

2010 Ozone Monitoring Update


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Overview

- Monitors / Maps
- 8 Hour Exceedences
- Design Values
- Old Standard
- Old One Hour

Eight-Hour Ozone Nonattainment Areas


Protecting Texas by Reducing and Preventing Pollution
TCEQ
 Texas Commission on Environmental Quality
 P.O. Box 13087 (Mail Code 197)
 Austin, Texas 78711-3087
 March 3, 2009
 0 40 80 120 Miles
 Texas Statewide Mapping Projection (TSMAP)
 Scale: 1:6,023,570

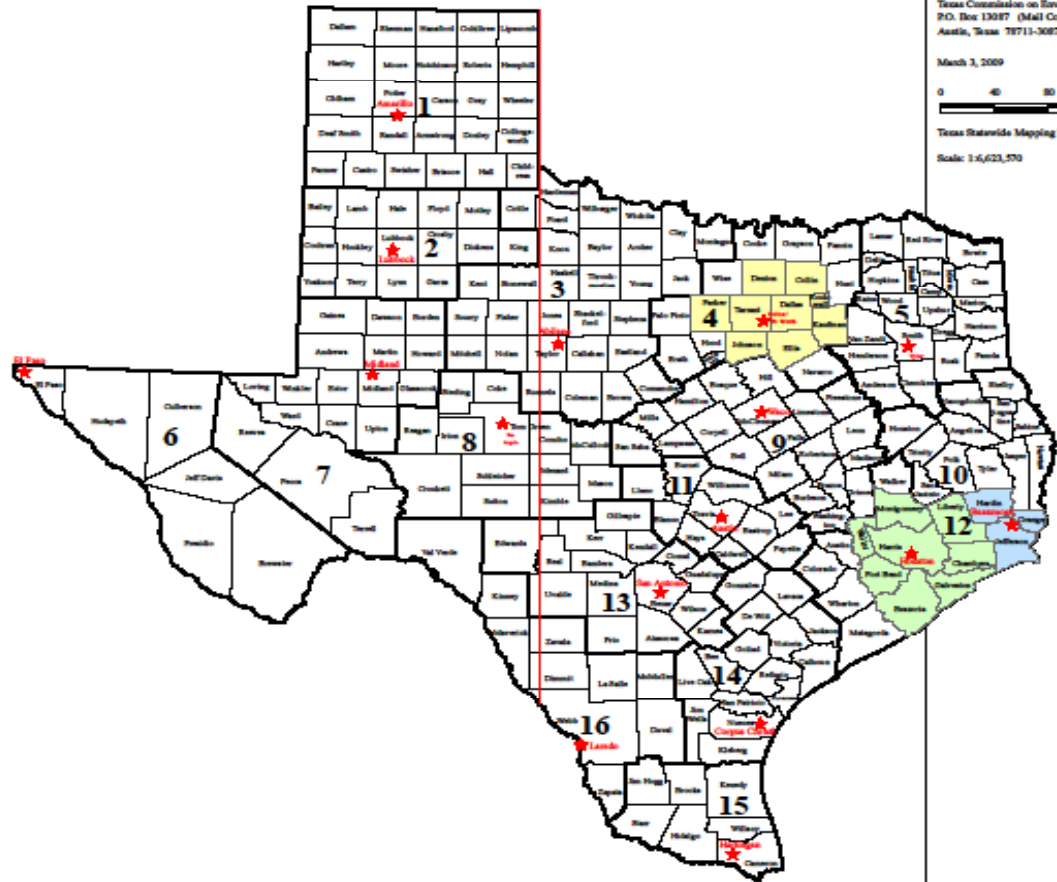


Table 1-2. Eight-hour ozone nonattainment areas

Summary of Reporting Requirements (tpy) for 30 TAC Section 101.10

County	VOC		NOX		Other		Individual HAP		Aggregated HAP	
	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential	Actual	Potential
Bexar, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, Waller SEVERE / OZONE	10	25	25	25	100	100	10	10	25	25
Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant MODERATE / OZONE	10	100	25	100	100	100	10	10	25	25
Hardin, Jefferson, Orange MODERATE / OZONE	10	100	25	100	100	100	10	10	25	25
All Other Counties	100	100	100	100	100	100	10	10	25	25

Notes: If an account's emissions meet or exceed the tons per year (tpy) thresholds listed in this table, an emissions inventory questionnaire must be submitted to the TCEQ. This table is provided as a guidance tool to aid in the actual rule. If a discrepancy exists between the table and rule 30 TAC Section 101.10 and 30 TAC Section 116.11 (Major Source Definition), then the rule will take precedence.

