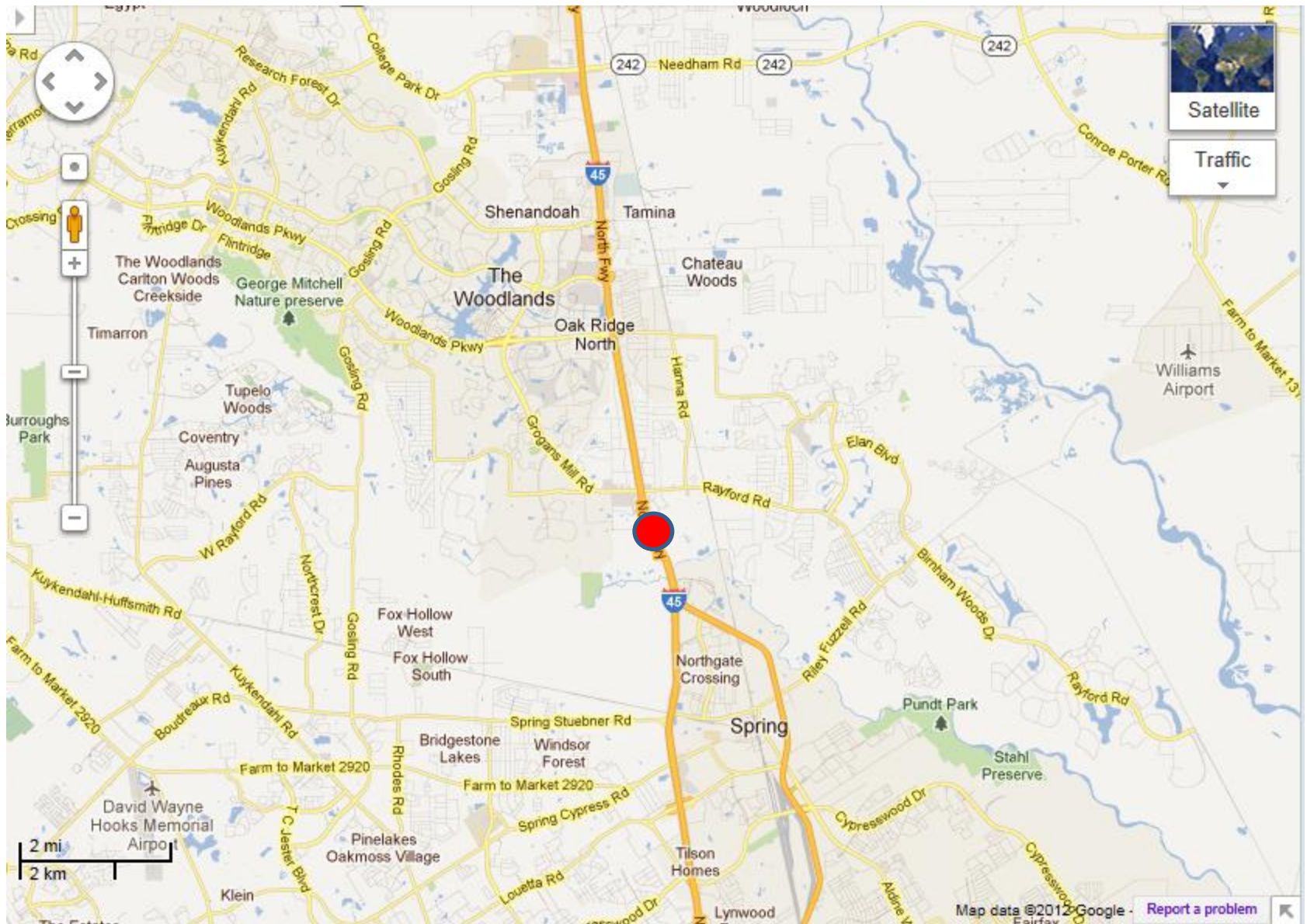
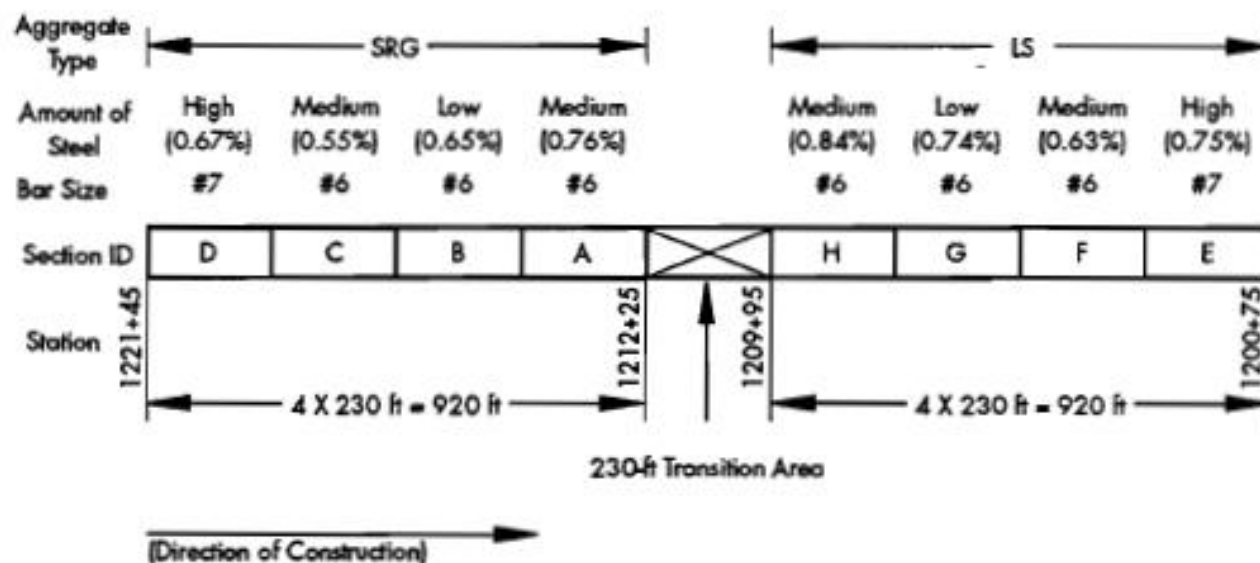
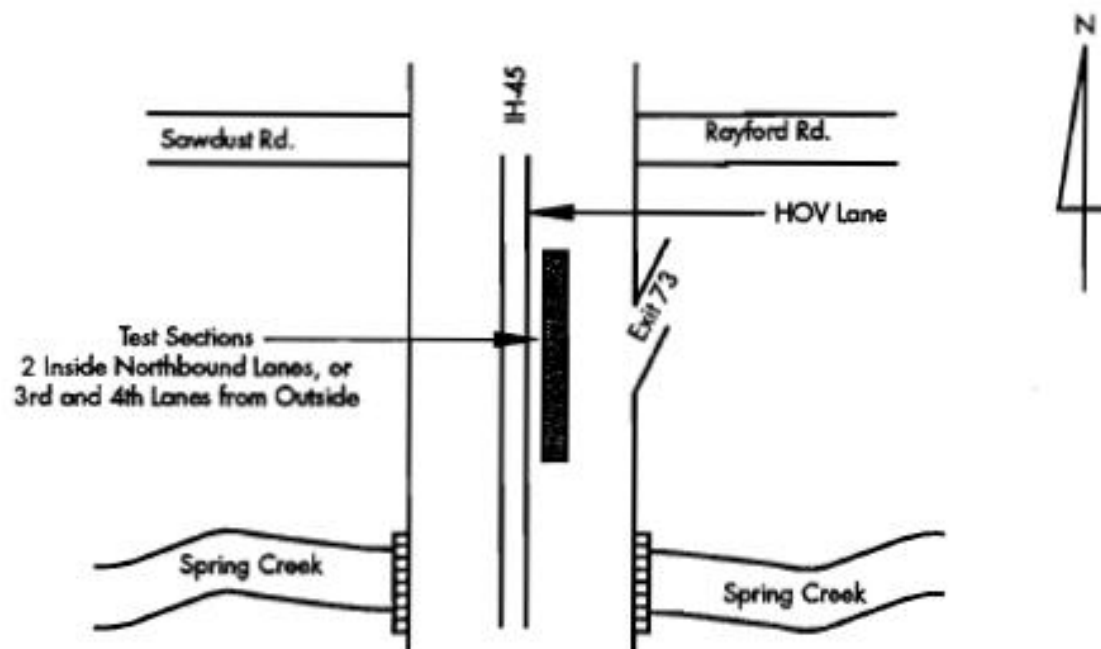


