

9:41:14 AM

Travel Time & Delay Report for Kingwood Dr.

Legend:

TT:

Summarized Travel Time from previous Node (seconds)

CTT:

Summarized Cumulative Travel Time since beginning of Run (seconds)

TL:

Summarized Travel Distance from previous Node (feet)

CTL:

Summarized Cumulative Travel Distance since beginning of Run (feet)

StopD:

Summarized Stopped Delay, or Time spent Waiting in Queue while traveling from previous Node (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

CStopD:

Summarized Cumulative Stopped Delay since beginning of Run (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

BS1T:

Summarized Time spent Below Speed #1 (10 mph) while traveling from previous Node (seconds)

CBS1T:

Summarized Cumulative Time spent Below Speed #1 (10 mph) since beginning of Run (seconds)

AS:

Summarized Actual Average Speed from previous Node (mph) = TL/TT

CAS:

Summarized Cumulative Actual Average Speed since beginning of Run (mph) = CTL/CTT

Stops:

Summarized Number of Stops in Travel from previous Node. A "Stop" is counted when the speed drops below 5 mph after exc

Summary of runs Eastbound from Sorters Rd. (#16)

4 Before-type runs, 4 of unverifiable origin, collected Thursday 9/11/2014 to Thursday 9/11/2014, over day(s) Thu, with starting times durin

Node	<u>TT</u>	<u>CTT</u>	<u>TL</u>	<u>CTL</u>	<u>StopD</u>	<u>CStopD</u>	<u>BS1T</u>	<u>CBS1T</u>	<u>AS</u>
to US 59 SBFR (#15)									
Average Before (n=4)	113	113	3322	3322	40	40	40	40	22.4
Std Dev Before (n=4)	47	47	46	46	42	42	43	43	7.8
to US 59 NBFR (#14)									
Average Before (n=4)	7	120	291	3613	0	40	0	40	27.9

<i>Std Dev Before (n=4)</i>	1	47	1	47	0	42	0	43	3.2
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to Loop 494 (#13)

<i>Average Before (n=4)</i>	27	147	1362	4975	0	40	0	40	34.9
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<i>Std Dev Before (n=4)</i>	2	47	1	47	0	42	0	43	3
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to Royal Forest Dr. (#12)

<i>Average Before (n=4)</i>	14	161	539	5515	1	41	1	42	27.6
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<i>Std Dev Before (n=4)</i>	5	44	0	47	2	41	2	41	7.7
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to Chestnut Ridge Rd. (#11)

<i>Average Before (n=4)</i>	42	204	1788	7303	7	47	7	48	31.8
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<i>Std Dev Before (n=4)</i>	18	41	23	48	14	37	14	37	9.1
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to Green Oak Dr. (#10)

<i>Average Before (n=4)</i>	53	256	2410	9713	5	52	5	54	32.3
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<i>Std Dev Before (n=4)</i>	12	46	12	52	10	37	10	38	6.1
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to Woodland Grove Dr. (#9)

<i>Average Before (n=4)</i>	61	317	2879	12591	4	56	4	58	33.3
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<i>Std Dev Before (n=4)</i>	12	53	6	55	8	39	8	40	6.1
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to Woodland Hills Dr. (#8)

<i>Average Before (n=4)</i>	88	404	2737	15329	35	91	35	93	23.1
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<i>Std Dev Before (n=4)</i>	25	52	40	45	24	41	24	40	8.5
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to Valley Manor Dr. (#7)

<i>Average Before (n=4)</i>	138	543	6502	21830	26	117	26	119	32.3
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<i>Std Dev Before (n=4)</i>	14	45	18	54	18	40	18	39	3.2
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to W. Lake Houston Pkwy. (#6)

<i>Average Before (n=4)</i>	96	639	4938	26769	5	122	5	124	35.3
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<i>Std Dev Before (n=4)</i>	10	45	6	48	7	41	7	39	3.9
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to Forest Garden Dr. (#5)

<i>Average Before (n=4)</i>	66	705	3501	30269	4	126	4	128	36.3
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<i>Std Dev Before (n=4)</i>	6	44	11	48	7	36	7	35	2.9
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to Timber Shade Dr. (#4)

<i>Average Before (n=4)</i>	47	752	1899	32169	13	139	13	141	30.7
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<i>Std Dev Before (n=4)</i>	20	60	15	58	18	49	18	48	10.8
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to Willow Terrace Dr. (#3)

<i>Average Before (n=4)</i>	72	825	2946	35114	9	148	13	154	28.3
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<i>Std Dev Before (n=4)</i>	12	60	10	53	11	48	15	50	4.1
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to High Valley Dr. (#2)

<i>Average Before (n=4)</i>	44	868	1736	36850	9	157	9	163	28.9
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<i>Std Dev Before (n=4)</i>	13	51	20	58	11	40	11	41	8
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to Mills Branch Dr. (#1)

<i>Average Before (n=4)</i>	33	901	1317	38167	4	161	5	167	27.4
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<i>Std Dev Before (n=4)</i>	4	51	1	58	3	40	2	40	4
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Cumulative Travel Distance since beginning of Run (feet)

. 9:41:14 AM

Travel Time & Delay Report for Kingwood Dr.

Contents:

[\(imported\) EB AM #1, \(imported\) EB AM #2, \(imported\) EB AM #3, \(imported\) EB AM #4, Cumulative Reports](#)
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[-] Before-type Trip Log "(imported) EB AM #1", AM-period, started Thursday 9/11/2014 6:53:30 AM

Entered artery 6:53:44 am (14 seconds) traveling Eastbound from Sorters Rd. (#1

Node	II	CTI	IL	CTL	StopD	CStopD	BS1T	CBS1T	AS
to US 59 SBFR (#15)	80	80	3307	3307	6	6	6	6	28.3
to US 59 NBFR (#14)	6	86	292	3599	0	6	0	6	30.6
to Loop 494 (#13)	26	112	1362	4961	0	6	0	6	35.9
to Royal Forest Dr. (#12)	12	124	540	5500	0	6	0	6	29.8
to Chestnut Ridge Rd. (#11)	33	157	1777	7278	0	6	0	6	37.1
to Green Oak Dr. (#10)	45	202	2402	9680	0	6	0	6	36.4
to Woodland Grove Dr. (#9)	49	251	2877	12557	0	6	0	6	40.1
to Woodland Hills Dr. (#8)	98	350	2796	15353	50	55	51	57	19.4
to Valley Manor Dr. (#7)	149	499	6501	21854	34	89	34	91	29.7
to W. Lake Houston Pkwy. (#6)	102	601	4933	26787	6	95	6	97	32.9
to Forest Garden Dr. (#5)	64	665	3495	30281	0	95	0	97	37.3
to Timber Shade Dr. (#4)	48	713	1914	32195	13	108	13	110	27
to Willow Terrace Dr. (#3)	63	777	2931	35126	8	116	9	118	31.6
to High Valley Dr. (#2)	60	837	1765	36891	24	140	24	142	20
to Mills Branch Dr. (#1)	37	874	1316	38207	5	145	5	147	24.3

[-] Before-type Trip Log "(imported) EB AM #2", AM-period, started Thursday 9/11/2014 7:27:48 AM

Entered artery 7:28:04 am (16 seconds) traveling Eastbound from Sorters Rd. (#1

Node	IT	CTT	IL	CTL	StopD	CStopD	BS1T	CBS1T	AS
to US 59 SBFR (#15)	177	177	3390	3390	96	96	97	97	13
to US 59 NBFR (#14)	7	185	291	3681	0	96	0	97	27.3
to Loop 494 (#13)	28	213	1363	5043	0	96	0	97	33.2
to Royal Forest Dr. (#12)	11	223	539	5583	0	96	0	97	33.8
to Chestnut Ridge Rd. (#11)	34	257	1775	7358	0	96	0	97	36
to Green Oak Dr. (#10)	51	309	2402	9760	0	96	0	97	31.8
to Woodland Grove Dr. (#9)	59	367	2875	12636	0	96	0	97	33.4
to Woodland Hills Dr. (#8)	108	475	2717	15352	53	149	53	150	17.2
to Valley Manor Dr. (#7)	130	605	6527	21880	18	167	18	168	34.1
to W. Lake Houston Pkwy. (#6)	97	702	4934	26814	0	167	0	168	34.8
to Forest Garden Dr. (#5)	65	767	3495	30309	0	167	0	168	36.4
to Timber Shade Dr. (#4)	75	842	1910	32219	38	205	39	206	17.4
to Willow Terrace Dr. (#3)	67	909	2951	35170	0	205	3	210	29.8
to High Valley Dr. (#2)	35	944	1722	36892	0	205	0	210	33.8
to Mills Branch Dr. (#1)	34	978	1319	38210	6	211	6	216	26.5

[-] Before-type Trip Log "(imported) EB AM #3", AM-period, started Thursday 9/11/2014 8:07:54 AM

Entered artery 8:08:06 am (13 seconds) traveling Eastbound from Sorters Rd. (#1

Node	TT	CTT	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS
to US 59 SBFR (#15)	77	77	3308	3308	8	8	9	9	29.5
to US 59 NBFR (#14)	8	85	290	3598	0	8	0	9	23.5
to Loop 494 (#13)	29	114	1364	4962	0	8	0	9	31.9
to Royal Forest Dr. (#12)	22	137	540	5502	4	12	5	14	16.4
to Chestnut Ridge Rd. (#11)	69	205	1823	7325	27	39	28	42	18.1
to Green Oak Dr. (#10)	69	275	2428	9753	20	59	20	62	23.9
to Woodland Grove Dr. (#9)	78	353	2887	12640	16	75	17	79	25.2
to Woodland Hills Dr. (#8)	52	404	2707	15347	0	75	0	79	35.7
to Valley Manor Dr. (#7)	124	528	6486	21833	6	81	6	85	35.8
to W. Lake Houston Pkwy. (#6)	82	610	4938	26771	0	81	0	85	40.9
to Forest Garden Dr. (#5)	74	685	3517	30288	15	96	15	100	32.3
to Timber Shade Dr. (#4)	36	721	1885	32172	0	96	0	100	35.8
to Willow Terrace Dr. (#3)	68	788	2947	35119	5	101	5	106	29.6
to High Valley Dr. (#2)	48	836	1729	36848	12	112	12	118	24.7
to Mills Branch Dr. (#1)	35	871	1318	38165	6	118	6	123	25.6

[-] Before-type Trip Log "(imported) EB AM #4", AM-period, started Thursday 9/11/2014 8:16:52 AM

Entered artery 8:17:01 am (10 seconds) traveling Eastbound from Sorters Rd. (#1

Node	<u>TT</u>	<u>CTT</u>	<u>TL</u>	<u>CTL</u>	<u>StopD</u>	<u>CStopD</u>	<u>BS1T</u>	<u>CBS1T</u>	<u>AS</u>
to US 59 SBFR (#15)	119	119	3283	3283	48	48	49	49	18.9
to US 59 NBFR (#14)	7	125	291	3574	0	48	0	49	30
to Loop 494 (#13)	24	149	1362	4936	0	48	0	49	38.7
to Royal Forest Dr. (#12)	12	161	539	5475	0	48	0	49	30.2
to Chestnut Ridge Rd. (#11)	34	195	1776	7251	0	48	0	49	35.8
to Green Oak Dr. (#10)	44	239	2406	9657	0	48	0	49	37.1
to Woodland Grove Dr. (#9)	57	296	2874	12532	0	48	0	49	34.5
to Woodland Hills Dr. (#8)	92	388	2730	15262	36	85	37	86	20.2
to Valley Manor Dr. (#7)	150	539	6493	21755	47	132	46	132	29.4
to W. Lake Houston Pkw. (#6)	104	643	4947	26702	14	146	14	146	32.5
to Forest Garden Dr. (#5)	61	703	3498	30200	0	146	0	146	39.3
to Timber Shade Dr. (#4)	30	734	1888	32087	0	146	0	146	42.4
to Willow Terrace Dr. (#3)	90	824	2955	35042	24	170	35	181	22.3
to High Valley Dr. (#2)	32	856	1727	36769	0	170	0	181	37.3
to Mills Branch Dr. (#1)	27	883	1316	38085	0	170	3	183	33.2