Legend

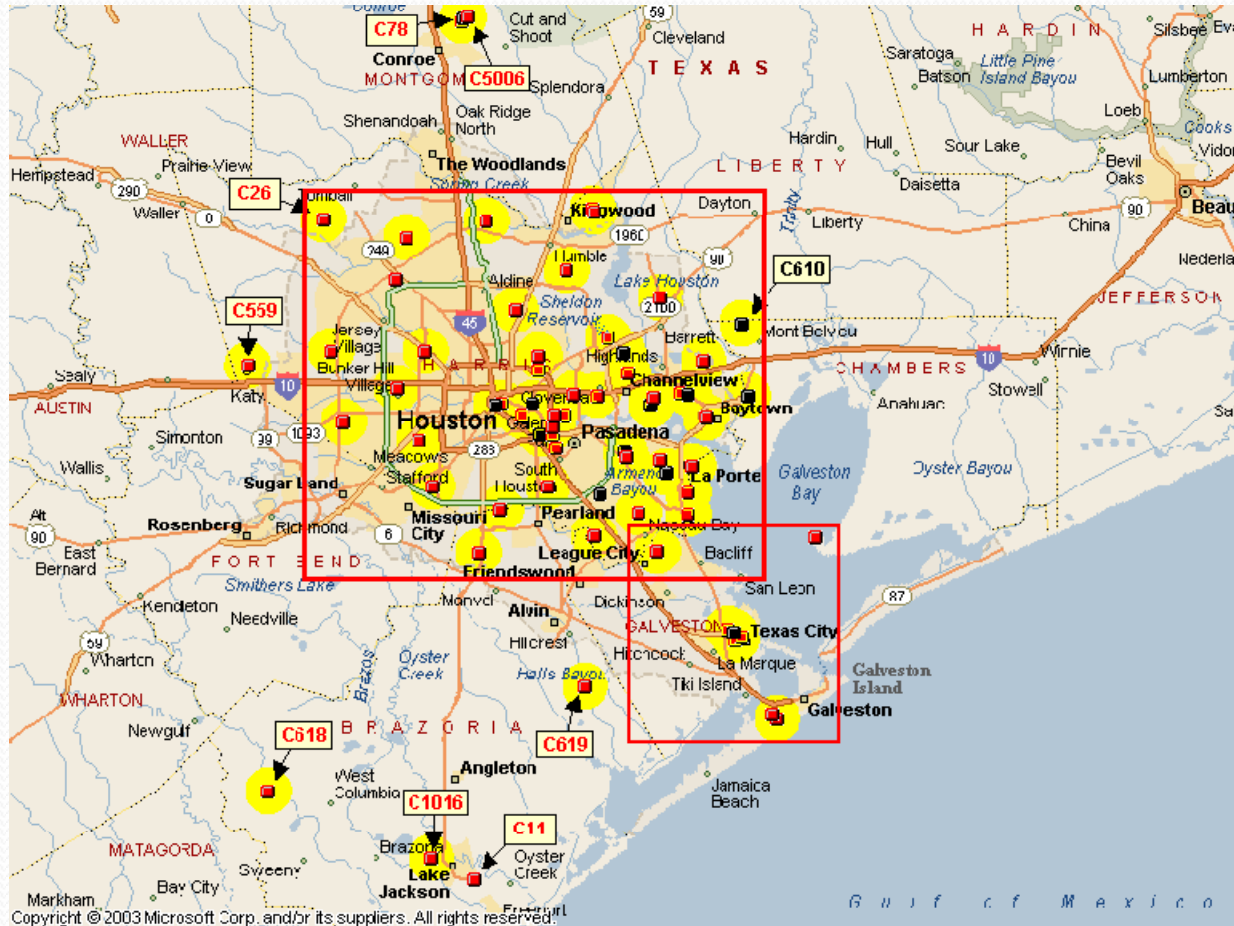
- ★ Region Headquarters
- 12 Region Number
- County Boundary
- Central Meridian

Source: The county boundaries and region headquarters are US Census Bureau 1992 TigerLine data (1:100,000).