CRCP in IH 45 in Houston District

- Completed in Jan 1990
- 15-in CRCP Slab
- 1-in bond breaker (asphalt-stabilized base)
- 6-in cement-treated base and 6-in lime-treated soil
- Coarse aggregate type ; Both gravel and limestone





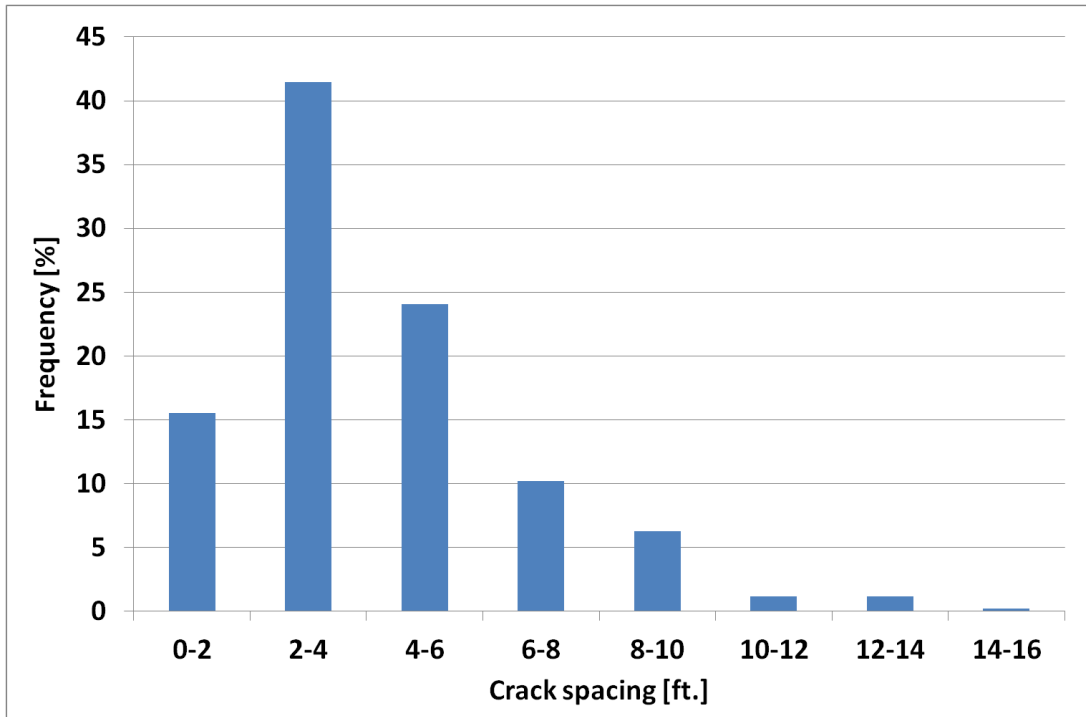
Pavement Condition Evaluations

(Crack Spacing: Nov 2010, Spalling: Feb 2012)

