gage data was recorded on analog tape in the form of capacitance probe circuit outputs, similar to the profile data. This analog data is presented in Volume II. The statistical print-out for the gage data is presented in the tabulated computer outputs on pages A, B and C of Figure groups in this volume. The levels used for these outputs are summarized below along with the corresponding IRT track classification:

Institute for Rapid Transit

<u>Zone</u>	<u>Gage G</u>	<u>Track Classification</u>	
6	$G \geq 57 \frac{3}{4}$ in	Unclassified	
4	$57 \frac{1}{4}$ in \leq	$G < 57 \frac{3}{4}$ in	Class 1 or 2
2	57 in \leq	$G < 57 \frac{1}{4}$ in	Class 3
0	$56 \frac{1}{4}$ in $<$	$G < 57$ in	Class 4
1	56 $<$	$G \leq 56 \frac{1}{4}$ in	Class 4
3		$G \leq 56$ in	Unclassified

Page C of the figure provides a quick indication of the track classification relative to the IRT requirements for gage. Page B gives the location and magnitude of occurrences in Zones 1, 3, 4 and 6. Page A shows the location that the gage changes from one zone to another.

The page C gage printouts for all 46 sections are summarized in Figure 3. The IRT class of each section is given based on a literal interpretation of the data. The section of track from Waban Station to Eliot Station in Class 3. Twenty-two sections are Class 2. The remaining 23 sections are below standard because of one or more places where the gage exceeds $57 \frac{3}{4}$ inches or is less than 56 inches. However, of these sections, eleven have only one recorded defect. Many of the recorded defects occur in a region where extraneous metal such as guard rails may be affecting the recorded signal. A visual check of the track at these points is required to provide the final conclusion. The percentage of

trackage that satisfies gage requirements provides a better measure of track quality. The percentage of the track in each section that meets the gage requirements for IRT Classes 2, 3 and 4 is also shown in Figure 3.

Percentage of Track Meeting Gage Requirements

Track Section	IRT Class			Percentage of Track Meeting Gage Requirements
	4	3	2	
1. Riverside to Woodland	-	99.92	99.98	99.98
2. Woodland to Waban	-	99.13	99.99	99.99
3. Waban to Eliot	3	99.36	100	
4. Eliot to Newton Highlands	2	94.94	99.95	100
5. Newton Highlands to Newton Ctr.	2	95.24	99.60	100
6. Newton Center to Chestnut Hill	2	92.47	99.57	100
7. Chestnut Hill to Reservoir	-	92.20	98.76	99.94
8. Reservoir to Beaconsfield	2	78.53	95.37	100
9. Beaconsfield to Brookline Hills	2	92.53	99.26	100
10. Brookline Hills to Brookline Vil.	2	94.37	99.52	100
11. Brookline Vil. to Longwood	2	95.98	99.73	100
12. Longwood to Fenway	2	95.92	99.51	100
13. Fenway to Kenmore	-	92.24	97.18	99.99
14. Kenmore to Auditorium	-	75.30	89.75	99.98
15. Auditorium to Copley	-	91.31	99.40	99.97

Figure 3 Green Line Track Gage Summary

Track Section	IRT Class		Percentage of Track Meeting Gage Requirements
	4	3 2	
16. Copley to Arlington	-	99.96	99.99
17. Arlington to Boylston	-	93.48	99.96
18. Boylston to Park St.	-	83.46	99.93
19. Park St to Govt. Ctr.	2	85.62	100
20. Govt. Ctr. to Haymarket	2	97.64	100
21. Haymarket to No. Station	-	93.21	99.65
22. No. Station to Science Park	-	92.27	99.48
23. Science Park to Lechmere	-	95.06	99.95
24. Lechmere to Science Park	-	56.67	82.95
25. Science Park to No. Station	-	61.68	85.67
26. No. Station to Haymarket	-	59.21	82.66
27. Haymarket to Govt. Ctr.	-	52.39	78.69
28. Govt. Ctr. to Park St.	-	48.54	78.37
29. Park St. to Boylston	-	67.47	89.27
30. Boylston to Arlington	-	79.83	96.15

Figure 3 Green Line Track Gage Summary (cont'd)

Percentage of Track Meeting Gage Requirements

Track Section	IRT Class			Percentage of Track Meeting Gage Requirements
	4	3	2	
31. Arlington to Copley	2	92.08	99.4	100
32. Copley to Auditorium	2	91.67	97.48	100
33. Auditorium to Kenmore	-	81.94	94.02	99.86
34. Kenmore to Fenway	-	98.88	99.74	99.25
35. Fenway to Longwood	-	98.49	99.90	99.99
36. Longwood to Brookline Vil.	2	93.00	98.92	100
37. Brookline Vil. to Brookline Hills	2	88.70	98.32	100
38. Brookline Hills to Beaconsfield	2	88.12	98.06	100
39. Beaconsfield to Reservoir	2	94.70	99.95	100
40. Reservoir to Chestnut Hill	2	92.07	98.52	100
41. Chestnut Hill to Newton Ctr.	2	94.19	99.20	100
42. Newton Ctr. to Newton Highlands	2	97.75	99.94	100
43. Newton Highlands to Eliot	2	95.78	99.83	100
44. Eliot to Waban	2	99.49	99.98	100
45. Waban to Woodland	2	99.42	99.98	100
46. Woodland to Riverside	-	82.87	83.07	93.82

Figure 3 Green Line Track Gage Summary (cont'd)

FROM - RIVERSIDE
TO - WOODLAND
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
369.5	0	374.0	1	449.0	0	451.0	1	1128.5	0
1129.0	1	1142.5	0	1144.0	1	1496.5	0	1498.5	1
1510.5	0	1511.0	1	1512.0	0	1512.5	1	1562.0	0
1563.0	1	1580.0	0	1583.5	1	2037.0	0	2037.5	2
2039.0	0	2040.0	2	2265.0	0	2265.5	2	2645.0	0
2645.5	1	2646.0	0	2648.0	1	2650.5	0	2645.0	1
2725.0	0	2731.0	1	2751.0	0	2751.5	6	2651.5	1

Figure 4 Riverside to Woodland Data

FROM - RIVERSIDE
TO - WOODLAND
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
374.0	1	56.217	451.0	1	56.233	1129.0	1	56.249
1144.0	1	56.246	1498.5	1	56.223	1511.0	1	56.237
1512.5	1	56.247	1563.0	1	56.241	1583.5	1	56.188
2645.5	1	56.249	2648.0	1	56.244	2651.5	1	56.247
2731.0	1	56.228	2751.5	6	58.040			

Figure 4 Riverside to Woodland Data (cont'd)

FROM - RIVERSIDE
TO - WOODLAND
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.02	1	0.5
4	57.75	57.25	0.00	0	0.0
2	57.25	57.00	0.07	3	2.0
0	57.00	56.25	99.07	17	2972.0
1	56.25	56.00	0.85	13	25.5
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.98
0+1+2	3	56.00	57.25	99.98
0+1	4	56.00	57.00	99.92
6+3	BELOW STRNDPFD	56.00	57.75	0.02

Figure 4 Riverside to Woodland Data (cont'd)



FROM - WOODLAND
TO - WABAN
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
599.0	0	603.0	1	605.0	0	606.5	1	679.0	0
686.5	1	705.5	0	706.0	6	1046.0	0	1047.5	1
2093.0	0	2099.0	1	2895.5	0	2896.0	1	2994.0	0
2395.5	1	3655.0	0	3660.0	1	3788.5	0	3792.0	1
4001.0	0	4029.0	2	5279.5	0	5280.5	2	5293.5	0
5296.0	2	5297.5	0	5303.0	2	5328.0	0	5336.5	2
5338.0	0	5339.0	2						

Figure 5 Woodland to Waban Data

FROM - WOODLAND
 TO - WABAN
 GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
603.0	1	56.239	606.5	1	56.243	686.5	1	56.220
706.0	6	57.753	1047.5	1	56.235	2099.0	1	56.201
2896.0	1	56.245	2995.5	1	56.239	3660.0	1	56.224
3792.0	1	56.230						

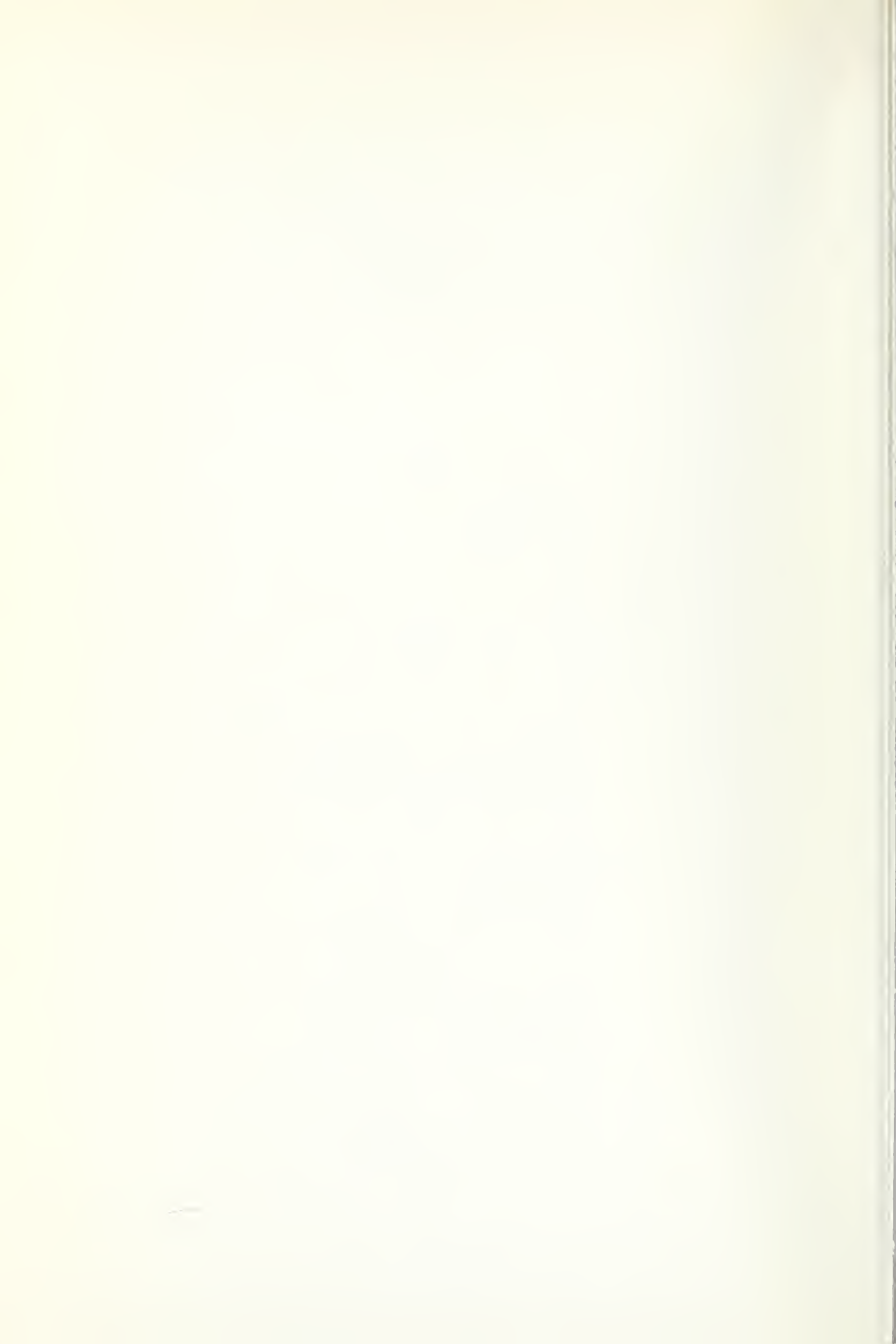
Figure 5 Woodland to Waban Data (cont'd)

FROM - WOODLAND
TO - WABAN
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.81	1	0.5
4	57.75	57.25	0.00	0	0.0
2	57.25	57.00	0.86	6	46.5
0	57.00	56.25	98.56	15	5322.0
1	56.25	56.00	0.57	9	31.0
3	56.00	-99.00	0.00	0	0.0

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.99
0+1+2	3	56.00	57.25	99.99
0+1	4	56.00	57.00	99.13
6+3	BELOW STNDED	56.00	57.75	0.01

Figure 5 Woodland to Waban Data (cont'd)



FROM - WABAN
TO - ELIOT
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
840.5	0	841.0	2	854.5	0	856.5	2	858.5	0
863.5	2	888.5	0	896.5	2	1390.0	0	1397.0	2
2557.0	0	2557.5	2	3083.5	0	3087.5	2	3213.5	0
3220.5	2	3945.0	0	3946.5	1	4731.5	0	4734.0	1
5013.0	0	5013.5	2						

Figure 6 Waban to Eliot Data

PAGE B 1

FROM - WABAN
TO - ELIOT
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
3946.5	1	56.233	4734.0	1	56.213			

Figure 6 Waban to Eliot Data (cont'd)

FROM - WABAN
TO - ELIOT
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.00	0	0.0
2	57.25	57.00	0.64	9	34.5
0	57.00	56.25	99.29	11	5361.5
1	56.25	56.00	0.07	2	4.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	100.00
0+1	4	56.00	57.00	99.36
6+3	BELOW STNDRD	56.00	57.75	0.00

Figure 6 Waban to Eliot Data (cont'd)

FROM - ELLIOT
TO - NEWTON HIGHLANDS
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
984.5	0	985.0	2	1796.0	0	1798.0	2	1799.0	4	1890.0	2
1803.0	2	1885.0	0	1888.5	2	1889.0	2	1890.0	2	1921.5	0
1898.5	0	1900.0	2	1901.0	0	1901.5	2	1921.5	0	1963.0	2
1928.0	2	1938.5	0	1939.5	2	1957.5	0	1963.0	2	2071.0	0
1984.5	0	1996.0	2	2046.0	0	2065.0	0	2071.0	0	2136.0	2
2072.0	2	2073.0	0	2073.5	2	2128.0	2	2136.0	2	2281.5	0
2162.5	0	2163.5	2	2184.5	0	2194.0	2	2281.5	0	2322.5	2
2282.5	2	2283.5	0	2302.0	2	2311.5	0	2322.5	2	2404.5	0
2343.5	0	2348.0	2	2378.5	0	2385.0	2	2404.5	0	2435.0	2
2405.0	2	2406.5	0	2407.0	2	2433.5	0	2435.0	2	2478.0	0
2450.5	0	2454.5	2	2456.0	0	2456.5	2	2478.0	0	2600.0	2
2483.5	2	2561.5	0	2562.0	2	2599.5	0	2600.0	2	2662.0	0
2629.0	0	2630.0	2	2644.5	0	2650.0	2	2662.0	0	2729.0	2
2656.0	2	2704.0	0	2712.5	2	2722.0	2	2729.0	2	3026.5	0
2740.5	0	2791.0	2	2791.5	0	2794.0	2	3026.5	0	3046.0	0
2838.5	2	3848.5	0	3851.0	2	3945.0	0	3046.0	0	3177.0	0
2967.0	0	3980.0	2	3946.5	0	3980.5	2	3177.0	0	3274.5	2
3178.0	2	3204.0	0	3207.5	2	3271.0	0	3274.5	2	3296.0	4
3275.5	4	3280.0	2	3293.0	0	3295.5	2	3296.0	4	3313.0	2
3297.0	2	3300.0	0	3300.5	2	3301.0	0	3313.0	2	3743.5	0
3319.5	0	3324.0	2	3335.0	0	3337.5	2	3743.5	0	3889.5	2
3545.0	2	3381.0	0	3381.5	2	3382.5	0	3889.5	2	4347.5	0
3461.0	0	3462.0	2	3478.5	0	3481.5	2	4347.5	0	5022.0	0
4348.5	2	4916.5	0	4919.0	2	5199.0	0	5022.0	0		
5047.5	0	5251.5	2	5342.5	0	5343.0	2				

Figure 7 Eliot to Newton Highlands Data

FROM - ELIOT
 TO - NEWTON HIGHLANDS
 GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
1799.0	4	57.270	3275.5	4	57.277	3296.0	4	57.263

Figure 7 Eliot to Newton Highlands Data (cont'd)

FROM - ELIOT
TO - NEWTON HIGHLANDS
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.05	3	2.5
2	57.25	57.00	5.02	62	271.0
0	57.00	56.25	94.94	59	5126.5
1	56.25	56.00	0.00	0	0.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.95
0+1	4	56.00	57.00	94.94
6+3	BELOW STANDARD	56.00	57.75	0.00

Figure 7 Eliot to Newton Highlands Data (cont'd)



FROM - NEWTON HIGHLANDS
TO - NEWTON CENTER
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
46.5	0	48.5	1	433.0	0	435.0	2	714.5	0
739.5	2	763.5	0	767.5	2	939.5	0	950.5	2
955.5	0	978.5	2	1009.5	0	1011.5	2	1015.0	0
1022.5	2	1025.5	4	1029.5	2	1055.0	0	1060.0	2
1575.0	0	1577.0	2	1787.0	0	1787.5	2	2897.5	0
2931.5	1	2923.5	0	2927.0	1	3015.5	0	3016.0	1
3017.0	0	3017.5	1	3018.0	0	3020.5	1	3568.0	0
3571.5	2	4195.5	0	4196.5	2	4197.5	0	4198.5	2
4572.5	0	4587.5	2	4588.5	0	4590.5	2	4605.5	0
4609.0	2	4688.0	0	4688.5	2	4689.0	0	4690.5	2
5156.5	0	5162.5	2	5171.0	4	5185.5	2	5205.0	0
5219.0	2	5220.5	0	5231.5	2	5241.5	4	5258.0	2
5261.0	0	5269.5	2	5285.0	0	5287.0	2	5329.0	0
5378.0	2								

Figure 8 Newton Highlands to Newton Center Data

FROM - NEWTON HIGHLANDS
 TO - NEWTON CENTER
 GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
48.5	1	56.236	1025.5	4	57.302	2901.5	1	56.244
2927.0	1	56.223	3016.0	1	56.244	3017.5	1	56.242
3020.5	1	56.194	5171.0	4	57.394	5241.5	4	57.411

Figure 8 Newton Highlands to Newton Center Data (cont'd)

FROM - NEWTON HIGHLANDS
TO - NEWTON CENTER
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	59.00	57.75	0.00	0	0.0
4	57.75	57.25	0.40	3	21.5
2	57.25	57.00	4.36	27	235.5
0	57.00	56.25	95.00	30	5130.0
1	56.25	56.00	0.24	5	13.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IPT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.60
0+1	4	56.00	57.00	95.24
6+3	BELOW STRIPP	56.00	57.75	0.00

Figure 8 Newton Highlands to Newton Center Data (cont'd)



FROM - NEWTON CENTER
TO - CHESTNUT HILL
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
330.0	0	344.0	2	363.5	0	367.0	2	913.0	0		
920.0	2	948.5	4	948.5	2	957.5	0	989.5	2		
1000.0	4	1016.5	2	1018.0	0	1028.0	0	1042.0	0		
1046.0	2	1086.5	0	1136.5	2	1157.5	0	1165.0	2		
1167.0	0	1170.0	0	1310.5	0	1313.5	2	1349.0	0		
1354.5	2	1361.0	4	1365.5	2	1370.0	0	1371.5	2		
1395.5	0	1897.5	2	2401.0	0	2405.5	2	2406.0	4		
2412.0	2	2420.5	0	2424.0	2	2441.5	0	2455.0	2		
2464.0	0	2470.5	2	2471.5	4	2478.0	2	2481.5	4		
2482.0	2	2482.5	4	2484.5	2	2503.0	0	2504.5	2		
2507.5	0	2510.5	2	2666.0	0	2671.5	2	2689.5	0		
2704.0	2	2707.5	0	2715.0	2	2882.0	0	2883.0	2		
2948.5	0	2949.0	2	3957.0	0	3958.0	2	3958.5	0		
3960.0	2	4022.5	0	4024.0	2	4053.0	2	4056.0	2		
4057.0	4	4061.0	2	4113.0	0	4120.0	2	4120.5	0		
4128.5	2	4415.0	0	4417.0	2	4419.0	0	4446.5	2		
4447.5	0	4449.5	2	4581.0	0	4582.5	2	4779.5	0		
4788.5	2	6581.0	0	6582.5	2	6917.0	0	6917.5	2		
7096.5	0	7098.0	2	7180.5	0	7192.5	2	7495.0	0		
7496.0	2	7590.5	0	7591.5	2	7632.0	0	7653.0	2		
7660.5	0	7669.5	2	7704.5	0	7707.0	0	7781.5	0		
7793.0	2	7803.0	0	7814.0	2	7828.5	0	7838.0	2		
7955.5	2	7959.5	0	7959.0	4	7865.5	2	7870.0	0		
8079.5	2	8084.5	0	7932.0	2	7902.0	0	7917.5	2		
7935.5	0	7936.0	2	7949.0	0	7962.0	2	7962.5	2		
8111.5	2	7974.0	4	7980.5	2	7996.0	0	7988.5	2		
8034.0	0	8034.5	0	8059.0	2	8063.0	0	8078.0	0		
8072.5	2	8074.5	0	8080.0	2	8107.5	0	8117.5	2		
8139.5	0	8144.5	2	8156.0	0	8162.0	2	8164.5	0		

Figure 9 Newton Center to Chestnut Hill Data

FROM - NEWTON CENTER
TO - CHESTNUT HILL
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
8165.0	2	8172.0	0	8177.0	2	8213.0	0	8213.5	2
8214.5	0	8221.0	2	8224.5	0	8225.0	2	8242.5	0
8246.0	2	8246.5	4	8247.0	2	8248.0	4	8249.0	2
8250.5	0	8251.0	4	8258.5	2	8267.0	0	8267.5	2
8268.0	0	8277.5	2	8365.0	0	8373.0	2	8374.0	0
8375.5	2	8376.0	0	8392.5	2	8393.5	4	8399.0	2
8463.0	0	8468.5	2	8491.0	0	8492.0	2	8492.5	0
8512.0	2	8549.5	0	8654.0	2	8654.5	0	8650.0	2
8751.5	0	8782.0	2						

Figure 9 Newton Center to Chestnut Hill Data (cont'd)

FROM - NEWTON CENTER
TO - CHESTNUT HILL
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
928.5	4	57.397	1000.0	4	57.425	1361.0	4	57.400
2406.0	4	57.259	2471.5	4	57.275	2481.5	4	57.358
2482.5	4	57.263	4057.0	4	57.301	7859.0	4	57.258
7974.0	4	57.433	8246.5	4	57.271	8248.0	4	57.307
8251.0	4	57.274	8393.5	4	57.262			

Figure 9 Newton Center to Chestnut Hill Data (cont'd)

FROM - NEWTON CENTER
TO - CHESTNUT HILL
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.43	14	38.0
2	57.25	57.00	7.10	93	625.0
0	57.00	56.25	92.47	80	8137.0
1	56.25	56.00	0.00	0	0.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.57
0+1	4	56.00	57.00	92.47
6+3	BELOW STANDRD	56.00	57.75	0.00

Figure 9 Newton Center to Chestnut Hill Data (cont'd)