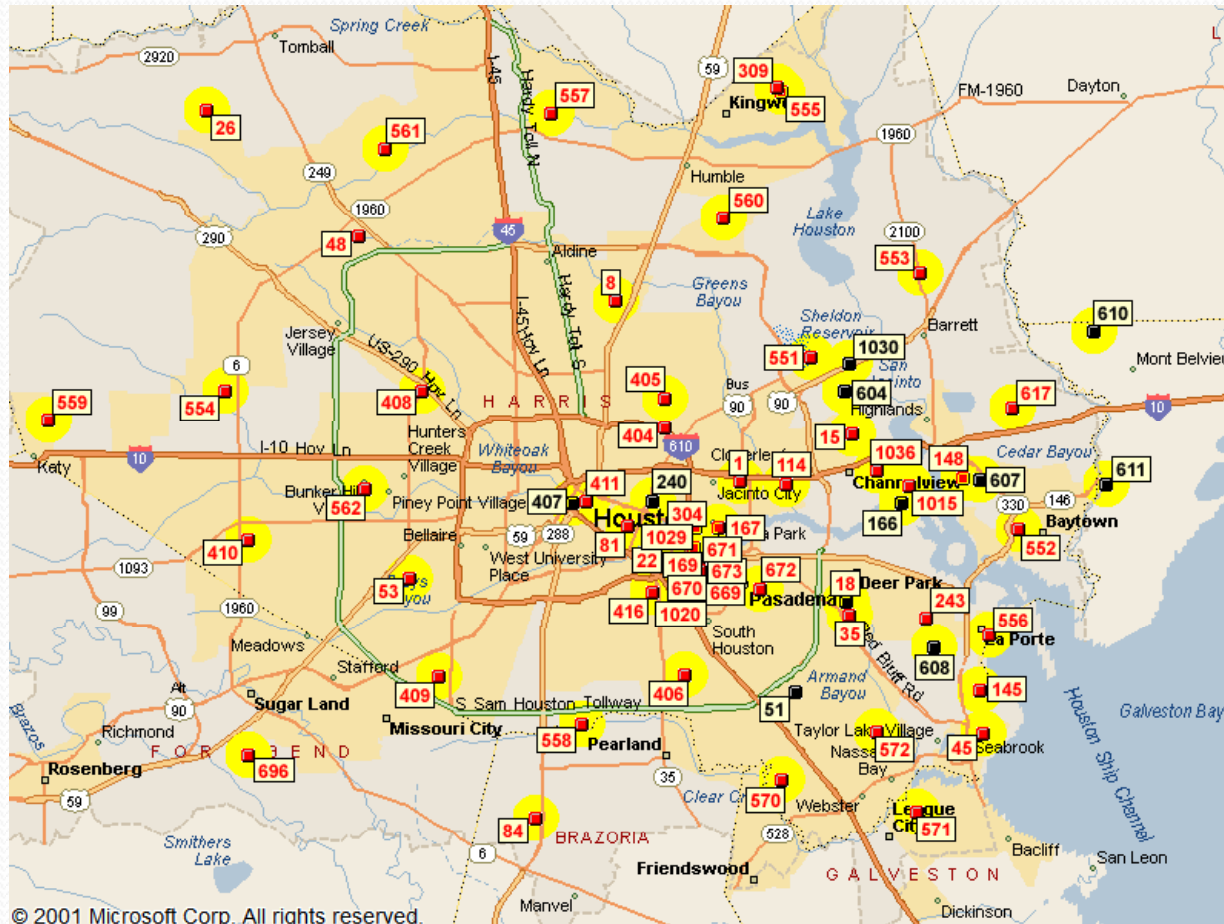


This map was generated by the Information Resources Division of the Texas Commission on Environmental Quality. This map was not generated by a licensed surveyor, and is intended for illustrative purposes only. No claims are made to the accuracy or completeness of the data or to its suitability for a particular use. For more information concerning this map, contact the Information Resources Division at (512) 239-0880.