- Crack spacing evaluations
- Average crack spacing & Spalling (repair) ratio

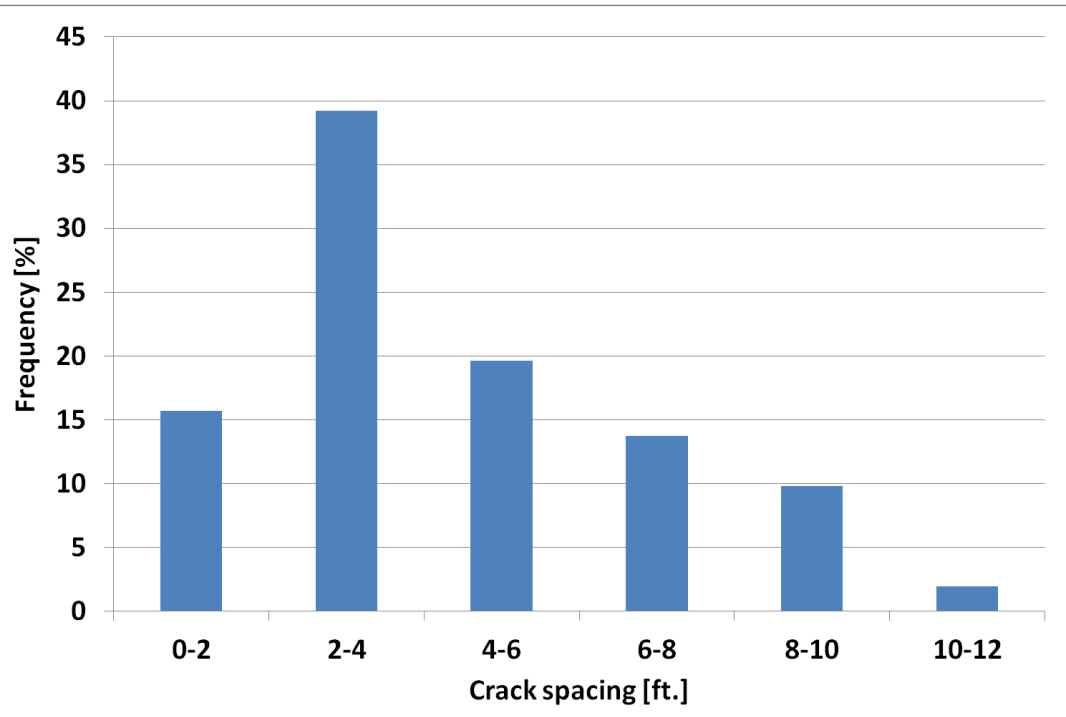
Crack Spacing Distribution

Transverse Crack Spacing Overall Sections



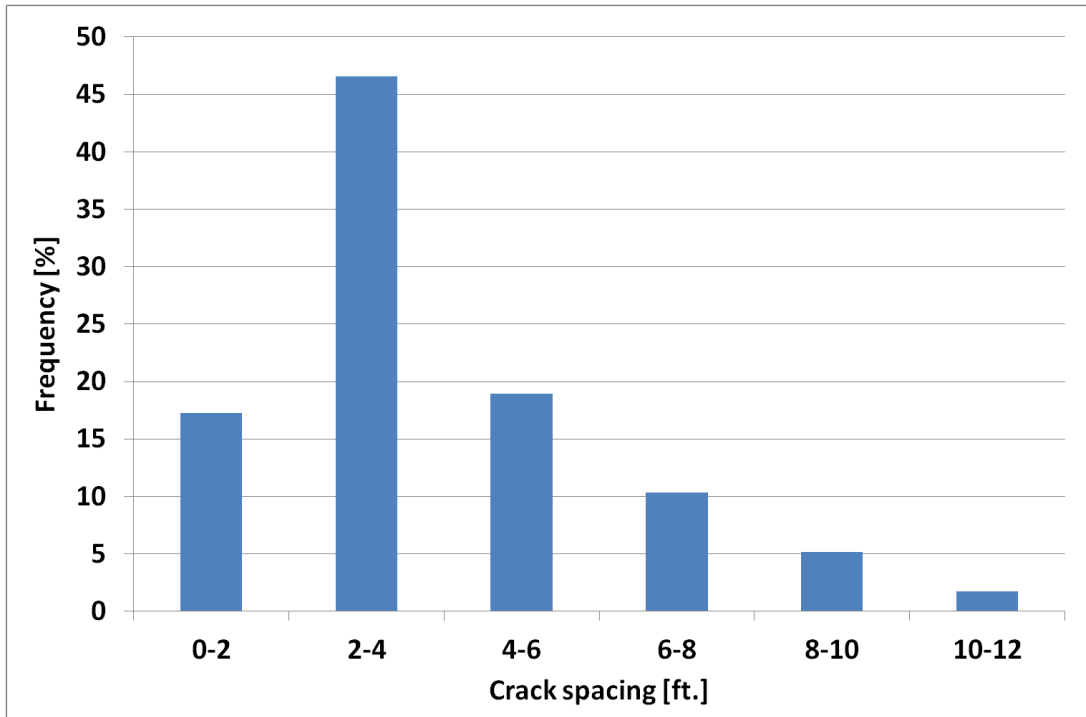
Transverse Crack Spacing [ft]	Number	Frequency (%)
0-2	67	15.5
2-4	179	41.4
4-6	104	24.1
6-8	44	10.2
8-10	27	6.3
10-12	5	1.2
12-14	5	1.2
14-16	1	0.2
Total	432	100.0