FROM - CHESTNUT HILL
TO - RESERVOIR
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
23.5	0	35.0	2	36.0	0	38.0	2	39.5	0
45.0	2	46.0	4	48.0	2	49.0	0	49.5	1
50.5	0	53.5	0	132.0	0	141.0	2	150.0	0
150.5	2	181.0	0	185.0	2	213.0	0	217.0	2
228.5	0	231.0	2	231.5	0	232.0	2	247.5	0
248.5	2	287.5	0	282.0	2	316.5	2	322.0	2
323.5	0	324.0	4	329.5	2	342.0	0	347.0	2
347.5	0	350.5	2	438.5	2	442.5	0	451.0	2
452.5	2	454.0	0	469.5	2	536.5	0	540.5	2
568.0	0	584.0	2	722.5	0	725.0	2	728.0	0
728.5	2	730.0	0	730.5	2	828.5	0	829.5	2
839.0	0	854.0	2	975.0	0	993.5	2	1011.5	0
1013.5	2	1014.5	0	1017.0	2	1065.5	0	1078.0	2
1178.5	0	1181.5	2	1237.5	0	1241.0	2	1241.5	4
1248.0	2	1371.0	0	1389.5	2	1408.0	0	1419.0	2
1537.0	0	1559.5	1	1631.0	0	1632.5	1	1975.5	0
5222.0	0	5123.5	0	5124.0	2	5214.5	0	5217.0	2
5293.0	2	5224.5	2	5261.0	2	5266.5	2	5291.0	0
5338.0	0	5296.0	0	5319.0	2	5332.5	0	5333.0	2
5421.5	2	5339.5	2	5369.5	0	5381.5	2	5421.0	0
5556.0	0	5460.5	2	5467.5	2	5529.5	0	5539.0	2
5603.5	2	5561.5	2	5566.0	2	5574.5	0	5595.0	2
5904.0	0	5642.5	0	5644.5	2	5898.5	0	5902.0	2
5940.0	2	5905.5	2	5915.5	4	5927.5	2	5936.5	1
5946.5	2	5940.5	0	5943.0	2	5945.5	0	5946.0	2
5967.5	2	5955.0	2	5955.5	4	5957.0	2	5966.0	2
6009.5	4	5981.5	2	5987.5	0	5998.0	0	6000.0	2
6032.5	6	6016.0	2	6030.5	0	6033.0	2	6038.0	4
		6044.0	4	6047.0	2	6066.5	0	6069.0	2

Figure 10 Chestnut Hill to Reservoir Data

FROM - CHESTNUT HILL
TO - RESERVOIR
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
6069.5	0	6074.5	2	6088.0	4	6093.0	2	6109.5	0
6114.5	2	6183.0	0	6183.5	4	6184.5	2	6298.5	0
6299.0	4	6303.5	0	6304.0	2	6316.0	0	6316.5	1
6317.0	2	6317.5	0	6318.0	1	6322.0	0	6327.0	2
6329.5	0	6330.0	2	6330.5	0	6331.0	1	6333.0	0
6339.0	2	6340.5	0	6341.5	1	6342.5	0	6343.0	1
6356.0	0	6356.5	2	6361.0	0	6361.5	2	6948.0	0
6951.5	1	6986.5	0	6988.5	1	7020.5	0	7024.0	2
7024.5	4	7032.5	2	7041.0	4	7046.0	2	7048.0	0
7054.0	2	7055.0	4	7055.5	2	7056.5	4	7063.0	2
7063.5	4	7064.0	2	7065.5	4	7086.5	0	7089.0	2
7103.5	0	7104.0	2	7106.0	0	7109.0	2	7157.5	0
7166.5	2	7167.5	0	7169.5	2	7170.0	0	7172.5	2
7173.5	0	7189.0	2	7189.5	0	7190.0	2	7191.0	0
7198.5	2								

Figure 10 Chestnut Hill to Reservoir Data (cont'd)

FROM - CHESTNUT HILL
TO - RESERVOIR
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
46.0	4	57.366	49.5	1	56.241	324.0	4	57.344
1241.5	4	57.252	1599.5	1	56.244	1632.5	1	56.237
5915.5	4	57.505	5936.5	4	57.328	5955.5	4	57.258
5966.0	4	57.479	6009.5	4	57.665	6032.5	6	57.806
6088.0	4	57.497	6183.5	4	57.285	6299.0	4	57.273
6316.5	1	56.116	6318.0	1	56.157	6331.0	1	56.209
6341.5	1	56.154	6343.0	1	56.112	6951.5	1	56.159
6988.5	1	56.154	7024.5	4	57.257	7041.0	4	57.408
7055.0	4	57.317	7056.5	4	57.270	7063.5	4	57.331
7065.5	4	57.326						

Figure 10 Chestnut Hill to Reservoir Data (cont'd)

FROM - CHESTNUT HILL
TO - RESERVOIR
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.06	1	4.5
4	57.75	57.25	1.18	19	85.0
2	57.25	57.00	6.56	95	472.0
0	57.00	56.25	92.02	91	6625.5
1	56.25	56.00	0.18	10	13.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.94
0+1+2	3	56.00	57.25	98.76
0+1	4	56.00	57.00	92.20
6+3	BELOW STANDRD	56.00	57.75	0.06

Figure 10 Chestnut Hill to Reservoir Data (cont'd)

FROM - RESERVOIR
TO - BEACONSFIELD
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
14.0	0	19.5	2	24.5	0	27.5	2	28.5	0
32.5	2	53.5	0	61.0	2	100.5	0	102.5	2
356.0	0	357.0	0	357.5	0	358.5	0	359.0	0
359.5	2	361.5	0	363.0	2	372.5	4	395.0	2
393.5	4	400.5	2	401.0	0	402.0	2	403.0	0
403.5	2	404.0	0	412.0	2	412.5	4	414.5	2
423.5	4	424.5	2	439.5	0	440.0	2	441.0	0
444.5	2	455.0	0	457.5	2	466.5	4	473.0	2
504.0	2	479.5	2	485.0	4	490.0	6	501.0	4
545.0	4	523.5	0	526.0	2	526.5	0	531.5	2
640.5	2	550.5	2	566.5	0	571.5	2	640.0	0
760.5	0	641.0	4	641.5	2	755.5	0	756.0	2
774.5	2	761.5	2	773.0	0	773.5	1	774.0	0
787.0	2	775.0	1	779.5	0	784.5	2	786.5	0
798.0	0	787.5	0	788.0	1	790.0	0	796.0	2
1388.5	2	799.0	1	799.5	0	800.0	1	1388.0	0
1461.0	0	1405.0	0	1408.5	1	1443.5	0	1445.5	1
1489.5	0	1461.5	2	1478.0	0	1480.5	2	1481.5	4
1505.0	0	1498.0	4	1500.0	2	1500.5	4	1503.0	2
1520.0	2	1511.0	2	1512.0	4	1513.0	2	1513.5	4
1561.5	2	1522.5	4	1543.0	0	1546.0	2	1560.5	0
1624.5	2	1563.5	0	1566.5	2	1614.5	0	1623.5	2
1629.0	0	1626.5	2	1627.0	0	1627.5	2	1628.0	0
1648.0	0	1630.5	0	1646.0	2	1646.5	0	1647.0	2
1704.5	2	1655.5	2	1658.0	0	1680.0	2	1693.0	4
1718.5	0	1707.0	2	1707.0	2	1708.5	0	1709.0	1
1737.5	2	1726.5	0	1730.0	0	1735.5	2	1736.5	0
1763.0	0	1738.5	0	1740.5	2	1745.0	0	1746.0	2
		1768.0	2	1772.0	4	1773.5	2	1806.5	0

Figure 11 Reservoir to Beaconsfield Data

FROM - RESERVOIR
TO - BEACONSFIELD
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1808.0	2	1818.5	4	1824.0	2	1901.5	0	1907.0	2		
1909.0	4	1918.5	2	1938.0	0	1942.5	2	1948.5	4		
1952.5	2	2001.0	0	2003.5	2	2004.5	4	2008.5	2		
2039.0	0	2046.0	2	2082.0	0	2083.0	2	2093.0	0		
2106.5	2	2107.0	4	2116.5	2	2122.0	0	2129.0	2		
2133.0	4	2144.5	2	2155.0	0	2164.5	2	2235.5	0		
2239.5	2	2250.0	4	2252.5	2	2274.0	0	2286.0	2		
2378.0	0	2391.5	2	2481.5	0	2487.5	2	2488.0	0		
2493.0	2	2493.5	4	2494.0	2	2498.0	4	2503.0	2		
2600.5	0	2606.5	2	2625.0	0	2626.5	2	2657.0	0		
2663.0	2	2700.0	0	2711.0	2	2719.5	0	2750.5	2		
2770.5	0	2771.5	2	2793.5	0	2795.0	2	2817.0	0		
2824.0	2	2838.0	0	2867.5	2	2907.5	0	2915.5	2		
2926.0	4	2938.0	2	3031.0	0	3037.5	2	3043.0	4		
3056.0	2										

Figure 11 Reservoir to Beaconsfield Data (cont'd)

FROM - RESERVOIR
TO - BEACONSFIELD
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
372.5	4	57.596	393.5	4	57.331	412.5	4	57.357			
423.5	4	57.486	466.5	4	57.670	500.0	6	57.917			
545.0	4	57.493	641.0	4	57.282	713.5	7	56.541			
775.0	1	56.236	788.0	1	56.540	793.0	1	56.184			
800.0	1	56.248	1408.5	1	56.177	1409.5	0	57.027			
1481.5	4	57.253	1496.0	4	57.464	1500.5	0	57.202			
1512.0	4	57.235	1513.5	4	57.260	1520.5	0	57.222			
1693.0	4	57.293	1709.0	1	56.244	1720.0	0	57.457			
1818.5	4	57.397	1903.0	4	57.266	1916.5	0	57.233			
2004.5	4	57.304	2107.0	1	57.267	2133.0	1	57.200			
2250.0	4	57.466	2482.5	4	57.200	2488.0	0	57.200			
2926.0	4	57.456	3043.0	4	57.200						

Figure 11 Reservoir to Beaconsfield Data (cont'd)

FROM - RESERVOIR
TO - BEACONSFIELD
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	59.00	57.75	0.16	1	5.0
4	57.75	57.25	4.47	28	143.0
2	57.25	57.00	16.84	99	539.0
0	57.00	56.25	78.25	80	2504.0
1	56.25	56.00	0.28	8	9.0
3	56.00	-56.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.84
0+1+2	3	56.00	57.25	95.37
0+1	4	56.00	57.00	78.53
6+3	BELOW STANDARD	56.00	57.75	0.16

Figure 11 Reservoir to Beaconsfield Data (cont'd)

FROM - BEACONSFIELD
 TO - BROOKLINE HILLS
 GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
18.5	0	21.0	2	22.0	4	26.0	2	56.5	0
63.5	2	99.5	0	100.5	2	111.0	0	136.0	2
139.5	0	146.5	0	150.5	4	162.0	2	172.5	0
182.0	2	253.0	0	257.5	2	268.0	4	271.0	2
292.0	0	304.0	0	396.5	0	409.5	2	500.0	0
506.0	2	506.5	0	511.5	2	514.0	4	514.5	2
516.5	4	521.5	2	619.5	0	625.0	2	643.5	0
645.0	2	675.5	0	681.5	2	718.0	0	729.5	2
738.0	0	769.0	2	789.0	0	790.0	2	811.5	0
813.5	2	835.5	0	842.5	2	856.5	0	886.0	2
926.5	0	934.5	2	945.0	4	956.5	2	1050.0	0
1056.0	2	1061.5	4	1075.0	2	2538.5	0	2541.0	2
2542.0	0	2542.5	2	2616.0	0	2617.5	2	2620.0	4
2622.0	2	2699.0	0	2902.0	1	2937.5	0	2958.5	2
2972.0	0	2977.5	2	3359.5	0	3369.5	2	3878.0	0
3885.5	2	4322.5	0	4823.0	2	4884.0	2	4886.5	2
4894.0	0	4894.5	2	4896.5	0	4897.5	2	5022.0	0
5035.5	2	5038.0	4	5043.0	2	5044.5	0	5045.5	2
5047.5	0	5061.5	2	5073.5	0	5083.0	2	5103.5	0
5108.0	2	5111.0	0	5114.0	2	5142.5	0	5144.5	2
5181.0	0	5185.0	2	5185.5	0	5186.0	2	5196.0	0
5199.5	2	5200.0	0	5204.5	2	5258.0	0	5261.0	2
5301.0	0	5308.0	2	5314.5	0	5315.5	2	5316.0	0
5320.0	2								

Figure 12 Beaconsfield to Brookline Hills Data

FROM - BEACONSFIELD
 TO - BROOKLINE HILLS
 GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
22.0	4	57.300	150.5	4	57.288	268.0	4	57.459
514.0	4	57.257	516.5	4	57.289	945.0	4	57.424
1061.5	4	57.307	2620.0	4	57.469	2902.0	1	56.221
5038.0	4	57.268						

Figure 12 Beaconsfield to Brookline Hills Data (cont'd)

FROM - BEACONSFIELD
TO - BROOKLINE HILLS
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.74	9	40.0
2	57.25	57.00	6.73	57	363.5
0	57.00	56.25	92.47	49	4993.5
1	56.25	56.00	0.06	1	3.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.26
0+1	4	56.00	57.00	92.53
6+3	BELOW STNDED	56.00	57.75	0.00

Figure 12 Beaconsfield to Brookline Hills Data (cont'd)

FROM - BROOKLINE HILLS
TO - BROOKLINE VILLAGE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
205.5	0	206.5	4	537.5	0	538.0	2	599.0	0
601.5	2	609.0	0	609.5	2	612.0	0	612.5	2
738.0	0	752.0	0	752.5	4	756.0	2	763.0	0
776.0	2	788.5	0	797.0	2	818.0	0	822.0	2
826.5	0	827.0	2	827.5	0	828.0	2	857.5	0
858.0	2	895.5	0	897.5	2	910.5	2	913.5	2
915.0	0	917.5	2	973.0	0	975.0	2	1015.5	0
1016.0	2	1016.5	0	1018.0	2	1019.0	0	1021.0	2
1033.0	0	1034.0	2	1235.0	0	1278.0	2	1279.0	0
1280.0	2	1281.5	0	1284.5	2	1353.0	0	1354.0	2
1374.0	0	1377.0	2	1377.5	4	1390.5	2	1391.0	4
1391.5	2	1392.0	4	1400.5	2	1412.0	0	1418.5	2
1435.5	4	1437.5	2	2287.0	2	2287.5	2	2288.5	0
2292.5	2	2293.5	0	2305.5	2	2306.5	0	2312.5	2
2412.0	0	2413.0	2	2614.5	0	2615.0	2	2937.0	0
2928.5	2	2953.0	0	2953.5	1	2954.5	0	2955.5	1
3343.5	0	3349.0	2	3420.5	0	3421.5	2	3432.5	0
3432.5	2	3474.5	0	3477.5	2	3478.5	0	3479.5	2
3480.0	0	3480.5	2	3574.0	0	3580.0	2	4073.5	0
4085.0	2								

Figure 13 Brookline Hills to Brookline Village Data

FROM - BROOKLINE HILLS
TO - BROOKLINE VILLAGE
GAGE

FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE
206.5	4	57.545	752.5	4	57.253	1377.5	4	57.338
1391.0	4	57.251	1392.0	4	57.252	1435.5	4	57.346
2953.5	1	56.247	2955.5	1	56.246			

Figure 13 Brookline Hills to Brookline Village Data (cont'd)

FROM - BROOKLINE HILLS TO - BROOKLINE VILLAGE GAGE					
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.48	6	20.0
2	57.25	57.00	5.15	45	216.5
0	57.00	56.25	94.33	43	3962.0
1	56.25	56.00	0.04	2	1.5
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.53
0+1	4	56.00	57.00	94.37
6+3	BELOW STNDRD	56.00	57.75	0.00

Figure 13 Brookline Hills to Brookline Village Data (cont'd)



FROM - BROOKLINE VILLAGE
TO - LONGWOOD
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
363.5	0	368.5	2	442.5	0	452.0	2	494.5	0
497.0	2	498.0	0	499.0	2	594.5	0	599.5	2
1096.0	0	1107.5	2	1756.0	0	1763.5	2	1910.0	0
1916.0	2	2470.5	0	2471.0	1	2859.0	0	2860.5	1
2335.0	0	2938.0	1	2942.5	0	2944.5	1	2948.0	0
2951.0	1	3250.0	0	3251.0	1	3301.0	0	3303.0	1
3304.5	0	3305.0	1	3311.0	0	3317.0	1	3435.0	0
3436.0	2	3456.0	0	3474.0	2	3545.0	0	3547.5	2
3557.5	4	3561.0	2	3603.0	0	3603.5	1	3658.5	0
3667.5	2	3698.0	0	3701.0	2	3702.5	4	3703.0	2
3704.0	4	3709.0	2	3854.5	0	3858.0	2	3870.5	0
3889.5	2	3956.0	0	3959.0	2	4057.0	0	4057.5	2
4958.5	0	4072.5	2	4195.0	0	4201.0	2	4210.0	0
4213.5	2	4214.0	0	4217.0	2	4218.0	0	4218.5	2
4407.0	0	4407.5	2	4410.5	0	4411.5	2	4430.0	0
4439.5	2	4450.5	0	4466.0	2	4585.5	0	4586.0	2
4587.0	0								

Figure 14 Brookline Village to Longwood Data

FROM - BROOKLINE VILLAGE
TO - LONGWOOD
GAGE

FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE
2471.0	1	56.218	2860.5	1	56.240	2938.0	1	56.221
2944.5	1	56.239	2951.0	1	56.230	3251.0	1	56.225
3305.0	1	56.243	3305.0	1	56.249	3317.0	1	56.198
3557.5	4	57.357	3603.5	1	56.244	3702.5	4	57.288
3704.0	4	57.264						

Figure 14 Brookline Village to Longwood Data (cont'd)

FROM - BROOKLINE VILLAGE
TO - LONGWOOD
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.27	3	12.5
2	57.25	57.00	3.75	30	172.5
0	57.00	56.25	95.54	38	4395.0
1	56.25	56.00	0.43	10	20.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.73
0+1	4	56.00	57.00	95.98
6+3	BELOW STANDARD	56.00	57.75	0.00

Figure 14 Brookline Village to Longwood Data (cont'd)

FROM - LONGWOOD
TO - FENWAY
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
143.5	0	144.0	1	176.0	0	177.0	1	177.5	0
178.0	1	224.0	0	224.5	1	227.5	0	230.0	1
230.5	0	231.5	1	237.5	0	243.5	1	262.5	0
263.0	1	362.0	0	363.0	2	393.0	0	401.0	2
472.0	0	474.5	2	484.5	4	487.5	2	525.5	0
530.5	1	585.5	0	594.5	2	625.0	0	627.5	2
629.0	4	629.5	2	631.0	4	635.5	2	781.0	0
784.5	2	797.0	0	816.5	2	882.5	0	895.5	2
983.5	0	984.5	2	985.0	0	999.0	2	1121.5	0
1128.0	2	1136.5	0	1140.0	2	1140.5	0	1143.5	2
1144.5	0	1145.0	2	1333.0	0	1333.5	2	1336.5	0
1337.5	2	1356.0	0	1365.5	2	1376.5	0	1392.5	2
1511.0	0	1526.5	2	2234.5	0	2325.0	1	2783.5	0
2788.5	1	3213.5	0	3215.5	2	3221.0	4	3227.5	2
3668.5	0	3672.0	1	3779.5	0	3789.0	1		

Figure 15 Longwood to Fenway Park Data

FROM - LONGWOOD
TO - FENWAY
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
144.0	1	56.247	177.0	1	56.211	178.0	1	56.249
224.5	1	56.245	230.0	1	56.235	231.5	1	56.243
243.5	1	56.191	263.0	1	56.247	484.5	4	57.357
530.5	1	56.242	629.0	4	57.304	631.0	4	57.267
2235.0	1	56.247	2788.5	1	56.211	3221.0	4	57.381
3672.0	1	56.106	3789.0	1	56.162			

Figure 15 Longwood to Fenway Park Data (cont'd)

FROM - LONGWOOD
TO - FENWAY
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.49	4	18.5
2	57.25	57.00	3.59	24	136.5
0	57.00	56.25	95.08	33	3613.0
1	56.25	56.00	0.84	13	32.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.51
0+1	4	56.00	57.00	95.82
6+3	BELOW STNDRD	56.00	57.75	0.00

Figure 15 Longwood to Fenway Park Data (cont'd)



FROM - FENWAY
TO - KENMORE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
237.5	0	243.5	1	667.5	0	669.5	2	675.5	4	1244.0	1
682.0	2	1123.5	0	1127.0	1	1234.0	0	1244.0	1	1594.0	0
1564.5	0	1566.5	2	1569.0	0	1570.5	2	1594.0	0	1643.0	2
1596.5	1	1635.5	0	1636.5	2	1637.5	0	1643.0	2	1719.5	0
1646.0	0	1646.5	2	1706.0	0	1710.5	2	1719.5	0	1753.5	2
1720.0	2	1741.5	0	1743.0	2	1744.5	0	1753.5	2	1788.0	0
1759.5	4	1760.0	6	1760.5	4	1762.5	2	1788.0	0	1795.0	2
1789.5	1	1790.0	0	1791.5	2	1795.5	4	1795.0	2	1810.5	1
1797.0	4	1798.5	0	1809.0	4	1809.5	0	1810.5	1	1825.0	4
1812.5	0	1813.0	2	1819.5	0	1823.5	2	1825.0	4	2887.5	2
1830.5	2	1841.5	0	1843.0	2	2883.5	0	2887.5	2	2942.0	0
2888.5	0	2890.0	2	2939.0	0	2941.5	2	2942.0	0	2961.5	2
2942.5	2	2957.5	0	2958.0	2	2959.0	0	2961.5	2	3010.5	0
2978.0	0	2983.5	2	2984.0	0	2990.5	2	3010.5	0	3062.0	2
3014.0	2	3041.5	0	3054.5	2	3055.5	0	3062.0	2	3131.5	4
3066.5	0	3096.0	2	3101.0	4	3128.0	2	3131.5	4	3490.0	2
3138.0	2	3327.5	0	3329.0	2	3479.0	0	3490.0	2	3525.0	0
3499.5	0	3500.0	2	3500.5	0	3501.0	2	3525.0	0		
3531.0	2	3537.0	0								

Figure 16 Fenway Park to Kenmore Data

FROM - FENWAY
TO - KENMORE
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
243.5	1	56.203	675.5	4	57.371	1127.0	1	56.111
1244.0	1	56.155	1595.5	1	56.147	1760.0	6	57.852
1789.5	1	56.116	1795.5	4	57.429	1797.0	4	57.406
1809.0	4	57.591	1810.5	1	56.151	1825.0	4	57.579
3101.0	4	57.295	3131.5	4	57.295			

Figure 16 Fenway Park to Kenmore Data (cont'd)

FROM - FENWAY
TO - KENMORE
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.01	1	0.5
4	57.75	57.25	2.81	9	101.0
2	57.25	57.00	4.94	37	178.0
0	57.00	56.25	91.56	39	3296.0
1	56.25	56.00	0.68	6	24.5
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.99
0+1+2	3	56.00	57.25	97.18
0+1	4	56.00	57.00	92.24
6+3	BELOW STNDRD	56.00	57.75	0.01

Figure 16 Fenway Park to Kenmore Data (cont'd)