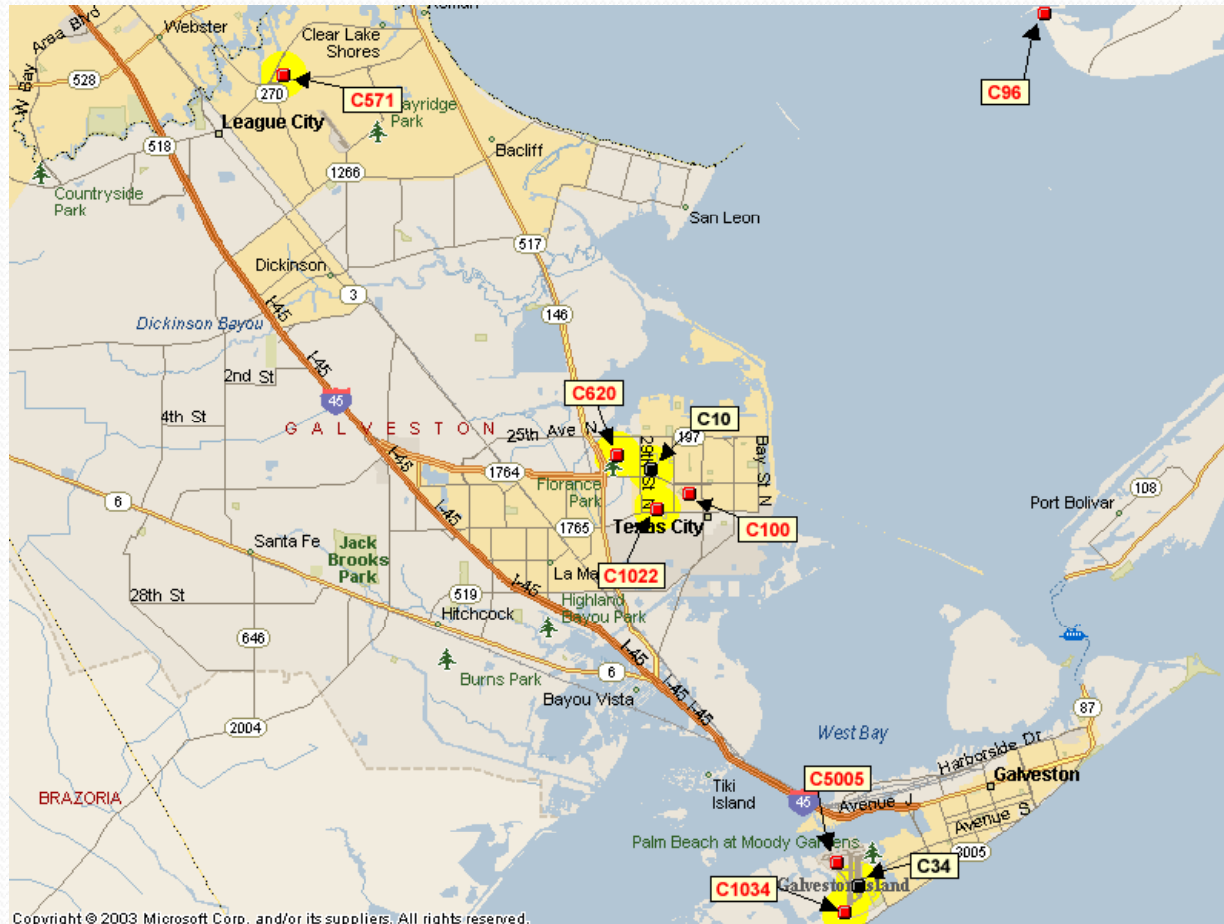
Monitors: HGB Area



Monitors: Zoom In on Houston



Monitors: Zoom in on League City/Texas City/Galveston





Exceedence Days

- Number of days monitored ozone exceeds 8 hour standard (>75 ppb). Only takes one monitor. Only used 21 FRM (Federal Reference Monitors).
 - 28 Days in 2010 (through Oct. 7)
 - Highest 8 hr average: 97 ppb (Houston Aldine, May 3, 11am-7pm)
 - Highest 1 hr average: 130 ppb (Lynchburg, July 16, 2-3 pm)
 - 26 Days in 2009 (1/1/09-12/31/09)
 - Highest 8 hr average: 110 ppb (Houston East, May 30, 10am-6pm)
 - Highest 1 hr average: 157 ppb (Bayland Park, Sept. 3, 3-4pm)