Transverse Crack Spacing Section A



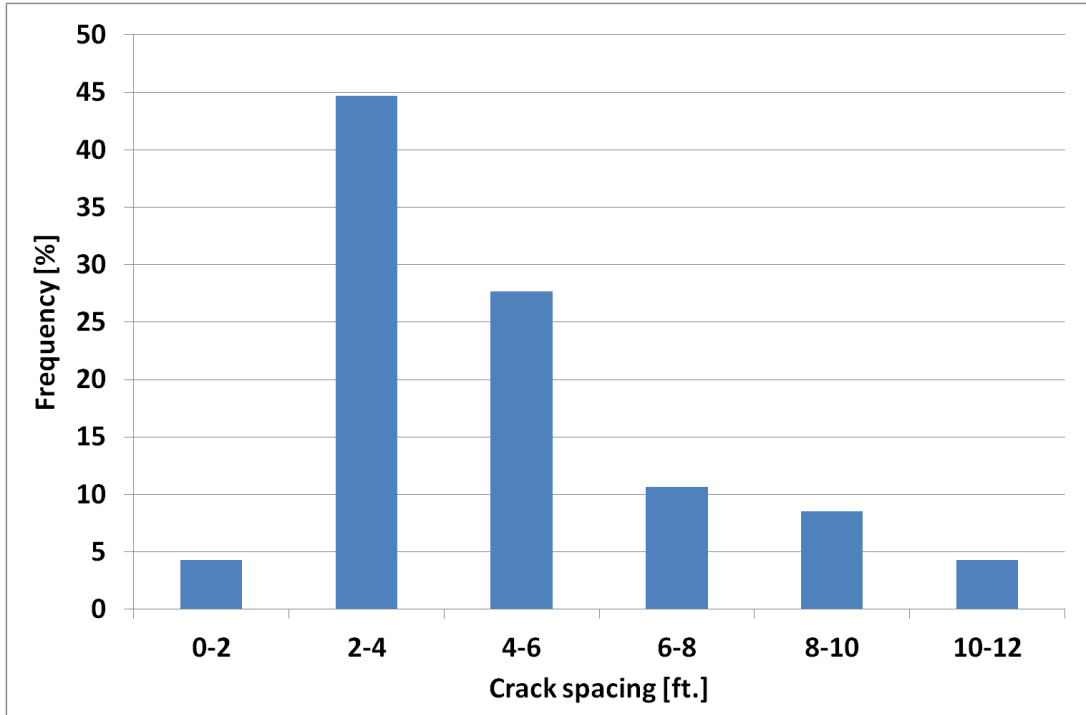
Transverse Crack Spacing [ft]	Number	Frequency (%)
0-2	8	15.7
2-4	20	39.2
4-6	10	19.6
6-8	7	13.7
8-10	5	9.8
10-12	1	2.0
Total	51	100.0

Transverse Crack Spacing Section B



Transverse Crack Spacing [ft]	Number	Frequency (%)
0-2	10	17.2
2-4	27	46.6
4-6	11	19.0
6-8	6	10.3
8-10	3	5.2
10-12	1	1.7
Total	58	100.0

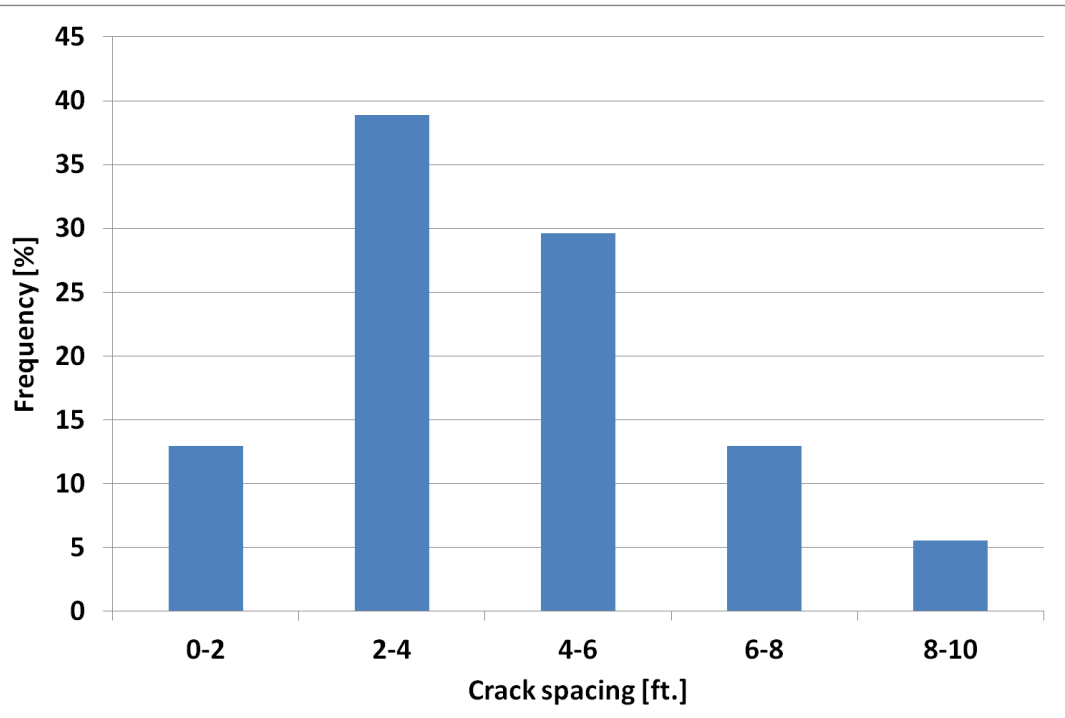
Transverse Crack Spacing Section C



Transverse Crack Spacing [ft]	Number	Frequency (%)
0-2	2	4.3
2-4	21	44.7
4-6	13	27.7
6-8	5	10.6
8-10	4	8.5
10-12	2	4.3
Total	47	100.0