FROM - KENMORE
TO - AUDITORIUM
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
79.5	0	81.5	2	134.5	0	137.0	2	284.5	0
298.5	2	305.5	0	312.0	2	328.5	0	339.5	2
340.0	0	340.5	2	390.5	0	391.0	2	393.0	4
394.0	2	394.0	0	395.0	2	395.5	2	396.5	0
398.5	2	399.0	4	405.0	2	405.5	0	406.0	2
429.0	0	430.5	2	431.0	4	440.5	0	441.5	2
442.5	0	447.5	2	448.0	4	448.5	4	449.0	2
452.5	1	454.5	1	456.0	0	457.0	1	457.5	0
459.0	0	475.0	0	477.5	2	478.0	4	479.5	2
583.0	0	583.5	4	585.0	2	585.5	4	587.0	2
587.5	4	589.5	2	603.0	0	606.0	2	625.0	4
623.5	6	625.5	4	628.5	2	652.0	0	664.0	2
692.5	4	693.0	0	694.0	2	705.0	4	705.5	2
708.5	4	736.0	2	737.0	4	737.5	2	770.5	4
771.0	2	867.5	4	868.5	2	882.0	4	884.5	2
885.5	4	891.0	2	893.5	4	896.0	2	915.5	4
916.0	2	938.5	4	961.0	2	979.5	4	981.0	2
984.5	4	990.5	2	998.5	4	1015.5	2	1020.0	0
1030.0	2	1178.5	0	1179.5	2	1180.5	2	1183.5	2
1187.0	0	1211.0	2	1214.0	0	1230.5	2	1234.5	0
1351.5	2	1256.5	0	1262.5	2	1275.5	0	1279.0	2
1280.5	0	1282.0	2	1290.0	2	1297.5	2	1308.5	0
1310.0	2	1319.5	0	1321.5	2	1333.0	0	1341.0	2
1344.5	0	1348.0	2	1352.0	0	1365.5	2	1399.5	0
1401.0	2	1403.0	0	1404.5	2	1405.0	0	1406.5	2
1425.5	0	1435.0	2	1436.5	2	1445.0	2	1446.5	0
1447.0	0	1448.5	2	1459.5	2	1460.0	0	1462.5	2
1468.5	0	1474.5	2	1476.0	0	1481.5	2	1558.0	0
1561.0	1	1568.0	0	1598.5	1	1599.5	0	1618.5	1

Figure 17 Kenmore to Auditorium Data

FROM - KENMORE
TO - AUDITORIUM
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1625.5	0	1627.5	1	1643.0	0	1646.5	1	1647.5	0
1650.5	1	1662.0	0	1659.0	1	1711.0	0	1711.5	1
1727.5	0	1733.0	1	1737.0	0	1742.5	1	1748.0	0
1749.0	1	1781.0	0	1782.5	1	1786.5	0	1789.5	1
1812.5	0	1815.5	1	1820.5	0	1822.0	1	1875.5	0
1876.0	1	1935.0	0	1939.0	1	2036.5	0	2038.5	1
2046.5	0	2064.5	1	2074.5	0	2077.5	1	2081.0	0
2084.5	1	2108.5	0	2112.0	1	2123.5	0	2131.5	1
2155.5	0	2157.0	1	2184.5	0	2186.5	2	2209.5	0
2210.5	2	2211.0	0	2230.5	2	2236.5	0	2250.0	2
2264.5	0	2277.0	2	2298.5	0	2309.0	2	2316.5	0
2322.5	2	2377.5	0	2378.5	1	2719.0	0	2720.0	1

Figure 17 Kenmore to Auditorium Data (cont'd)

FROM - KENMORE
TO - AUDITORIUM
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
393.0	4	57.683	395.0	1	56.198	399.0	4	57.252
431.0	4	57.357	448.5	4	57.674	454.5	1	56.235
457.0	1	56.283	459.0	1	56.234	578.0	4	57.265
583.5	4	57.282	585.5	4	57.273	587.5	4	57.288
623.5	6	57.837	692.5	4	57.350	705.0	4	57.445
708.5	4	57.267	737.0	4	57.253	770.5	4	57.432
867.5	4	57.477	882.0	4	57.355	885.5	4	57.252
893.5	4	57.266	915.5	4	57.371	938.5	4	57.396
979.5	4	57.398	984.5	4	57.281	998.5	4	57.375
1561.0	1	56.233	1598.5	1	56.146	1618.5	1	56.196
1627.5	1	56.245	1646.5	1	56.229	1650.5	1	56.238
1669.0	1	56.191	1711.5	1	56.250	1733.0	1	56.209
1742.5	1	56.195	1749.0	1	56.245	1782.5	1	56.237
1789.5	1	56.234	1815.5	1	56.230	1823.0	1	56.241
1876.0	1	56.247	1939.0	1	56.229	2038.5	1	56.241
2064.5	1	56.184	2077.5	1	56.236	2084.5	1	56.205
2112.0	1	56.231	2131.5	1	56.209	2157.0	1	56.243
2378.5	1	56.242	2720.0	1	56.145			

Figure 17 Kenmore to Auditorium Data (cont'd)

FROM - KENMORE
TO - AUDITORIUM
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.02	1	0.5
4	57.75	57.25	10.23	24	286.5
2	57.25	57.00	14.45	70	404.5
0	57.00	56.25	70.32	80	1969.0
1	56.25	56.00	4.98	30	139.5
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.98
0+1+2	3	56.00	57.25	89.75
0+1	4	56.00	57.00	75.30
6+3	BELOW STNDRD	56.00	57.75	0.02

Figure 17 Kenmore to Auditorium Data (cont'd)

FROM - AUDITORIUM
TO - COPLEY
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3.0	0	11.5	1	35.5	0	37.0	1	64.5	0		
66.5	2	89.5	0	90.5	2	91.0	0	91.5	2		
92.0	0	110.0	2	116.5	0	129.5	2	144.5	0		
156.5	0	178.5	0	189.0	2	196.5	0	202.5	2		
257.0	0	259.0	1	599.0	0	600.0	1	684.5	0		
687.0	2	699.5	0	712.5	2	713.0	0	715.5	2		
716.5	4	744.5	2	746.0	0	772.5	2	788.0	0		
789.0	2	810.5	0	811.0	2	814.5	0	815.0	2		
849.5	0	853.5	2	854.5	0	855.0	2	887.0	0		
890.0	2	926.5	0	928.0	2	985.0	2	989.0	2		
990.5	0	997.5	2	1018.0	0	1023.5	2	1024.5	0		
1026.0	2	1083.5	0	1088.0	2	1098.5	0	1099.0	2		
1107.0	0	1119.0	2	1289.0	0	1292.5	1	1296.5	0		
1302.5	1	1330.5	0	1343.5	1	1374.5	0	1390.0	1		
1442.5	0	1445.0	1	1495.0	0	1495.5	1	1496.5	0		
1501.5	1	1556.5	0	1560.0	1	1564.0	0	1573.0	1		
1573.5	0	1574.0	1	1575.5	0	1578.0	1	1650.5	0		
1657.0	1	1673.5	0	1674.0	1	1675.0	0	1678.0	1		
1688.0	0	1691.0	1	1731.5	0	1738.0	1	1740.0	0		
1741.0	1	1754.5	0	1762.5	1	1796.5	0	1800.5	1		
1819.0	0	1823.0	1	1825.0	0	1838.0	0	1867.5	0		
1869.0	1	1896.0	0	1910.0	1	1910.5	0	1920.5	1		
1986.0	0	2000.5	1	2027.5	0	2031.5	1	2052.5	0		
2053.5	1	2167.0	0	2175.0	1	2243.0	0	2248.0	1		
2253.5	0	2254.0	1	3266.0	0	3272.0	1	3465.5	0		
2470.5	2	2637.0	0	2640.5	2	2645.5	4	2658.0	2		
2666.5	4	2692.0	2	2733.5	0	2734.0	2	2740.0	0		
2741.0	4	2741.5	0	2742.0	2	2747.0	0	2747.5	1		
2748.0	0	2751.0	1	2781.0	0	2781.5	2	2782.5	0		

Figure 18 Auditorium to Copley Data

FROM - AUDITORIUM
TO - COPLEY
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2783.5	4	2785.0	2	2803.5	0	2806.0	2	2808.5	4
2820.5	2	2822.0	4	2823.0	2	2823.5	0	2824.5	6
2825.0	0	2825.5	2	2834.0	0	2837.0	2	2838.0	4
2848.5	2	3144.0	0	3146.0	2	3175.0	0	3186.0	2
3249.5	0	3252.0	1						

Figure 18 Auditorium to Copley Data (cont'd)

FROM - AUDITORIUM
TO - COPLEY
GAUGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
11.5	1	56.204	37.0	1	56.237	259.0	1	56.233
600.0	1	56.134	716.5	4	57.293	1292.5	1	56.233
1302.5	1	56.241	1343.5	1	56.167	1390.0	1	56.165
1445.0	1	56.242	1495.5	1	56.249	1501.5	1	56.205
1960.0	1	56.233	1573.0	1	56.194	1574.0	1	56.249
1578.0	1	56.238	1657.0	1	56.210	1674.0	1	56.247
1678.0	1	56.227	1691.0	1	56.239	1738.0	1	56.230
1741.0	1	56.249	1762.5	1	56.208	1806.0	1	56.193
1823.0	1	56.221	1838.0	1	56.168	1869.0	1	56.230
1910.0	1	56.148	1920.5	1	56.180	2000.5	1	56.184
2031.5	1	56.214	2053.5	1	56.233	2175.0	1	56.173
2248.0	1	56.218	2254.0	1	56.232	2372.0	1	56.214
2643.5	4	57.281	2666.5	4	57.343	2741.0	4	57.507
2747.5	1	56.218	2751.0	1	56.150	2783.5	4	57.009
2808.5	4	57.314	2832.0	4	57.616	3824.5	6	58.048
2838.0	4	57.302	3252.0	1	56.228			

Figure 18 Auditorium to Copley Data (cont'd)

FROM - AUDITORIUM
TO - COPLEY
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.03	1	1.0
4	57.75	57.25	0.57	8	19.5
2	57.25	57.00	8.09	43	275.0
0	57.00	56.25	65.43	77	2904.5
1	56.25	56.00	5.88	38	200.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.97
0+1+2	3	56.00	57.25	99.40
0+1	4	56.00	57.00	91.31
6+3	BELOW STNDRD	56.00	57.75	0.03

Figure 18 Auditorium to Copley Data (cont'd)

FROM - COPLEY
TO - ARLINGTON
GHGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3.5	0	4.0	3	8.5	0	9.0	1	10.0	0
14.5	1	46.0	0	46.5	2	69.5	0	74.5	2
81.0	0	84.5	2	85.5	4	86.0	2	89.0	0
109.0	2	865.0	0	867.5	2	868.0	0	869.0	2
1147.5	0	1149.0	1	2011.0	0	2017.0	1	2530.5	0
2531.0	2	3012.0	0	3022.0	1	3123.0	0	3130.5	1

Figure 19 Copley to Arlington Data

FROM - COPLEY
TO - ARLINGTON
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
4.0	3	55.953	9.0	1	56.216	14.5	1	56.118
85.5	4	57.565	1149.0	1	56.246	2017.0	1	56.191
3022.0	1	56.141	3130.5	1	56.180			

Figure 19 Copley to Arlington Data (cont'd)

FROM - COPLEY
TO - ARLINGTON
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.03	1	1.0
2	57.25	57.00	0.69	8	23.5
0	57.00	56.25	98.38	14	3345.0
1	56.25	56.00	0.88	6	30.0
3	56.00	-99.00	0.01	1	0.5

ZONE	IPT CLASS	TIGHT	WIDE	% OF TOTAL
0-1+2+4	1+2	56.00	57.75	99.90
0-1+2	3	56.00	57.25	99.96
0-1	4	56.00	57.00	99.96
0-1,0,0	STNDRD	56.00	57.75	0.01

Figure 19 Copley to Arlington Data (cont'd)



FROM - ARLINGTON
TO - BOYLSTON
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
990.0	0	1000.0	1	1100.5	0	1108.5	1	1453.0	0
1454.5	2	1474.0	0	1485.5	2	1486.0	0	1487.5	2
1488.0	0	1489.0	2	1489.5	0	1491.5	2	1494.0	4
1498.0	2	1499.5	0	1505.0	2	1505.5	4	1507.5	2
1517.0	0	1521.5	2	1549.0	0	1851.0	2	2038.0	0
2043.0	2	2059.5	0	2065.5	2	2066.0	4	2066.5	2
2070.0	4	2077.0	2	2077.5	0	2080.0	2	2100.5	0
2116.5	2	2123.0	0	2125.0	2	2125.5	4	2126.0	2
2134.0	0	2149.5	2	2150.0	0	2154.5	2	2202.0	0
2219.0	2	2228.5	0	2231.5	2	2241.0	0	2249.0	2
2263.5	0	2267.0	2	2338.5	0	2346.0	2	2465.0	0
2465.5	2	2468.5	4	2477.5	2	2483.5	4	2486.5	2
2505.5	0	2506.0	4	2559.5	0	2560.0	3	2560.5	0
2561.0	3	2573.5	0	2584.5	2	2591.5	0	2592.5	2
2593.5	0	2594.0	2	2594.5	0	2595.0	2		

Figure 20 Arlington to Boylston Data

FROM - ARLINGTON
TO - BOYLSTON
GAGE

FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE
1000.0	1	56.146	1108.5	1	56.176	1494.0	4	57.326
1505.5	4	57.311	2066.0	4	57.285	2070.0	4	57.341
2125.5	4	57.256	2468.5	4	57.448	2483.5	4	57.448
2506.0	4	57.262	2560.0	3	55.970	2561.0	3	55.876

Figure 20 Arlington to Boylston Data (cont'd)

FROM - ARLINGTON
TO - BOYLSTON
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.65	8	17.0
2	57.25	57.00	5.83	32	151.5
0	57.00	56.25	92.79	30	2412.5
1	56.25	56.00	0.69	2	18.0
3	56.00	-99.00	0.04	2	1.0

ZONES	IPT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.06
0+1+2	3	56.00	57.25	98.31
0+1	4	56.00	57.00	93.08
6+3	BELOW STMPR	56.00	57.75	0.00

Figure 20 Arlington to Boylston Data (cont'd)



FROM - BOYLSTON
TO - PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
13.5	0	18.5	2	35.0	0	41.0	2	41.5	4
42.0	2	45.0	4	52.5	2	54.0	0	55.0	2
84.0	0	88.0	2	88.5	0	92.0	2	98.5	0
101.5	2	109.5	0	124.5	2	125.5	0	129.5	2
178.0	0	193.0	2	193.5	0	194.5	2	204.5	0
207.0	2	217.0	0	224.0	2	239.0	0	252.5	2
314.0	0	321.5	2	440.5	0	441.0	2	444.0	4
453.5	2	459.0	4	463.0	2	481.0	0	481.5	2
535.0	0	535.5	3	536.0	0	536.5	3	540.0	0
559.5	2	567.0	0	568.0	2	569.0	0	569.5	2
570.0	0	570.5	2	691.0	0	693.0	2	695.5	0
696.0	2	873.0	0	876.5	1	1063.0	0	1066.0	2
1082.5	0	1088.5	2	1089.0	0	1091.5	2	1100.0	0
1119.0	2	1148.5	0	1189.5	2	1193.5	0	1200.5	2
1220.0	0	1228.5	2	1229.0	0	1237.0	2		

Figure 21 Boylston to Park Data

FROM - BOYLSTON
TO - PARK
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
41.5	4	57.270	45.0	4	57.329	444.0	4	57.440
459.0	4	57.440	535.5	3	55.953	536.5	3	55.858
876.5	1	56.236						

Figure 21 Boylston to Park Data (cont'd)

FROM - BOYLSTON
TO - PARK
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.86	4	12.0
2	57.25	57.00	15.61	34	218.5
0	57.00	56.25	83.21	33	1165.0
1	56.25	56.00	0.25	1	3.5
3	56.00	-99.00	0.07	2	1.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.93
0+1+2	3	56.00	57.25	99.07
0+1	4	56.00	57.00	83.46
6+3	BELOW STNDRD	56.00	57.75	0.07

Figure 21 Boylston to Park Data (cont'd)



FROM - PARK
TO - GOVERNMENT CENTER
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
54.5	0	59.0	2	74.0	0	89.5	2	101.5	0
113.5	2	115.0	0	128.0	2	129.5	4	142.5	2
162.5	0	181.5	2	195.5	4	202.5	4	203.0	4
204.5	2	207.5	4	220.0	2	223.0	4	224.0	2
226.5	4	235.0	2	239.0	0	242.0	2	245.0	4
251.0	2	251.5	4	252.0	2	252.5	4	260.0	2
415.5	0	416.0	2	419.5	0	420.5	2	438.5	0
439.0	2	510.5	0	515.0	2	515.5	0	516.0	2
558.5	0	560.0	2	561.5	0	564.0	2	565.0	0
566.5	2	568.0	0	568.5	2	602.5	0	603.5	2
631.0	0	640.5	2	680.0	0	688.0	1	838.5	0
839.0	2	839.5	0	844.0	2	848.0	2	848.5	2
913.5	0	926.0	2	931.0	0	960.5	2	963.0	4
969.0	2	990.0	0	995.5	2	1063.5	0	1100.5	2
1106.5	4	1121.0	2	1144.5	0	1145.5	2	1153.5	0
1168.5	2	1189.0	0	1189.5	2	1236.0	0	1239.0	1
1242.5	0	1243.0	1	1245.5	0	1251.0	1	1259.0	0
1278.0	1	1324.5	0	1374.0	1	1571.5	0	1574.0	2
1578.5	0	1583.0	2	1677.5	0	1686.0	2	1911.0	0
1917.5	2	1937.5	0	1939.0	2	2184.0	0	2188.5	1

Figure 22 Park to Government Center Data

FROM - PARK
TO - GOVERNMENT CENTER
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
129.5	4	57.275	195.5	4	57.507	203.0	4	57.265
207.5	4	57.314	223.0	4	57.255	226.5	4	57.255
245.0	4	57.288	251.5	4	57.232	252.5	4	57.355
688.0	1	56.135	963.0	4	57.252	1106.5	4	57.368
1239.0	1	56.224	1243.0	1	56.248	1251.0	1	56.181
1278.0	1	56.113	1334.0	1	56.184	2188.5	1	56.209

Figure 22 Park to Government Center Data (cont'd)

FROM - PARK
TO - GOVERNMENT CENTER
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	1.54	11	37.0
2	57.25	57.00	12.83	43	308.0
0	57.00	56.25	83.96	39	2015.0
1	56.25	56.00	1.67	7	40.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
10+1+2	3	56.00	57.25	98.46
0+1	4	56.00	57.00	85.63
6+3	BELOW STNDRD	56.00	57.75	0.00

Figure 22 Park to Government Center Data (cont'd)



FROM - GOVERNMENT CENTER
TO - HAYMARKET
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
33.5	0	39.5	2	59.5	0	60.5	2	305.5	0
310.5	1	533.0	0	538.5	1	766.5	0	767.0	1
919.0	0	923.0	2	959.0	0	968.5	2	976.0	0
976.5	1	1021.5	0	1022.5	1	1074.0	0	1079.0	1
1099.5	0	1106.5	2	1178.0	0	1183.5	1	1204.0	0
1206.5	1	1287.5	0	1296.5	1	1354.0	0	1357.0	2
1358.0	4	1360.5	2	1368.0	0	1370.0	2	1392.0	0
1333.5	2	1396.5	4	1397.0	2				

Figure 23 Government Center to Haymarket Data

FROM - GOVERNMENT CENTER
TO - HAYMARKET
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
310.5	1	56.212	538.5	1	56.333	767.0	1	56.076
976.5	1	56.235	1022.5	1	56.054	1079.0	1	56.215
1183.5	1	56.177	1306.5	1	56.332	1336.5	1	56.178
1358.0	4	57.339	1396.5	1	57.370			

Figure 23 Government Center to Haymarket Data (cont'd)

FROM - GOVERNMENT CENTER
TO - HAYMARKET
GRADE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	92.00	57.75	0.00	0	0.00
4	57.75	57.25	0.29	3	66.00
2	57.25	57.00	3.07	10	291.00
0	57.00	56.25	95.18	17	1332.50
1	56.25	56.00	2.46	9	34.50
3	56.00	-99.00	0.00	0	0.00

ZONE	IPT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.71
0+1	4	56.00	57.00	10.00
6+3	BELOW STNDRD	56.00	57.75	0.00

Figure 23 Government Center to Haymarket Data (cont'd)

FROM - HAYMARKET
TO - NORTH STATION
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
181.0	0	187.5	1	722.5	0	725.0	1	726.0	0
729.5	1	751.0	0	754.5	2	825.0	0	833.5	1
852.5	0	856.5	1	837.0	0	858.5	1	913.5	0
915.0	1	934.5	0	946.0	1	1004.5	0	1008.5	2
1042.5	0	1046.0	2	1073.5	0	1083.0	2	1710.0	0
1712.0	0	1786.0	2	1790.5	1	1838.0	0	1850.5	1
1891.0	0	1896.0	1	1919.0	0	1920.5	1	2270.5	0
2275.5	1	2304.0	0	2313.0	1	2315.0	0	2319.5	1
2449.0	0	2450.0	2	2487.5	0	2488.0	1	2488.5	3
2489.5	0	2490.0	2	2493.5	0	2493.0	2	2494.0	0
2497.5	2	2498.0	0	2498.5	2	2565.5	0	2567.5	2
2568.5	0	2574.0	2	2740.0	0	2750.5	2	2862.5	0
2867.5	2	2901.0	0	2901.5	2	3048.0	0	3053.5	2
3060.5	0	3063.0	2	3069.5	0	3069.0	2	3069.0	0
3120.0	2	3123.0	0	3129.0	0	3177.0	0	3181.0	2
3136.5	0	3150.5	2	3147.0	0	3211.0	0	3242.0	0
3238.0	2	3240.0	0	3280.0	2	3282.0	0	3277.0	2
3308.0	0	3306.0	2	3306.5	0	3311.0	0	3311.0	0
3311.5	2	3322.0	0	3322.0	0	3329.0	0	3329.0	2
3330.0	0	3331.0	0	3330.5	0	3331.0	0	3331.0	0
3339.0	2	3339.5	0	3340.5	0	3351.0	0	3350.0	2
3353.0	0	3354.5	0	3358.0	0	3358.0	0	3358.0	2
3376.5	2	3376.0	1	3379.0	0	3380.0	0	3381.0	0
3382.5	4	3387.5	0	3390.0	0	3392.0	1	3393.0	2

Figure 24 Haymarket to North Station Data

FROM - HAYMARKET
TO - NORTH STATION
GAUGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	1900 MAGNITUDE	FEET	ZONE	1900 MAGNITUDE
187.5	1	56.211	725.0	1	56.227	728.5	1	56.233
833.5	1	56.172	856.5	1	56.209	858.5	1	56.216
915.0	1	56.248	946.0	1	56.185	1750.5	1	56.209
1850.5	1	56.178	1896.0	1	56.233	1920.5	1	56.204
2275.5	1	56.202	2313.0	1	56.135	2318.5	1	56.229
2488.5	3	55.988	3147.5	4	57.360	3260.0	3	56.859
3378.0	4	57.325	3383.5	4	57.365	3397.0	4	56.115

Figure 24 Haymarket to North Station Data (cont'd)

FROM - HAYMARKET
TO - NORTH STATION
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.29	3	10.0
2	57.25	57.00	6.44	41	219.0
0	57.00	56.25	90.76	56	3086.0
1	56.25	56.00	2.44	17	83.0
3	56.00	-99.00	0.00	2	9.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.94
0+1+2	3	56.00	57.25	99.65
0+1	4	56.00	57.00	93.21
6+3	BELOW STIMPD	56.00	57.75	0.06

Figure 24 Haymarket to North Station Data (cont'd)