Cumulative Reports

[-] Before-type Trip Log "(imported) EB AM #1", AM-period, started Thursday 9/11/2014 6:53:30 AM

Artery 6:53:44 am (14 seconds) traveling Eastbound from Sorters R

Node	<u>CTI</u>	<u>CTL</u>	<u>CStopD</u>	<u>CBS1T</u>	<u>CAS</u>
to Mills Branch Dr. (#1)	874	38207	145	147	29.8

[-] Before-type Trip Log "(imported) EB AM #2", AM-period, started Thursday 9/11/2014 7:27:48 AM

Artery 7:28:04 am (16 seconds) traveling Eastbound from Sorters R

Node	<u>CTI</u>	<u>CTL</u>	<u>CStopD</u>	<u>CBS1T</u>	<u>CAS</u>
to Mills Branch Dr. (#1)	978	38210	211	216	26.6

[-] Before-type Trip Log "(imported) EB AM #3", AM-period, started Thursday 9/11/2014 8:07:54 AM

Artery 8:08:06 am (13 seconds) traveling Eastbound from Sorters R

Node	<u>CTI</u>	<u>CTL</u>	<u>CStopD</u>	<u>CBS1T</u>	<u>CAS</u>
to Mills Branch Dr. (#1)	871	38165	118	123	29.9

[-] Before-type Trip Log "(imported) EB AM #4", AM-period, started Thursday 9/11/2014 8:16:52 AM

Artery 8:17:01 am (10 seconds) traveling Eastbound from Sorters R

Node	<u>CTI</u>	<u>CTL</u>	<u>CStopD</u>	<u>CBS1T</u>	<u>CAS</u>
to Mills Branch Dr. (#1)	883	38085	170	183	29.4

Actual Average Speed from previous Node (mph) = TL/TT

g" is counted from when

Speed drops below 5 mph

Speeding 15 mph

g 6:53:44 AM to 8:17:01 AM

<u>CAS</u>	<u>Stops</u>
22.4	1.8
7.8	0.5
22.6	0

7.4	0
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24.6	0
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6.6	0
-----	---

24.4	0.3
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5.7	0.5
-----	-----

25.2	0.3
------	-----

5	0.5
---	-----

26.5	0.3
------	-----

4.8	0.5
-----	-----

27.7	0.3
------	-----

4.9	0.5
-----	-----

26.2	0.8
------	-----

3.3	0.5
-----	-----

27.6	1
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2.2	0
-----	---

28.7	0.5
------	-----

2	0.6
---	-----

29.4	0.3
------	-----

1.8	0.5
-----	-----

29.3	0.5
------	-----

2.2	0.6
-----	-----

29.1	0.8
------	-----

2	0.5
---	-----

29	0.5
----	-----

1.6	0.6
-----	-----

28.9	0.8
------	-----

1.5	0.5
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<u>CAS</u>	<u>Stops</u>	
28.3	1	
28.4	0	
30.2	0	
30.1	0	
31.6	0	
32.6	0	
34.1	0	
29.9	1	
29.9	1	
30.4	1	
31	0	
30.8	1	
30.8	1	
30.1	1	
29.8	1	

6)

<u>CAS</u>	<u>Stops</u>	
13	2	
13.6	0	
16.2	0	
17	0	
19.5	0	
21.6	0	
23.5	0	
22	1	
24.7	1	
26.1	0	
26.9	0	
26.1	1	
26.4	0	
26.6	0	
26.6	1	

6)

<u>CAS</u>	<u>Stops</u>	
29.5	2	
28.9	0	
29.6	0	
27.5	1	
24.3	1	
24.2	1	
24.4	1	
25.9	0	
28.2	1	
29.9	0	
30.2	1	
30.4	0	
30.4	1	
30	1	
29.9	1	

↑ Contents

6)

<u>CAS</u>	<u>Stops</u>	
18.9	2	
19.5	0	
22.6	0	
23.1	0	
25.3	0	
27.5	0	
28.9	0	
26.8	1	
27.5	1	
28.3	1	
29.3	0	
29.8	0	
29	1	
29.3	0	
29.4	0	

↑ Contents

↑ Contents

↑ Contents

Travel Time & Delay Report for Kingwood Dr.

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Summarized Travel Time from previous Node (seconds)

CTT:

Summarized Cumulative Travel Time since beginning of Run (seconds)

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Summarized Travel Distance from previous Node (feet)

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Summarized Cumulative Travel Distance since beginning of Run (feet)

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Summarized Stopped Delay, or Time spent Waiting in Queue while traveling from previous Node (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

CStopD:

Summarized Cumulative Stopped Delay since beginning of Run (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

BS1T:

Summarized Time spent Below Speed #1 (10 mph) while traveling from previous Node (seconds)

CBS1T:

Summarized Cumulative Time spent Below Speed #1 (10 mph) since beginning of Run (seconds)

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Summarized Actual Average Speed from previous Node (mph) = TL/TT

CAS:

Summarized Cumulative Actual Average Speed since beginning of Run (mph) = CTL/CTT

Stops:

Summarized Number of Stops in Travel from previous Node. A "Stop" is counted when the speed drops below 5 mph after exceeding 15 mph

Summary of runs Westbound from Mills Branch Dr. (#1)

Before-type runs, 3 of unverifiable origin, collected Thursday 9/11/2014 to Thursday 9/11/2014, over day(s) Thu, with starting times during 6:36:51 AM to 7:46:36 AM

Node	TT	CTT	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to High Valley Dr. (#2)											
Average Before (n=3)	33	33	1370	1370	0	0	2	2	28.7	28.7	0
Std Dev Before (n=3)	4	4	7	7	0	0	4	4	3.1	3.1	0
to Willow Terrace Dr. (#3)											
Average Before (n=3)	60	93	1644	3015	26	26	26	28	21.6	23.1	0.7
Std Dev Before (n=3)	27	24	14	16	28	28	28	25	10.2	5.7	0.6
to Timber Shade Dr. (#4)											
Average Before (n=3)	64	157	2846	5861	11	37	11	40	32.5	26.8	0.3
Std Dev Before (n=3)	24	47	10	19	19	46	20	44	9.8	7.1	0.6
to Forest Garden Dr. (#5)											
Average Before (n=3)	75	233	2003	7864	36	73	36	76	19.8	24.4	1
Std Dev Before (n=3)	28	72	30	39	25	67	24	65	6.7	6.4	0

to W. Lake Houston Pkwy. (#6)											
Average Before (n=3)	150	383	3583	11447	82	155	82	158	16.3	20.9	1
Std Dev Before (n=3)	9	80	25	62	7	74	7	71	0.9	3.9	0
to Valley Manor Dr. (#7)											
Average Before (n=3)	82	464	4870	16317	0	155	0	158	40.6	24.4	0
Std Dev Before (n=3)	1	81	1	63	0	74	0	71	0.6	3.8	0
to Woodland Hills Dr. (#8)											
Average Before (n=3)	106	571	6420	22737	0	155	0	158	41.4	27.6	0
Std Dev Before (n=3)	10	91	5	64	0	74	0	71	3.6	4	0
to Woodland Grove Dr. (#9)											
Average Before (n=3)	45	616	2751	25488	0	155	0	158	41.9	28.6	0
Std Dev Before (n=3)	5	96	5	65	0	74	0	71	4.4	4	0
to Green Oak Dr. (#10)											
Average Before (n=3)	70	685	2900	28388	14	169	14	172	30.1	28.7	0.7
Std Dev Before (n=3)	19	105	5	70	14	75	15	72	9.7	4.1	0.6
to Chestnut Ridge Rd. (#11)											
Average Before (n=3)	55	741	2384	30772	6	174	6	178	30.3	28.7	0.3
Std Dev Before (n=3)	12	101	14	59	10	69	10	66	5.9	3.6	0.6
to Royal Forest Dr. (#12)											
Average Before (n=3)	49	790	1777	32548	13	187	14	192	28.7	28.5	0.3
Std Dev Before (n=3)	26	127	10	63	23	92	24	90	11.9	4.2	0.6
to Loop 494 (#13)											
Average Before (n=3)	14	804	539	33088	0	187	0	192	26.3	28.5	0
Std Dev Before (n=3)	2	128	1	64	0	92	0	90	3.1	4.1	0
to US 59 NBFR (#14)											
Average Before (n=3)	34	838	1366	34453	3	191	4	196	28.8	28.5	0.3
Std Dev Before (n=3)	9	135	3	65	6	98	7	96	8.6	4.2	0.6
to US 59 SBFR (#15)											
Average Before (n=3)	5	843	291	34744	0	191	0	196	38.8	28.5	0
Std Dev Before (n=3)	1	136	1	64	0	98	0	96	4.5	4.2	0
to Sorters Rd. (#16)											
Average Before (n=3)	82	925	3318	38062	15	205	15	211	27.8	28.5	2

Std Dev Before (n=3)	6	142	10	65	4	101	5	100	2.2	4	0
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9:44:51 AM

Travel Time & Delay Report for Kingwood Dr.

Contents:

[\(imported\) WB AM #1, \(imported\) WB AM #2, \(imported\) WB AM #3, Cumulative Reports](#)

[Collapse All](#)

[-] Before-type Trip Log "(imported) WB AM #1", AM-period, started Thursday 9/11/2014 6:36:47 AM ↑Contents

Entered artery 6:36:51 am (5 seconds) traveling Westbound from Mills Branch Dr. (#1)

Node	TT	CTT	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to High Valley Dr. (#2)	37	37	1364	1364	0	0	7	7	25.1	25.1	0
to Willow Terrace Dr. (#3)	34	71	1635	2998	0	0	0	7	32.8	28.8	0
to Timber Shade Dr. (#4)	50	121	2850	5848	0	0	0	7	38.8	32.9	0
to Forest Garden Dr. (#5)	70	191	2025	7874	34	34	34	41	19.8	28.1	1
to W. Lake Houston Pkwy. (#6)	142	333	3603	11477	76	110	76	117	17.3	23.5	1
to Valley Manor Dr. (#7)	82	415	4871	16347	0	110	0	117	40.4	26.8	0
to Woodland Hills Dr. (#8)	101	516	6416	22763	0	110	0	117	43.2	30.1	0
to Woodland Grove Dr. (#9)	41	557	2757	25519	0	110	0	117	45.9	31.2	0
to Green Oak Dr. (#10)	48	605	2901	28421	0	110	0	117	41.2	32	0
to Chestnut Ridge Rd. (#11)	68	673	2386	30807	17	127	17	135	23.9	31.2	1
to Royal Forest Dr. (#12)	36	710	1769	32576	0	127	0	135	33.2	31.3	0
to Loop 494 (#13)	14	724	541	33117	0	127	0	135	26.2	31.2	0
to US 59 NBFR (#14)	36	759	1363	34480	0	127	0	135	26.2	31	0
to US 59 SBFR (#15)	5	764	290	34770	0	127	0	135	41.2	31	0
to Sorters Rd. (#16)	80	844	3328	38098	15	142	15	150	28.4	30.8	2

[-] Before-type Trip Log "(imported) WB AM #2", AM-period, started Thursday 9/11/2014 7:10:06 AM ↑Contents

Entered artery 7:10:22 am (16 seconds) traveling Westbound from Mills Branch Dr. (#1)