Transverse Crack Spacing

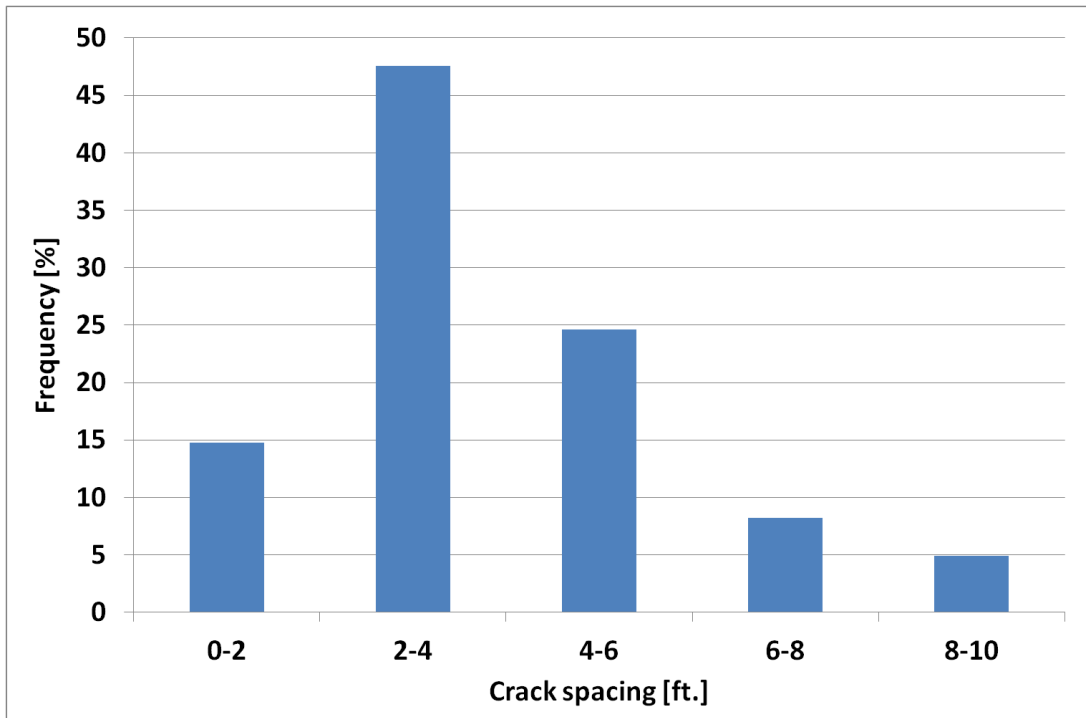
Section D



Transverse Crack Spacing [ft]	Number	Frequency (%)
0-2	7	13.0
2-4	21	38.9
4-6	16	29.6
6-8	7	13.0
8-10	3	5.6
Total	54	100.0

Transverse Crack Spacing

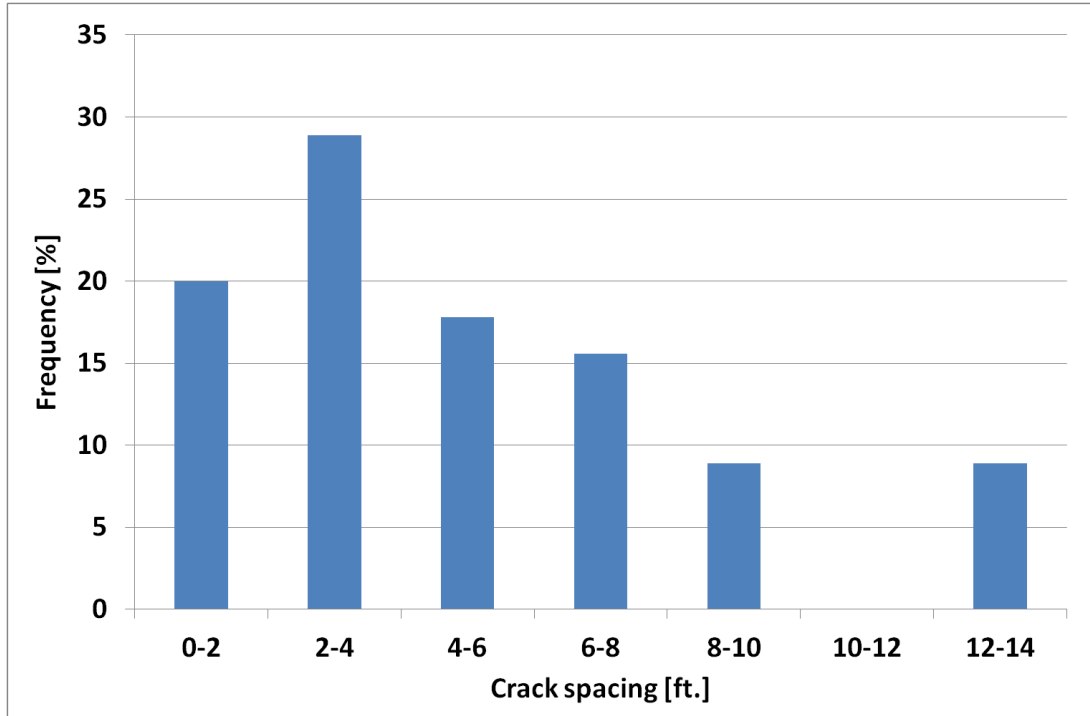
Section E



Transverse Crack Spacing [ft]	Number	Frequency (%)
0-2	9	14.8
2-4	29	47.5
4-6	15	24.6
6-8	5	8.2
8-10	3	4.9
Total	61	100