FROM - NORTH STATION
TO - SCIENCE PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
10.5	1	139.5	0	140.5	2	178.0	0	179.0	3
179.5	0	180.0	2	182.5	0	183.0	2	184.5	0
187.5	2	256.0	0	257.0	0	259.0	0	264.0	2
438.5	0	440.5	2	553.0	0	557.5	2	591.0	0
591.5	2	738.5	0	743.5	2	751.0	0	753.5	2
789.5	0	808.5	2	809.0	0	810.5	2	813.0	0
823.5	2	825.5	0	826.0	2	827.0	0	830.0	2
837.5	4	858.0	2	858.5	0	904.0	2	904.5	0
911.5	2	924.5	0	926.5	2	927.0	0	928.0	2
939.5	0	949.0	2	958.5	0	968.0	2	1012.0	0
1012.5	2	1013.0	0	1019.5	2	1020.5	0	1021.0	2
1027.0	0	1027.5	2	1028.0	0	1029.0	2	1030.0	0
1037.0	2	1037.5	0	1039.0	2	1039.5	0	1040.5	2
1043.0	0	1044.5	2	1048.5	0	1048.5	0	1049.0	3
1064.0	0	1067.0	2	1068.0	4	1069.5	2	1070.0	0
1072.5	2	1073.0	4	1077.5	2	1080.0	0	1082.5	1
1099.5	0	1104.5	2	1141.5	0	1146.5	1	1158.0	0
1158.5	1	1923.0	0	1935.0	2	1979.5	0	1984.0	2
2002.0	0	2015.0	2	2030.5	0	2054.5	2	2059.5	0
2065.0	2	2075.5	0	2080.0	2	2082.0	0	2087.0	2
2087.5	0	2094.5	2	2095.0	0	2114.0	3	2118.5	0
2124.5	2	2125.0	0	2126.0	2	2136.0	0	2190.7	2
2151.5	0	2158.5	2	2175.0	0	2176.0	3	2184.5	0
2187.5	2	2188.5	0	2189.0	2	2198.0	0	2199.0	2
2211.0	4	2211.5	0	2211.5	4	2220.0	2	2230.5	0
2221.5	2	2235.0	0	2235.5	2	2237.0	2	2239.0	0
2233.5	0	2240.5	2	2241.0	0	2241.0	2	2245.0	0
2250.5	2	2252.0	0	2254.5	1	2258.0	0	2260.0	0
2260.5	0	2261.0	1	2273.0	0	2280.0	0	2280.5	0
2260.5	0	2261.0	1	2273.0	0	2280.0	0	2280.5	0

Figure 25 North Station to Science Park Data

FROM - NORTH STATION
TO - SCIENCE PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2384.0	1	2396.0	0	2396.5	1	2397.0	3	2397.5	1		
2398.0	0	2401.5	1	2629.0	0	2633.0	1	2643.5	0		
2500.5	1	2651.0	0	2653.0	1	2667.5	0	2679.5	1		
2738.5	0	2742.5	1	2791.0	0	2795.5	1	2800.5	0		
2813.0	1	2868.0	0	2870.0	1	2946.5	0	2952.0	1		
2980.5	0	2986.0	1	2987.5	0	2988.0	1	3008.5	0		
3009.0	1	3262.0	0	3262.5	1	3526.0	0	3536.5	1		
3399.5	0	3602.0	1	3616.5	0	3617.5	1	3627.0	0		
3648.5	0	3672.5	0	3674.5	1	3703.0	0	3732.0	1		
3762.0	0	3772.0	1	3776.0	0	3782.0	1	3810.0	0		
3846.5	1	3852.5	0	3853.0	1	3899.0	0	3920.5	1		
3921.5	0	3922.0	1	3928.0	0	3939.0	1	3947.0	0		
3949.5	1	4051.0	0	4091.5	1	4103.5	0	4115.0	1		
4116.0	0	4133.0	1	4141.5	0	4175.5	1	4176.0	0		
4176.5	1	4192.5	0	4193.5	1	4194.0	0	4210.5	1		
4249.0	0	4259.5	1	4261.5	0	4263.5	1	4275.5	0		
4308.0	1	4309.5	0	4313.5	1	4320.5	0	4331.0	1		
4340.0	0	4377.0	1	4383.0	0	4383.5	1	4383.5	0		
4384.0	1	4426.5	0	4433.0	1	4434.0	0	4450.5	1		
4560.5	0	4662.0	1	4663.5	0	4664.0	1	4675.5	0		
4665.5	1	4676.5	0	4676.0	1	4676.0	0	4676.5	1		
4776.0	1	4776.5	0	4777.0	1	4778.0	0	4778.0	1		
4779.5	0	4780.5	1	4781.0	0	4782.0	1	4782.5	0		
4783.5	1	4785.5	0	4786.0	1	4786.5	0	4786.5	1		

Figure 25 North Station to Science Park Data (cont'd)

FROM - NORTH STATION
TO - SCIENCE PARK
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
10.5	1	55.170	179.0	3	55.931	837.5	4	57.371
1050.0	3	55.860	1058.0	4	57.314	1073.0	4	57.270
1082.5	1	56.106	1146.5	1	56.220	1158.5	1	56.204
2211.0	4	57.275	2212.5	4	57.262	2354.5	1	56.235
2360.0	1	56.110	2361.0	1	56.249	2380.0	1	56.191
2384.0	1	56.219	2397.0	3	55.795	2401.5	1	56.186
2633.0	1	56.213	2650.5	1	56.117	2653.0	1	56.244
2679.5	1	56.120	2742.5	1	56.133	2795.5	1	56.209
2813.0	1	56.132	2870.0	1	56.152	2952.0	1	56.168
2986.0	1	56.205	2988.0	1	56.246	3009.0	1	56.245
3262.5	1	56.217	3536.5	1	56.176	3602.0	1	56.234
3617.5	1	56.249	3649.5	1	56.146	3674.0	1	56.242
3732.0	1	56.113	3772.0	1	56.235	3782.0	1	56.193
3946.5	1	56.177	3953.0	1	56.239	3970.0	1	56.157
3923.0	1	56.341	3950.0	1	56.243	3980.0	1	56.200
4091.5	1	56.101	4110.0	1	56.158	4150.0	1	56.165
4175.5	1	56.092	4176.5	1	49.246	4195.5	1	56.205
4312.5	1	56.142	4259.5	1	56.172	4265.5	1	56.210
4308.0	1	56.133	4313.5	1	56.232	4339.0	1	56.189
4377.0	1	56.130	4362.5	1	56.237	4370.0	1	56.225
4427.0	1	56.236	4630.5	1	56.150	4633.0	1	56.205
4664.0	1	56.225	4660.5	1	56.239	4676.0	1	56.178
4775.5	3	55.601	4779.0	6	57.658	4786.0	1	56.178
4782.0	6	58.397	4785.5	6	56.675	4786.0	7	57.278

Figure 25 North Station to Science Park Data (cont'd)

FROM - NORTH STATION
TO - SCIENCE PARK
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.08	3	4.0
4	57.75	57.25	0.27	8	13.0
2	57.25	57.00	7.21	64	346.0
0	57.00	56.25	81.50	121	3912.0
1	56.25	56.00	10.77	62	517.0
3	56.00	-99.00	0.17	5	8.0

ZONES	IPT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	59.75
0+1+2	3	56.00	57.25	39.46
0+1	4	56.00	57.00	92.37
6+3	BELOW STANDARD	56.00	57.75	0.28

Figure 25 North Station to Science Park Data (cont'd)

FROM - SCIENCE PARK
TO - LECHMERE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1.5	0	8.0	2	10.5	0	13.0	1	30.0	0		
35.0	2	72.0	0	77.5	1	78.0	0	78.5	1		
88.5	0	89.0	1	85.5	0	86.0	2	918.0	0		
914.0	2	932.5	0	945.0	2	969.0	0	978.5	2		
979.0	0	984.5	2	989.0	0	991.5	2	992.0	0		
995.5	2	1006.0	0	1010.5	2	1012.5	0	1017.0	2		
1018.0	0	1018.5	2	1019.0	0	1024.5	2	1027.0	0		
1029.0	2	1029.5	0	1044.5	2	1049.0	0	1055.0	2		
1055.5	0	1057.0	2	1066.5	2	1081.0	2	1082.0	0		
1087.5	2	1088.5	0	1089.0	2	1105.5	0	1106.0	2		
1117.0	0	1117.5	2	1119.0	0	1119.5	2	1128.5	0		
1140.5	2	1141.0	4	1142.0	2	1142.5	4	1150.5	2		
1151.0	0	1152.0	2	1158.5	0	1159.0	2	1164.0	0		
1171.0	2	1177.5	0	1181.0	2	1257.0	0	1258.0	1		
1282.0	0	1285.0	1	1289.5	0	1290.5	1	1291.0	0		
1291.5	1	1305.5	0	1310.5	1	1314.0	0	1314.5	1		
1326.5	0	1327.0	1	1327.5	3	1332.0	1	1553.5	0		
1554.0	1	1559.5	0	1563.5	1	1573.5	0	1584.0	1		
1597.5	0	1610.5	1	1669.0	0	1673.0	1	1721.5	0		
1726.0	1	1731.0	0	1743.5	1	1798.5	0	1800.5	1		
1876.5	0	1892.5	1	1911.0	0	1916.5	1	1917.0	0		
1917.5	1	1918.0	0	1918.5	1	1923.0	1	1940.0	1		
2152.5	0	2193.0	1	2456.5	0	2461.5	1	2530.0	0		
2332.5	1	2547.0	0	2548.0	1	2587.0	0	2579.0	1		
2603.0	0	2605.0	1	2633.5	0	2662.5	0	2661.5	0		
2658.0	1	2659.0	0	2659.5	1	2672.5	0	2673.0	1		
2892.0	0	2702.5	1	2705.5	0	2713.5	1	2740.0	0		
2777.5	1	2783.0	0	2789.5	1	2800.0	1	2801.5	1		
2826.0	0	2836.5	1	2823.0	0	2825.0	1	2851.0	0		

Figure 26 Science Park to Lechmere Data

FROM - SCIENCE PARK
TO - LECHMERE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2852.5	1	2858.5	0	2865.0	1	2871.5	0	2880.0	1
2910.0	0	2910.5	1	2921.0	0	2925.0	1	2934.0	0
3063.5	1	3072.0	0	3100.0	1	3106.5	0	3107.0	1
3107.5	0	3109.0	1	3125.0	0	3148.0	1	3179.0	0
3190.0	1	3191.5	0	3194.0	1				

Figure 26 Science Park to Lechmere Data (cont'd)

FROM - SCIENCE PARK
TO - LECHMERE
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
13.0	1	56.881	77.5	1	56.214	78.5	1	56.246
89.0	1	56.192	1141.0	4	57.271	1142.5	4	57.259
1258.0	1	56.248	1285.0	1	56.223	1290.5	1	56.118
1291.5	1	56.246	1310.5	1	56.189	1314.5	1	56.242
1327.5	3	55.768	1554.0	1	56.247	1563.5	1	56.209
1384.0	1	56.171	1610.5	1	56.116	1673.0	1	56.125
1882.5	1	56.205	1743.5	1	56.130	1800.5	1	56.189
1918.5	1	56.167	1916.5	1	56.206	1917.5	1	56.248
2467.5	1	56.248	1940.0	1	56.190	2193.0	1	56.171
2579.0	1	56.174	2532.5	1	56.131	2548.0	1	56.248
2668.0	1	56.146	2605.0	1	56.205	2652.5	1	56.112
2702.5	1	56.249	2665.5	1	56.247	2673.0	1	56.248
2783.5	1	56.232	2711.5	1	57.191	2777.5	1	56.194
2851.0	1	56.246	2805.5	1	56.247	2826.5	1	56.218
2880.0	1	56.157	2832.5	1	56.236	2866.0	1	56.215
3063.5	1	56.234	2910.5	1	56.248	3027.0	1	56.098
3108.0	1	56.095	3106.0	1	56.096	3197.0	1	56.247
3194.0	1	56.249	3143.0	1	56.158	3190.0	1	56.151
		56.227						

Figure 26 Science Park to Lechmere Data (cont'd)

		FROM - SCIENCE PARK TO - LECHMERE GAGE			
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.03	2	1.0
2	57.25	57.00	4.89	30	156.5
0	57.00	56.25	83.00	81	2656.0
1	56.25	56.00	12.06	54	386.0
3	56.00	-99.00	0.02	1	0.5

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.98
0+1+2	3	56.00	57.25	99.95
0+1	4	56.00	57.00	99.06
6+3	BELOW STANDARD	56.00	57.75	0.02

Figure 26 Science Park to Lechmere Data (cont'd)

FROM - LECHMERE
TO - SCIENCE PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1.5	0	2.0	2	2.5	0	3.0	4	4.0	2
5.5	0	6.0	1	6.5	0	7.0	2	8.0	0
16.0	1	16.5	6	17.0	4	22.0	6	22.5	4
23.0	6	23.5	4	24.0	6	26.0	0	27.5	4
36.0	6	36.5	0	37.0	6	37.5	4	38.0	0
38.5	4	42.0	0	42.5	6	44.0	0	44.5	2
45.5	4	46.0	2	49.0	6	49.5	4	50.0	6
52.5	4	53.0	2	53.5	4	54.0	2	54.5	1
55.0	2	55.5	0	56.0	2	56.5	0	58.0	2
58.5	0	59.0	2	63.5	0	66.0	2	66.5	0
69.5	2	77.0	0	80.5	2	81.5	4	82.0	2
82.5	0	83.0	2	90.0	0	92.5	2	93.0	4
94.0	2	94.5	0	95.0	2	96.5	6	97.5	4
98.5	2	114.0	0	117.0	2	118.0	4	121.5	2
123.5	0	127.0	2	129.5	4	132.0	2	132.5	0
133.0	4	133.5	2	134.0	0	136.0	2	138.5	4
141.0	2	145.5	4	146.5	2	149.0	4	150.0	2
152.0	4	153.5	6	161.5	4	163.0	6	173.0	4
185.5	2	186.5	4	187.5	2	187.5	0	189.0	2
194.5	0	202.0	2	204.0	4	205.0	2	208.0	0
208.5	1	210.5	0	211.0	1	212.0	0	213.0	2
216.0	0	219.5	0	220.0	0	220.5	2	221.5	0
222.0	2	228.0	0	233.0	2	233.5	0	238.0	2
245.5	4	261.5	2	271.0	0	277.5	2	278.0	4
279.0	2	279.5	4	280.0	2	281.0	1	285.0	2
287.0	4	302.5	2	307.5	0	313.5	2	345.5	4
346.0	6	348.0	4	348.5	6	349.5	4	351.5	6
364.0	4	364.5	6	389.0	4	394.0	2	439.5	4
434.0	2	560.5	4	564.0	2	568.0	4	568.5	6

Figure 27 Lechmere to Science Park Data

FROM - LECHMERE
TO - SCIENCE PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
574.5	4	579.0	2	585.0	0	591.0	2	630.0	4
635.5	2	644.5	0	647.5	2	669.0	4	670.0	2
756.0	4	761.5	2	780.5	0	782.0	2	783.0	0
783.5	2	796.0	0	798.5	2	813.5	0	848.5	2
861.0	0	865.5	2	873.5	0	918.5	2	927.5	0
940.5	2	944.5	0	962.0	2	963.0	0	1022.5	2
1031.5	0	1032.5	2	1045.0	0	1055.5	2	1056.0	0
1066.5	2	1067.0	0	1067.5	2	1070.5	0	1084.5	2
1085.0	4	1086.5	2	1087.0	4	1088.0	2	1088.5	4
1106.5	2	1111.0	0	1136.0	2	1138.5	0	1152.0	2
1171.0	0	1172.0	2	1173.0	0	1173.5	2	1174.5	0
1175.0	2	1197.0	0	1213.0	2	1268.0	0	1270.0	2
1270.5	0	1272.5	2	1273.0	0	1273.5	2	1275.0	0
1277.0	2	1286.5	0	1288.0	2	1310.5	0	1316.0	2
1318.5	0	1323.0	2	1327.0	0	1330.0	2	1331.0	4
1333.0	2	1334.0	4	1357.0	2	1354.0	0	1361.0	2
1692.0	0	1693.0	2	1773.5	0	1774.0	2	1774.5	0
1776.5	2	1791.0	0	1792.0	2	1964.0	0	1967.5	2
1968.0	0	1973.5	2	1975.0	0	1976.0	2	1975.5	0
1981.0	2	1984.5	0	1994.0	2	2103.0	0	2103.0	2
2115.5	0	2119.0	2	2131.0	0	2142.5	2	2171.0	0
2178.5	2	2184.0	0	2199.5	2	2300.0	0	2300.5	2
2207.0	0	2219.0	2	2230.5	0	2242.5	0	2346.0	0
2250.5	2	2254.0	0	2264.5	2	2304.5	0	2306.0	2
2341.5	0	2342.0	2	2357.0	2	2364.0	0	2398.0	0
2400.0	2	2409.5	0	2423.0	2	2431.5	4	2483.5	2
2426.0	0	2427.5	2	2515.5	0	2519.0	0	2600.0	0
2708.5	2	3001.5	0	3004.0	2	3107.0	0	3106.0	2
3118.5	4	3124.0	2	3125.0	0	3125.0	2	3125.0	2

Figure 27 Lechmere to Science Park Data (cont'd)

FROM - LECHMERE
TO - SCIENCE PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3134.5	2	3135.5	4	3159.0	2	3160.0	0	3163.0	2
3163.5	0	3170.0	2	3180.5	0	3190.5	2	3192.5	0
3209.5	2	3212.0	0	3250.0	2	3250.5	4	3288.0	2
3295.0	0	3296.5	2	3301.5	0	3309.5	2	3314.0	0
3324.0	2	3330.5	0	3353.5	2	3354.5	0	3382.5	2
3384.0	4	3384.5	2	3386.0	4	3393.5	2	3411.5	0
3415.5	2	3416.0	4	3423.0	2	3441.5	0	3443.5	2
3447.0	0	3449.0	2	3471.0	0	3479.0	2	3500.0	0
3502.5	2	3508.5	0	3509.0	2	3510.5	0	3515.0	2
3517.5	4	3550.5	2	3553.0	4	3605.5	2	3629.0	0
3630.5	2	3631.0	4	3645.5	2	3653.0	0	3656.0	2
3743.5	4	3744.0	2						

Figure 27 Lechmere to Science Park Data (cont'd)

FROM - LECHMERE
TO - SCIENCE PARK
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
3.0	4	57.453	6.0	1	56.062	16.5	6	58.224
22.0	6	58.399	33.0	6	57.753	24.0	6	58.095
36.0	6	58.450	37.0	6	57.854	38.5	4	57.294
42.5	6	58.155	45.5	4	57.448	58.5	6	58.483
50.0	6	57.878	53.5	4	57.261	54.5	1	56.092
81.5	4	57.340	93.0	4	57.318	96.5	6	58.178
118.0	4	57.267	128.5	4	57.264	133.0	4	57.263
138.5	4	57.364	145.5	4	57.518	149.0	4	57.369
153.5	6	57.918	163.0	6	57.849	186.5	4	57.318
204.0	4	57.452	208.5	1	56.244	211.0	1	56.240
219.5	1	56.113	245.5	4	57.418	273.0	4	57.271
279.5	4	57.269	281.0	4	57.256	287.0	4	57.398
346.0	6	57.754	348.5	6	57.756	351.5	6	57.616
364.5	6	57.765	429.5	4	57.740	560.5	4	57.765
568.5	6	57.762	630.0	4	57.659	669.0	4	57.496
756.0	4	57.685	1085.0	4	57.251	1087.0	4	57.387
1088.5	4	57.374	1331.0	4	57.450	1334.0	4	57.364
2424.5	4	57.361	3118.5	4	57.410	3135.5	4	57.366
3250.5	4	57.256	3334.0	4	57.288	3336.0	4	57.284
3416.0	4	57.271	3517.5	4	57.246	3553.0	4	57.287
3631.0	4	57.264	3713.5	4	57.476			

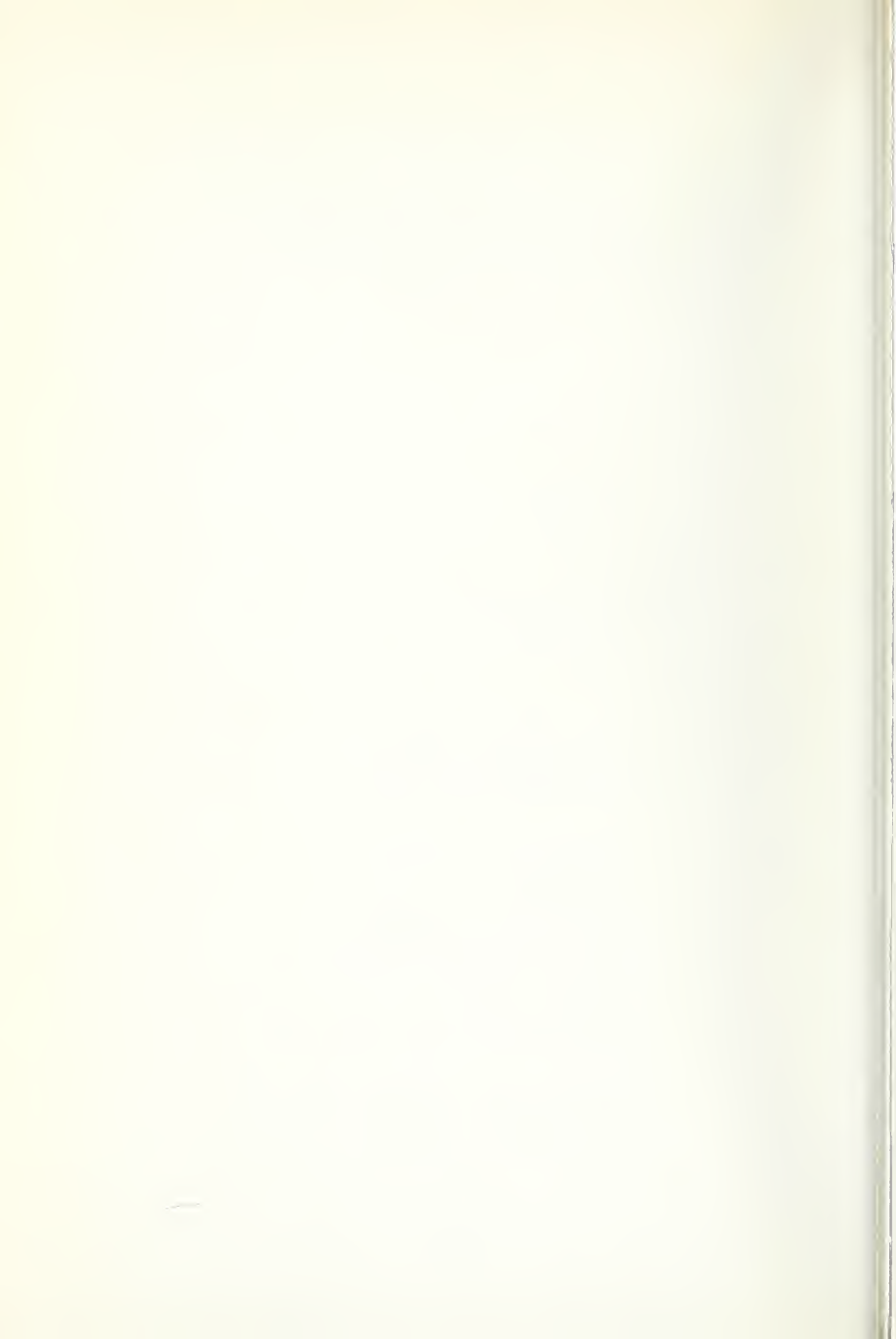
Figure 27 Lechmere to Science Park Data (cont'd)

FRONT - LECHMERE
TO - SCIENCE PARK
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.74	17	28.0
4	57.75	57.25	16.32	58	620.0
2	57.25	57.00	26.28	150	998.5
0	57.00	56.25	56.32	116	2140.0
1	56.25	56.00	0.36	6	13.5
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.26
0+1+2	3	56.00	57.25	82.95
0+1	4	56.00	57.00	56.67
6+3	BELOW STANDARD	56.00	57.75	0.74

Figure 27 Lechmere to Science Park Data (cont'd)