Node	IT	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to High Valley Dr. (#2)	31	31	1378	1378	0	0	0	0	30.5	30.5	0
to Willow Terrace Dr. (#3)	58	89	1639	3017	22	22	23	23	19.3	23.2	1
to Timber Shade Dr. (#4)	51	140	2835	5852	0	22	0	23	37.6	28.5	0
to Forest Garden Dr. (#5)	51	191	1969	7821	12	34	13	36	26.5	27.9	1
to W. Lake Houston Pkwy. (#6)	148	339	3555	11376	80	114	81	117	16.3	22.9	1
to Valley Manor Dr. (#7)	80	420	4870	16245	0	114	0	117	41.4	26.4	0
to Woodland Hills Dr. (#8)	100	520	6420	22665	0	114	0	117	43.7	29.7	0
to Woodland Grove Dr. (#9)	44	564	2748	25413	0	114	0	117	42.5	30.7	0
to Green Oak Dr. (#10)	83	646	2894	28307	29	142	29	146	23.9	29.9	1
to Chestnut Ridge Rd. (#11)	46	692	2396	30703	0	142	0	146	35.7	30.2	0
to Royal Forest Dr. (#12)	32	724	1773	32476	0	142	0	146	37.7	30.6	0
to Loop 494 (#13)	12	737	538	33014	0	142	0	146	29.4	30.6	0
to US 59 NBFRR (#14)	24	761	1365	34379	0	142	0	146	38.4	30.8	0
to US 59 SBFR (#15)	5	766	292	34671	0	142	0	146	41.6	30.9	0
to Sorters Rd. (#16)	76	842	3316	37987	10	153	11	156	29.6	30.8	2

[-] Before-type Trip Log "(imported) WB AM #3", AM-period, started Thursday 9/11/2014 7:46:22 AM ↑Contents

Entered artery 7:46:36 am (13 seconds) traveling Westbound from Mills Branch Dr. (#1)

Node	IT	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to High Valley Dr. (#2)	31	31	1369	1369	0	0	0	0	30.5	30.5	0
to Willow Terrace Dr. (#3)	89	119	1660	3029	55	55	55	55	12.8	17.3	1
to Timber Shade Dr. (#4)	92	211	2853	5882	34	89	34	89	21.2	19	1

to Forest Garden Dr. (#5)	105	316	2014	7897	61	150	61	151	13	17	1
to W. Lake Houston Pkwy. (#6)	159	475	3592	11488	90	240	90	241	15.4	16.5	1
to Valley Manor Dr. (#7)	83	558	4871	16360	0	240	0	241	40.1	20	0
to Woodland Hills Dr. (#8)	118	676	6425	22785	0	240	0	241	37.3	23	0
to Woodland Grove Dr. (#9)	50	726	2747	25531	0	240	0	241	37.2	24	0
to Green Oak Dr. (#10)	79	805	2904	28436	13	253	13	254	25.2	24.1	1
to Chestnut Ridge Rd. (#11)	52	856	2369	30805	0	253	0	254	31.4	24.5	0
to Royal Forest Dr. (#12)	80	936	1788	32593	40	293	41	295	15.3	23.7	1
to Loop 494 (#13)	16	952	539	33132	0	293	0	295	23.2	23.7	0
to US 59 NBFR (#14)	43	995	1369	34501	10	304	11	307	21.8	23.6	1
to US 59 SBFR (#15)	6	1001	290	34791	0	304	0	307	33.6	23.7	0
to Sorters Rd. (#16)	89	1089	3309	38100	18	322	20	327	25.4	23.8	2

Cumulative Reports

[-] Before-type Trip Log "(imported) WB AM #1", AM-period, started Thursday 9/11/2014 6:36:47 AM ↑Contents

Entered artery 6:36:51 am (5 seconds) traveling Westbound from I

Node	CTI	CTL	CStopD	CBS1T	CAS
to Sorters Rd. (#16)	844	38098	142	150	30.8

[-] Before-type Trip Log "(imported) WB AM #2", AM-period, started Thursday 9/11/2014 7:10:06 AM ↑Contents

Entered artery 7:10:22 am (16 seconds) traveling Westbound from

Node	CTI	CTL	CStopD	CBS1T	CAS
to Sorters Rd. (#16)	842	37987	153	156	30.8

[-] Before-type Trip Log "(imported) WB AM #3", AM-period, started Thursday 9/11/2014 7:46:22 AM ↑Contents

Entered artery 7:46:36 am (13 seconds) traveling Westbound from

Node	CTI	CTL	CStopD	CBS1T	CAS
------	---------------------	---------------------	------------------------	-----------------------	---------------------

to Sorters Rd. (#16)	1089	38100	322	327	23.8
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9:43:46 AM

Travel Time & Delay Report for Kingwood Dr.

Legend:

TT:

Summarized Travel Time from previous Node (seconds)

CTT:

Summarized Cumulative Travel Time since beginning of Run (seconds)

TL:

Summarized Travel Distance from previous Node (feet)

CTL:

Summarized Cumulative Travel Distance since beginning of Run (feet)

StopD:

Summarized Stopped Delay, or Time spent Waiting in Queue while traveling from previous Node (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

CStopD:

Summarized Cumulative Stopped Delay since beginning of Run (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

BS1T:

Summarized Time spent Below Speed #1 (10 mph) while traveling from previous Node (seconds)

CBS1T:

Summarized Cumulative Time spent Below Speed #1 (10 mph) since beginning of Run (seconds)

AS:

Summarized Actual Average Speed from previous Node (mph) = TL/TT

CAS:

Summarized Cumulative Actual Average Speed since beginning of Run (mph) = CTL/CTT

Stops:

Summarized Number of Stops in Travel from previous Node. A "Stop" is counted when the speed drops below 5 mph after exc

Summary of runs Eastbound from Sorters Rd. (#16)

2 Before-type runs, 2 of unverifiable origin, collected Thursday 9/11/2014 to Thursday 9/11/2014, over day(s) Thu, with starting times durin

Node	<u>TT</u>	<u>CTT</u>	<u>TL</u>	<u>CTL</u>	<u>StopD</u>	<u>CStopD</u>	<u>BS1T</u>	<u>CBS1T</u>	<u>AS</u>
to US 59 SBFR (#15)									
Average Before (n=2)	120	120	3331	3331	43	43	43	43	19.6
Std Dev Before (n=2)	30	30	2	2	30	30	32	32	4.9
to US 59 NBFR (#14)									

Average Before (n=2)	10	130	290	3620	0	43	0	43	19.3
Std Dev Before (n=2)	0	30	1	1	0	30	0	32	0.3

to Loop 494 (#13)

Average Before (n=2)	217	347	1427	5047	169	211	169	212	4.8
Std Dev Before (n=2)	81	51	13	12	76	46	81	49	1.7

to Royal Forest Dr. (#12)

Average Before (n=2)	60	408	579	5626	44	256	45	257	15.6
Std Dev Before (n=2)	66	15	56	44	63	17	63	14	16.5

to Chestnut Ridge Rd. (#11)

Average Before (n=2)	103	510	1832	7458	58	314	57	314	20.8
Std Dev Before (n=2)	95	110	79	123	82	99	81	95	18.7

to Green Oak Dr. (#10)

Average Before (n=2)	121	631	2422	9880	60	374	62	376	21.7
Std Dev Before (n=2)	104	214	27	150	85	184	88	183	18.5

to Woodland Grove Dr. (#9)

Average Before (n=2)	58	689	2855	12734	0	374	1	377	34.1
Std Dev Before (n=2)	9	223	35	114	0	184	1	184	5.8

to Woodland Hills Dr. (#8)

Average Before (n=2)	63	752	2730	15464	0	374	0	377	29.6
Std Dev Before (n=2)	1	224	26	141	0	184	0	184	0.1

to Valley Manor Dr. (#7)

Average Before (n=2)	125	877	6472	21936	0	374	3	380	35.6
Std Dev Before (n=2)	15	209	10	151	0	184	5	179	4.3

to W. Lake Houston Pkwy. (#6)

Average Before (n=2)	205	1082	4973	26909	84	458	91	471	16.7
Std Dev Before (n=2)	25	235	0	151	42	225	37	216	2.1

to Forest Garden Dr. (#5)

Average Before (n=2)	71	1153	3501	30410	4	461	6	476	33.8
Std Dev Before (n=2)	8	242	4	154	5	230	3	220	3.7

to Timber Shade Dr. (#4)

Average Before (n=2)	37	1190	1878	32288	0	461	0	476	34.7
Std Dev Before (n=2)	4	246	15	139	0	230	0	219	3.7

to Willow Terrace Dr. (#3)

Average Before (n=2)	64	1254	3011	35299	7	468	7	483	32.6
Std Dev Before (n=2)	14	260	123	262	10	240	10	230	5.6

to High Valley Dr. (#2)

Average Before (n=2)	36	1290	1737	37036	0	468	3	486	33.8
Std Dev Before (n=2)	8	252	17	245	0	240	4	226	6.8

to Mills Branch Dr. (#1)

Average Before (n=2)	34	1324	1315	38351	6	474	6	492	26.6
Std Dev Before (n=2)	0	253	4	242	2	242	1	227	0.4

Stopped Delay, or Time spent Waiting in Queue while traveling from previous Node (seconds)

9:43:46 AM

Travel Time & Delay Report for Kingwood Dr.

Contents:

[\(imported\) EB PM #1, \(imported\) EB PM #2, Cumulative Reports](#)

[Collapse All](#)

[-] Before-type Trip Log "(imported) EB PM #1", PM-period, started Thursday 9/11/2014 4:48:30 PM

Entered artery 4:48:47 pm (17 seconds) traveling Eastbound from Sorters Rd. (#16)

Node	IT	CTT	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS
to US 59 SBFR (#15)	99	99	3330	3330	22	22	21	21	23
to US 59 NBFR (#14)	10	109	290	3620	0	22	0	21	19
to Loop 494 (#13)	274	383	1436	5056	222	244	226	247	3.6
to Royal Forest Dr. (#12)	14	397	539	5595	0	244	0	247	27.2
to Chestnut Ridge Rd. (#11)	36	432	1776	7371	0	244	0	247	34.1
to Green Oak Dr. (#10)	47	480	2403	9774	0	244	0	247	34.8
to Woodland Grove Dr. (#9)	51	531	2880	12653	0	244	0	247	38.2
to Woodland Hills Dr. (#8)	62	593	2711	15365	0	244	0	247	29.6
to Valley Manor Dr. (#7)	136	729	6465	21830	0	244	7	254	32.5
to W. Lake Houston Pkwy. (#6)	187	916	4973	26803	55	298	64	318	18.1
to Forest Garden Dr. (#5)	66	982	3498	30301	0	298	3	321	36.4
to Timber Shade Dr. (#4)	35	1016	1889	32189	0	298	0	321	37.3
to Willow Terrace Dr. (#3)	55	1071	2924	35114	0	298	0	321	36.6
to High Valley Dr. (#2)	41	1112	1749	36863	0	298	5	326	29
to Mills Branch Dr. (#1)	33	1145	1317	38180	4	303	6	332	26.9

[-] Before-type Trip Log "(imported) EB PM #2", PM-period, started Thursday 9/11/2014 5:32:50 PM

Entered artery 5:33:04 pm (15 seconds) traveling Eastbound from Sorters Rd. (#16)

Node	II	CTI	IL	CTL	StopD	CStopD	BS1T	CBS1T	AS
to US 59 SBFR (#15)	141	141	3332	3332	64	64	66	66	16.1
to US 59 NBFR (#14)	10	151	289	3621	0	64	0	66	19.5
to Loop 494 (#13)	160	311	1418	5039	115	179	111	177	6
to Royal Forest Dr. (#12)	107	418	618	5657	89	268	89	266	3.9
to Chestnut Ridge Rd. (#11)	170	588	1888	7544	116	384	115	381	7.6
to Green Oak Dr. (#10)	194	783	2441	9986	120	503	125	506	8.6
to Woodland Grove Dr. (#9)	64	847	2830	12815	0	503	1	507	29.9
to Woodland Hills Dr. (#8)	64	911	2749	15564	0	503	0	507	29.5
to Valley Manor Dr. (#7)	114	1025	6479	22043	0	503	0	507	38.7
to W. Lake Houston Pkwy. (#6)	223	1248	4973	27016	114	617	117	624	15.2
to Forest Garden Dr. (#5)	77	1324	3503	30519	7	624	8	632	31.2
to Timber Shade Dr. (#4)	40	1364	1867	32386	0	624	0	631	32.1
to Willow Terrace Dr. (#3)	74	1438	3098	35484	14	638	14	646	28.6
to High Valley Dr. (#2)	30	1468	1726	37210	0	638	0	646	38.6
to Mills Branch Dr. (#1)	34	1502	1312	38522	7	645	7	653	26.4