*Disclaimer: Has not been through QA

Source: TCEQ webpage

2010 Exceedences (HGB)

April

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Jun

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

May

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

July

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

2010 Exceedences (cont.)

Aug

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

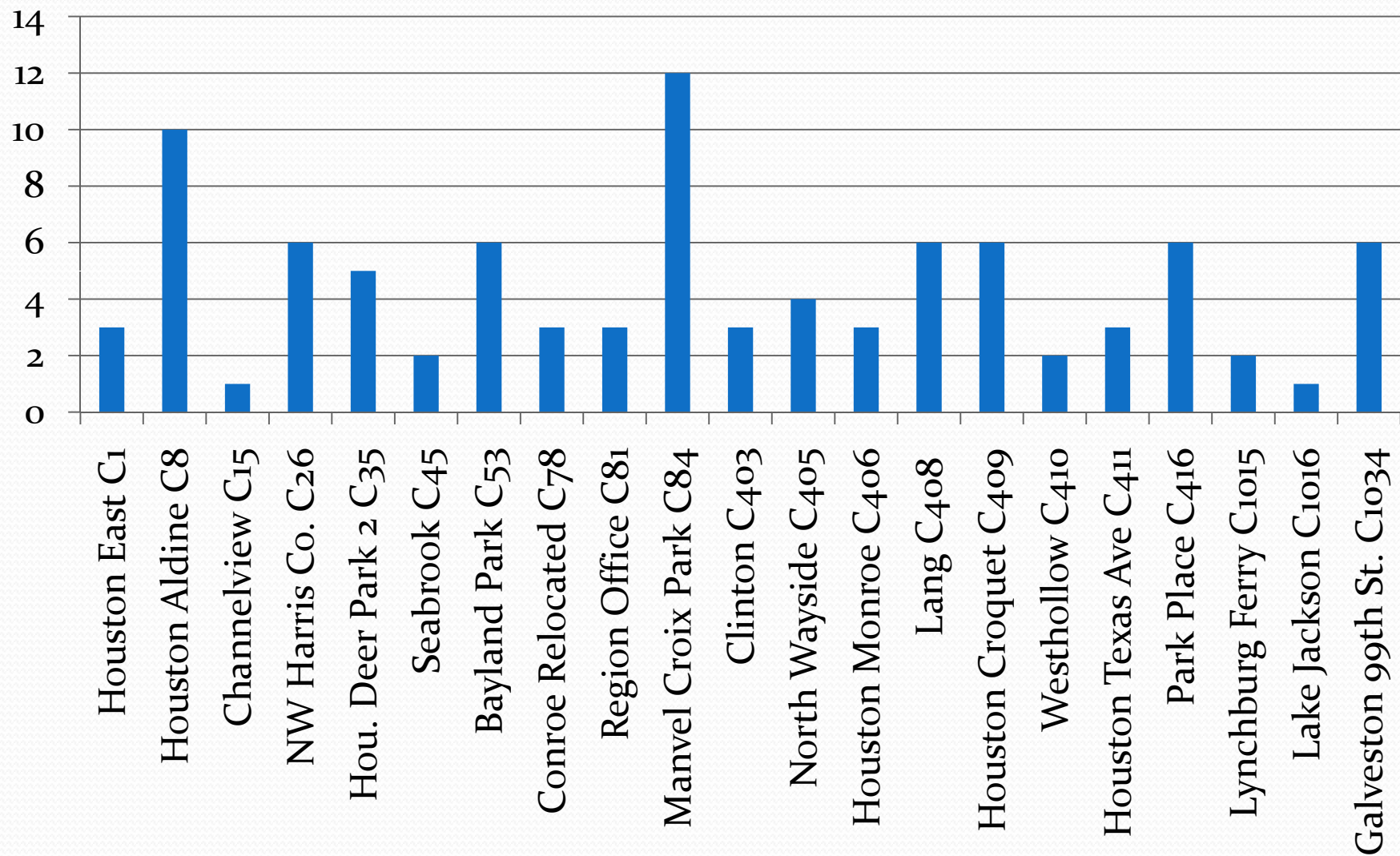
Sept

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Oct

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

2010 HGB 8hr Exceedence Days (>75ppb) by monitor



Through Oct 7, 2010 (has not been through QA). Source: TCEQ webpage. 21 FRMonly.

Design Values (ppb)