FROM - SCIENCE PARK
TO - NORTH STATION
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
46.0	0	52.0	2	58.5	0	61.5	2	74.5	0
84.5	2	117.0	0	121.0	2	137.0	0	142.0	2
150.5	0	161.5	2	173.0	0	184.5	2	188.5	0
192.5	2	197.0	0	207.0	2	247.5	0	248.5	2
296.5	0	297.0	2	300.5	0	306.5	2	341.0	0
342.5	2	352.0	0	365.5	2	367.0	4	368.0	2
368.5	0	370.0	2	458.5	0	460.5	2	642.0	0
643.0	2	944.5	0	946.5	2	1044.0	0	1049.0	2
1061.0	4	1066.5	2	1068.0	0	1068.5	2	1069.5	0
1077.5	2	1078.0	4	1101.5	2	1102.5	0	1105.5	2
1106.5	0	1112.0	2	1123.0	0	1133.0	2	1135.5	0
1152.0	2	1154.5	0	1230.5	2	1238.0	0	1239.0	2
1244.5	0	1252.0	2	1257.0	0	1266.5	2	1273.0	0
1296.0	2	1297.0	0	1325.0	2	1326.5	4	1327.5	2
1329.0	4	1336.0	2	1354.5	0	1358.0	2	1358.5	4
1365.5	2	1384.0	0	1386.0	2	1390.0	0	1391.5	2
1414.0	0	1421.5	2	1442.5	0	1445.0	2	1453.0	0
1458.0	2	1459.0	4	1459.5	2	1460.0	4	1493.5	2
1495.5	4	1548.0	2	1572.0	0	1588.0	2	1593.5	0
1598.5	2	1686.0	4	1688.5	2	1745.5	4	1746.0	2
1746.5	4	1754.0	2	1755.0	4	1756.5	6	1782.0	4
1786.5	2	1800.5	4	1801.5	6	1943.5	4	1903.0	2
1911.5	4	1915.0	2	1941.0	0	1947.0	2	2067.5	0
2068.0	2	2193.5	0	2198.0	2	2198.5	4	2199.5	2
2200.0	0	2200.5	2	2230.0	0	2239.0	2	2239.5	0
2230.0	2	2230.5	0	2327.0	2	2333.0	0	2334.5	2
2235.5	0	2236.0	2	2367.0	0	2375.5	2	2378.0	4
2279.0	2	2280.0	4	2380.5	2	2387.0	4	2388.0	2
2296.5	0	2308.0	2	2308.5	0	2314.5	2	2716.0	0

Figure 28 Science Park to North Station Data

FROM - SCIENCE PARK
TO - NORTH STATION
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2325.5	2	2326.5	0	2327.0	1	2329.0	0	2331.5	2		
2335.0	4	2339.0	2	2341.0	0	2352.5	2	2353.0	2		
2373.0	2	2375.0	0	2411.5	2	2413.0	0	2417.5	0		
2418.0	0	2418.5	1	2420.5	0	2436.0	2	2436.5	0		
2441.0	1	2441.0	2	2444.0	0	2450.0	2	2454.0	2		
2454.5	1	2470.5	2	2473.0	0	2473.5	1	2475.0	2		
2477.0	0	2479.5	1	2487.5	2	2488.0	0	2488.5	4		
2489.0	0	2506.0	2	2508.5	0	2509.0	2	2512.5	0		
2515.0	2	2519.5	0	2522.5	2	2523.0	0	2524.0	2		
2526.0	0	2529.5	2	2534.0	0	2568.0	2	2568.5	0		
2569.0	1	2572.5	0	2587.0	2	2587.5	0	2588.0	4		
2588.5	2	2589.0	0	2589.5	2	2590.0	0	2590.5	2		
2591.0	4	2591.5	2	2593.0	0	2600.5	2	2602.0	0		
2602.5	1	2603.0	2	2603.5	4	2604.0	2	2604.5	0		
2611.5	1	2612.5	0	2628.5	2	2631.5	0	2641.0	2		
2642.5	4	2646.0	2	2693.0	0	2697.0	2	2722.5	0		
2729.0	2	2771.5	0	2777.0	2	2813.0	2	2814.5	2		
2815.0	0	2827.5	2	2830.5	0	2842.0	2	3030.5	0		
3040.0	0	3041.0	4	3047.0	2	3085.0	0	3085.5	2		
3104.0	0	3104.5	2	3109.0	0	3106.5	2	3117.5	0		
3121.0	2	3133.5	2	3136.0	2	3166.0	4	3169.5	2		
3170.0	4	3186.5	2	3187.5	4	3188.0	4	3191.5	4		
3192.0	2	3193.0	4	3193.5	2	3205.0	0	3206.0	2		
3226.5	4	3227.0	2	3233.5	4	3236.0	2	3241.0	0		
3248.5	2	3268.5	4	3274.0	2	3278.5	2	3279.0	2		
3285.0	4	3288.5	2	3321.0	4	3333.5	2	3351.0	0		
3339.0	0	3342.5	4	3352.0	2	3352.5	4	3359.5	2		
3395.0	2	3397.0	2	3645.0	0	3648.5	2	3779.0	2		
3774.5	2	3801.0	0	3801.5	2	3802.0	0	3809.0	2		

Figure 28 Science Park to North Station Data (cont'd)

FROM - SCIENCE PARK
TO - NORTH STATION
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3824.0	0	3825.0	2	3999.0	0	4002.0	2	4058.0	0
4058.5	2	4059.5	0	4063.0	2	4072.0	0	4075.5	2
4085.5	4	4087.5	2	4088.5	4	4090.0	2	4093.5	0
4094.0	2	4117.5	0	4119.0	2	4137.0	0	4144.5	2
4188.0	4	4189.5	2	4332.0	4	4352.5	2	4356.0	0
4378.5	2	4379.0	0	4388.5	2	4389.0	0	4393.0	2
4394.0	4	4401.0	2	4413.5	0	4423.0	2	4423.5	0
4424.0	4	4425.5	6	4426.0	4	4426.5	2	4428.0	4
4429.5	2	4430.5	0	4435.0	2	4436.0	0	4436.5	1
4437.0	0	4439.5	1	4440.0	0	4442.0	2	4443.5	0
4444.0	2	4444.5	0	4452.5	2	4453.5	0	4454.5	2
4460.5	0	4463.5	2	4466.5	0	4472.0	2	4485.0	0
4487.0	2	4488.5	4	4490.5	2	4491.0	0	4496.5	2
4507.0	0	4510.5	2	4511.5	4	4512.0	0	4515.0	4
4515.5	2	4514.5	4	4517.5	2	4516.0	0	4519.5	2
4520.5	0	4521.0	2	4521.5	0	4534.0	2	4537.5	4
4536.0	2	4539.5	4	4540.0	2	4541.0	4	4541.5	2
4543.0	4	4556.5	2	4557.5	0	4559.5	2	4559.0	0
4559.5	4	4562.5	4	4563.0	2	4563.5	1	4564.0	0
4576.0	0	4576.5	2	4581.0	0	4580.5	2	4581.5	4
4582.5	2	4583.5	4	4584.0	2	4584.5	1	4585.2	2
4587.0	0	4590.0	4	4591.0	4	4592.0	2	4593.5	4
4596.5	2	4596.0	4	4600.5	4	4614.5	4	4619.0	2

Figure 28 Science Park to North Station Data (cont'd)

FROM - SCIENCE PARK
TO - NORTH STATION
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
367.0	4	57.344	1061.0	4	57.407	1078.0	4	57.252
1326.5	4	57.278	1329.0	4	57.259	1358.5	4	57.265
1459.0	4	57.259	1460.0	4	57.251	1495.5	4	57.260
1686.0	4	57.472	1745.5	4	57.694	1745.5	4	57.258
1756.5	6	57.945	1801.5	6	57.787	1911.5	4	57.365
2198.5	4	57.319	2278.0	4	57.271	2280.0	4	57.356
2285.0	4	57.257	2327.0	1	56.223	2335.0	4	57.512
2418.5	1	56.245	2441.0	1	56.186	2454.5	1	56.238
2473.5	1	56.247	2473.5	1	56.186	2488.5	4	57.522
2569.0	1	56.250	2588.0	4	57.708	2591.0	4	57.305
2602.5	1	56.184	2603.5	4	57.625	2611.5	1	56.160
2642.5	4	57.300	3041.0	4	57.323	3166.0	4	57.611
3170.0	4	57.271	3187.5	4	57.257	3191.5	4	57.279
3193.0	4	57.256	3205.0	4	57.498	3226.5	4	57.250
3235.5	4	57.345	3241.0	4	57.378	3268.5	4	57.701
3278.5	4	57.358	3305.0	4	57.351	3321.0	1	57.618
3342.5	4	57.336	3370.5	4	57.350	3469.5	4	57.445
4088.5	4	57.354	4188.0	4	57.355	4323.0	4	57.602
4394.0	4	57.365	4407.0	6	58.134	4428.0	4	57.071
4436.5	1	56.200	4421.5	1	56.210	4488.5	4	57.372
4511.5	4	57.267	4513.0	4	57.283	4514.5	4	57.290
4537.5	4	57.360	4537.5	4	57.245	4541.0	4	57.214
4543.0	4	57.291	4582.5	4	57.350	4563.5	4	57.271
4581.5	4	57.262	4588.5	4	57.364	4588.0	4	57.207
4591.0	4	57.317	4597.5	4	57.337	4598.0	4	57.271
4614.5	4	57.551						

Figure 28 Science Park to North Station Data (cont'd)

FROM - SCIENCE PARK
TO - NORTH STATION
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.08	3	4.0
4	57.75	57.25	14.25	68	684.0
2	57.25	57.00	23.99	189	1151.5
0	57.00	56.25	61.26	134	2940.5
1	56.25	56.00	0.42	11	20.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.92
0+1+2	3	56.00	57.25	85.67
0+1	4	56.00	57.00	61.68
6+3	BELOW STANDARD	56.00	57.75	0.08

Figure 28 Science Park to North Station Data (cont'd)



FROM - NORTH STATION
TO - HAYMARKET
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
8.0	0	19.5	2	20.0	0	26.0	2	26.5	0
37.0	2	38.0	0	38.5	1	40.5	0	43.0	2
46.5	4	50.5	2	52.5	0	58.0	2	58.5	0
64.0	2	64.5	0	84.5	2	86.5	0	123.0	2
124.5	0	129.0	2	129.5	0	130.0	1	132.0	0
147.5	2	148.0	0	152.5	1	153.0	2	155.5	0
161.5	2	165.5	0	166.0	1	182.0	2	184.5	0
185.0	1	186.5	2	188.5	0	191.0	1	199.5	2
200.0	4	200.5	0	217.5	2	220.0	0	230.5	2
224.0	0	226.5	2	231.0	2	234.0	2	234.5	0
235.5	2	237.5	0	241.0	2	245.5	0	279.5	2
284.0	0	298.5	2	299.0	0	299.5	4	300.0	2
300.5	0	301.0	2	301.5	0	302.0	2	302.5	4
304.5	0	312.0	2	313.5	0	314.0	1	314.5	2
315.0	4	315.5	2	316.0	0	323.0	1	324.0	0
340.0	2	343.0	0	352.5	2	354.0	4	357.5	2
404.5	0	408.5	2	434.0	0	440.5	2	483.0	0
488.5	2	524.5	0	526.0	2	526.5	0	539.0	2
542.0	0	553.5	2	556.0	0	751.5	2	752.5	4
758.5	2	796.5	0	797.0	2	815.5	0	816.0	2
816.5	0	817.5	2	824.0	0	832.5	0	845.0	0
847.5	2	877.5	4	881.0	2	881.5	4	898.0	2
899.0	4	899.5	2	903.0	4	903.5	2	904.5	4
905.0	2	916.5	4	937.5	2	938.0	4	938.5	2
947.0	4	947.5	2	948.0	4	948.5	2	952.5	4
960.0	2	980.0	4	985.5	4	990.0	4	990.5	2
996.5	4	1000.0	2	1032.5	4	1045.0	2	1045.5	0
1050.5	2	1053.5	4	1053.5	2	1064.0	4	1071.0	2
1105.5	0	1108.5	2	1355.5	0	1350.0	2	1485.5	0

Figure 29 North Station to Haymarket Data

FROM - NORTH STATION
TO - HAYMARKET
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1486.0	2	1512.5	0	1513.0	2	1513.5	0	1520.5	2		
1535.5	0	1536.5	2	1710.5	0	1713.5	2	1769.5	0		
1770.0	2	1771.5	0	1774.5	2	1783.5	0	1787.0	2		
1796.5	4	1799.0	2	1800.0	4	1801.5	2	1805.0	0		
1805.5	2	1829.0	0	1830.5	2	1848.5	0	1856.0	2		
1899.5	4	1901.0	2	2043.5	4	2064.0	2	2067.5	0		
2090.0	2	2090.5	0	2100.0	2	2100.5	0	2104.5	2		
2105.5	4	2112.5	2	2125.0	0	2134.5	2	2135.0	0		
2135.5	4	2137.0	6	2137.5	4	2138.0	2	2139.5	4		
2141.0	2	2142.0	0	2146.5	2	2147.5	0	2148.0	1		
2148.5	0	2151.0	1	2151.5	0	2153.5	2	2155.0	0		
2155.5	2	2156.0	0	2164.0	2	2165.0	0	2171.0	2		
2172.0	0	2175.0	2	2178.0	0	2183.5	2	2196.5	0		
2198.5	2	2200.0	4	2202.0	2	2202.5	0	2208.0	2		
2218.5	0	2222.0	2	2223.0	4	2223.5	2	2224.5	4		
2225.0	2	2226.0	4	2227.0	2	2227.5	0	2231.0	2		
2243.0	0	2245.5	2	2249.0	4	2249.5	2	2251.0	2		
2251.5	2	2252.5	4	2253.0	2	2254.5	4	2268.0	2		
2269.0	0	2270.0	2	2270.5	0	2271.0	2	2274.0	0		
2274.5	2	2275.0	4	2277.5	0	2277.5	0	2288.0	0		
2291.5	0	2292.0	2	2293.0	4	2294.0	2	2295.0	4		
2295.5	2	2296.5	4	2297.0	2	2298.5	0	2301.5	2		
2302.5	4	2303.5	2	2305.0	4	2306.0	2	2306.5	4		
2314.0	2	2326.0	4	2330.5	0	2342.5	0	2345.0	2		
2643.5	0	2644.0	2	2644.5	0	2651.0	2	2656.0	4		
2659.5	2	2660.5	0	2661.0	2	2668.5	0	2671.5	2		
2701.0	4	2706.0	2	2707.0	6	2707.5	4	2709.0	0		
2711.0	3	2712.0	6	2712.5	4	2714.0	2	2717.5	2		
2722.5	4	2723.0	2	2723.5	4	2726.0	2	2726.5	4		

Figure 29 North Station to Haymarket Data (cont'd)

FROM - NORTH STATION
 TO - HAYMARKET
 GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2727.5	6	2731.5	1	2732.0	2	2739.5	6
2740.5	1	2755.0	3	2755.5	1	2757.0	0
2782.0	4	2783.0	0	2783.5	1		
						2740.0	2
						2781.0	6

Figure 29 North Station to Haymarket Data (cont'd)

FROM - NORTH STATION
TO - HAYMARKET
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
38.5	1	56.224	46.5	4	57.511	130.0	1	56.245
152.5	1	56.185	166.0	1	56.237	185.0	1	56.245
191.0	1	56.187	200.0	4	57.515	299.5	4	57.702
302.5	4	57.307	314.0	1	56.190	315.0	4	57.635
323.0	1	56.147	354.0	4	57.300	752.5	4	57.323
877.5	4	57.610	881.5	4	57.270	899.0	4	57.457
903.0	4	57.278	904.5	4	57.255	916.5	4	57.498
938.0	4	57.251	947.0	4	57.346	948.0	4	57.278
952.5	4	57.377	980.0	4	57.701	990.0	4	57.358
996.5	4	57.359	1032.5	4	57.619	1053.5	4	57.356
1064.0	4	57.250	1796.5	4	57.444	1800.0	4	57.355
1899.5	4	57.355	2043.5	4	57.642	2105.5	4	57.364
2137.0	6	58.183	2139.5	4	57.452	2140.0	1	56.200
2151.0	1	56.216	2200.0	4	57.351	2223.0	4	57.200
2224.5	4	57.282	2226.0	4	57.379	2249.0	4	57.300
2251.0	4	57.325	2252.5	4	57.314	2254.5	4	57.301
2274.0	4	57.385	2275.0	4	57.391	2293.0	4	57.351
2295.0	4	57.284	2296.5	4	57.257	2302.5	4	57.371
2305.0	4	57.337	2309.5	4	57.373	2320.0	4	57.302
2655.0	4	57.336	2701.0	4	57.634	2707.0	6	58.161
2712.0	6	58.405	2714.0	6	58.580	2727.5	3	57.412
2726.0	6	57.929	2737.5	6	58.983	2759.5	6	58.716
2755.0	3	55.818	2781.0	6	59.631			

Figure 29 North Station to Haymarket Data (cont'd)

FROM - NORTH STATION
TO - HAYMARKET

GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	1.45	9	40.5
4	57.75	57.25	14.68	56	411.0
2	57.25	57.00	23.45	132	656.5
0	57.00	56.25	58.32	90	1633.0
1	56.25	56.00	0.89	14	25.0
3	56.00	-99.00	1.21	2	34.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	97.34
0+1+2	3	56.00	57.25	82.66
0+1	4	56.00	57.00	59.21
6+3	BELOW STANDARD	56.00	57.75	2.66

Figure 29 North Station to Haymarket Data (cont'd)



FROM - HAYMARKET
TO - GOVERNMENT CENTER
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
11.0	0	13.0	2	14.5	4	16.5	2	17.0	0	17.0	0
22.0	2	33.0	0	36.5	2	37.0	4	38.0	2	38.0	2
38.5	4	39.5	2	40.5	4	41.5	2	42.0	0	42.0	0
45.0	2	57.5	0	60.0	2	63.5	4	64.0	2	64.0	2
65.5	4	66.0	2	67.0	4	67.5	2	68.5	4	68.5	4
82.0	2	83.5	0	84.0	2	85.0	0	88.5	4	88.5	4
90.0	2	106.0	0	108.5	2	109.0	4	110.0	2	110.0	2
110.5	4	111.0	2	113.5	0	113.5	2	117.0	4	117.0	4
118.0	2	119.5	4	122.5	2	123.5	4	128.5	2	128.5	2
140.0	4	144.5	2	457.0	0	457.5	2	458.0	0	458.0	0
458.5	2	459.0	0	466.0	2	469.0	4	473.0	2	473.0	2
483.0	0	486.5	2	486.0	2	489.0	4	489.0	0	489.0	0
535.0	0	536.5	4	515.5	4	528.5	2	532.5	4	532.5	4
555.5	4	559.0	2	538.0	2	539.0	4	539.5	2	539.5	2
630.5	2	641.5	0	562.0	0	571.5	2	623.5	4	623.5	4
654.5	4	657.0	2	645.5	2	646.0	0	650.5	2	650.5	2
699.0	2	697.5	0	686.5	0	687.0	2	687.5	0	687.5	0
782.5	0	784.5	2	702.0	1	723.5	0	736.5	2	736.5	2
997.0	2	1016.5	4	973.5	0	977.5	2	993.5	0	993.5	0
1128.5	0	1131.0	1	1047.5	2	1061.5	4	1064.0	2	1064.0	2
1137.5	0	1138.0	2	1131.5	2	1133.0	0	1134.0	1	1134.0	1
1202.5	2	1211.0	4	1163.5	0	1163.0	2	1196.0	4	1196.0	4
1244.0	4	1255.5	2	1220.5	2	1221.0	4	1231.0	2	1231.0	2
1276.5	2	1285.5	4	1264.5	4	1265.0	2	1265.0	4	1265.0	4
1301.0	0	1301.5	1	1295.5	2	1297.5	4	1300.0	4	1300.0	4
1303.5	1	1304.0	2	1302.0	0	1302.5	4	1307.0	2	1307.0	2
1315.5	4	1316.0	2	1308.0	0	1308.5	2	1309.5	0	1309.5	0
1321.0	4	1321.5	2	1319.0	0	1319.5	4	1320.5	6	1320.5	6
1324.0	4	1325.0	0	1322.5	0	1323.0	1	1323.5	0	1323.5	0
		1328.0	1	1328.0	1	1329.0	0	1329.5	2	1329.5	2

Figure 30 Haymarket to Government Center Data

FROM - HAYMARKET
TO - GOVERNMENT CENTER
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1330.0	1	1330.5	2	1331.5	1	1332.0	0	1332.0	0	1334.5	1
1335.5	0	1336.0	2	1348.0	0	1350.0	2	1350.0	2	1353.5	1
1362.5	0	1363.5	2	1427.5	0	1432.5	2	1432.5	2	1438.5	4
1449.0	2	1449.5	0	1473.5	2	1480.5	4	1480.5	4	1484.0	2
1498.0	0	1504.5	2	1510.0	4	1510.5	2	1510.5	2	1511.5	4
1512.0	2	1513.0	4	1522.0	2	1528.5	0	1533.0	2	1533.0	2
1534.0	0	1542.0	2	1544.0	4	1545.0	2	1545.0	2	1545.5	4
1548.5	2	1550.0	4	1550.5	2	1556.5	4	1556.5	4	1561.5	2
1583.5	4	1604.0	2	1605.0	4	1605.5	2	1605.5	2	1612.5	4
1618.0	2	1636.5	4	1637.0	2	1638.5	0	1638.5	0	1639.0	2
1641.5	4	1642.0	2	1659.5	4	1674.0	2	1674.0	2	1678.5	4
1701.5	2	1710.5	4	1720.5	2	1723.0	0	1723.0	0	1729.5	2
1745.5	4	1749.5	2	1750.5	2	1754.5	2	1754.5	2	1757.0	4
1764.0	2	1768.5	0	1772.5	2	1777.5	0	1777.5	0		

Figure 30 Haymarket to Government Center Data (cont'd)

FROM - HAYMARKET
TO - GOVERNMENT CENTER
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
14.5	4	57.349	37.0	4	57.256	38.5	4	57.262
40.5	4	57.350	63.5	4	57.352	65.5	4	57.315
67.0	4	57.297	68.5	4	57.297	88.5	4	57.366
109.0	4	57.269	110.5	4	57.264	117.0	4	57.292
119.5	4	57.330	123.5	4	57.260	140.0	4	57.530
469.0	4	57.323	515.5	4	57.626	532.5	4	57.322
536.5	4	57.269	539.0	4	57.259	555.5	4	57.466
622.5	4	57.686	654.5	4	57.400	702.0	1	56.232
1016.5	4	57.500	1061.5	4	57.640	1131.0	1	56.115
1134.0	1	56.147	1139.0	4	57.513	1311.0	4	57.367
1221.0	4	57.264	1244.0	4	57.457	1364.5	4	57.440
1266.0	4	57.264	1295.5	4	57.464	1397.5	4	57.250
1301.5	1	56.238	1302.5	4	57.445	1303.5	1	56.240
1315.5	4	57.543	1340.5	0	57.875	1323.0	1	56.210
1324.0	4	57.276	1343.0	1	56.188	1340.0	1	56.093
1331.5	1	56.027	1344.5	1	56.118	1338.5	1	56.111
1438.5	4	57.340	1449.5	4	57.516	1500.0	4	57.338
1511.5	4	57.270	1513.0	4	57.475	1544.0	4	57.280
1545.5	4	57.272	1560.0	4	57.267	1566.5	4	57.471
1583.5	4	57.617	1605.0	4	57.558	1612.5	4	57.110
1636.5	4	57.461	1641.5	4	57.397	1639.5	1	57.308
1678.5	4	57.326	1710.5	4	57.317	1654.0	4	57.311
1745.5	4	57.392	1759.5	4	57.246	1753.0	4	57.257
1777.5	4	57.354						

Figure 30 Haymarket to Government Center Data (cont'd)