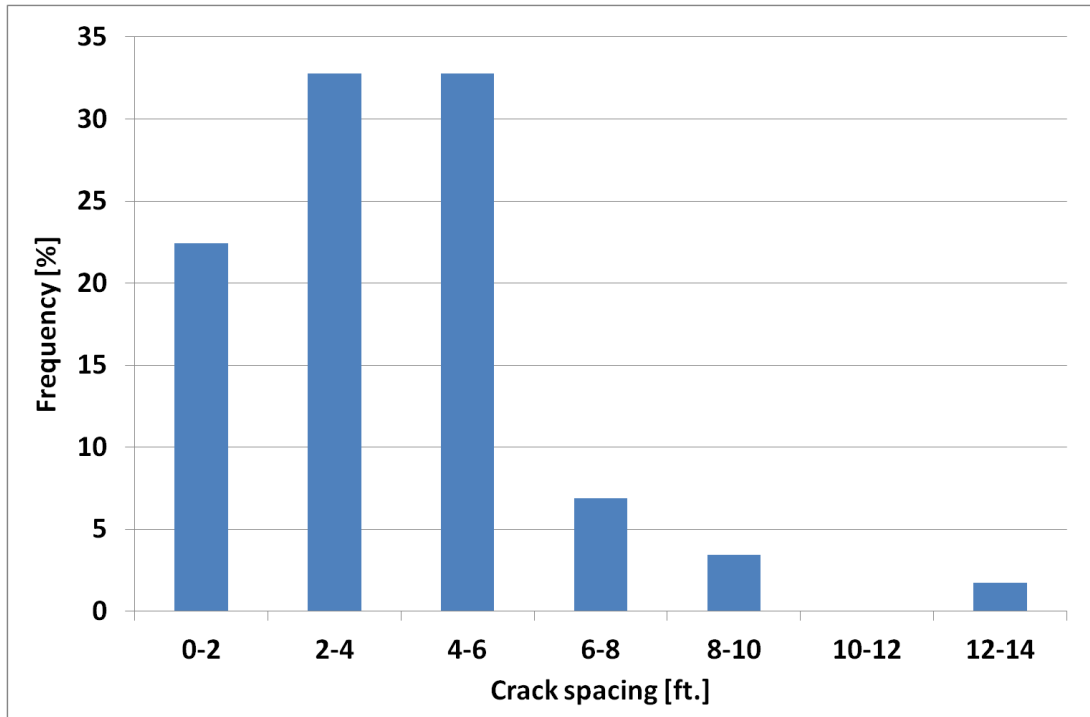
Transverse Crack Spacing

Section F



Transverse Crack Spacing [ft]	Number	Frequency (%)
0-2	9	20.0
2-4	13	28.9
4-6	8	17.8
6-8	7	15.6
8-10	4	8.9
10-12	0	0.0
12-14	4	8.9
Total	45	100.0

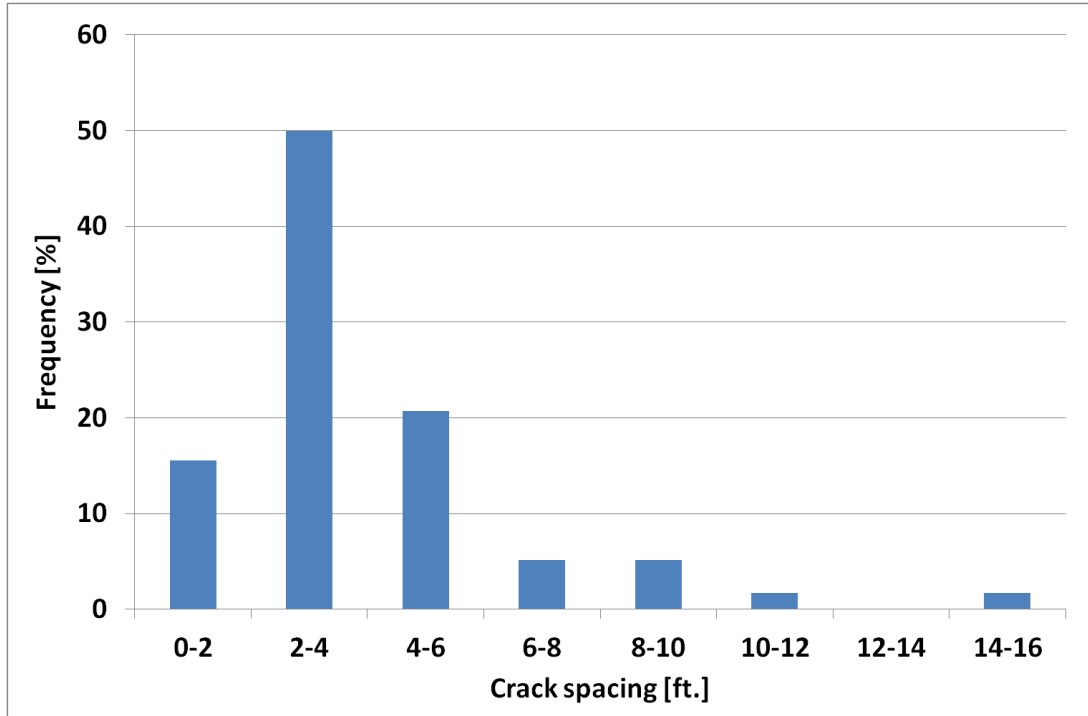
Transverse Crack Spacing Section G



Transverse Crack Spacing [ft]	Number	Frequency (%)
0-2	13	22.4
2-4	19	32.8
4-6	19	32.8
6-8	4	6.9
8-10	2	3.4
10-12	0	0.0
12-14	1	1.7
Total	58	100.0