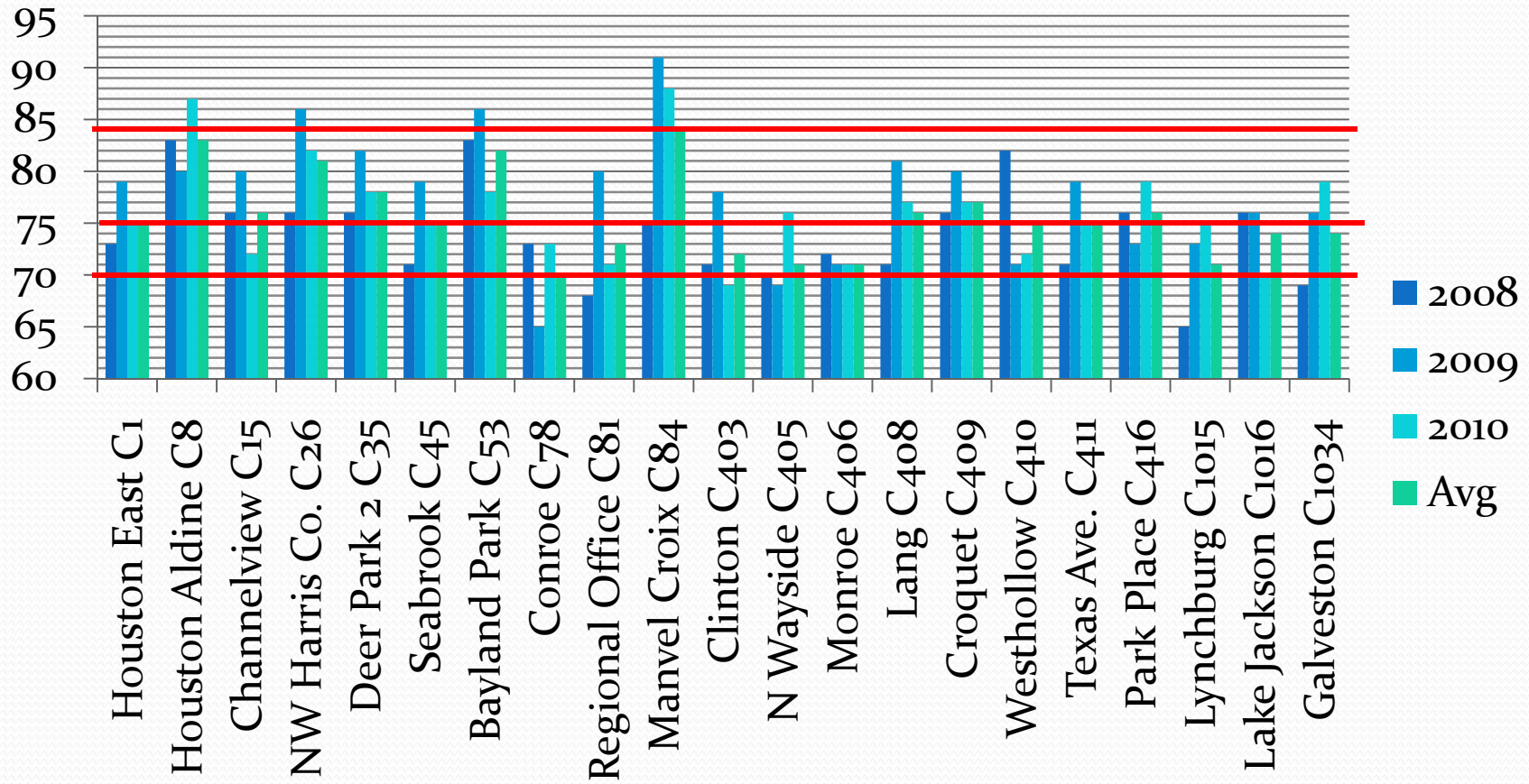
4th highest 8hr avg.

Site (21 FRM)	2008	2009	2010	Current 3 yr Avg
• Houston East C1	73	79	75	75
• Aldine C8	83	80	87	83
• Channelview C15	76	80	72	76
• NW Harris C26	76	86	82	81
• Deer Park 2 C35	76	82	78	78
• Seabrook C45	71	79	75	75
• Bayland Park C53	83	86	78	82
• Conroe C78	73	65	73	70
• Region Office C81	68	80	71	73
• Manvel Croix C84	75	91	88	84
• Clinton C403	71	78	69	72
• Wayside C405	70	69	76	71
• Monroe C406	72	71	71	71
• Lang C408	71	81	77	76
• Croquet C409	76	80	77	77
• Westhollow C410	82	71	72	75
• Texas Ave. C411	71	79	75	75
• Park Place C416	76	73	79	76
• Lynchburg C1015	65	73	75	71
• Lake Jackson C1016	76	76	70	74
• Galveston C1034	69	76	79	74

Source: TCEQ Webpage (through 10/7/10)