FROM - HAYMARKET
TO - GOVERNMENT CENTER
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTL FT.
6	99.00	57.75	0.06	1	1.0
4	57.75	57.25	21.25	60	382.5
2	57.25	57.00	26.31	95	473.5
0	57.00	56.25	51.50	47	927.0
1	56.25	56.00	0.89	11	16.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IPT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.94
0+1+2	3	56.00	57.25	78.69
0+1	4	56.00	57.00	52.39
6+3	BELOW STAND	56.00	57.75	0.06

Figure 30 Haymarket to Government Center Data (cont'd)

FROM - GOVERNMENT CENTER
TO - PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3.5	0	4.0	1	13.5	0	14.0	2	17.5	0		
30.5	2	47.0	4	47.5	4	48.0	4	49.5	2		
50.0	4	50.5	2	59.0	4	79.5	2	92.0	4		
103.5	2	112.5	4	113.0	2	114.0	4	125.0	2		
133.5	4	143.0	2	143.5	4	144.0	2	145.5	4		
148.0	2	150.0	0	150.5	4	151.0	2	151.5	1		
152.0	2	154.0	1	156.0	0	156.5	2	157.5	0		
163.5	4	162.5	2	166.0	0	167.5	4	168.5	6		
169.0	4	169.5	2	171.5	0	172.0	2	173.0	0		
176.0	1	177.5	0	178.0	1	178.5	2	179.5	1		
180.0	0	182.5	1	183.0	1	184.0	2	185.5	0		
186.0	1	190.0	0	190.5	1	196.0	0	196.5	4		
198.0	2	201.5	1	210.5	0	211.5	2	275.5	0		
280.5	2	286.5	4	321.5	2	328.5	4	331.5	2		
346.0	0	352.5	2	358.0	4	358.5	2	359.5	4		
360.0	2	361.0	4	370.0	2	376.5	0	381.0	2		
382.0	0	390.0	2	392.0	4	393.0	2	393.5	4		
396.5	2	397.5	4	398.5	2	405.0	4	409.5	2		
420.0	4	420.5	2	431.5	4	452.0	2	457.0	4		
457.5	2	459.0	4	459.5	2	460.5	1	456.0	2		
485.0	4	487.0	0	489.5	4	490.0	2	507.5	4		
522.0	2	526.5	4	549.5	4	558.5	4	568.5	2		
571.0	4	577.5	2	593.5	4	598.0	2	598.5	4		
602.5	2	605.0	4	612.0	2	616.5	0	620.5	2		
625.5	4	671.5	2	697.0	0	729.0	2	766.0	0		
770.5	2	826.5	0	830.0	2	833.5	9	836.5	2		
837.0	0	852.0	2	960.0	4	970.0	2	972.0	4		
985.5	2	1047.0	0	1057.5	2	1152.0	0	1153.0	2		
1166.0	0	1170.5	2	1212.0	4	1213.0	2	1213.5	4		

Figure 31 Government Center to Park Data

FROM - GOVERNMENT CENTER
TO - PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1218.0	2	1241.5	4	1247.0	2	1247.5	0	1248.5	2
1250.5	0	1254.5	2	1255.0	0	1255.5	2	1259.5	0
1262.0	1	1262.5	0	1263.0	2	1264.0	0	1265.0	2
1265.5	0	1288.5	2	1295.0	0	1304.0	2	1304.5	0
1305.0	0	1306.0	0	1307.0	2	1307.5	0	1309.0	1
1327.0	0	1332.0	2	1340.0	4	1353.5	2	1358.5	4
1360.0	2	1363.5	0	1365.5	2	1366.0	0	1391.5	2
1402.0	0	1404.5	2	1408.5	0	1410.5	2	1411.0	0
1411.5	1	1415.5	0	1417.5	2	1418.0	1	1431.5	0
1432.5	2	1460.0	0	1465.0	2	1466.0	0	1469.5	2
1471.0	0	1474.0	2	1489.5	4	1500.5	2	1514.5	4
1516.5	2	1517.0	0	1519.5	2	1523.0	0	1530.0	2
1532.5	0	1535.0	2	1535.5	0	1537.5	2	1539.0	0
1539.5	2	1544.0	0	1546.0	2	1547.0	0	1549.5	2
1550.5	0	1551.0	2	1551.5	0	1552.0	2	1553.5	0
1554.5	2	1555.0	0	1555.5	2	1556.0	0	1562.5	2
1565.5	0	1566.0	2	1573.0	0	1580.0	2	1595.5	0
1596.0	2	1599.0	4	1610.5	2	1611.0	0	1623.0	2
1625.5	4	1626.0	2	1627.5	4	1631.0	2	1640.0	4
1641.0	2	1642.0	1	1651.0	0	1651.5	1	1653.0	0
1652.5	1	1656.0	0	1666.0	2	1676.5	4	1699.5	2
1700.0	0	1700.5	1	1707.5	2	1708.0	2	1709.0	2
1711.0	4	1713.5	2	1714.5	4	1715.5	2	1716.0	4
1722.0	4	1722.5	4	1723.0	2	1723.5	4	1724.5	2
1727.5	4	1728.0	4	1744.0	4	1744.5	2	1746.0	4
1746.5	2	1760.0	4	1780.0	2	1780.5	0	1781.0	4
1782.5	6	1783.5	4	1785.0	2	1785.5	4	1786.0	1
1789.0	0	1789.5	4	1790.0	2	1791.0	0	1793.5	1
1805.5	0	1809.5	2	1843.0	0	1847.5	2	1848.5	0

Figure 31 Government Center to Park Data (cont'd)

FROM - GOVERNMENT CENTER
TO - PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1851.0	1	2108.5	0	2126.0	2	2145.0	0	2153.0	2
2191.5	0	2193.0	1	2307.5	0	2308.0	1	2309.5	0
2315.0	1	2317.5	0	2333.0	2	2349.0	0	2354.0	2
2366.0	0	2369.0	1	2371.0	0	2372.0	2	2375.0	4
2378.0	2	2379.0	0	2380.0	4	2380.5	6	2381.0	4
2593.0	0	2383.5	1	2384.5	0	2387.0	2	2388.5	4
2591.5	2	2382.0	1	2392.5	6	2393.5	4	2394.5	2
2396.5	1	2397.0	0	2398.0	1	2399.0	0		

Figure 31 Government Center to Park Data (cont'd)

FROM - GOVERNMENT CENTER
TO - PARK
GAGE

FROM - GOVERNMENT CENTER TO - PARK GAGE		FROM - GOVERNMENT CENTER TO - PARK GAGE		FROM - GOVERNMENT CENTER TO - PARK GAGE		FROM - GOVERNMENT CENTER TO - PARK GAGE		
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
4.0	1	56.285	47.0	4	57.511	48.0	4	57.250
50.0	4	57.250	59.0	4	57.367	92.0	4	57.425
112.5	4	57.439	114.0	4	57.262	133.5	4	57.485
143.5	4	57.252	145.5	4	57.258	158.5	4	57.462
151.5	1	56.194	152.5	1	56.216	163.5	4	57.515
168.5	6	57.921	176.0	1	56.188	178.0	1	56.191
179.5	1	56.055	182.5	1	56.114	186.0	1	56.221
190.5	1	56.240	196.5	4	57.265	201.5	1	56.112
286.5	4	57.339	328.5	4	57.546	358.0	4	57.337
359.5	4	57.269	361.0	4	57.267	392.0	4	57.276
393.5	4	57.272	397.5	4	57.261	485.0	4	57.471
420.0	4	57.486	431.5	4	57.625	485.0	4	57.318
459.0	4	57.232	460.5	4	57.276	485.0	4	57.449
489.5	4	57.306	507.5	4	57.364	526.5	4	57.326
558.5	4	57.315	571.0	4	57.291	593.5	4	57.390
598.5	4	57.256	605.0	4	57.289	625.5	4	57.354
960.0	4	57.610	972.0	4	57.379	1212.0	4	57.443
1213.5	4	57.253	1241.5	4	57.613	1262.0	1	56.124
1389.0	1	56.136	1340.0	4	57.327	1358.5	4	57.282
1411.5	1	56.237	1418.0	1	56.228	1489.5	4	57.499
1514.5	4	57.719	1599.0	4	57.561	1635.5	4	57.379
1627.5	4	57.597	1640.0	4	56.7	1642.0	1	56.195
1651.5	1	56.127	1652.5	1	56.112	1676.5	4	57.539
1700.5	1	56.134	1708.0	4	57.256	1711.0	4	57.300
1714.5	4	57.284	1716.0	4	57.263	1732.5	4	57.356
1723.5	4	57.255	1727.5	4	57.305	1744.0	4	57.431
1746.0	4	57.258	1776.0	4	57.669	1782.5	5	57.842
1785.5	4	57.417	1786.0	1	56.342	1799.5	4	57.370
1798.5	1	56.173	1851.0	1	56.159	2193.0	1	56.076

Figure 31 Government Center to Park Data (cont'd)

FROM - GOVERNMENT CENTER
TO - PARK
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
2308.0	1	56.240	2315.0	1	56.138	2389.0	1	56.127
2375.0	4	57.514	2380.5	6	57.759	2383.5	1	56.304
2388.5	4	57.366	2392.5	6	57.894	2396.5	1	56.132
2398.0	1	56.134						

Figure 31 Government Center to Park Data (cont'd)

FROM - GOVERNMENT CENTER
TO - PARK
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.15	4	3.5
4	57.75	21.48	21.48	72	515.5
2	57.25	57.00	29.83	131	716.0
0	57.00	56.25	46.85	93	1124.5
1	56.25	56.00	1.69	29	40.5
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.85
0+1+2	3	56.00	57.25	78.37
0+1	4	56.00	57.00	48.54
6+3	BELOW STDRD	56.00	57.75	0.15

Figure 31 Government Center to Park Data (cont'd)

FROM - PARK
TO - BOYLSTON
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
6.0	0	9.5	4	20.5	2	21.5	0	33.0	2		
36.0	4	36.5	2	37.5	4	41.5	2	50.5	4		
51.0	2	51.0	0	52.0	1	61.0	0	63.0	1		
66.0	0	76.0	2	87.0	4	103.5	2	104.0	0		
104.5	1	111.5	2	112.5	4	113.0	2	115.0	4		
117.5	2	118.0	4	119.0	2	120.0	4	127.0	2		
127.5	4	128.5	2	148.0	4	148.5	2	176.5	4		
181.0	2	181.5	1	182.0	4	183.5	6	184.0	4		
186.0	0	186.5	2	187.0	4	187.5	1	190.0	0		
190.5	2	197.0	0	199.5	1	206.5	0	210.5	2		
244.0	0	248.0	2	249.5	1	251.5	1	478.5	0		
479.0	1	509.5	0	526.5	2	546.5	0	553.0	2		
592.5	0	594.0	1	708.5	0	716.0	1	718.5	0		
722.0	2	722.5	0	733.5	2	750.0	0	755.0	2		
766.5	0	770.0	1	772.5	0	772.5	2	776.0	4		
779.0	2	779.5	0	782.0	4	784.5	1	785.0	0		
787.5	2	789.5	4	792.0	2	793.0	0	793.5	6		
794.5	4	795.0	2	795.5	0	797.0	1	797.5	0		
798.0	3	798.5	1	799.0	0	799.5	1	800.0	0		
802.0	1	802.5	4	803.0	6	803.5	2	805.5	4		
806.0	2	806.5	4	807.0	6	808.0	2	810.0	0		
811.5	6	812.0	4	812.5	6	813.0	4	813.5	6		
816.0	4	816.5	2	817.5	4	819.5	2	823.0	0		
824.5	2	827.0	0	827.5	4	828.0	4	828.5	4		
843.5	0	845.0	2	848.5	4	850.0	6	853.0	4		
863.5	6	871.0	4	873.0	2	942.5	0	948.0	2		
958.0	0	962.5	2	1045.0	0	1061.5	2	1070.5	0		
1075.0	2	1076.5	0	1085.5	2	1088.0	4	1099.0	2		
1115.0	0	1122.5	2	1153.0	0	1154.0	2	1278.0	0		

Figure 32 Park to Boylston Data

FROM - PARK
TO - BOYLSTON
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1278.5	1	1464.5	0	1465.5	2	1471.0	0	1474.0	2
1492.5	4	1493.0	2	1502.5	4	1508.5	2	1509.5	4
1511.0	2	1511.5	4	1513.0	2	1513.5	4	1514.0	2
1518.0	4	1530.0	2	1531.5	0	1546.5	2	1553.0	0
1564.0	2	1564.5	0	1569.0	2	1575.5	0	1576.0	1
1576.5	2	1577.0	6	1578.0	2	1579.5	0	1580.0	1
1591.0	0	1581.5	2	1583.5	0	1590.0	1	1595.0	0
1597.5	2	1702.0	0	1704.5	2	1721.0	4	1724.0	2
1733.5	0	1740.0	2	1740.5	0	1754.5	2	1762.5	0
1800.0	2	1800.5	1	1801.5	0	1820.0	2	1838.0	4
1864.5	2	1871.5	4	1929.5	2	1935.5	4	1945.5	2

Figure 32 Park to Boylston Data (cont'd)

FROM - PARK
TO - BOYLSTON
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
9.5	4	57.625	36.0	4	57.358	37.5	4	57.481			
50.5	4	57.371	52.0	1	56.135	63.0	1	56.049			
87.0	4	57.561	104.5	1	56.071	112.5	4	57.279			
115.0	4	57.489	118.0	4	57.263	120.0	4	57.271			
127.5	4	57.256	148.0	4	57.420	176.5	4	57.673			
181.5	1	56.222	183.5	6	57.915	187.0	4	57.267			
187.5	1	56.213	199.5	1	56.109	251.5	1	56.082			
479.0	1	56.073	594.0	1	56.056	716.0	1	56.101			
770.0	1	56.084	776.0	4	57.531	782.0	4	57.746			
784.5	1	56.162	789.5	4	57.325	793.5	6	57.948			
797.0	1	56.091	798.0	3	55.994	799.5	1	56.184			
802.0	1	56.074	803.0	6	57.992	805.5	4	57.642			
806.5	4	57.231	811.5	6	58.145	812.5	6	57.793			
813.5	6	57.839	817.5	4	57.376	828.5	4	57.279			
850.0	6	57.739	863.5	6	57.819	1088.0	4	57.282			
1278.5	1	56.248	1492.5	4	57.569	1502.5	4	57.384			
1509.5	4	57.230	1511.5	4	57.287	1513.5	4	57.273			
1518.0	4	57.421	1576.0	1	56.044	1577.0	6	57.501			
1800.0	1	56.193	1590.0	1	56.077	1721.0	4	57.593			
1800.5	1	56.230	1838.0	4	57.506	1871.5	4	57.331			
1935.5	4	57.276									

Figure 32 Park to Boylston Data (cont'd)

FROM - PARK
TO - BOYLSTON
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.38	9	7.5
4	57.75	57.25	10.32	41	206.5
2	57.25	57.00	21.80	70	436.0
0	57.00	56.25	65.62	58	1312.5
1	56.25	56.00	1.85	21	37.0
3	56.00	-99.00	0.03	1	0.5

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.60
0+1+2	3	56.00	57.25	89.27
0+1	4	56.00	57.00	67.47
6+3	BELOW STNDRD	56.00	57.75	0.40

Figure 32 Park to Boylston Data (cont'd)

FROM - BOYLSTON
TO - ARLINGTON
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
5.5	1	9.0	0	11.0	2	13.5	0	22.5	2
39.5	0	44.5	2	56.5	0	59.5	1	61.5	0
62.5	2	65.5	4	68.5	2	69.5	0	71.5	4
72.5	0	74.5	1	75.0	0	77.5	2	79.0	4
82.0	2	82.5	0	83.0	6	84.0	4	84.5	2
85.0	0	88.5	1	89.5	1	91.5	1	92.0	0
92.5	6	93.5	4	94.0	2	96.0	4	96.5	0
97.0	2	99.5	0	101.0	6	101.5	4	102.0	6
102.5	4	103.0	6	105.5	4	106.5	2	107.0	4
109.0	2	112.5	0	113.5	2	114.0	0	114.5	2
116.5	0	117.0	2	117.5	0	118.0	4	118.5	2
133.5	0	135.0	2	138.0	4	139.5	6	152.5	4
153.0	6	160.5	4	162.5	2	232.0	0	236.0	2
236.5	0	237.0	2	248.0	0	252.0	2	335.0	0
351.0	2	360.5	0	364.5	2	366.0	2	375.0	2
377.5	4	388.5	2	485.0	0	412.0	2	567.5	0
568.0	1	754.0	0	755.0	2	760.5	2	761.0	2
761.5	0	764.0	2	783.0	4	782.5	2	786.0	4
786.5	2	791.5	4	797.0	2	798.0	4	800.0	2
800.5	4	802.0	2	803.0	4	803.5	2	807.5	4
811.0	2	811.5	4	819.5	2	821.0	0	836.0	2
852.5	0	853.5	2	854.0	0	858.5	2	865.0	0
865.5	1	866.0	6	866.5	4	867.5	2	868.0	1
868.5	2	869.0	1	870.0	0	871.0	2	871.5	1
872.5	0	879.0	1	884.5	0	887.0	2	991.5	0
994.0	2	1010.0	4	1013.0	2	1023.0	0	1043.5	2
1051.5	0	1089.5	2	1090.5	0	1109.5	2	1127.5	4
1153.5	2	1161.0	4	1218.5	2	1225.0	4	1234.5	2
1357.0	0	1361.0	1	1659.5	0	1670.0	2	1682.0	0

Figure 33 Boylston to Arlington Data

FRONT - BOYLSTON
TO - ARLINGTON
GAVE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1884.5	2	1685.5	0	1690.5	2	1692.5	4
1897.0	4	1705.0	2	1705.5	0	1712.0	2
1731.0	2	1736.5	0	1737.0	1	1741.5	2
1762.0	0	1769.0	2	1769.5	0	1774.5	2
1785.0	0	1795.5	0	1796.0	2	1801.5	2
1803.0	0	1804.0	2	1804.5	0	1806.5	0
1813.5	2	1832.0	0	1836.5	2	1841.0	1
1844.0	0	1846.5	1	1854.0	0	1857.0	0
1860.5	2	1862.0	0	1863.5	1	1868.5	0
1869.0	4	1869.5	6	1870.0	4	1871.5	4
1872.0	2	1872.5	0	1875.5	1	1879.0	2
1880.0	1	1881.0	2	1881.5	0	1884.5	0
1885.5	0	1888.5	2	1889.0	0	1892.5	0
1893.5	2	1895.5	0	1896.5	1	1923.0	2
1923.5	2	1924.0	0	1930.5	2	1931.0	0
1932.5	0	1933.0	2	1965.0	0	1970.5	2
1981.5	2	1982.0	0	1989.0	1	1976.5	0
2100.5	0	2103.0	1	2219.0	0	2094.5	0
2341.0	2	2691.5	0	2693.5	2	2219.5	2
3004.0	4	3009.5	2	3043.5	0	2997.0	0
3127.5	2	3177.0	2	3178.0	2	3122.5	0
3220.0	0	3233.5	2	3255.5	0	3210.0	0
3276.0	2	3284.0	2	3294.0	2	3257.5	0
3315.0	0	3320.0	2	3330.0	0	3281.0	2
3371.0	0	3459.5	0	3467.5	2	3257.5	0
3539.0	0	3542.0	2	3543.5	1	3302.5	0
3554.5	2					3338.5	0
						3513.0	0
						3545.0	1

Figure 33 Boylston to Arlington Data (cont'd)

FROM - BOYLSTON
TO - ARLINGTON
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
5.5	1	56.077	59.5	1	56.073	65.5	4	57.507
71.5	4	57.749	74.5	1	56.138	79.0	4	57.335
83.0	6	57.924	88.5	1	56.035	91.5	1	56.064
92.5	6	57.972	96.0	4	57.604	101.0	6	58.068
102.0	6	57.819	103.0	6	57.837	107.0	4	57.380
118.0	4	57.256	139.5	6	57.782	153.0	6	57.785
377.5	4	57.276	568.0	1	56.202	782.0	4	57.563
786.0	4	57.342	791.5	4	57.360	798.0	4	57.267
800.5	4	57.220	803.0	4	57.277	807.5	4	57.414
811.5	4	57.252	866.0	6	57.525	868.0	1	56.129
869.0	1	56.171	871.5	1	56.184	879.0	1	56.075
1010.0	4	57.597	1127.5	4	57.504	1161.0	4	57.334
1225.0	4	57.275	1361.0	1	56.027	1592.5	4	57.262
1597.0	4	57.256	1737.0	1	56.247	1841.0	1	56.246
1846.5	1	56.136	1863.5	1	56.167	1869.5	6	57.399
1871.5	4	57.307	1875.5	1	56.077	1885.5	1	56.229
1896.5	1	56.127	1989.0	1	56.077	2103.0	1	56.149
3004.0	4	57.279	3543.5	4	57.311	3545.5	4	57.253

Figure 33 Boylston to Arlington Data (cont'd)

FROM - BOYLSTON
TO - ARLINGTON
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.18	9	6.5
4	57.75	57.25	3.67	36	132.0
2	57.25	57.00	16.32	110	587.5
0	57.00	56.25	78.49	100	2825.5
1	56.25	56.00	1.35	21	48.5
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.82
0+1+2	3	56.00	57.25	96.15
0+1	4	56.00	57.00	79.83
6+3	BELOW STNDRD	56.00	57.75	0.18

Figure 33 Boylston to Arlington Data (cont'd)

FROM - ARLINGTON
TO - COPLEY
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
83.0	0	84.5	2	387.5	0	392.0	2	394.0	4
400.0	2	434.0	0	440.0	2	513.0	0	518.0	2
-591.0	0	600.0	2	610.5	0	624.0	2	646.0	0
647.0	2	648.0	0	665.0	2	674.5	0	684.0	2
693.0	0	700.5	2	705.5	0	710.0	2	720.0	0
728.5	2	752.0	0	761.5	2	850.0	0	858.0	2
894.0	0	903.0	2	929.0	0	932.0	2	954.0	4
935.5	2	956.0	4	944.5	2	1002.0	0	1005.5	2
1007.5	0	1010.0	2	1011.0	0	1011.5	2	1053.5	2
1062.5	2	2208.5	0	2225.0	2	2335.0	4	2338.5	2
2240.5	0	2246.5	2						

Figure 34 Arlington to Copley Data

FROM - ARLINGTON
 TO - COPLEY
 GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
394.0	4	57.278	934.0	4	57.317	936.0	4	57.262
2235.0	4	57.417						

Figure 34 Arlington to Copley Data (cont'd)

FROM - ARLINGTON
TO - COPLEY
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	59.00	57.75	0.00	0	0.0
4	57.75	57.25	0.60	4	14.5
2	57.25	57.00	7.31	26	175.5
0	57.00	56.25	92.08	22	2210.0
1	56.25	56.00	0.00	0	0.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.40
0+1	4	56.00	57.00	92.08
6+3	BELOW STNDRD	56.00	57.75	0.00

Figure 34 Arlington to Copley Data (cont'd)

