

# Traffic Data of Texas, Inc.

Weather: Clear  
 Project Name: The Colony  
 Count: 24-Hour Volume

413 Bronco Circle  
 Denton, TX 76208  
 Phone & FAX: 940.321.0888

Site Code: 7732-010906  
 Station ID: 7732-7734  
 FM 423  
 Lake Highlands Intersection approach

Comments: Intersection approach

Start Time	10-Jan-06 Tue	South Bound Approach		Hour Totals		North Bound Approach		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		13	194			26	249				
12:15		9	162			34	227				
12:30		10	180			32	236				
12:45		7	197	76	733	22	229	114	961	160	1694
01:00		6	174			16	264				
01:15		7	221			23	287				
01:30		7	184			16	254				
01:45		8	226	28	805	19	246	74	1053	102	1958
02:00		14	170			17	319				
02:15		8	175			16	363				
02:30		9	184			14	330				
02:45		14	208	45	741	6	285	53	1275	98	2016
03:00		10	187			8	310				
03:15		16	206			10	321				
03:30		18	236			8	337				
03:45		20	247	64	876	3	338	39	1306	103	2182
04:00		18	188			15	379				
04:15		20	245			13	417				
04:30		53	216			19	459				
04:45		57	291	188	940	27	440	74	1695	242	2635
05:00		93	274			26	490				
05:15		86	305			26	499				
05:30		204	303			62	404				
05:45		250	319	703	1201	48	462	162	1855	865	3056
06:00		317	370			88	384				
06:15		374	289			155	412				
06:30		332	217			226	432				
06:45		419	180	1541	999	235	411	704	1639	2245	2658
07:00		404	119			246	336				
07:15		394	107			244	356				
07:30		426	96			235	326				
07:45		365	97	1589	410	264	301	1079	1319	2568	1738
08:00		366	80			205	285				
08:15		317	87			228	277				
08:30		323	72			206	220				
08:45		308	71	1314	310	219	151	858	933	2172	1243
09:00		238	82			199	217				
09:15		249	93			222	183				
09:30		195	66			167	189				
09:45		238	70	920	311	190	162	1778	751	1698	1052
10:00		165	49			223	125				
10:15		204	53			209	140				
10:30		164	35			200	88				
10:45		195	35	1728	172	197	107	829	460	1557	632
11:00		173	23			206	82				
11:15		210	14			215	168				
11:30		174	30			254	59				
11:45		163	31	720	867	242	155	1017	264	1637	349
Peak		06:30	05:15			07:00	04:30				
Vol.		1648	1246			979	1888				
P.H.F.		0.954	0.976			0.964	0.946				
Total		7866	7592			5581	13511			13447	21103
Percent											

Combined Total	15458		19092		34550	
Total	7866	7592	5581	13511	13447	21103
Report Percent	50.9%	49.1%	29.2%	70.8%	38.9%	61.1%

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Weather: Clear

Project Name: The Colony - FM 423

Count: 24-Hour Volume

Comments: Intersection approach

413 Bronco Circle

Denton, TX 76208

Phone & FAX: 940.321.0888

Site Code: 6316-010906

Station ID: 6316-7733

Lake Highland

FM 423 Intesection approach

Start Time	10-Jan-06 Tue	West Bound Approach		Hour Totals		East Bound Approach		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		2	14			3	9				
12:15		2	13			0	3				
12:30		0	5			0	9				
12:45		0	8		40	0	19		30	50	80
01:00		0	6			2	13				
01:15		0	9			0	12				
01:30		0	13			2	10				
01:45		0	7		35	1	15		5	50	85
02:00		0	12			1	16				
02:15		0	6			1	13				
02:30		0	6			1	15				
02:45		0	7		31	0	10		3	52	83
03:00		0	12			0	15				
03:15		0	9			0	12				
03:30		1	16			5	23				
03:45		0	7		44	0	10		5	60	104
04:00		0	6			1	11				
04:15		0	7			3	14				
04:30		1	9			2	8				
04:45		0	7		29	2	9		8	42	71
05:00		0	19			7	11				
05:15		0	7			6	15				
05:30		1	5			7	13				
05:45		1	7		38	7	16		28	65	93
06:00		2	7			16	13				
06:15		6	1			16	14				
06:30		6	1			15	7				
06:45		16	0		17	14	13		6	47	88
07:00		5	2			20	12				
07:15		2	3			15	7				
07:30		3	0			27	2				
07:45		4	3		8	21	8		89	27	96
08:00		3	5			16	7				
08:15		5	2			18	3				
08:30		5	0			13	17				
08:45		14	1		18	17	9		64	36	140
09:00		2	0			8	6				
09:15		9	1			9	7				
09:30		2	0			13	12				
09:45		15	2		24	9	7		39	29	83
10:00		4	0			12	1				
10:15		13	0			10	3				
10:30		4	0			7	7				
10:45		10	0		31	8	10		37	13	81
11:00		9	0			8	1				
11:15		7	0			4	2				
11:30		6	1			12	2				
11:45		7	0		39	13	11		47	26	87
Peak		11:00	02:45			07:00	02:45				
Vol.		39	44			83	60				
P.H.F.		0.696	0.579			0.769	0.652				
Total		143	249			383	467			526	716
Percent											