Cumulative Reports

[-] Before-type Trip Log "(imported) EB PM #1", PM-period, started Thursday 9/11/2014 4:48:30 PM

artery 4:48:47 pm (17 seconds) traveling Eastbound from Sorters R

Node	<u>CTT</u>	<u>CTL</u>	<u>CStopD</u>	<u>CBS1T</u>	<u>CAS</u>
to Mills Branch Dr. (#1)	1145	38180	303	332	22.7

[-] Before-type Trip Log "(imported) EB PM #2", PM-period, started Thursday 9/11/2014 5:32:50 PM

artery 5:33:04 pm (15 seconds) traveling Eastbound from Sorters R

Node	<u>CTT</u>	<u>CTL</u>	<u>CStopD</u>	<u>CBS1T</u>	<u>CAS</u>
to Mills Branch Dr. (#1)	1502	38522	645	653	17.5

"y" is counted from when

id drops below 5 mph

eeding 15 mph

g 4:48:47 PM to 5:33:04 PM

<u>CAS</u>	<u>Stops</u>
19.6	2
4.9	0

19.5	0
4.4	0

10	1.5
1.5	0.7

9.4	0.5
0.3	0.7

10.2	1
2	1.4

11.3	1.5
3.7	2.1

13.3	0
4.2	0

14.7	0
4.2	0

17.5	0
4.1	0

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17.4	1.5
3.7	0.7

18.4	0.5
3.8	0.7

18.9	0
3.8	0

19.6	0.5
3.9	0.7

19.9	0
3.8	0

20.1	1
3.7	0

I ↑Contents

<u>CAS</u>	<u>Stops</u>
23	2
22.7	0
9	1
9.6	0
11.6	0
13.9	0
16.2	0
17.7	0
20.4	0
19.9	1
21	0
21.6	0
22.4	0
22.6	0
22.7	1

I ↑Contents

<u>CAS</u>	<u>Stops</u>
16.1	2
16.4	0
11	2
9.2	1
8.7	2
8.7	3
10.3	0
11.7	0
14.7	0
14.8	2
15.7	1
16.2	0
16.8	1
17.3	0
17.5	1

| ↑Contents

| ↑Contents

Travel Time & Delay Report for Kingwood Dr.

Legend:

TT:

Summarized Travel Time from previous Node (seconds)

CTT:

Summarized Cumulative Travel Time since beginning of Run (seconds)

TL:

Summarized Travel Distance from previous Node (feet)

CTL:

Summarized Cumulative Travel Distance since beginning of Run (feet)

StopD:

Summarized Stopped Delay, or Time spent Waiting in Queue while traveling from previous Node (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

CStopD:

Summarized Cumulative Stopped Delay since beginning of Run (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

BS1T:

Summarized Time spent Below Speed #1 (10 mph) while traveling from previous Node (seconds)

CBS1T:

Summarized Cumulative Time spent Below Speed #1 (10 mph) since beginning of Run (seconds)

AS:

Summarized Actual Average Speed from previous Node (mph) = TL/TT

CAS:

Summarized Cumulative Actual Average Speed since beginning of Run (mph) = CTL/CTT

Stops:

Summarized Number of Stops in Travel from previous Node. A "Stop" is counted when the speed drops below 5 mph after exceeding 15 mph

Summary of runs Westbound from Mills Branch Dr. (#1)

Before-type runs, 2 of unverifiable origin, collected Thursday 9/11/2014 to Thursday 9/11/2014, over day(s) Thu, with starting times during 5:09:55 PM to 6:00:52 PM

Node	TT	CTT	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to High Valley Dr. (#2)											
Average Before (n=2)	51	51	1379	1379	19	19	20	20	22.2	22.2	0.5
Std Dev Before (n=2)	29	29	13	13	27	27	28	28	12.5	12.5	0.7
to Willow Terrace Dr. (#3)											
Average Before (n=2)	65	116	1644	3023	28	47	29	49	17.9	19.4	1
Std Dev Before (n=2)	19	48	18	31	20	48	20	48	5	7.8	0
to Timber Shade Dr. (#4)											
Average Before (n=2)	54	170	2841	5864	0	47	0	49	36	24.3	0
Std Dev Before (n=2)	5	43	10	40	0	48	0	48	3.4	6	0
to Forest Garden Dr. (#5)											
Average Before (n=2)	55	225	1984	7849	18	66	18	67	28.9	23.9	0.5

<i>Std Dev Before (n=2)</i>	30	13	21	19	26	22	26	21	15.5	1.3	0.7
to W. Lake Houston Pkwy. (#6)											
<i>Average Before (n=2)</i>	159	384	3553	11402	85	151	87	154	15.5	20.4	1.5
<i>Std Dev Before (n=2)</i>	32	44	12	31	32	54	33	54	3	2.3	0.7
to Valley Manor Dr. (#7)											
<i>Average Before (n=2)</i>	87	471	4873	16275	0	151	0	154	38.3	23.7	0
<i>Std Dev Before (n=2)</i>	5	50	2	28	0	54	0	54	2.4	2.5	0
to Woodland Hills Dr. (#8)											
<i>Average Before (n=2)</i>	147	618	6459	22734	29	181	30	184	30	25.2	1
<i>Std Dev Before (n=2)</i>	5	45	7	21	3	50	4	50	1	1.8	0
to Woodland Grove Dr. (#9)											
<i>Average Before (n=2)</i>	101	719	2771	25506	39	220	42	226	18.7	24.2	1
<i>Std Dev Before (n=2)</i>	8	37	6	15	5	46	6	45	1.5	1.2	0
to Green Oak Dr. (#10)											
<i>Average Before (n=2)</i>	55	774	2874	28379	0	220	0	226	35.9	25	0
<i>Std Dev Before (n=2)</i>	4	33	43	27	0	46	0	45	2.1	1.1	0
to Chestnut Ridge Rd. (#11)											
<i>Average Before (n=2)</i>	102	876	2422	30802	50	270	50	275	16.2	24	1
<i>Std Dev Before (n=2)</i>	6	39	37	9	16	61	13	58	0.7	1	0
to Royal Forest Dr. (#12)											
<i>Average Before (n=2)</i>	55	931	1768	32570	14	284	9	284	24.2	23.9	0.5
<i>Std Dev Before (n=2)</i>	23	61	1	8	20	82	12	70	10.1	1.6	0.7
to Loop 494 (#13)											
<i>Average Before (n=2)</i>	15	946	541	33111	0	284	0	284	24	23.9	0
<i>Std Dev Before (n=2)</i>	1	63	2	9	0	82	0	70	1.9	1.6	0
to US 59 NBFR (#14)											
<i>Average Before (n=2)</i>	73	1019	1384	34495	46	330	47	331	23.5	23.3	0.5
<i>Std Dev Before (n=2)</i>	70	133	32	42	66	147	66	136	22.2	3	0.7
to US 59 SBFR (#15)											
<i>Average Before (n=2)</i>	6	1025	291	34786	0	330	0	331	36.2	23.3	0
<i>Std Dev Before (n=2)</i>	1	134	1	41	0	147	0	136	9.3	3	0
to Sorters Rd. (#16)											

Average Before (n=2)	78	1103	3316	38102	10	340	11	341	28.9	23.7	2
Std Dev Before (n=2)	1	133	1	40	1	148	1	137	0.5	2.8	0

9:45:55 AM

Travel Time & Delay Report for Kingwood Dr.

Contents:

[\(imported\) WB PM #1, \(imported\) WB PM #2, Cumulative Reports](#)
[Collapse All](#)

[-] Before-type Trip Log "(imported) WB PM #1", PM-period, started Thursday 9/11/2014 5:09:20 PM ↑Contents

Entered artery 5:09:55 pm (36 seconds) traveling Westbound from Mills Branch Dr. (#1)

Node	II	CTI	IL	CTL	StopD	CStopD	BS1I	CBS1I	AS	CAS	Stops
to High Valley Dr. (#2)	71	71	1389	1389	39	39	39	39	13.3	13.3	1
to Willow Terrace Dr. (#3)	78	149	1656	3045	42	81	43	82	14.4	13.9	1
to Timber Shade Dr. (#4)	51	200	2848	5893	0	81	0	82	38.4	20.1	0
to Forest Garden Dr. (#5)	34	234	1969	7862	0	81	0	82	39.9	22.9	0
to W. Lake Houston Pkwy. (#6)	182	415	3561	11424	108	189	110	192	13.4	18.8	2
to Valley Manor Dr. (#7)	91	506	4872	16295	0	189	0	192	36.6	21.9	0
to Woodland Hills Dr. (#8)	143	650	6454	22749	27	216	28	220	30.7	23.9	1
to Woodland Grove Dr. (#9)	95	745	2767	25516	35	252	38	257	19.8	23.3	1
to Green Oak Dr. (#10)	52	797	2844	28360	0	252	0	257	37.3	24.3	0
to Chestnut Ridge Rd. (#11)	106	903	2448	30808	61	313	59	316	15.7	23.3	1
to Royal Forest Dr. (#12)	71	974	1767	32576	29	342	17	334	17	22.8	1
to Loop 494 (#13)	16	990	542	33118	0	342	0	334	22.6	22.8	0
to US 59 NBFR (#14)	122	1113	1407	34525	93	434	93	427	7.8	21.2	1

to US 59 SBFR (#15)	7	1119	290	34815	0	434	0	427	29.6	21.2	0
to Sorters Rd. (#16)	77	1197	3315	38130	11	445	11	438	29.3	21.7	2

[-] Before-type Trip Log "(imported) WB PM #2", PM-period, started Thursday 9/11/2014 6:00:33 PM ↑Contents

Entered artery 6:00:52 pm (20 seconds) traveling Westbound from Mills Branch Dr. (#1)

Node	IT	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to High Valley Dr. (#2)	30	30	1370	1370	0	0	0	0	31.1	31.1	0
to Willow Terrace Dr. (#3)	52	82	1632	3002	14	14	15	15	21.4	24.9	1
to Timber Shade Dr. (#4)	57	140	2834	5836	0	14	0	15	33.6	28.5	0
to Forest Garden Dr. (#5)	76	216	1999	7835	37	50	37	52	17.9	24.8	1
to W. Lake Houston Pkwy. (#6)	137	352	3545	11380	63	113	63	115	17.7	22	1
to Valley Manor Dr. (#7)	83	436	4875	16255	0	113	0	115	40	25.4	0
to Woodland Hills Dr. (#8)	151	586	6464	22719	32	145	33	148	29.3	26.4	1
to Woodland Grove Dr. (#9)	107	693	2776	25495	42	187	46	194	17.7	25.1	1
to Green Oak Dr. (#10)	58	751	2904	28399	0	187	0	194	34.4	25.8	0
to Chestnut Ridge Rd. (#11)	98	849	2397	30795	39	226	40	235	16.7	24.7	1
to Royal Forest Dr. (#12)	39	887	1769	32565	0	226	0	235	31.3	25	0
to Loop 494 (#13)	15	902	540	33105	0	226	0	235	25.3	25	0
to US 59 NBFR (#14)	24	925	1361	34466	0	226	0	235	39.3	25.4	0
to US 59 SBFR (#15)	5	930	291	34757	0	226	0	235	42.7	25.5	0
to Sorters Rd. (#16)	79	1009	3316	38074	10	236	10	245	28.6	25.7	2

Cumulative Reports

[-] Before-type Trip Log "(imported) WB PM #1", PM-period, started Thursday 9/11/2014 5:09:20 PM ↑Contents

tery 5:09:55 pm (36 seconds) traveling Westbound from Mills Bran

Node	CTI	CTL	CStopD	CBS1T	CAS
------	---------------------	---------------------	------------------------	-----------------------	---------------------

to Sorters Rd. (#16)	1197	38130	445	438	21.7
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[.] Before-type Trip Log "(imported) WB PM #2", PM-period, started Thursday 9/11/2014 6:00:33 PM ↑Contents

tery 6:00:52 pm (20 seconds) traveling Westbound from Mills Bran

Node	CTI	CTL	CStopD	CBS1T	CAS
to Sorters Rd. (#16)	1009	38074	236	245	25.7

Cumulative Time spent Below Speed #1 (10 mph) since beginning of Run (seconds)

Raghu Veturi

From: Raghu Veturi
Sent: Monday, June 09, 2014 9:06 PM
To: 'Smart, Allie - CNL'; Ramesh Gunda
Cc: Martin, Dave - CNL; 'stan.sarman@gmail.com'
Subject: RE: Kingwood Mobility Study Comments...