Transverse Crack Spacing

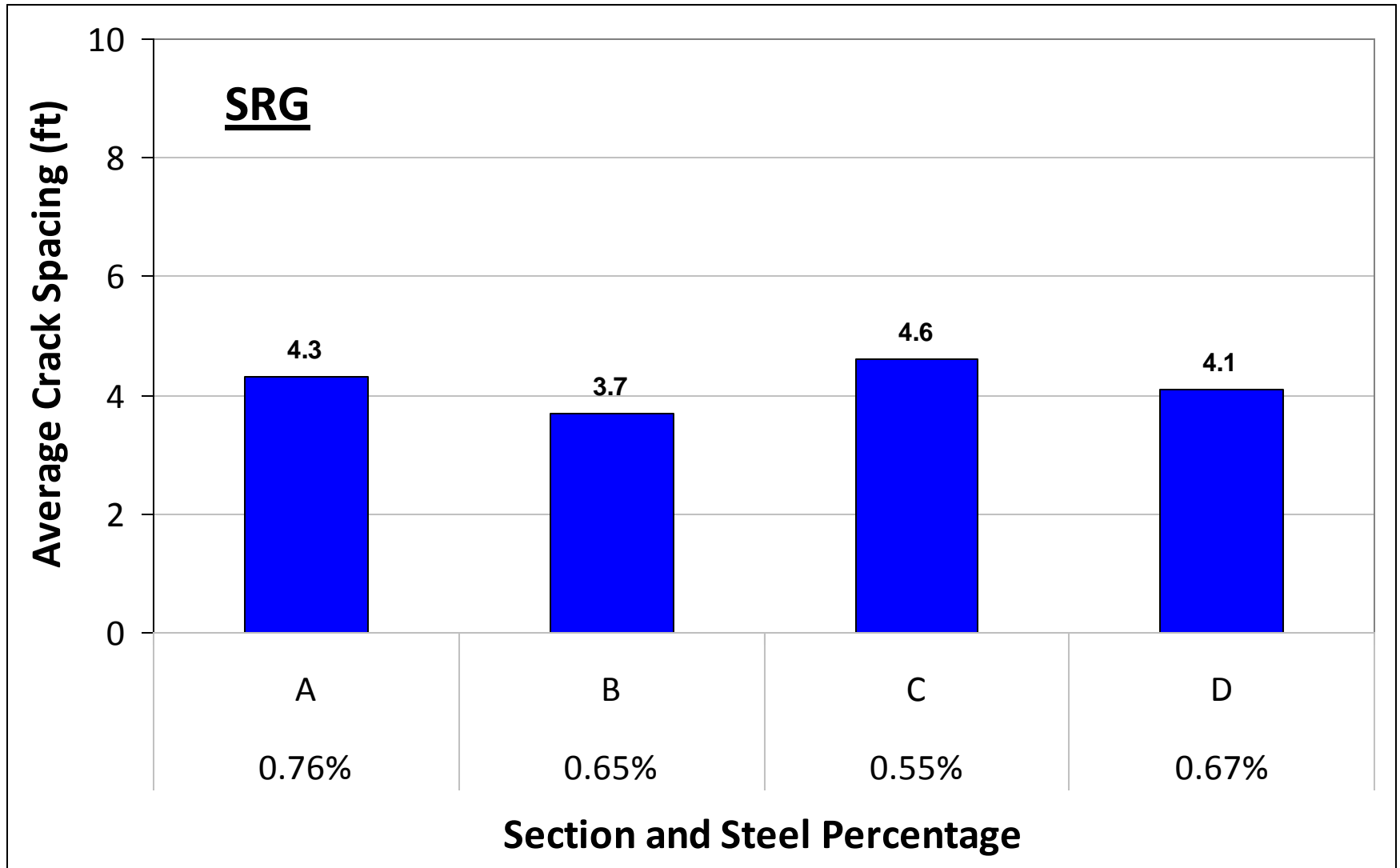
Section H



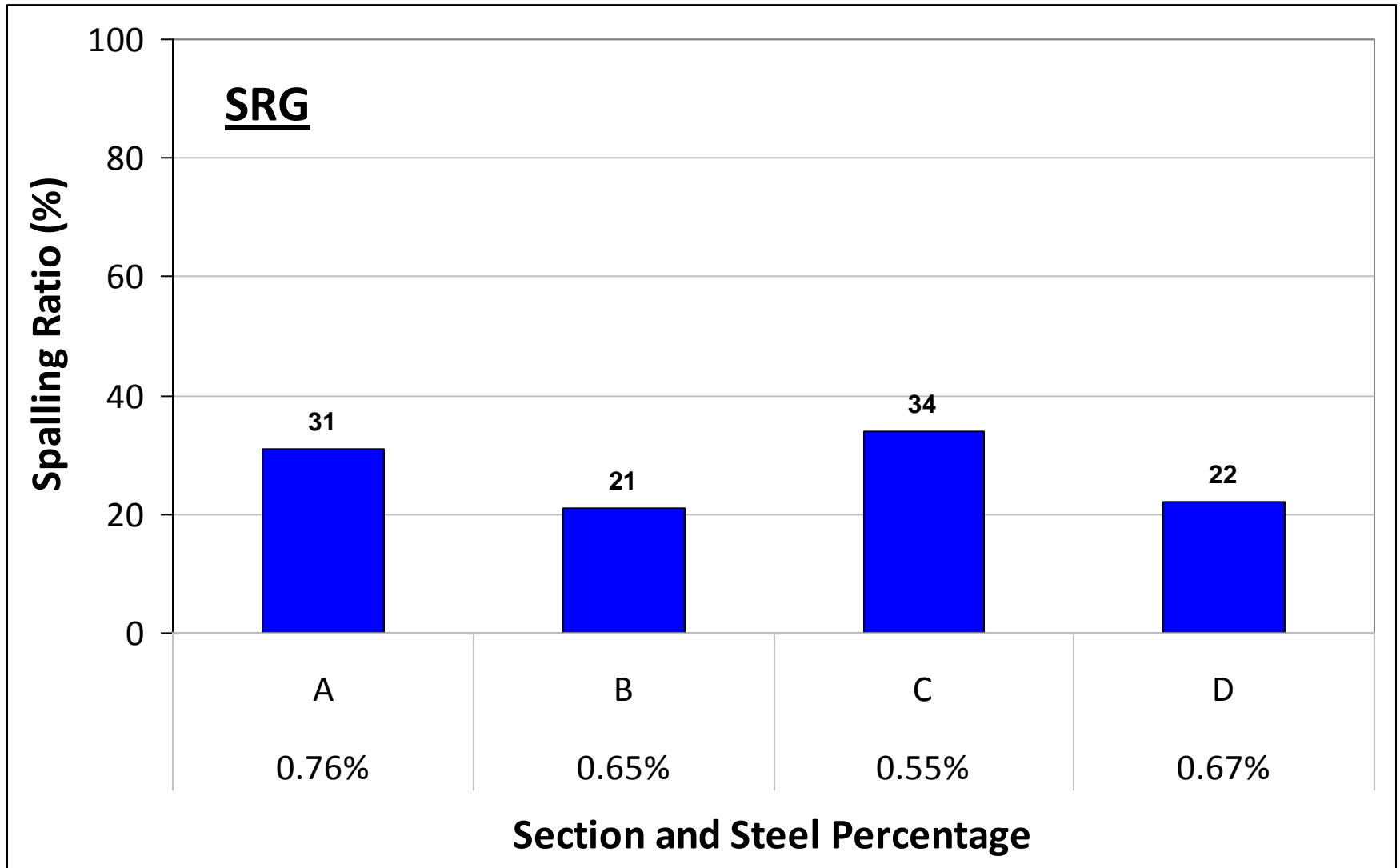
Transverse Crack Spacing [ft]	Number	Frequency (%)
0-2	9	15.5
2-4	29	50.0
4-6	12	20.7
6-8	3	5.2
8-10	3	5.2
10-12	1	1.7
12-14	0	0.0
14-16	1	1.7
Total	58	100.0