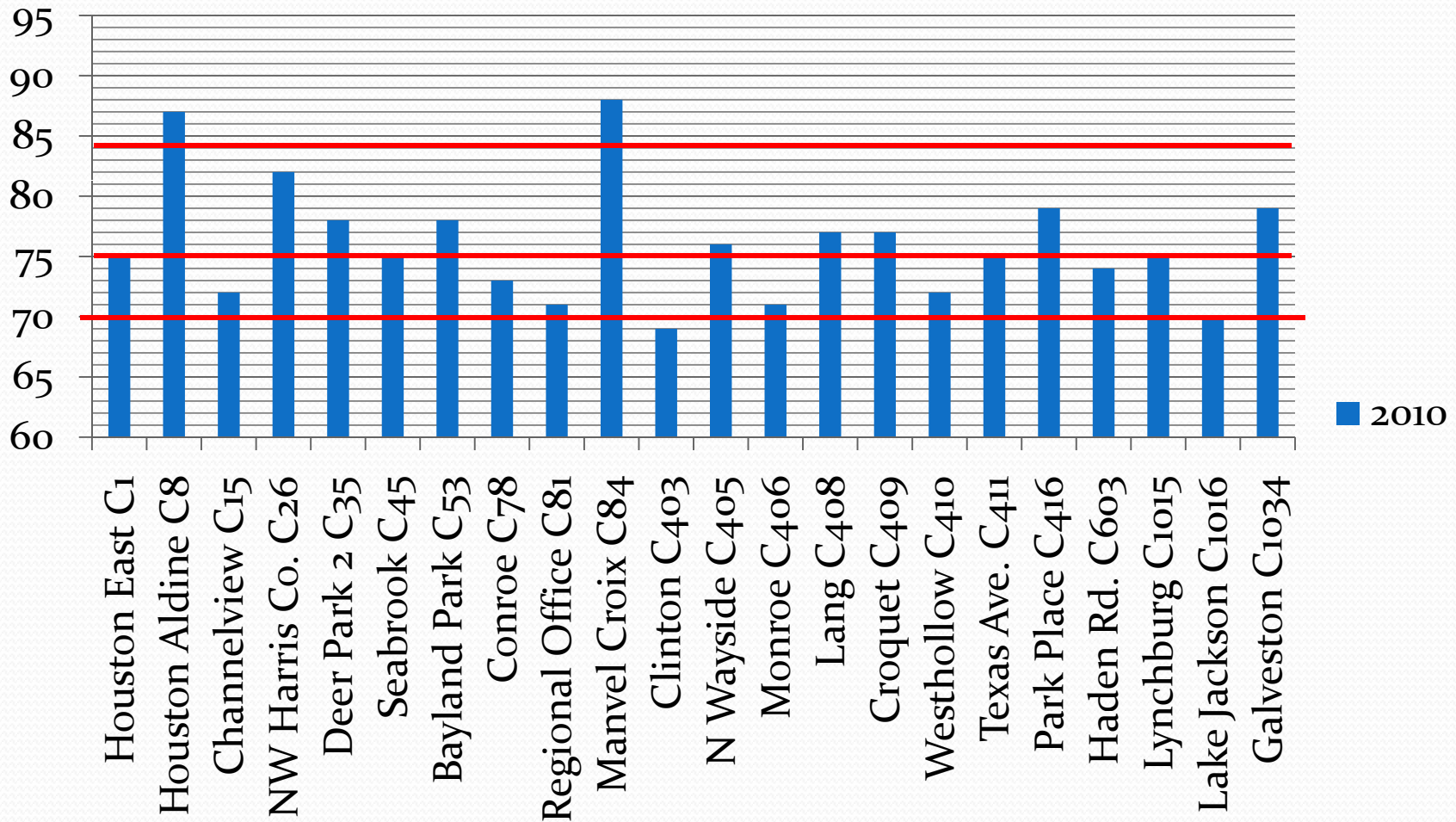
*All data has not been through QA. Note: (Current 3 yr avg.) None over 84 ppb, 9 over 75 ppb, all but one over 70 ppb.