Allie,

We will review and consider this information when evaluating improvement alternatives.

Thank you,
Raghu.

From: Smart, Allie - CNL [mailto:Allie.Smart@houstontx.gov]
Sent: Friday, June 06, 2014 11:29 AM
To: Ramesh Gunda; Raghu Veturi
Cc: Martin, Dave - CNL
Subject: Kingwood Mobility Study Comments...

Ramesh,

Council Member Martin and I met with Ralph this morning and he suggested I send the below comments to you about the signalization timing in Kingwood. Council Member Martin believes that the timing is one of the main issues is the timing of lights.

See below... let me know your thoughts or if you will take this into consideration when developing the proposals.

Thanks,
Allie Smart
Chief of Staff & Agenda Director
Office of Council Member Dave Martin
District E
832.393.3008-office
832.393.3279-fax
Allie.Smart@houstontx.gov
[Subscribe to our e-newsletter!](#)

Follow Council Member Martin on:



From: Johana Clark [mailto:Johana.Clark@houstontranstar.org]
Sent: Monday, June 02, 2014 9:25 AM
To: Weatherford, Jeffrey - PWE
Subject: RE: Kingwood Mobility Study Comments...

Jeff,

We have been monitoring Kingwood past few weeks in response to this request. Travel times collected during peak hours show acceptable levels with average 9'-50" to 11'-30" AM Peak (7-8 AM) westbound and 11'-30" to 12'-20" PM Peak (5-6 PM) eastbound [US-59 - West Lake Houston section]. These times are pretty consistent with previous runs completed. Still a few locations were found with detection issues that are currently being worked out with Signal Maintenance and temporary timing adjustments implemented to mitigate any impact. As you know, we are running here maximum cycles of 144" and 150" during peak hours. Any increase is estimated to generate major delays for which side street traffic will not probably be content about nor will allow us to move traffic more efficiently.

Please let me know if further details are needed.

Thanks,

Johana E. Clark, P.E., PTOE
Supervising Engineer
Public Works & Engineering
Traffic Operations Division
Houston TranStar
713-881-3179 Office
713-304-3512 Mobile
713-881-3171 Fax

>>> "Weatherford, Jeffrey - PWE" <Jeffrey.Weatherford@houstontx.gov> 5/15/2014 11:08 AM >>>

The lights are timed correctly. We already minimize the green time for the minor streets as it is. In general, we try to give as much available time to Kingwood Drive as is possible and in some cases on minor intersections have even tried to double cycle the intersection rather than just increase the delay on the side streets. The problem is not how the signals are timed, but in the number of unnecessary traffic signals and the irregular spacing coupled with insufficient capacity. I could improve the signal progression on Kingwood Drive greatly by beginning to remove unwarranted traffic signals. Since that's probably not going to happen, I think we're pretty much stuck where we are. As I've said many times, you can't get 5 gallons of traffic into a 1 gallon intersection. The theoretical capacity of Kingwood Drive as currently designed is optimally about 33,000 vehicles per day. The traffic volumes that we have on file show that Kingwood Drive from US 59 to West Lake Houston Pkwy exceeds this optimal maximum volume. The segment between Loop 494 and Woodland Hills is around 41,000 vehicles per day. That is in the 8 lane range of volumes, not 6. You can't fix capacity issues with signal timing.

With that said, I will ask my signal engineer to have her staff make sure that everything is still optimized for Kingwood, but I do not expect much if any improvement.

From: Smart, Allie - CNL
Sent: Thursday, May 15, 2014 10:56 AM
To: Weatherford, Jeffrey - PWE
Cc: Martin, Dave - CNL
Subject: FW: Kingwood Mobility Study Comments...

Jeff,

I know we have discussed in the past.... Is there anything that can be done at this time?

Allie Smart
Chief of Staff & Agenda Director
Office of Council Member Dave Martin
District E
832.393.3008-office

832.393.3279-fax

Allie.Smart@houstontx.gov

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Follow Council Member Martin on:



From: Martin, David P [<mailto:David.P.Martin@marsh.com>]

Sent: Thursday, May 15, 2014 8:25 AM

To: Smart, Allie - CNL; dave.p.martin@hotmail.com

Subject: RE: Kingwood Mobility Study Comments...

Can you check with Jeff and see if there is a way to LENGTHEN the green light time on KW Dr. from front to back.

For instance - - - the green light times for KW Dr. should be doubled, except for the intersections at KW Dr. @ both Woodland Hills Dr. and W. Lake Houston Dr.

We could do this and see what the results tell us. We can add a hundred lanes, but if the lights are not timed correctly, your commute time down KW Dr. will NOT improve unless the lights are synchronized AND timed to allow the flow of traffic on KW. Dr. to move.

DM

From: Smart, Allie - CNL [<mailto:Allie.Smart@houstontx.gov>]

Sent: Wednesday, May 14, 2014 7:14 PM

To: Martin, David P; dave.p.martin@hotmail.com

Subject: Fwd: Kingwood Mobility Study Comments...

Begin forwarded message:

From: "priority@kingwood.com" <priority@kingwood.com>
Date: May 14, 2014 at 6:44:53 PM CDT
To: "kingwoodmobility@gundacorp.com" <kingwoodmobility@gundacorp.com>
Cc: "priority@kingwood.com" <priority@kingwood.com>
Subject: Kingwood Mobility Study Comments...
Reply-To: "Kirk.boswell@gmail.com" <Kirk.boswell@gmail.com>

Name: Kirk Boswell

Email: Kirk.boswell@gmail.com

Phone: 713-594-2382

Address: 4119 Brook Shadow Dr, Kingwood

IP Address: 75.108.195.208

COMMENTS / FEEDBACK:

Please consider adding more lanes to Kingwood Drive and Northpark. Also, please consider a study on light lengths and timing during morning and afternoon commuting times. Often times it seems as though the light length of both these streets at the 59 and 494 intersections are the reasons for backups during morning commute hours.

Poll Question: Do you support adding additional lanes to Kingwood Drive?:
Answer: Yes

Confirmation #: GYY8N
Submitted: 05/14/2014 6:44pm

** This email was sent from Kirk Boswell through the [Kingwood.com](http://www.kingwood.com) web site, here:
<http://www.kingwood.com/mobility>

337955

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Travel Time & Delay Report for Northpark Dr.

Legend:

TT:

Summarized Travel Time from previous Node (seconds)

CTT:

Summarized Cumulative Travel Time since beginning of Run (seconds)

TL:

Summarized Travel Distance from previous Node (feet)

CTL:

Summarized Cumulative Travel Distance since beginning of Run (feet)

StopD:

Summarized Stopped Delay, or Time spent Waiting in Queue while traveling from previous Node (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

CStopD:

Summarized Cumulative Stopped Delay since beginning of Run (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

BS1T:

Summarized Time spent Below Speed #1 (10 mph) while traveling from previous Node (seconds)

CBS1T:

Summarized Cumulative Time spent Below Speed #1 (10 mph) since beginning of Run (seconds)

AS:

Summarized Actual Average Speed from previous Node (mph) = TL/TT

CAS:

Summarized Cumulative Actual Average Speed since beginning of Run (mph) = CTL/CTT

Stops:

Summarized Number of Stops in Travel from previous Node. A "Stop" is counted when the speed drops below 5 mph after exceeding 15 mph

Summary of runs Eastbound from Sorters Rd. (#10)

1 Before-type runs, 1 of unverifiable origin, collected Wednesday 9/10/2014 to Wednesday 9/10/2014, over day(s) Wed, with starting times during 6:56:52 AM to 6:56:52 AM

Node	TI	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to US 59 SBFR (#9)											
Average Before (n=1)	224	224	5649	5649	200	200	84	84	17.2	17.2	1
Std Dev Before (n=1)	0	0	0	0	0	0	0	0	0	0	0
to US 59 NBFR (#8)											
Average Before (n=1)	7	231	287	5936	0	200	0	84	29.3	17.5	0
Std Dev Before (n=1)	0	0	0	0	0	0	0	0	0	0	0
to Loop 494 (#7)											
Average Before (n=1)	65	296	1669	7605	29	230	29	113	17.5	17.5	1
Std Dev Before (n=1)	0	0	0	0	0	0	0	0	0	0	0
to Russell Palmer Rd. (#6)											
Average Before (n=1)	109	405	4498	12103	30	260	30	143	28.1	20.4	1
Std Dev Before (n=1)	0	0	0	0	0	0	0	0	0	0	0
to Woodland Hills Dr. (#5)											
Average Before (n=1)	157	562	5151	17254	67	327	67	211	22.4	20.9	1
Std Dev Before (n=1)	0	0	0	0	0	0	0	0	0	0	0
to Brookdale Dr. (#4)											
Average Before (n=1)	77	639	4693	21947	0	327	0	211	41.8	23.4	0
Std Dev Before (n=1)	0	0	0	0	0	0	0	0	0	0	0
to W. Lake Houston Pkwy. (#3)											
Average Before (n=1)	44	683	2658	24605	0	327	0	211	41.1	24.6	0
Std Dev Before (n=1)	0	0	0	0	0	0	0	0	0	0	0
to Rock Springs Dr. (#2)											
Average Before (n=1)	53	736	3166	27771	0	327	0	211	40.7	25.7	0
Std Dev Before (n=1)	0	0	0	0	0	0	0	0	0	0	0
to Mills Branch Rd. (#1)											
Average Before (n=1)	149	885	4445	32216	10	337	23	233	20.3	24.8	2
Std Dev Before (n=1)	0	0	0	0	0	0	0	0	0	0	0

Contents:

[\(imported\) david am unit 15, \(imported\) david am unit 15, Cumulative Reports](#)

[\[-\] Collapse All](#)

[\[-\] Before-type Trip Log "\(imported\) david am unit 15", AM-period, started Wednesday 9/10/2014 6:44:22 AM](#) [↑Contents](#)

Entered artery 6:56:52 am (750 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	TI	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to US 59 SBFR (#9)	224	224	5649	5649	200	200	84	84	17.2	17.2	1
to US 59 NBFR (#8)	7	231	287	5936	0	200	0	84	29.3	17.5	0
to Loop 494 (#7)	65	296	1669	7605	29	230	29	113	17.5	17.5	1
to Russell Palmer Rd. (#6)	109	405	4498	12103	30	260	30	143	28.1	20.4	1
to Woodland Hills Dr. (#5)	157	562	5151	17254	67	327	67	211	22.4	20.9	1
to Brookdale Dr. (#4)	77	639	4693	21947	0	327	0	211	41.8	23.4	0
to W. Lake Houston Pkwy. (#3)	44	683	2658	24605	0	327	0	211	41.1	24.6	0
to Rock Springs Dr. (#2)	53	736	3166	27771	0	327	0	211	40.7	25.7	0
to Mills Branch Rd. (#1)	149	885	4445	32216	10	337	23	233	20.3	24.8	2