Average Crack Spacing & Spalling (Repair) Ratio

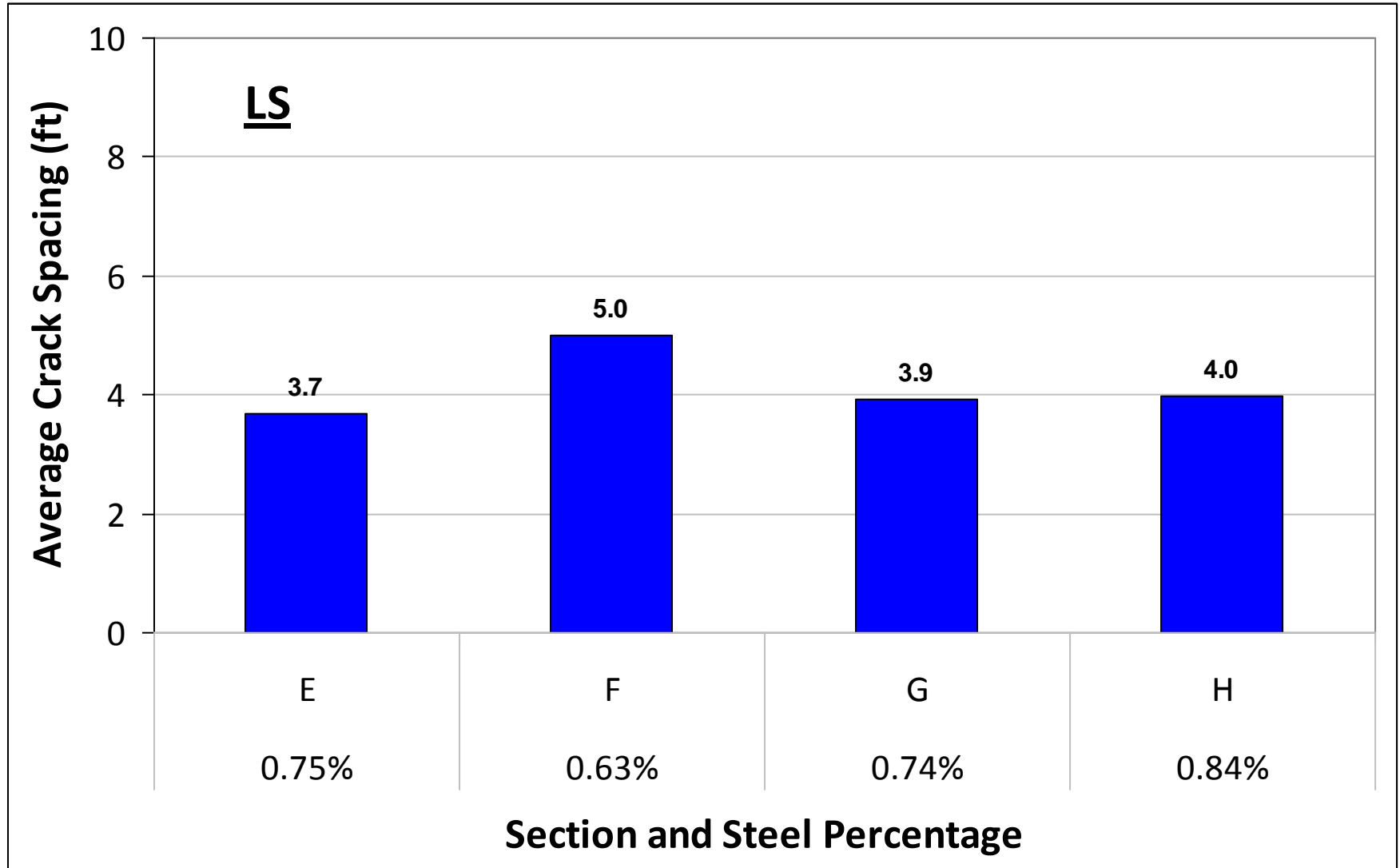
Average Crack Spacing for SRG Sections (A, B, C, and D)



Spalling (Repair) Ratio for SRG Sections (A, B, C, and D)



Average Crack Spacing for LS Sections (E, F, G, and H)



Spalling (Repair) Ratio for LS Sections (E, F, G, and H)