FROM - COPLEY
TO - AUDITORIUM
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
964.0	0	981.0	2	990.5	4	994.5	2	996.5	0
1002.5	2	1253.0	0	1261.5	2	1295.0	0	1295.5	1
1363.0	0	1366.0	2	1553.0	0	1556.0	2	1587.0	0
1587.5	2	1588.0	4	1589.5	2	1590.0	4	1598.0	2
1612.5	0	1623.5	2	1625.0	4	1627.0	2	1911.0	0
1814.0	1	2162.0	0	2162.5	1	2416.5	0	2424.0	2
2515.0	0	2516.5	1	2674.5	0	2675.0	1	2989.0	0
2998.0	2	3016.5	0	3017.5	2	3044.0	0	3051.5	2
3052.0	0	3052.5	2	3053.0	0	3053.5	2	3097.5	0
3107.0	2	3117.5	0	3131.5	2	3140.5	4	3144.5	2
3162.0	0	3196.5	2	3197.0	4	3197.5	2	3204.0	4
3204.5	2	3205.0	4	3214.0	2	3214.5	4	3227.5	2
3231.0	4	3236.5	2	3241.0	0	3267.5	2	3284.5	4
3305.0	2	3358.0	4	3361.0	2	3369.5	4	3373.0	2
3383.0	4	3388.0	2	3871.5	0	3881.0	2	3881.5	0
3687.5	1	3689.0	0	3693.5	2	3698.5	0	3692.5	1
3993.0	0	3997.0	2	3998.0	0	3998.5	1	3918.5	0
3911.5	1	3912.0	0	3913.5	2	3916.0	1	3923.5	1
3924.0	0	3927.0	2	3928.5	0	3929.0	1	3934.5	0
3944.5	1	3950.0	0	3952.0	1	4169.5	0	4173.5	1
4517.0	0	4517.5	1						

Figure 35 Copley to Auditorium Data

FROM - COPLEY
TO - AUDITORIUM
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
990.5	4	57.412	1295.5	1	56.209	1588.0	4	57.300
1590.0	4	57.312	1625.0	4	57.284	1914.0	1	56.044
2162.5	1	56.203	2516.5	1	56.217	2675.0	1	56.193
3140.5	4	57.340	3197.0	4	57.273	3204.0	4	57.319
3205.0	4	57.257	3214.5	4	57.254	3231.0	4	57.281
3284.5	4	57.360	3358.0	4	57.467	3369.5	4	57.373
3383.0	4	57.356	3887.5	1	56.116	3902.5	1	56.167
3908.5	1	56.201	3911.5	1	56.243	3923.5	1	56.140
3929.0	1	56.209	3944.5	1	56.131	3952.0	1	56.033
4173.5	1	56.064	4517.5	1	56.143			

Figure 35 Copley to Auditorium Data (cont'd)

FROM - COPLEY
TO - AUDITORIUM
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	2.52	14	116.0
2	57.25	57.00	5.00	36	267.0
0	57.00	56.25	90.76	37	4175.0
1	56.25	56.00	0.91	15	42.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	97.48
0+1	4	56.00	57.00	91.67
6+3	BELOW STANDARD	56.00	57.75	0.00

Figure 35 Copley to Auditorium Data (cont'd)



FROM - AUDITORIUM
TO - KENMORE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
12.0	2	14.0	4	21.0	2	26.0	0	53.0	2		
69.0	4	84.0	2	84.5	0	90.0	2	142.5	4		
151.5	2	153.0	4	153.5	2	154.0	4	158.0	2		
167.5	4	172.5	2	656.5	0	665.5	2	666.5	0		
672.5	1	673.0	2	674.0	0	674.5	2	675.0	0		
678.0	2	679.0	0	679.5	1	683.0	0	687.5	1		
688.0	0	691.0	2	693.0	0	693.5	1	694.5	0		
696.5	1	697.0	2	697.5	2	700.5	0	708.5	1		
709.0	0	712.0	2	713.5	0	714.0	1	715.5	0		
716.0	1	719.0	0	729.5	1	734.5	0	737.0	1		
954.5	0	958.0	1	1302.0	0	1302.5	1	1429.5	0		
1440.0	2	1452.0	4	1460.0	2	1479.0	0	1491.5	2		
1492.5	4	1495.5	2	1506.0	4	1510.5	2	1512.0	0		
1514.0	2	1521.5	0	1522.5	2	1523.0	0	1564.0	2		
1572.5	0	1577.0	2	1580.0	4	1596.0	2	1606.0	4		
1620.5	2	1622.0	4	1629.5	2	1637.0	4	1645.0	2		
1654.0	0	1677.5	2	1686.0	4	1690.0	2	1695.0	0		
1702.0	2	1712.5	4	1719.0	2	1719.5	4	1720.0	2		
1721.5	4	1735.5	2	1738.0	4	1747.0	2	1748.0	0		
1770.5	2	1926.0	0	1980.0	1	1980.5	2	2001.0	0		
2010.5	1	2028.0	0	2058.5	1	2086.0	0	2097.0	1		
2098.0	0	2098.5	2	2104.5	0	2116.5	1	2117.5	0		
2125.0	2	2136.0	0	2131.5	1	2153.0	0	2155.5	1		
2178.5	0	2180.5	1	2205.0	0	2208.5	1	2210.5	0		
2214.0	1	2218.5	0	2225.5	1	2231.0	0	2247.5	1		
2249.5	0	2252.0	1	2257.5	0	2260.0	1	2277.0	0		
2279.5	1	2283.5	0	2291.5	1	2309.5	0	2311.0	1		
2342.0	0	2343.0	1	2344.0	2	2344.5	4	2345.5	6		
2346.0	4	2346.5	6	2355.0	4	2356.0	2	2356.5	4		

Figure 36 Auditorium to Kenmore Data

FROM - AUDITORIUM
TO - KENMORE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2361.0	2	2366.5	0	2375.0	2	2376.0	4	2378.0	2
2382.0	4	2382.5	2	2383.0	0	2383.5	2	2386.5	0
2391.0	2	2443.0	0	2445.0	2	2446.0	1	2446.5	4
2447.0	0	2447.5	1	2448.5	0	2462.5	1	2463.0	2
2463.5	0	2466.5	1	2467.5	4	2468.5	0	2469.0	2
2473.5	0	2479.0	1	2480.0	0	2482.5	1	2483.0	0
2486.0	2	2491.0	0	2495.5	1	2514.0	0	2517.5	2
2521.5	4	2525.0	2	2525.5	0	2526.0	1	2526.5	0
2527.5	4	2528.0	2	2528.5	1	2529.5	2	2534.5	0
2536.5	2	2545.0	4	2546.5	2	2553.5	0	2555.5	2
2557.5	0	2558.0	4	2559.0	6	2559.5	1	2560.0	0
2561.0	2	2562.5	0	2563.5	2	2564.0	0	2565.0	2
2568.0	0	2568.5	1	2569.0	0	2570.0	4	2571.0	0
2571.5	4	2572.5	0	2573.0	2	2573.5	4	2574.5	6
2575.0	4	2576.0	6	2577.0	2	2577.5	4	2578.0	2
2579.0	0	2579.5	4	2580.0	2	2580.5	0	2581.0	2
2596.5	0	2598.0	2	2600.5	0	2601.5	1	2606.0	0
2896.5	1	2897.0	0	2898.5	4	2899.0	0	2899.5	1
2900.5	0	2904.5	1	2907.0	0	2909.5	1	2921.0	0
2928.5	1	2933.5	0	2935.5	1	2938.0	0	2943.5	1
2989.0	0	2992.0	2	3072.0	0	3072.5	2		

Figure 36 Auditorium to Kenmore Data (cont'd)

FROM - AUDITORIUM
TO - KENMORE
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
14.0	4	57.285	69.0	4	57.346	142.5	4	57.474			
153.0	4	57.257	154.0	4	57.250	167.5	4	57.340			
672.5	1	56.107	679.5	1	56.229	687.5	1	56.195			
693.5	1	56.250	696.5	1	56.237	708.5	1	56.130			
714.0	1	56.231	716.0	1	56.245	729.5	1	56.119			
737.0	1	56.021	958.0	1	56.013	1302.5	1	56.119			
1452.0	4	57.383	1492.5	4	57.273	1506.0	4	57.411			
1580.0	4	57.382	1606.0	4	57.358	1622.0	4	57.269			
1637.0	4	57.332	1686.0	4	57.480	1712.5	4	57.370			
1719.5	4	57.295	1721.5	4	57.257	1738.0	4	57.278			
1980.0	1	56.151	2010.5	1	56.085	2058.5	1	56.078			
2097.0	1	56.077	2116.5	1	56.076	2131.5	1	56.074			
2155.5	1	56.130	2180.5	1	56.077	2208.5	1	56.078			
2214.0	1	56.049	2225.5	1	56.078	2247.5	1	56.073			
2252.0	1	56.079	2260.0	1	56.078	2279.5	1	56.051			
2291.5	1	56.081	2311.0	1	56.077	2343.0	1	56.124			
2345.5	6	57.797	2346.5	6	57.773	2356.5	4	57.257			
2376.0	4	57.292	2382.0	4	57.569	2446.0	1	56.206			
2446.5	4	57.379	2447.5	1	56.220	2482.5	1	56.173			
2466.5	1	56.111	2467.5	4	57.540	2479.0	1	56.077			
2482.5	1	56.203	2495.5	1	56.077	2521.5	4	57.200			
2526.0	1	56.176	2537.5	4	57.745	2538.5	1	56.176			
2545.0	4	57.606	2559.0	6	57.961	2568.5	1	56.079			
2570.0	4	57.724	2571.5	4	57.287	2568.5	1	56.079			
2576.0	6	57.786	2577.5	4	57.271	2574.5	6	56.219			
2601.5	1	56.020	2896.5	1	56.136	2579.5	4	57.536			
2899.5	1	56.073	2904.5	1	56.040	2899.5	4	57.632			
2928.5	1	56.068	2935.5	1	56.031	2909.5	1	56.078			
						2943.5	1	56.062			

Figure 36 Auditorium to Kenmore Data (cont'd)

		FROM - AUDITORIUM TO - KENMORE GAGE			
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.14	5	4.5
4	57.75	57.25	5.84	38	187.0
2	57.25	57.00	12.08	70	386.5
0	57.00	56.25	75.03	88	2401.0
1	56.25	56.00	6.91	48	221.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.86
0+1+2	3	56.00	57.25	94.02
0+1	4	56.00	57.00	81.94
6+3	BELOW STNRD	56.00	57.75	0.14

Figure 36 Auditorium to Kenmore Data (cont'd)

FROM - KENMORE
TO - FENWAY
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
18.5	0	21.5	1	179.5	0	182.0	1	214.0	0		
217.0	2	232.5	0	233.0	2	234.0	2	234.5	2		
236.0	0	240.5	2	241.0	0	243.5	2	243.5	0		
557.5	6	560.0	4	560.5	0	561.0	1	561.5	0		
562.5	4	563.5	0	564.0	1	576.5	0	579.0	1		
581.5	0	588.5	1	598.5	0	604.0	1	2064.0	0		
2066.0	2	2066.5	0	2067.0	4	2068.0	6	2068.5	2		
2069.0	4	2070.5	2	2094.5	0	2098.0	1	2110.0	0		
2110.5	2	2111.0	4	2111.5	2	2132.5	0	2133.0	1		
2133.5	4	2134.0	6	2135.5	0	2137.0	1	2138.5	0		
2139.0	1	2140.0	0	2140.5	1	2141.0	0	2152.0	1		
2155.5	0	2156.0	2	2164.5	0	2166.0	1	2167.5	0		
2168.5	4	2169.0	2	2172.0	0	2172.5	4	2173.0	0		
2176.0	0	2178.5	2	2181.0	0	2183.0	1	2259.0	0		
2262.0	1	2272.0	0	2274.5	1	2276.0	0	2276.5	1		
2278.5	0	2279.5	2	2283.0	0	2305.5	1	3306.5	0		
2314.5	1	2317.0	0	2327.5	1	2334.5	0	3365.0	1		
2773.0	0	2774.0	2	2774.5	0	2778.5	2	2782.0	0		
2784.0	2	3003.5	0	3004.0	1	3004.5	0	3005.0	1		
3185.0	0	3186.0	2	3194.5	0	3195.0	2	3199.0	0		
3199.5	2	3349.5	0	3350.0	2	3352.5	0	3353.0	2		
3466.0	0	3467.0	2	3522.5	0	3523.0	2				

Figure 37 Kenmore to Fenway Park Data

FROM - KENMORE
TO - FENWAY
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
21.5	1	56.108	182.0	1	56.181	234.0	4	57.356
557.5	6	57.390	561.0	1	56.221	562.5	4	57.380
564.0	1	56.106	579.0	1	56.093	588.5	1	56.091
604.0	1	56.096	2068.0	6	58.203	2069.0	4	57.345
2098.0	1	56.083	2111.0	4	57.488	2133.0	1	56.106
2134.0	6	57.780	2137.0	1	56.122	2139.0	1	56.187
2140.5	1	56.113	2152.0	1	56.092	2166.0	1	56.174
2168.5	4	57.489	2172.5	4	57.412	2183.0	1	56.120
2262.0	1	56.106	2274.5	1	56.094	2276.5	1	56.096
2305.5	1	56.102	2314.5	1	56.089	2327.5	1	56.101
2366.0	1	56.096	3004.0	1	56.244	3005.0	1	56.191

Figure 37 Kenmore to Fenway Park Data (cont'd)

FROM - KENMORE
TO - FENWAY
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	59.00	57.75	0.05	3	2.0
4	57.75	57.25	0.21	9	8.0
2	57.25	57.00	0.86	25	32.5
0	57.00	56.25	96.20	48	3655.5
1	56.25	56.00	2.68	24	182.0
3	56.00	-59.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.95
0+1+2	3	56.00	57.25	99.14
0+1	4	56.00	57.00	98.88
6+3	BELOW STAND	56.00	57.75	0.05

Figure 37 Kenmore to Fenway Park Data (cont'd)



FROM - FENWAY
TO - LONGWOOD
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3.0	0	3.5	2	4.0	4	4.5	2	5.0	0	5.5	0
26.0	1	26.5	6	27.0	4	28.5	0	29.0	0	30.0	1
31.5	0	32.0	1	33.0	0	45.0	1	46.0	0	48.5	0
49.0	2	57.5	0	59.0	0	60.0	0	61.5	4	61.5	4
64.5	0	65.0	2	68.5	4	68.5	0	71.5	2	71.5	2
74.0	0	76.0	1	152.0	0	155.0	1	165.0	0	165.0	0
167.0	1	169.0	0	169.5	1	171.5	0	172.5	2	172.5	2
173.0	0	173.5	1	175.5	0	178.0	1	178.5	0	178.5	0
198.0	1	199.5	0	207.5	1	210.0	0	220.5	1	220.5	1
247.5	0	259.0	1	666.0	0	667.0	2	667.5	0	667.5	0
671.5	2	675.0	0	677.0	2	896.5	0	897.0	1	897.0	1
897.5	0	898.0	1	1078.0	0	1078.5	2	1087.5	0	1087.5	0
1088.0	2	1242.0	0	1243.0	2	1559.0	0	1560.0	2	1560.0	2
1415.5	0	1416.0	2	1606.0	0	1606.5	2	2459.0	0	2459.0	0
2460.0	1	2847.5	0	2849.0	1	3089.5	0	3090.0	1	3090.0	1
3197.0	0	3200.5	1	3201.0	0	3202.0	1	3203.5	0	3203.5	0
3204.0	1	3207.0	0	3208.0	1	3209.0	0	3207.5	1	3207.5	1
3249.5	0	3250.5	1	3269.0	0	3274.0	2	3286.5	0	3286.5	0
3290.5	2	3370.5	0	3384.0	2	3552.5	0	3555.5	2	3555.5	2
3564.5	0	3565.5	2	3566.5	0	3567.5	0	3750.5	0	3750.5	0
3753.5	2	3754.5	4	3755.0	2	3757.0	0	3761.0	2	3761.0	2
3802.0	0	3804.0	2	3809.5	0	3810.5	2	3811.0	0	3811.0	0
3811.5	2	3812.0	0	3813.5	2	3833.0	0	3833.5	2	3833.5	2
3834.0	0	3838.0	2	3839.0	0	3839.5	2	4131.5	0	4131.5	0
4135.5	1	4324.5	0	4325.5	2						

Figure 38 Fenway Park to Longwood Data

FROM - FENWAY
TO - LONGWOOD
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
4.0	4	57.548	26.5	6	57.794	30.0	1	56.117
32.0	1	56.163	45.0	1	56.094	59.0	1	56.109
61.5	4	57.498	65.5	4	57.384	76.0	1	56.433
155.0	1	56.107	167.0	1	56.102	169.5	1	56.063
173.5	1	56.142	178.0	1	56.122	198.0	1	56.118
207.5	1	56.093	220.5	1	56.032	259.0	1	56.035
897.0	1	56.232	898.0	1	56.198	2460.0	1	56.244
2849.0	1	56.221	3090.0	1	56.243	3200.5	1	56.189
3202.0	1	56.234	3204.0	1	56.247	3208.0	1	56.277
3237.5	1	56.119	3250.5	1	56.244	3754.5	4	57.315
4135.5	1	56.202						

Figure 38 Fenway Park to Longwood Data (cont'd)

FROM - FENWAY
TO - LONGWOOD
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.01	1	0.5
4	57.75	57.25	0.09	5	4.0
2	57.25	57.00	1.41	32	62.0
0	57.00	56.25	96.39	58	4241.0
1	56.25	56.00	2.10	27	92.5
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.99
0+1+2	3	56.00	57.25	99.90
0+1	4	56.00	57.00	98.49
6+3	BELOW STNDPD	56.00	57.75	0.01

Figure 38 Fenway Park to Longwood Data (cont'd)



FROM - LONGWOOD
TO - BROOKLINE VILLAGE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
48.5	0	58.5	1	53.0	0	55.0	1	290.5	0
251.0	1	398.0	0	401.5	1	402.0	0	403.5	1
404.0	0	405.5	1	408.5	0	409.0	1	437.5	0
439.0	1	450.5	0	451.5	1	470.0	0	474.5	2
487.5	0	491.5	2	572.0	0	584.5	2	754.0	0
756.5	2	765.5	0	766.0	2	767.5	0	768.0	2
951.5	0	954.5	2	955.5	4	956.5	2	958.0	0
962.0	2	1003.5	0	1005.5	2	1035.0	0	1039.0	2
1040.5	0	1041.0	2	1332.0	0	1336.0	1	1526.0	0
1526.5	2	1800.0	0	1802.0	2	2453.5	0	2455.0	2
2758.0	0	2806.0	2	2814.0	0	2822.5	2	2855.0	0
2859.0	2	2926.0	0	2929.0	2	2951.0	0	2964.5	2
2965.5	4	2975.0	2	2986.0	0	2998.5	2	3000.0	4
3004.5	2	3018.5	0	3024.0	2	3031.5	4	3037.0	2
3122.0	0	3123.0	2	3206.5	0	3209.5	2	3477.5	0
3482.5	2	3589.0	0	3601.5	2	3618.0	0	3624.0	2
3816.0	0	3816.5	2	4010.5	0	4013.5	2	4015.0	0
4017.0	2	4090.5	0	4094.0	2	4376.0	0	4377.0	2
4791.5	0	4805.0	2	4876.0	0	4890.0	2	4894.5	4
4906.0	2	4918.5	0	4925.0	2	4930.5	4	4936.5	2
4949.0	0	4951.5	2	4962.0	4	4965.0	2	4993.5	0
5001.5	2	5002.0	4	5002.5	2	5003.5	4	5011.5	2
5016.5	0	5019.5	2	5027.0	0	5032.0	2	5039.5	0
5043.5	2	5063.5	0	5075.0	2	5078.5	4	5101.5	0
5150.0	0	5155.0	2	5156.0	4	5158.5	2	5159.5	4
5178.5	2	5179.0	0	5183.5	2	5184.0	0	5187.0	2
5196.0	0								

Figure 39 Longwood to Brookline Village Data

FROM - LONGWOOD
TO - BROOKLINE VILLAGE
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
50.5	1	56.209	55.0	1	56.209	291.0	1	56.247
481.5	1	56.112	403.5	1	56.217	405.5	1	56.236
409.0	1	56.246	439.0	1	56.096	451.5	1	56.217
955.5	4	57.316	1336.0	1	56.301	2965.5	4	57.250
3000.0	4	57.265	3031.5	4	57.457	4894.5	4	57.478
4930.5	4	57.284	4962.0	4	57.504	5002.0	4	57.273
5003.5	4	57.276	5039.5	4	57.358	5078.5	4	57.279
5156.0	4	57.255	5159.5	4	57.254			

Figure 39 Longwood to Brookline Village Data (cont'd)

FROM - LONGWOOD
TO - BROOKLINE VILLAGE
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	1.08	13	56.0
2	57.25	57.00	5.89	55	306.5
0	57.00	56.25	92.68	53	4819.5
1	56.25	56.00	0.35	10	18.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIRE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	98.92
0+1	4	56.00	57.00	93.03
6+3	BELOW STNDPD	56.00	57.75	0.00

Figure 39 Longwood to Brookline Village Data (cont'd)



FROM - BROOKLINE VILLAGE
TO - BROOKLINE HILLS
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
79.5	0	81.5	2	82.0	0	91.5	2	109.0	0
114.5	2	501.0	0	503.5	2	505.5	0	507.5	2
581.0	0	584.5	0	866.5	0	867.0	2	1282.0	2
1283.0	2	1283.5	0	1295.5	2	1366.5	0	1370.5	2
1395.0	4	1396.5	2	1409.0	0	1415.5	0	1420.5	4
1427.0	2	1439.0	0	1442.0	2	1452.0	4	1455.5	2
1483.0	0	1492.0	2	1492.5	4	1493.0	2	1493.5	4
1501.5	2	1506.5	0	1508.0	2	1508.5	0	1509.5	2
1517.5	0	1522.5	2	1530.0	4	1533.5	2	1553.5	0
1565.5	2	1567.0	4	1594.5	2	1640.5	2	1668.5	2
1665.5	0	1674.0	2	1675.5	0	1677.5	2	1686.5	0
1690.5	2	1691.0	4	1702.0	2	1752.0	2	1757.0	2
1796.0	0	1797.0	2	1800.0	0	1810.0	2	1811.0	4
1814.0	2	1814.5	4	1830.0	2	1869.5	0	1874.0	2
1967.0	0	1968.0	1	2208.0	0	2208.5	2	2320.0	0
2322.0	2	2348.0	0	2348.0	2	2349.5	0	2350.5	2
3045.0	0	3048.0	2	3074.5	0	3090.5	2	3091.0	2
3121.5	2	3124.0	0	3125.0	2	3126.0	0	3127.0	0
3128.0	0	3129.0	2	3139.0	0	3145.0	2	3145.5	4
3182.0	2	3239.5	2	3245.0	2	3248.5	4	3253.0	2
3276.0	0	3281.5	2	3295.5	4	3323.0	2	3325.5	4
3331.0	2								

Figure 40 Brookline Village to Brookline Hills Data

FROM - BROOKLINE VILLAGE
TO - BROOKLINE HILLS
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
1385.0	4	57.473	1420.5	4	57.277	1452.0	4	57.491
1492.5	4	57.251	1493.5	4	57.278	1530.0	4	57.355
1567.0	4	57.275	1631.0	4	57.267	1811.0	4	57.261
1814.5	4	57.252	1968.0	1	56.245	3145.5	4	57.259
3248.5	4	57.420	3295.5	4	57.518	3325.5	4	57.310

Figure 40 Brookline Village to Brookline Hills Data (cont'd)

FROM - BROOKLINE VILLAGE
TO - BROOKLINE HILLS
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	1.68	14	64.0
2	57.25	57.00	9.62	52	365.5
0	57.00	56.25	88.67	39	3369.5
1	56.25	56.00	0.03	1	1.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	98.32
0+1	4	56.00	57.00	88.70
6+3	BELOW STANDARD	56.00	57.75	0.00

Figure 40 Brookline Village to Brookline Hills Data (cont'd)