[\[-\] Before-type Trip Log "\(imported\) david am unit 15", AM-period, started Wednesday 9/10/2014 7:36:23 AM](#) [↑Contents](#)

n (147 seconds) traveling Eastbound from US 59 SBFR (#9)

Node	TI	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to US 59 NBFR (#8)	8	8	286	286	0	0	0	0	23.1	23.1	0
to Loop 494 (#7)	68	77	1692	1978	33	33	33	33	16.9	17.6	1
to Russell Palmer Rd. (#6)	109	186	4487	6465	27	60	27	60	28	23.7	1
to Woodland Hills Dr. (#5)	212	398	5123	11588	112	172	111	171	16.5	19.8	2
to Brookdale Dr. (#4)	129	527	4704	16291	42	214	42	213	24.9	21.1	1
to W. Lake Houston Pkwy. (#3)	89	615	2691	18982	31	245	31	244	20.7	21	1
to Rock Springs Dr. (#2)	97	712	3206	22188	40	285	41	285	22.5	21.2	1
to Mills Branch Rd. (#1)	153	865	4133	26321	8	293	13	298	18.5	20.7	1

Cumulative Reports

[\[-\] Before-type Trip Log "\(imported\) david am unit 15", AM-period, started Wednesday 9/10/2014 6:44:22 AM](#) [↑Contents](#)

Entered artery 6:56:52 am (750 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	CTI	CTL	CStopD	CBS1T	CAS
to Mills Branch Rd. (#1)	885	32216	337	233	24.8

[\[-\] Before-type Trip Log "\(imported\) david am unit 15", AM-period, started Wednesday 9/10/2014 7:36:23 AM](#) [↑Contents](#)

Entered artery 7:38:50 am (147 seconds) traveling Eastbound from US 59 SBFR (#9)

Node	CTI	CTL	CStopD	CBS1T	CAS
to Mills Branch Rd. (#1)	865	26321	293	298	20.7

Travel Time & Delay Report for Northpark Dr.

Legend:

TT:

Summarized Travel Time from previous Node (seconds)

CTT:

Summarized Cumulative Travel Time since beginning of Run (seconds)

TL:

Summarized Travel Distance from previous Node (feet)

CTL:

Summarized Cumulative Travel Distance since beginning of Run (feet)

StopD:

Summarized Stopped Delay, or Time spent Waiting in Queue while traveling from previous Node (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

CStopD:

Summarized Cumulative Stopped Delay since beginning of Run (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

BS1T:

Summarized Time spent Below Speed #1 (10 mph) while traveling from previous Node (seconds)

CBS1T:

Summarized Cumulative Time spent Below Speed #1 (10 mph) since beginning of Run (seconds)

AS:

Summarized Actual Average Speed from previous Node (mph) = TL/TT

CAS:

Summarized Cumulative Actual Average Speed since beginning of Run (mph) = CTL/CTT

Stops:

Summarized Number of Stops in Travel from previous Node. A "Stop" is counted when the speed drops below 5 mph after exceeding 15 mph

Summary of runs Westbound from Mills Branch Rd. (#1)

3 Before-type runs, 3 of unverifiable origin, collected Wednesday 9/10/2014 to Wednesday 9/10/2014, over day(s) Wed, with starting times during 7:11:37 AM to 11:32:26 AM

Node	<u>TT</u>	<u>CTT</u>	<u>TL</u>	<u>CTL</u>	<u>StopD</u>	<u>CStopD</u>	<u>BS1T</u>	<u>CBS1T</u>	<u>AS</u>	<u>CAS</u>	<u>Stops</u>
to Rock Springs Dr. (#2)											
Average Before (n=3)	54	54	1859	1859	12	12	14	14	24.3	24.3	1
Std Dev Before (n=3)	12	12	63	63	13	13	13	13	5.1	5.1	1
to W. Lake Houston Pkwy. (#3)											
Average Before (n=3)	70	124	3106	4965	10	22	10	24	31.9	28.1	0.3
Std Dev Before (n=3)	21	26	30	58	17	20	17	21	8	5.5	0.6
to Brookdale Dr. (#4)											
Average Before (n=3)	69	193	2620	7584	21	43	21	45	30.2	27.1	0.3
Std Dev Before (n=3)	36	23	17	42	36	19	37	19	12.2	3.5	0.6
to Woodland Hills Dr. (#5)											
Average Before (n=3)	201	394	4770	12355	106	149	103	148	20.9	22.5	2
Std Dev Before (n=3)	136	114	44	85	127	115	122	109	10.7	5.7	1.7
to Russell Palmer Rd. (#6)											
Average Before (n=3)	110	504	5109	17464	11	160	11	159	32.6	24.1	0.7
Std Dev Before (n=3)	22	93	14	84	10	104	10	98	7.1	4	0.6
to Loop 494 (#7)											
Average Before (n=3)	230	734	4475	21939	108	268	113	272	14	20.7	2.7
Std Dev Before (n=3)	71	110	36	49	56	121	65	121	3.8	3.4	1.5
to US 59 NBFR (#8)											
Average Before (n=3)	70	804	1671	23609	21	289	23	296	18.7	20.2	0.7
Std Dev Before (n=3)	34	79	22	71	23	105	25	102	7.8	2.1	0.6
to US 59 SBFR (#9)											
Average Before (n=3)	7	811	285	23894	0	289	0	296	31.2	20.2	0
Std Dev Before (n=3)	2	77	2	72	0	105	0	102	8.6	2	0
to Sorters Rd. (#10)											
Average Before (n=3)	116	926	5288	29182	20	309	20	316	31.4	21.6	1
Std Dev Before (n=3)	13	81	10	72	10	112	10	107	3.5	1.9	0

Contents:

(imported) david am unit 15, (imported) david am unit 15, (imported) unit 14 billy am, Cumulative Reports

[\[-\] Collapse All](#)

[-] Before-type Trip Log "(imported) david am unit 15", AM-period, started Wednesday 9/10/2014 6:44:22 AM [↑Contents](#)

Entered artery 6:44:22 am (1 seconds) traveling Westbound from Rock Springs Dr. (#2)

Node	IT	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to W. Lake Houston Pkwy. (#3)	56	56	3104	3104	0	0	0	0	37.7	37.7	0
to Brookdale Dr. (#4)	42	98	2614	5718	0	0	0	0	42.7	39.8	0
to Woodland Hills Dr. (#5)	117	214	4896	10614	17	17	18	18	28.6	33.7	1

Entered artery 6:49:16 am (295 seconds) traveling Westbound from Woodland Hills Dr. (#5)

Node	IT	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to Russell Palmer Rd. (#6)	91	91	5096	5096	0	0	0	0	38.1	38.1	0
to Loop 494 (#7)	206	297	4494	9590	105	105	99	99	14.9	22	2
to US 59 NBFR (#8)	36	334	1647	11237	0	105	0	99	30.8	22.9	0
to US 59 SBFR (#9)	5	339	285	11522	0	105	0	99	36	23.2	0
to Sorters Rd. (#10)	106	445	5203	16724	13	118	14	113	33.5	25.6	1

Entered artery 7:11:37 am (1635 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	IT	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to Rock Springs Dr. (#2)	65	65	1928	1928	25	25	27	27	20.3	20.3	2
to W. Lake Houston Pkwy. (#3)	57	122	3084	5012	0	25	0	27	36.8	28	0
to Brookdale Dr. (#4)	45	167	2611	7623	0	25	0	27	39.4	31.1	0
to Woodland Hills Dr. (#5)	357	524	4819	12441	252	277	242	269	9.2	16.2	4
to Russell Palmer Rd. (#6)	85	609	5099	17540	0	277	0	269	40.7	19.6	0
to Loop 494 (#7)	206	815	4447	21987	97	374	98	367	14.7	18.4	3
to US 59 NBFR (#8)	58	873	1690	23677	18	392	20	387	19.8	18.5	1
to US 59 SBFR (#9)	6	878	285	23962	0	392	0	387	35	18.6	0
to Sorters Rd. (#10)	128	1006	5281	29243	31	423	31	418	28.2	19.8	1

[-] Before-type Trip Log "(imported) david am unit 15", AM-period, started Wednesday 9/10/2014 7:36:23 AM [↑Contents](#)

Entered artery 7:53:23 am (1021 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	IT	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to Rock Springs Dr. (#2)	41	41	1805	1805	0	0	2	2	30	30	0
to W. Lake Houston Pkwy. (#3)	58	99	3094	4900	0	0	0	2	36.3	33.7	0
to Brookdale Dr. (#4)	110	210	2640	7540	63	63	63	65	16.3	24.5	1
to Woodland Hills Dr. (#5)	140	349	4732	12271	49	112	50	115	23.1	23.9	1
to Russell Palmer Rd. (#6)	120	469	5103	17374	12	124	14	129	29.1	25.3	1
to Loop 494 (#7)	310	779	4515	21889	169	293	184	313	9.9	19.2	4
to US 59 NBFR (#8)	43	822	1646	23536	0	293	0	313	25.9	19.5	0
to US 59 SBFR (#9)	5	827	283	23818	0	293	0	313	37.2	19.6	0
to Sorters Rd. (#10)	103	930	5284	29102	12	305	12	325	35.1	21.3	1

[-] Before-type Trip Log "(imported) unit 14 billy am", AM-period, started Wednesday 9/10/2014 11:29:03 AM [↑Contents](#)

Entered artery 11:32:26 am (203 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	IT	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to Rock Springs Dr. (#2)	56	56	1842	1842	11	11	13	13	22.5	22.5	1
to W. Lake Houston Pkwy. (#3)	94	150	3140	4982	29	40	30	44	22.7	22.6	1
to Brookdale Dr. (#4)	51	201	2608	7590	0	40	0	44	34.8	25.7	0
to Woodland Hills Dr. (#5)	107	309	4761	12351	17	57	16	60	30.3	27.3	1
to Russell Palmer Rd. (#6)	125	434	5125	17476	21	77	20	80	27.9	27.5	1
to Loop 494 (#7)	175	608	4463	21940	59	137	56	136	17.4	24.6	1
to US 59 NBFR (#8)	109	717	1676	23616	45	182	50	186	10.5	22.5	1
to US 59 SBFR (#9)	9	726	286	23902	0	182	0	186	21.3	22.4	0
to Sorters Rd. (#10)	117	843	5300	29201	17	198	18	204	30.9	23.6	1

Cumulative Reports

[\[-\] Before-type Trip Log "\(imported\) david am unit 15", AM-period, started Wednesday 9/10/2014 6:44:22 AM](#) ↑Contents

Entered artery 6:44:22 am (1 seconds) traveling Westbound from Rock Springs Dr. (#2)

Node	CTI	CTL	CStopD	CBSIT	CAS
to Woodland Hills Dr. (#5)	214	10614	17	18	33.7
to Sorters Rd. (#10)	445	16724	118	113	25.6
to Sorters Rd. (#10)	1006	29243	423	418	19.8

[\[-\] Before-type Trip Log "\(imported\) david am unit 15", AM-period, started Wednesday 9/10/2014 7:36:23 AM](#) ↑Contents

Entered artery 7:53:23 am (1021 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	CTI	CTL	CStopD	CBSIT	CAS
to Sorters Rd. (#10)	930	29102	305	325	21.3

[\[-\] Before-type Trip Log "\(imported\) unit 14 billy am", AM-period, started Wednesday 9/10/2014 11:29:03 AM](#) ↑Contents

Entered artery 11:32:26 am (203 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	CTI	CTL	CStopD	CBSIT	CAS
to Sorters Rd. (#10)	843	29201	198	204	23.6

Travel Time & Delay Report for Northpark Dr.