Combined Total	392		850		1242	
Total	143	249	383	467	526	716
Report Percent	36.5%	63.5%	45.1%	54.9%	42.4%	57.6%

**Warrant Analysis based on GRAM Traffic North Texas, Inc. Traffic Approach Counts (February 2012)**

**Warrant 1- Eight-Hour Vehicular Volume**

The eight highest hours of traffic volumes at the intersections are:

<u>Time</u>	<u>FM 423 (Total Volume) (SB and NB combined)</u>	<u>Time</u>	<u>Lake Highlands (Highest approach) (Individual for either EB or WB)</u>
6:00 – 7:00 am	1795	6:00 – 7:00 am	59
7:00 – 8:00 am	2113	7:00 – 8:00 am	98
8:00 – 9:00 am	1780	8:00 – 9:00 am	63
2:00 – 3:00 pm	1467	2:00 – 3:00 pm	70
3:00 – 4:00 pm	1585	3:00 – 4:00 pm	60
4:00 – 5:00 pm	1731	5:00 – 6:00 pm	61
5:00 – 6:00 pm	2016	6:00 – 7:00 pm	61
6:00 – 7:00 pm	1737	7:00 – 8:00 pm	55

Condition A requires the following minimum vehicular volume thresholds to be met for eight (8) hours of the day (since the speed on the major street exceeds 40 mph, the 70 percent thresholds apply):

- 420 vehicles on major street (total of both approaches)
- 105 vehicles on the minor street (highest approach, in this case eastbound)

*Traffic volumes at the intersection do not meet any minimum hourly requirements for Warrant 1, Condition A.*

Condition B requires the following minimum vehicular volume thresholds to be met for eight (8) hours of the day (since the speed on the major street exceeds 40 mph, the 70 percent volume thresholds apply):

- 630 vehicles on the major street (total of both approaches)
- 53 vehicles on the minor street (highest approach, in this case eastbound)

*Traffic volumes at the intersection meet the minimum hourly requirements for Warrant 1, Condition B for eight (8) of the eight (8) hours.*

**Warrant 1 is met.**

**Note:** This warrant was not met in the previous February 2006 study performed by Innovative Transportation Solutions. It appears that traffic volumes have increased since that time based on the current counts.

### **Warrant 2 – Four-Hour Vehicular Volume**

Warrant 2 requires the following minimum vehicular volume thresholds to be met for four (4) hours of the day:

- 1,000 vehicles on the major street (total of both approaches)
- 60 vehicles on the minor street (highest approach)

*Traffic volumes at the intersection meet the minimum hourly requirements for four (4) hours, satisfying Warrant 2.*

### **Warrant 2 is met**

### **Warrant 3 –Peak Hour**

Warrant 3 requires the following minimum vehicular volume thresholds to be met for one (1) hour of the day:

- 1,300 vehicles on the major street (total of both approaches)
- 75 vehicles on the minor street (highest approach)

*Traffic volumes at the intersection meet the minimum hourly requirements for one (1) hours, satisfying Warrant 3.*

### **Warrant 3 is met**

### **Warrant 4 – Pedestrian Volume**

Warrant 4 was not checked

### **Warrant 5 – School Crossing**

Warrant 5 was not checked. No school crossings are required for this intersection

### **Warrant 6 – Coordinated Signal System**

Warrant 6 was not checked