Design Values



Design Values

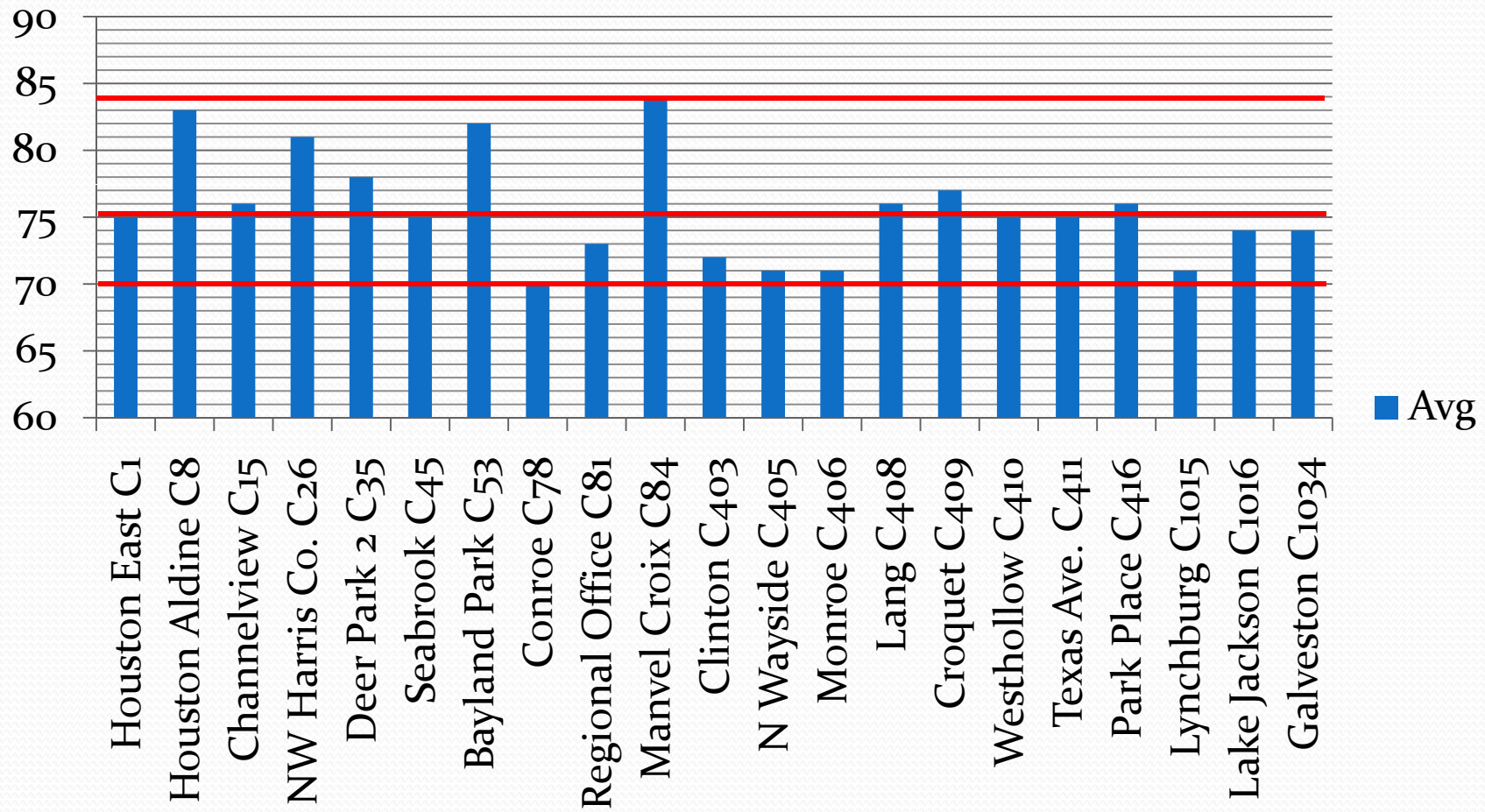
2010 4th High



*Note: 2 above 84 ppb and 10 above 75 ppb. All but 2 above 70 ppb.

Design Values

Current 3 Year Average ('08-'10)



*Note: None above 84 ppb. Nine of 21 over 75 ppb. All but one over 70 ppb.

2010 HGB Ozone Exceedence Days Old 8 Hour Standard (>84ppb)

- 14 Days through October 7 (vs. 28 days for 75 ppb)
 - 6 in May
 - 0 in June
 - 1 in July
 - 2 in August
 - 3 in September
 - 2 in October

Source: TCEQ webpage (FRM only)

*All data has not been through QA



HGB One Hour Ozone

- Exceedences of 124 ppb in 2010 (through 10/11/2010)

- 4 Days

Site	Date	ppb	Time
• Lynchburg C1015	7/16	130	2-3pm
• Houston East C1	7/16	129	4-5pm
• Houston Aldine C8	8/3	127	2-3pm
• Channelview C15	8/1	126	3-4pm
• Park Place C416	8/11	126	1-2pm
• Houston East C1	8/3	125	1-2pm

*Data has not been through QA

Source: TCEQ Webpage (21 FRM only)



End