Legend:

TT:

Summarized Travel Time from previous Node (seconds)

CTT:

Summarized Cumulative Travel Time since beginning of Run (seconds)

TL:

Summarized Travel Distance from previous Node (feet)

CTL:

Summarized Cumulative Travel Distance since beginning of Run (feet)

StopD:

Summarized Stopped Delay, or Time spent Waiting in Queue while traveling from previous Node (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

CStopD:

Summarized Cumulative Stopped Delay since beginning of Run (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

BS1T:

Summarized Time spent Below Speed #1 (10 mph) while traveling from previous Node (seconds)

CBS1T:

Summarized Cumulative Time spent Below Speed #1 (10 mph) since beginning of Run (seconds)

AS:

Summarized Actual Average Speed from previous Node (mph) = TL/TT

CAS:

Summarized Cumulative Actual Average Speed since beginning of Run (mph) = CTL/CTT

Stops:

Summarized Number of Stops in Travel from previous Node. A "Stop" is counted when the speed drops below 5 mph after exceeding 15 mph

Summary of runs Eastbound from Sorters Rd. (#10)

6 Before-type runs, 6 of unverifiable origin, collected Wednesday 9/10/2014 to Wednesday 9/10/2014, over day(s) Wed, with starting times during 9:32:36 PM to 11:08:37 PM

Node	TI	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to US 59 SBFR (#9)											
Average Before (n=6)	139	139	5277	5277	45	45	45	45	27.7	27.7	0.8
Std Dev Before (n=6)	43	43	39	39	44	44	44	44	7.4	7.4	0.4
to US 59 NBFR (#8)											
Average Before (n=6)	8	148	288	5565	0	45	0	45	25.6	27.5	0
Std Dev Before (n=6)	3	45	8	41	0	44	0	44	7.8	7.4	0
to Loop 494 (#7)											
Average Before (n=6)	118	266	1722	7287	74	119	75	119	11.6	20.3	1.3
Std Dev Before (n=6)	54	90	65	96	54	89	52	87	4.6	6	0.5
to Russell Palmer Rd. (#6)											
Average Before (n=6)	97	362	4466	11754	13	132	13	133	33.9	23.2	0.5
Std Dev Before (n=6)	34	88	19	94	26	89	26	87	8.6	5.7	0.8
to Woodland Hills Dr. (#5)											
Average Before (n=6)	163	525	5114	16868	60	192	60	192	23.7	22.8	1.3
Std Dev Before (n=6)	54	118	37	108	47	116	47	114	8.5	5.2	0.5
to Brookdale Dr. (#4)											
Average Before (n=6)	82	607	4693	21561	0	192	0	192	39.1	24.9	0
Std Dev Before (n=6)	5	116	4	111	0	116	0	114	2.7	4.8	0
to W. Lake Houston Pkwy. (#3)											
Average Before (n=6)	98	705	2738	24299	45	237	45	237	19.7	24.1	1
Std Dev Before (n=6)	19	126	87	191	18	126	18	124	4.2	4.4	0
to Rock Springs Dr. (#2)											
Average Before (n=6)	60	765	3175	27474	3	240	4	241	36.9	25	0.3
Std Dev Before (n=6)	9	123	9	193	7	123	7	121	5.1	3.9	0.5
to Mills Branch Rd. (#1)											
Average Before (n=3)	157	908	4482	31840	37	263	46	270	20.1	23.9	2.7
Std Dev Before (n=3)	34	20	26	83	37	15	36	13	4.4	0.5	2.1

Contents:

(imported) unit 13 billy pm, (imported) unit 13 billy pm, (imported) unit 15 david mpm, (imported) unit 15 david mpm, Cumulative Reports

[\[-\] Collapse All](#)

[-] Before-type Trip Log "(imported) unit 13 billy pm", PM-period, started Wednesday 9/10/2014 9:26:32 PM ↑Contents

Entered artery 10:09:39 pm (2587 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	II	CTI	IL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to US 59 SBFR (#9)	147	147	5269	5269	45	45	46	46	24.4	24.4	1
to US 59 NBFR (#8)	7	154	284	5553	0	45	0	46	26.9	24.5	0
to Loop 494 (#7)	76	230	1669	7222	34	79	35	81	15	21.4	1
to Russell Palmer Rd. (#6)	107	337	4471	11693	15	93	14	94	28.5	23.7	1
to Woodland Hills Dr. (#5)	180	517	5109	16802	64	157	65	159	19.3	22.1	1
to Brookdale Dr. (#4)	79	596	4690	21492	0	157	0	159	40.6	24.6	0
to W. Lake Houston Pkwy. (#3)	101	697	2675	24168	44	202	46	205	18.1	23.6	1
to Rock Springs Dr. (#2)	51	747	3176	27343	0	202	0	205	42.9	24.9	0

[-] Before-type Trip Log "(imported) unit 13 billy pm", PM-period, started Wednesday 9/10/2014 10:25:42 PM ↑Contents

Entered artery 11:08:37 pm (2576 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	II	CTI	IL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to US 59 SBFR (#9)	217	217	5342	5342	128	128	127	127	16.8	16.8	1
to US 59 NBFR (#8)	13	230	285	5627	0	128	0	127	15.3	16.7	0
to Loop 494 (#7)	184	414	1746	7373	140	268	137	264	6.5	12.1	2
to Russell Palmer Rd. (#6)	73	487	4456	11830	0	268	0	264	41.6	16.6	0
to Woodland Hills Dr. (#5)	237	724	5188	17018	129	397	130	394	14.9	16	2
to Brookdale Dr. (#4)	74	798	4694	21712	0	397	0	394	43.2	18.5	0
to W. Lake Houston Pkwy. (#3)	122	920	2800	24512	66	464	68	461	15.7	18.2	1
to Rock Springs Dr. (#2)	64	984	3167	27679	4	467	4	466	33.9	19.2	1

[-] Before-type Trip Log "(imported) unit 15 david mpm", PM-period, started Wednesday 9/10/2014 9:31:03 PM ↑Contents

Entered artery 9:32:36 pm (92 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	II	CTI	IL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to US 59 SBFR (#9)	109	109	5289	5289	15	15	16	16	33.2	33.2	1
to US 59 NBFR (#8)	9	117	304	5593	0	15	0	16	23.9	32.5	0
to Loop 494 (#7)	73	190	1840	7433	27	42	29	46	17.3	26.7	1
to Russell Palmer Rd. (#6)	80	270	4456	11889	0	42	0	46	38	30	0
to Woodland Hills Dr. (#5)	95	365	5086	16975	6	48	7	53	36.3	31.7	1
to Brookdale Dr. (#4)	81	446	4700	21676	0	48	0	53	39.6	33.1	0
to W. Lake Houston Pkwy. (#3)	83	529	2887	24563	31	78	32	84	23.8	31.7	1
to Rock Springs Dr. (#2)	75	604	3184	27747	17	95	17	101	29	31.3	1

Entered artery 9:57:07 pm (1563 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	II	CTI	IL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to US 59 SBFR (#9)	138	138	5287	5287	43	43	43	43	26.1	26.1	1
to US 59 NBFR (#8)	9	147	285	5572	0	43	0	43	22.6	25.9	0
to Loop 494 (#7)	102	249	1694	7266	56	99	57	100	11.3	19.9	1
to Russell Palmer Rd. (#6)	161	410	4503	11769	65	164	65	165	19.1	19.6	2
to Woodland Hills Dr. (#5)	110	520	5099	16868	19	184	19	184	31.5	22.1	1
to Brookdale Dr. (#4)	89	609	4692	21561	0	184	0	184	36	24.1	0
to W. Lake Houston Pkwy. (#3)	103	712	2702	24263	52	235	51	235	17.9	23.2	1
to Rock Springs Dr. (#2)	55	767	3184	27447	0	235	0	235	39.5	24.4	0
to Mills Branch Rd. (#1)	160	928	4489	31935	22	257	37	272	19.1	23.5	2

Entered artery 10:28:02 pm (3419 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	II	CTI	IL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to US 59 SBFR (#9)	93	93	5230	5230	0	0	0	0	38.3	38.3	0
to US 59 NBFR (#8)	5	98	284	5514	0	0	0	0	39.2	38.3	0
to Loop 494 (#7)	84	182	1667	7181	44	44	45	45	13.6	27	1

to Russell Palmer Rd. (#6)	84	265	4456	11636	0	44	0	45	36.2	29.9	0
to Woodland Hills Dr. (#5)	202	468	5110	16746	99	144	95	140	17.2	24.4	2
to Brookdale Dr. (#4)	84	552	4689	21435	0	144	0	140	38	26.5	0
to W. Lake Houston Pkwy. (#3)	108	660	2687	24122	56	200	57	197	17	24.9	1
to Rock Springs Dr. (#2)	61	721	3179	27301	0	200	0	197	35.4	25.8	0
to Mills Branch Rd. (#1)	189	910	4504	31806	80	280	85	282	16.3	23.8	5

[\[-\] Before-type Trip Log "\(imported\) unit 15 david mpm", PM-period, started Wednesday 9/10/2014 10:59:19 PM](#) ↑Contents

Entered artery 10:59:48 pm (29 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	TI	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to US 59 SBFR (#9)	132	132	5246	5246	37	37	37	37	27.1	27.1	1
to US 59 NBFR (#8)	8	140	286	5532	0	37	0	37	25.6	27	0
to Loop 494 (#7)	190	330	1717	7249	145	182	144	181	6.2	15	2
to Russell Palmer Rd. (#6)	76	405	4456	11706	0	182	0	181	40.1	19.7	0
to Woodland Hills Dr. (#5)	151	556	5093	16798	42	225	42	224	23	20.6	1
to Brookdale Dr. (#4)	87	643	4691	21490	0	225	0	224	36.9	22.8	0
to W. Lake Houston Pkwy. (#3)	70	713	2675	24165	18	243	17	241	26.2	23.1	1
to Rock Springs Dr. (#2)	53	765	3161	27325	0	243	0	241	40.9	24.3	0
to Mills Branch Rd. (#1)	122	887	4454	31780	10	253	15	256	25	24.4	1

Cumulative Reports

[\[-\] Before-type Trip Log "\(imported\) unit 13 billy pm", PM-period, started Wednesday 9/10/2014 9:26:32 PM](#) ↑Contents

Entered artery 10:09:39 pm (2587 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	CTI	CTL	CStopD	CBS1T	CAS
to Rock Springs Dr. (#2)	747	27343	202	205	24.9

[\[-\] Before-type Trip Log "\(imported\) unit 13 billy pm", PM-period, started Wednesday 9/10/2014 10:25:42 PM](#) ↑Contents

Entered artery 11:08:37 pm (2576 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	CTI	CTL	CStopD	CBS1T	CAS
to Rock Springs Dr. (#2)	984	27679	467	466	19.2

[\[-\] Before-type Trip Log "\(imported\) unit 15 david mpm", PM-period, started Wednesday 9/10/2014 9:31:03 PM](#) ↑Contents

Entered artery 9:32:36 pm (92 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	CTI	CTL	CStopD	CBS1T	CAS
to Rock Springs Dr. (#2)	604	27747	95	101	31.3
to Mills Branch Rd. (#1)	928	31935	257	272	23.5
to Mills Branch Rd. (#1)	910	31806	280	282	23.8

[\[-\] Before-type Trip Log "\(imported\) unit 15 david mpm", PM-period, started Wednesday 9/10/2014 10:59:19 PM](#) ↑Contents

Entered artery 10:59:48 pm (29 seconds) traveling Eastbound from Sorters Rd. (#10)

Node	CTI	CTL	CStopD	CBS1T	CAS
to Mills Branch Rd. (#1)	887	31780	253	256	24.4

Travel Time & Delay Report for Northpark Dr.