FROM - BROOKLINE HILLS
TO - BEACONSFIELD
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
88.0	0	91.0	2	115.5	0	125.0	2	128.5	4
129.5	2	130.5	4	176.0	2	178.0	0	185.0	2
191.0	4	229.5	2	248.5	0	250.0	2	255.0	0
257.0	2	257.5	0	265.5	2	267.5	0	270.5	2
272.5	0	273.5	2	281.5	0	285.5	2	292.0	4
296.0	2	306.0	2	309.0	2	318.0	0	323.0	2
351.0	4	364.5	2	369.5	4	375.0	2	376.5	0
381.5	2	1523.0	0	1524.0	1	1955.0	2	1956.5	0
2015.0	0	2021.5	2	2022.0	4	2030.5	2	2048.5	2
2049.0	2	2055.5	4	2057.5	2	2067.5	0	2068.0	2
2097.0	0	2101.5	2	2113.0	0	2120.0	2	2120.5	0
2122.5	2	2123.0	0	2124.0	2	2125.0	0	2135.0	2
2156.5	0	2157.0	2	2157.5	0	2168.0	2	2167.5	4
2182.5	2	2219.0	0	2222.0	2	2284.0	0	2288.5	2
2289.5	4	2290.0	2	2305.0	4	2319.5	2	2321.0	0
2322.0	2	2348.0	0	2361.5	2	2365.0	0	2388.0	2
2477.5	0	2494.0	2	2505.5	0	2516.5	2	2700.0	0
2707.0	2	2711.5	4	2718.0	2	2822.0	2	2822.5	2
2823.0	0	2844.5	2	2845.5	4	2855.5	0	2856.0	2
2861.5	2	2984.0	0	2986.0	2	3146.5	0	3155.5	2
4161.0	0	4161.5	2	4197.0	2	4198.0	2	4283.0	2
4296.5	2	4322.5	0	4333.0	2	4369.5	0	4381.5	2
4400.5	2	4416.0	0	4438.5	2	4459.0	2	4467.0	0
4466.5	2	4467.5	0	4471.0	2	4473.0	0	4483.5	2
4516.5	0	4528.5	2	4535.0	4	4533.0	2	4750.0	0
4566.5	2	4584.0	0	4597.0	2	4514.0	0	4619.5	2
4725.0	0	4735.0	2	4739.0	0	4739.5	2	4740.0	0
4741.5	2	4806.0	0	4810.0	2	4870.0	2	4870.0	0
4899.0	0	4902.5	2	5017.5	0	5019.5	2	5019.0	0

Figure 41 Brookline Hills to Beaconsfield Data

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SPON - BROOKLINE HILLS
TO - BEACONSFIELD
GAIN

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
5020.0	2	5033.5	0	5036.0	2	5037.0	4
5133.5	0	5138.0	2	5253.0	0	5260.5	2
5342.5	2	5353.5	0	5378.0	2	5377.0	0

Figure 41 Brookline Hills to Beaconsfield Data (cont'd)

FROM - BROOKLINE HILLS
TO - BEACONSFIELD
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
128.5	4	57.298	138.5	4	57.275	181.0	4	57.233
232.0	4	57.482	351.0	4	57.600	369.5	4	57.594
1524.0	1	56.229	2032.0	4	57.579	2048.5	4	57.715
2855.5	4	57.489	2167.5	4	57.260	2339.5	4	57.205
2305.0	4	57.431	3711.5	4	57.209	3945.5	4	57.284
4525.0	4	57.291	5077.0	4	57.278			

Figure 41 Brookline Hills to Beaconsfield Data (cont'd)

FROM - BROOKLINE HILLS
TO - BEACONSFIELD
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	1.94	16	108.5
2	57.25	57.00	9.95	78	557.0
0	57.00	56.25	88.10	63	4933.5
1	56.25	56.00	0.02	1	1.0
3	56.00	-59.00	0.00	1	0.0

ZONES	IPT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.35	96.06
0+1	4	56.00	57.00	98.12
6+3	BELOW STDPPD	56.00	57.75	0.00

Figure 41 Brookline Hills to Beaconsfield Data (cont'd)

FROM - BEACONSFIELD
TO - RESERVOIR
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
7.5	0	9.5	2	10.0	0	10.5	2	12.0	0
18.0	2	49.5	0	50.5	2	51.5	0	55.5	2
86.0	0	86.5	2	88.0	0	107.0	2	125.0	0
139.0	2	163.0	0	173.5	2	203.0	0	203.0	2
241.0	0	256.0	2	281.5	0	286.0	2	457.5	0
459.0	2	531.5	0	533.5	2	507.5	0	617.5	2
759.0	0	789.0	2	801.0	0	884.5	2	1377.5	0
1374.0	2	1375.5	2	1387.5	2	1397.5	0	1500.0	2
1448.5	0	1449.5	2	1458.5	0	1473.0	2	1530.0	0
1532.0	2	1782.5	0	1783.5	2	2518.5	0	2619.0	2
2389.5	0	2360.0	2	2363.5	0	2364.0	2	3389.0	0
2389.5	2	2410.0	0	2410.5	2	2412.5	0	2417.5	2
2416.5	0	2426.5	2	2756.0	0	2762.5	2	2777.0	0
2777.5	2	2788.5	0	2791.0	2	2792.5	1	2799.0	0
2801.5	0	2803.0	1	2807.5	0	2810.5	2		

Figure 42 Beaconsfield to Reservoir Data

FROM - BEACONSFIELD
 TO - RESERVOIR
 GAGE

FEET	ZONE	MAX. HEIGHT	FEET	ZONE	MAX. HEIGHT	FEET	ZONE	MAX. HEIGHT
2792.5	4	57.289	3803.0		56.183			

Figure 42 Beaconsfield to Reservoir Data (cont'd)

FROM - BEACONSFIELD
TO - RESEVOIR
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.75	0.05	1	1.5
2	57.25	57.00	5.25	36	157.5
0	57.00	56.25	94.65	36	2839.5
1	56.25	56.00	0.05	1	1.5
3	56.00	-99.00	0.00	0	0.0

ZONES	IPT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.95
0+1	4	56.00	57.00	94.70
6+3	BELOW STANDP	56.00	57.75	0.00

Figure 42 Beaconsfield to Reservoir Data (cont'd)



FROM - RESERVOIR
TO - CHESTNUT HILL
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
31.5	0	32.0	2	72.5	0	73.0	2	102.0	0		
102.5	0	123.0	0	123.5	2	125.5	0	125.5	2		
130.0	0	130.0	0	469.0	0	475.0	0	490.0	0		
490.5	2	502.0	0	504.5	2	505.5	4	512.0	0		
514.0	0	516.0	1	521.0	0	523.0	2	841.0	0		
849.5	2	921.0	0	928.5	2	938.5	0	939.5	2		
968.0	0	1817.0	2	1513.5	0	1514.0	1	1816.0	0		
1817.0	2	3321.0	0	3321.5	2	3322.0	0	3323.0	2		
3526.0	0	3532.0	0	4349.5	0	4350.5	1	4489.0	0		
4490.0	2	4432.5	0	4493.5	2	4515.0	0	4516.0	2		
4517.5	0	4518.0	2	4518.5	0	4519.5	2	4869.0	0		
4570.5	2	4976.0	4	4980.5	2	4983.0	0	4987.0	2		
5003.5	0	5008.5	2	5018.0	4	5035.0	2	5031.0	0		
5038.5	2	5042.0	4	5045.5	2	5069.5	0	5073.5	2		
5079.5	4	5087.5	2	5096.5	0	5101.5	2	5102.0	0		
5102.5	2	5128.0	0	5128.5	2	5148.5	0	5153.0	2		
5174.5	0	5177.5	2	5195.0	2	5202.5	2	5203.0	4		
5210.0	2	5221.5	0	5225.5	2	5239.5	4	5231.0	2		
5235.0	4	5241.5	2	5257.5	0	5267.0	2	5267.5	0		
5275.5	2	5302.0	0	5313.5	0	5319.5	0	5325.5	2		
5343.5	0	5358.5	2	5359.0	2	5360.5	2	5369.5	0		
5417.0	2	5417.5	0	5421.5	0	5463.0	2	5462.5	0		
5479.0	4	5489.5	2	5512.0	0	5502.5	2	5505.0	4		
5533.0	2	5534.0	4	5545.0	2	5545.5	0	5554.5	2		
5580.5	0	5595.5	2	5609.5	0	5672.0	2	5673.0	0		
5688.0	2	5694.0	4	5703.5	0	5706.0	2	5710.0	2		
5745.0	0	5750.0	2	5755.0	4	5775.0	0	5802.5	0		
5806.0	2	5807.5	4	5809.5	0	5875.0	0	5883.0	2		
5884.5	0	5885.5	2	5886.0	0	5887.5	0	5887.0	0		

Figure 43 Reservoir to Chestnut Hill Data

FROM - RESERVOIR
TO - CHESTNUT HILL
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
5988.5	2	6023.5	0	6036.5	0	6037.5	0	6040.5	2
6046.0	4	6049.0	2	6052.5	0	6058.0	0	6096.5	0
6089.5	2	6093.5	4	6099.5	7	6100.5	0	6102.0	2
6152.0	0	6157.0	2						

Figure 43 Reservoir to Chestnut Hill Data (cont'd)

FROM - RESERVOIR
TO - CHESTNUT HILL
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
505.5	4	57.280	516.0	1	56.177	1514.0	1	55.243
4358.5	1	56.220	4376.0	4	57.467	5010.0	4	57.425
5042.0	4	57.293	5079.5	4	57.307	5285.0	4	57.252
5229.5	4	57.295	5275.0	4	57.256	5387.5	4	57.400
5479.0	4	57.468	5530.5	4	57.330	5571.0	1	57.207
5694.0	4	57.460	5608.0	4	57.268	5607.5	1	57.126
6046.0	4	57.346	6043.5	4	57.303			

Figure 43 Reservoir to Chestnut Hill Data (cont'd)

FROM - RESERVOIR
TO - CHESTNUT HILL
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	59.00	57.75	0.00	0	0.0
4	57.75	57.25	1.48	17	92.0
2	57.25	57.00	6.44	78	399.5
0	57.00	56.25	92.02	64	5705.0
1	56.25	56.00	0.06	3	3.5
3	56.00	-99.00	0.00	0	0.0

ZONES	IPT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	98.52
0+1	4	56.00	57.00	92.07
6+3	BELOW STDARD	56.00	57.75	9.00

Figure 43 Reservoir to Chestnut Hill Data (cont'd)

FROM - CHESTNUT HILL
TO - NEWTON CENTER
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1.5	0	9.0	2	12.0	4	15.5	2	40.0	0		
43.5	2	50.0	4	57.5	2	69.0	0	71.5	2		
119.0	0	125.0	2	145.0	0	147.5	2	165.5	0		
180.0	2	192.0	0	195.5	2	199.5	4	201.5	2		
205.5	4	211.5	2	224.0	0	227.5	2	237.5	4		
245.5	2	272.5	0	288.0	2	289.5	0	292.5	2		
314.0	0	328.0	2	329.5	0	330.0	0	370.0	0		
387.0	2	388.0	0	391.5	2	433.5	0	436.0	2		
449.0	4	460.0	2	487.5	2	492.5	2	500.5	4		
516.5	2	517.0	2	525.0	2	551.0	0	563.5	2		
639.0	0	642.0	2	643.0	0	658.0	2	664.0	4		
674.5	2	677.0	0	680.5	2	719.5	2	720.5	2		
722.5	4	725.5	2	728.0	4	743.5	0	772.5	0		
776.0	2	778.0	4	780.0	2	845.5	2	854.5	2		
855.0	0	855.5	2	871.0	0	872.5	2	948.0	0		
959.0	2	994.0	0	1006.5	2	1007.5	0	1011.0	2		
1016.0	4	1019.0	2	1033.0	0	1038.0	2	1057.0	0		
1060.0	2	1064.0	4	1069.0	2	1091.0	0	1102.0	2		
1122.0	0	1127.0	2	1236.5	0	1244.5	2	1537.0	0		
1537.5	2	1579.5	0	1594.5	2	1601.0	2	1608.0	2		
1610.0	0	1611.0	2	1642.0	0	1640.5	2	1720.5	0		
1722.0	2	1723.0	0	1724.0	2	1833.5	0	1834.5	2		
1836.5	0	1837.0	2	2924.0	0	2935.5	2	3090.0	0		
3093.5	2	3993.5	0	3995.0	1	4218.0	2	4219.0	2		
4517.5	0	4519.0	2	4519.5	0	4530.5	2	4743.5	2		
4744.0	1	6539.5	0	6540.5	2	6542.0	0	6543.5	2		
6544.0	0	6544.5	2	6545.0	0	6545.5	2	6546.5	0		
6579.0	2	6643.5	0	6651.0	2	6673.0	0	6673.0	2		
6675.0	0	6675.5	2	6751.5	0	6752.5	2	6753.0	0		

Figure 44 Chestnut Hill to Newton Center Data

FROM - CHESTNUT HILL
TO - NEWTON CENTER
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
6759.5	2	6788.0	0	6809.0	7	6879.5	0	6886.0	7
7073.5	0	7078.5	2	7077.5	0	7078.5	0	7079.0	0
7081.5	0	7213.0	0	7213.0	7	7438.5	0	7448.5	0
7672.0	0	7675.5	2	7730.0	0	7762.0	0	7763.0	0
7837.5	2	7920.5	0	7931.0	7	7932.0	0	7935.0	0
8218.0	0	8219.5	2	8270.7	0	8331.0	0	8351.0	0
8363.5	2	8675.5	0	8681.5	2	8692.0	0	8695.0	0
8759.5	0	8760.5	2	8787.0	0	8802.0	0	8805.0	0
8895.0	0	8910.5	0	8916.0	2	8981.5	0	8991.0	0

Figure 44 Chestnut Hill to Newton Center Data (cont'd)

FROM - CHESTNUT HILL
TO - NEWTON CENTER
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
12.0	4	57.287	50.0	4	57.303	193.5	4	57.281
205.5	4	57.289	237.5	4	57.474	449.0	4	57.459
500.5	4	57.386	664.0	4	57.484	702.5	4	57.256
728.0	4	57.279	778.0	4	57.335	1015.0	4	57.345
1064.0	4	57.396	3995.0	1	56.064	4744.0	1	56.245

Figure 44 Chestnut Hill to Newton Center Data (cont'd)

FROM - CHESTNUT HILL
TO - NEWTON CENTER
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.80	13	72.0
2	57.25	57.00	5.01	92	451.0
0	57.00	56.25	94.17	81	8475.0
1	56.25	56.00	0.02	2	2.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	MIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.99
0+1	4	56.00	57.00	94.19
6+3	BELOW STANDARD	56.00	57.75	0.00

Figure 44 Chestnut Hill to Newton Center Data (cont'd)

FROM - NEWTON CENTER
TO - NEWTON HIGHLANDS
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
47.0	0	49.0	2	485.5	0	487.0	2	800.0	0
805.5	2	806.5	0	807.0	2	807.5	0	808.0	2
884.0	0	890.5	0	1007.0	0	1007.5	2	1015.5	0
1019.0	2	1039.0	0	1049.5	2	1208.0	0	1213.0	2
1435.5	0	1438.5	2	1439.0	0	1440.0	2	1464.0	0
1468.5	2	1471.0	4	1475.0	2	1602.0	0	1603.0	2
1668.5	0	1669.5	2	1671.0	0	1672.0	2	1672.5	0
1673.5	2	1698.0	0	1700.5	2	1701.5	0	1702.5	2
1842.0	0	1842.5	2	1918.5	0	1917.0	2	1923.0	0
1926.5	2	2193.5	0	2193.5	2	2211.0	0	2311.0	0
2344.5	0	2393.5	2	2377.0	0	2378.5	0	2426.0	0
2380.5	2	2410.0	0	2411.5	2	2475.0	0	2478.0	2
2444.0	0	2445.0	2	2447.0	0	2449.0	2	2500.0	0
2551.0	2	2570.5	0	2577.0	2	2575.5	0	2592.0	2
2604.5	0	2613.5	2	2643.5	0	2643.5	2	2693.0	0
2623.5	2	2626.5	0	2638.5	2	2601.5	0	2900.5	0
2903.5	0	2908.5	2	2937.5	0	2936.0	2	2938.0	0
2940.5	2	2992.5	0	2997.5	1	2997.0	0	4337.5	0

Figure 45 Newton Center to Newton Highlands Data

SPOT - NEWTON CENTER
 TO - NEWTON HIGHLANDS
 DATE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	FEET	ZONE	MAX MAGNITUDE
1471.0	4	57.304	2577.5	4	3997.5	1	56.201

Figure 45 Newton Center to Newton Highlands Data (cont'd)

FROM - NEWTON CENTER
TO - NEWTON HIGHLANDS
PAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.06	2	3.0
2	57.25	57.00	2.19	44	118.5
0	57.00	56.25	97.66	43	5273.5
1	56.25	56.00	0.09	1	5.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.99
0+1	4	56.00	57.00	97.75
6+3	BELOW STANDR	56.00	57.75	0.00

Figure 45 Newton Center to Newton Highlands Data (cont'd)



FROM - NEWTON HIGHLANDS
TO - ELIOT
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
651.5	0	652.0	1	1328.0	0	1331.0	1	1922.5	0
1923.5	1	2293.0	0	2312.0	2	2430.0	0	2435.5	2
2436.5	0	2439.0	2	2461.5	0	2465.0	2	2544.5	0
2548.5	2	2557.0	0	2579.0	2	2594.0	0	2614.0	2
2623.5	0	2635.0	2	2657.5	0	2679.0	2	2691.5	0
2698.0	2	2719.5	0	2742.0	2	2763.5	0	2785.0	2
2798.0	0	2761.0	2	2783.5	0	2805.0	2	2826.5	0
2812.5	2	2831.0	0	2853.5	2	2875.0	0	2896.5	2
2887.5	0	2901.0	2	2923.5	0	2945.0	2	2966.5	0
2941.5	2	2990.0	0	3012.5	2	3034.0	0	3055.5	2
3026.5	4	3031.5	0	3054.0	2	3075.5	0	3097.0	2
3296.0	2	3352.0	0	3408.5	2	3465.0	0	3521.5	2
3585.0	2	3589.5	2	3612.0	0	3633.5	2	3655.0	0
3950.0	2	3950.5	1	3973.0	2	3994.5	0	4016.0	2
4055.0	0	4065.0	2	4087.5	0	4109.0	2	4130.5	0

Figure 46 Newton Highlands to Eliot Data

FROM - NEWTON HIGHLANDS
TO - ELIOT
GAGE

FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE
552.0	1	55.242	1331.0	1	56.000	1923.5	1	56.700
2729.0	4	57.288	3026.5	4	57.000	3950.5	4	57.759
3955.0	4	57.300						

Figure 46 Newton Highlands to Eliot Data (cont'd)

FROM - NEWTON HIGHLANDS
TO - ELIOT
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	59.00	57.75	0.00	0	0.0
4	57.75	57.25	0.17	4	10.0
2	57.25	57.00	4.05	33	235.0
0	57.00	56.25	95.70	32	5550.5
1	56.25	56.00	0.08	3	4.5
3	56.00	-59.00	0.00	0	0.00

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.83
0+1	4	56.00	57.00	95.78
6+3	BELOW STNDRD	56.00	57.75	0.00

Figure 46 Newton Highlands to Eliot Data (cont'd)



FROM - ELIOT
TO - WABAH
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1439.5	0	1440.5	1	1502.5	0	1503.0	1	3797.5	0
3798.0	1	4346.0	0	4349.0	2	4350.0	1	4354.0	2
4607.5	0	4609.0	2	4610.0	0	4610.5	2	4622.0	0
4623.0	2	4633.5	0	4633.0	2	4636.5	0	4648.5	2
4983.0	0	4984.0	2	5035.0	0	5037.5	1		

Figure 47 Eliot to Waban Data

FROM - ELIOT
TO - WABAH
GAUGE

FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE
1440.5	1	56.246	1583.0	1	56.247	3790.0	1	56.247
4350.0	4	57.279	5027.5	1	56.246			

Figure 47 Eliot to Waban Data (cont'd)

FROM - ELIOT
TO - WABAN
BASE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	59.00	57.75	0.00	0	0.0
4	57.75	57.25	0.02	1	1.0
2	57.25	57.00	0.49	8	26.5
0	57.00	56.25	99.43	11	5369.0
1	56.25	56.00	0.06	4	3.5
3	56.00	-59.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.99
0+1	4	56.00	57.00	99.49
6+3	BELOW STANDARD	56.00	57.75	0.00

Figure 47 Eliot to Waban Data (cont'd)



FROM - WABAN
TO - WOODLAND
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2.0	0	5.0	2	5.5	1	9.5	2	353.5	0
264.5	2	289.5	0	294.0	2	294.5	0	305.0	2
638.5	0	640.0	2	673.5	0	685.0	1	693.0	0
695.5	1	1145.0	0	1145.0	1	1613.5	0	1816.0	2
2153.0	0	2154.0	1	2207.0	0	2241.0	1	2302.5	0
3234.0	1	3236.0	0	3250.0	1	3267.0	0	3283.5	1
4204.5	0	4205.0	1	4407.0	0	4450.5	2	4467.5	0
4463.0	4	5183.0	0	5183.5	1	5227.0	0	5228.0	2

Figure 48 Waban to Woodland Data

FROM - WABAN
TO - WOODLAND
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
5.5	4	57.275	695.0	1	56.206	695.5	1	56.240
1146.0	1	56.248	2154.0	1	56.246	2394.0	1	56.198
3234.0	1	56.249	3237.0	1	56.241	3265.5	1	56.244
4205.0	1	56.240	4433.0	4	57.275	5133.5	1	56.230

Figure 48 Waban to Woodland Data (cont'd)

FROM - WABAN
TO - WOODLAND
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.02	2	1.0
2	57.25	57.00	0.56	9	31.5
0	57.00	56.25	99.01	19	5544.5
1	56.25	56.00	0.41	10	23.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.99
0+1	4	56.00	57.00	99.42
6+3	BELOW STRIPED	56.00	57.75	0.00

Figure 48 Waban to Woodland Data (cont'd)



FROM - WOODLAND
TO - RIVERSIDE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
94.0	0	97.5	2	103.5	0	104.5	3	239.5	0
300.5	1	301.0	0	301.5	1	730.0	0	730.5	1
732.0	0	732.5	1	733.5	0	734.5	1	824.0	0
827.0	1	829.0	0	830.5	2	963.0	0	963.5	1
1380.0	0	1380.5	1	1500.5	0	1505.0	1	2021.5	0
2022.0	2	3200.0	0	3200.5	1	3253.5	0	3357.0	1
3356.5	0	3358.5	1	3651.0	0	3653.5	3	3654.5	1
3655.0	5	3655.5	2	3658.0	1	3659.5	3	3659.5	0
3657.5	2	3658.0	1	3659.5	4	3659.5	5	4100.0	4

Figure 49 Woodland to Riverside Data

FROM - WOODLAND
TO - RIVERSIDE
GAGE

FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE
300.5	1	56.243	301.5	1	56.248	730.5	1	56.246
732.5	1	56.249	734.5	1	56.249	827.0	1	56.248
963.5	1	56.244	1380.5	1	56.245	1605.0	1	56.249
3200.5	1	56.246	3303.0	1	56.249	3359.5	1	56.249
3653.5	3	55.986	3653.0	5	56.205	3656.5	6	59.872
3658.5	6	57.368						

Figure 49 Woodland to Riverside Data (cont'd)

		FROM - WOODLAND TO - RIVERSIDE GAGE					
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.		
6	99.00	57.75	6.12	3	269.5		
4	57.75	57.25	10.75	2	473.0		
2	57.25	57.00	0.19	7	8.5		
.0	57.00	56.25	82.59	18	3634.0		
1	56.25	56.00	0.28	14	12.5		
3	56.00	-99.00	0.06	1	2.5		

		FROM - WOODLAND TO - RIVERSIDE GAGE					
ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL			
0+1+2+4	1+2	56.00	57.75	93.82			
0+1+2	3	56.00	57.25	83.07			
0+1	4	56.00	57.00	92.87			
6+3	BELOW STNDPPD	56.00	57.75	6.18			

Figure 49 Woodland to Riverside Data (cont'd)

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