Legend:

TT:

Summarized Travel Time from previous Node (seconds)

CTT:

Summarized Cumulative Travel Time since beginning of Run (seconds)

TL:

Summarized Travel Distance from previous Node (feet)

CTL:

Summarized Cumulative Travel Distance since beginning of Run (feet)

StopD:

Summarized Stopped Delay, or Time spent Waiting in Queue while traveling from previous Node (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

CStopD:

Summarized Cumulative Stopped Delay since beginning of Run (seconds). The "Stopped Delay" is counted from when the speed drops below 5 mph after exceeding 15 mph until it exceeds 15 mph once again

BS1T:

Summarized Time spent Below Speed #1 (10 mph) while traveling from previous Node (seconds)

CBS1T:

Summarized Cumulative Time spent Below Speed #1 (10 mph) since beginning of Run (seconds)

AS:

Summarized Actual Average Speed from previous Node (mph) = TL/TT

CAS:

Summarized Cumulative Actual Average Speed since beginning of Run (mph) = CTL/CTT

Stops:

Summarized Number of Stops in Travel from previous Node. A "Stop" is counted when the speed drops below 5 mph after exceeding 15 mph

Summary of runs Westbound from Mills Branch Rd. (#1)

5 Before-type runs, 5 of unverifiable origin, collected Wednesday 9/10/2014 to Wednesday 9/10/2014, over day(s) Wed, with starting times during 9:30:00 PM to 11:14:35 PM

Node	TT	CTT	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to Rock Springs Dr. (#2)											
Average Before (n=5)	49	49	1814	1814	12	12	13	13	27.6	27.6	1
Std Dev Before (n=5)	17	17	31	31	14	14	15	15	7.7	7.7	0.7
to W. Lake Houston Pkwy. (#3)											
Average Before (n=5)	62	111	3099	4912	8	20	8	21	36	31.2	0.2
Std Dev Before (n=5)	20	22	19	31	18	19	18	19	8	6	0.4
to Brookdale Dr. (#4)											
Average Before (n=5)	42	153	2610	7522	0	20	0	21	42.6	34.2	0
Std Dev Before (n=5)	3	23	3	32	0	19	0	19	3.4	5	0
to Woodland Hills Dr. (#5)											
Average Before (n=5)	82	234	4707	12229	0	20	1	22	39.7	36	0
Std Dev Before (n=5)	9	29	1	33	0	19	2	21	4.6	4.4	0
to Russell Palmer Rd. (#6)											
Average Before (n=5)	94	329	5103	17332	10	30	10	33	38	36.5	0.6
Std Dev Before (n=5)	17	45	7	37	11	27	11	29	7.7	5.1	0.5
to Loop 494 (#7)											
Average Before (n=5)	130	459	4468	21800	40	71	44	77	23.9	32.6	1.2
Std Dev Before (n=5)	22	35	9	38	16	22	20	24	3.8	2.6	0.4
to US 59 NBFR (#8)											
Average Before (n=5)	103	562	1677	23477	65	135	64	141	17.8	29	0.8
Std Dev Before (n=5)	63	79	25	44	59	52	59	52	13.7	4.5	0.8
to US 59 SBFR (#9)											
Average Before (n=5)	6	568	285	23761	0	135	0	141	31.9	29	0
Std Dev Before (n=5)	1	81	0	44	0	52	0	52	7.3	4.6	0
to Sorters Rd. (#10)											
Average Before (n=5)	114	682	5422	29184	25	160	20	161	33	29.5	1.2
Std Dev Before (n=5)	21	82	315	300	21	60	22	67	4.9	4	0.4

Contents:

(imported) unit 13 billy pm, (imported) unit 13 billy pm, (imported) unit 15 david mpm, (imported) unit 15 david mpm, Cumulative Reports

[\[-\] Collapse All](#)

[-] Before-type Trip Log "(imported) unit 13 billy pm", PM-period, started Wednesday 9/10/2014 9:26:32 PM ↑Contents

Entered artery 9:30:00 pm (208 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	TI	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to Rock Springs Dr. (#2)	76	76	1868	1868	36	36	37	37	16.7	16.7	2
to W. Lake Houston Pkwy. (#3)	56	132	3088	4957	0	36	0	37	37.9	25.6	0
to Brookdale Dr. (#4)	40	172	2609	7566	0	36	0	37	44.6	30	0
to Woodland Hills Dr. (#5)	81	252	4708	12273	0	36	0	37	39.9	33.1	0
to Russell Palmer Rd. (#6)	102	354	5104	17377	9	45	12	49	34.1	33.4	1
to Loop 494 (#7)	128	482	4477	21855	40	85	41	90	23.9	30.9	1
to US 59 NBFR (#8)	138	620	1696	23551	99	184	99	189	8.4	25.9	1
to US 59 SBFR (#9)	8	628	285	23835	0	184	0	189	24.4	25.9	0
to Sorters Rd. (#10)	146	774	5318	29153	59	243	60	249	24.8	25.7	1

[-] Before-type Trip Log "(imported) unit 13 billy pm", PM-period, started Wednesday 9/10/2014 10:25:42 PM ↑Contents

Entered artery 10:58:22 pm (1961 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	TI	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to Rock Springs Dr. (#2)	39	39	1802	1802	7	7	7	7	31.2	31.2	1
to W. Lake Houston Pkwy. (#3)	51	90	3100	4902	0	7	0	7	41.5	37	0
to Brookdale Dr. (#4)	38	128	2611	7513	0	7	0	7	47.4	40	0
to Woodland Hills Dr. (#5)	70	198	4707	12220	0	7	0	7	46	42.1	0
to Russell Palmer Rd. (#6)	69	267	5096	17316	0	7	0	7	50.3	44.2	0
to Loop 494 (#7)	140	407	4472	21788	62	69	68	75	21.8	36.5	1
to US 59 NBFR (#8)	33	440	1652	23440	0	69	0	75	34.4	36.4	0
to US 59 SBFR (#9)	5	444	285	23726	0	69	0	75	39.1	36.4	0
to Sorters Rd. (#10)	126	571	5984	29709	32	101	7	82	32.3	35.5	2

[-] Before-type Trip Log "(imported) unit 15 david mpm", PM-period, started Wednesday 9/10/2014 9:31:03 PM ↑Contents

Entered artery 9:52:42 pm (1299 seconds) traveling Westbound from Loop 494 (#7)

Node	TI	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to US 59 NBFR (#8)	33	33	1649	1649	0	0	0	0	33.8	33.8	0
to US 59 SBFR (#9)	6	39	284	1934	0	0	0	0	34.2	33.8	0
to Sorters Rd. (#10)	145	184	6178	8111	27	27	31	31	29	30.1	2

Entered artery 10:12:35 pm (2491 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	TI	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to Rock Springs Dr. (#2)	54	54	1797	1797	15	15	16	16	22.6	22.6	1
to W. Lake Houston Pkwy. (#3)	53	108	3079	4876	0	15	0	16	39.4	30.9	0
to Brookdale Dr. (#4)	42	150	2605	7481	0	15	0	16	41.9	34	0
to Woodland Hills Dr. (#5)	76	226	4707	12187	0	15	0	16	42.1	36.7	0
to Russell Palmer Rd. (#6)	86	312	5096	17283	0	15	0	16	40.4	37.7	0
to Loop 494 (#7)	162	474	4473	21756	50	66	61	77	18.8	31.3	2
to US 59 NBFR (#8)	159	633	1689	23445	118	184	115	192	7.2	25.2	2
to US 59 SBFR (#9)	7	641	284	23729	0	184	0	192	26.6	25.3	0
to Sorters Rd. (#10)	101	742	5268	28997	12	195	12	204	35.5	26.7	1

Entered artery 10:43:12 pm (4329 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	TI	CTI	TL	CTL	StopD	CStopD	BS1T	CBS1T	AS	CAS	Stops
to Rock Springs Dr. (#2)	36	36	1800	1800	0	0	1	1	34.5	34.5	0
to W. Lake Houston Pkwy. (#3)	53	89	3097	4897	0	0	0	1	39.5	37.5	0
to Brookdale Dr. (#4)	45	134	2613	7510	0	0	0	1	39.4	38.2	0
to Woodland Hills Dr. (#5)	88	222	4705	12216	0	0	0	1	36.5	37.5	0
to Russell Palmer Rd. (#6)	102	324	5106	17322	13	13	13	14	34.2	36.4	1
to Loop 494 (#7)	115	439	4459	21781	24	37	25	39	26.4	33.8	1

to US 59 NBFR (#8)	148	588	1699	23480	106	143	106	145	7.8	27.2	1
to US 59 SBFR (#9)	7	594	285	23765	0	143	0	145	28.9	27.3	0
to Sorters Rd. (#10)	99	693	5267	29032	11	154	11	156	36.2	28.5	1

[-] Before-type Trip Log "(imported) unit 15 david mpm", PM-period, started Wednesday 9/10/2014 10:59:19 PM ↑Contents

Entered artery 11:14:35 pm (916 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	<u>TI</u>	<u>CTI</u>	<u>TL</u>	<u>CTL</u>	<u>StopD</u>	<u>CStopD</u>	<u>BS1T</u>	<u>CBS1T</u>	<u>AS</u>	<u>CAS</u>	<u>Stops</u>
to Rock Springs Dr. (#2)	37	37	1800	1800	4	4	5	5	33.1	33.1	1
to W. Lake Houston Pkwy. (#3)	98	135	3130	4930	40	44	40	44	21.8	24.9	1
to Brookdale Dr. (#4)	45	180	2611	7541	0	44	0	44	39.9	28.6	0
to Woodland Hills Dr. (#5)	93	273	4709	12249	0	44	5	50	34.3	30.6	0
to Russell Palmer Rd. (#6)	113	386	5112	17361	26	70	27	77	30.9	30.7	1
to Loop 494 (#7)	106	492	4458	21819	26	96	26	103	28.6	30.2	1
to US 59 NBFR (#8)	36	528	1648	23467	0	96	0	103	31	30.3	0
to US 59 SBFR (#9)	5	533	285	23752	0	96	0	103	40.3	30.4	0
to Sorters Rd. (#10)	99	632	5276	29028	11	107	11	113	36.3	31.3	1

Cumulative Reports

[-] Before-type Trip Log "(imported) unit 13 billy pm", PM-period, started Wednesday 9/10/2014 9:26:32 PM ↑Contents

Entered artery 9:30:00 pm (208 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	<u>CTI</u>	<u>CTL</u>	<u>CStopD</u>	<u>CBS1T</u>	<u>CAS</u>
to Sorters Rd. (#10)	774	29153	243	249	25.7

[-] Before-type Trip Log "(imported) unit 13 billy pm", PM-period, started Wednesday 9/10/2014 10:25:42 PM ↑Contents

Entered artery 10:58:22 pm (1961 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	<u>CTI</u>	<u>CTL</u>	<u>CStopD</u>	<u>CBS1T</u>	<u>CAS</u>
to Sorters Rd. (#10)	571	29709	101	82	35.5

[-] Before-type Trip Log "(imported) unit 15 david mpm", PM-period, started Wednesday 9/10/2014 9:31:03 PM ↑Contents

Entered artery 9:52:42 pm (1299 seconds) traveling Westbound from Loop 494 (#7)

Node	<u>CTI</u>	<u>CTL</u>	<u>CStopD</u>	<u>CBS1T</u>	<u>CAS</u>
to Sorters Rd. (#10)	184	8111	27	31	30.1
to Sorters Rd. (#10)	742	28997	195	204	26.7
to Sorters Rd. (#10)	693	29032	154	156	28.5

[-] Before-type Trip Log "(imported) unit 15 david mpm", PM-period, started Wednesday 9/10/2014 10:59:19 PM ↑Contents

Entered artery 11:14:35 pm (916 seconds) traveling Westbound from Mills Branch Rd. (#1)

Node	<u>CTI</u>	<u>CTL</u>	<u>CStopD</u>	<u>CBS1T</u>	<u>CAS</u>
to Sorters Rd. (#10)	632	29028	107	113	31.3