

**School Adjustment Factors
Brodie Oaks TIA**

Peak Periods for Each Count 8:00-9:00 7:45-8:45 16:45-17:45 16:45-17:45

Intersection #7 - SB South Lamar Blvd & US 290/SH 71 WBFR							
AM					PM		
Approach	Movement	2021 Existing-Schools in-26-May-21	Schools out - Summer Vacation 9-Jun-21	Comparison	2021 Existing-Schools in-26-May-21	Schools out - Summer Vacation 9-Jun-21	Comparison
US 290/SH 71 WBFR	WBL	317	329	4%	464	484	4%
	WBT	890	761	14%	649	677	4%
SB South Lamar Blvd	SBT	293	234	20%	794	772	3%
	SBR	175	145	17%	232	222	4%
Total		1675	1469	12%	2139	2155	1%

Peak Periods to match May Counts 8:00-9:00 8:00-9:00 16:45-17:45 16:45-17:45

Intersection #7 - SB South Lamar Blvd & US 290/SH 71 WBFR							
AM					PM		
Approach	Movement	2021 Existing-Schools in-26-May-21	Schools out - Summer Vacation 9-Jun-21	Comparison	2021 Existing-Schools in-26-May-21	Schools out - Summer Vacation 9-Jun-21	Comparison
US 290/SH 71 WBFR	WBL	317	336	6%	464	484	4%
	WBT	890	708	20%	649	677	4%
SB South Lamar Blvd	SBT	293	263	10%	794	772	3%
	SBR	175	156	11%	232	222	4%
Total		1675	1463	13%	2139	2155	1%

Peak Periods to match June Counts 7:45-8:45 7:45-8:45 16:45-17:45 16:45-17:45

Intersection #7 - SB South Lamar Blvd & US 290/SH 71 WBFR							
AM					PM		
Approach	Movement	2021 Existing-Schools in-26-May-21	Schools out - Summer Vacation 9-Jun-21	Comparison	2021 Existing-Schools in-26-May-21	Schools out - Summer Vacation 9-Jun-21	Comparison
US 290/SH 71 WBFR	WBL	298	329	10%	464	484	4%
	WBT	900	761	15%	649	677	4%
SB South Lamar Blvd	SBT	288	234	19%	794	772	3%
	SBR	169	145	14%	232	222	4%
Total		1655	1469	11%	2139	2155	1%

2021 Data Increased while Schools out for Summer



Rachel John

From: Good, Justin <Justin.Good@austintexas.gov>
Sent: Monday, June 28, 2021 12:28 PM
To: Rachel John
Cc: Bobak T.; Hutchens, Amber; Beaty, Curtis
Subject: RE: School and Pandemic Adjustments Factors..Tables

Hi Rachel,

I agree with your school adjustment factors. They're in line with what I've seen with other projects and the data supports them. Please use **10% for AM and 4% for PM to develop adjustment factors** to apply to June counts to estimate non-summer traffic numbers for those intersections.

For the COVID adjustment factors, the averages you're showing seem to be fairly consistent with available City data. AMD has a traffic tracking tool you can use to compare recent volumes to pre-pandemic levels (reference week of February 2, 2020); I think this data is publicly available, here's the link: <https://app.powerbigov.us/groups/me/reports/f4d59a48-8fb6-4fff-aa08-89ae4313150b/ReportSection?openReportSource=ReportInvitation&ctid=5c5e19f6-a6ab-4b45-b1d0-be4608a9a67f>. The tracker can be a bit difficult to work with but I was able to filter down to comparing weekly May 2021 volumes (school in session) to February 2020 volumes near Capital of Texas Highway / West Gate Boulevard and it's showing a 33% decrease in the AM and 15% decrease in the PM when compared to pre-pandemic levels. The AM decrease is less significant than the one you calculated but the PM seems to track pretty well. Let's use **33% in the AM and 15% in the PM to develop COVID adjustment factors**. Happy to hop on a call to walk through the tracker if you're not able to access it or have any questions.

Thanks,
Justin



[Justin Good, P.E.](#)
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(o) 512-974-1449



From: Rachel John <rachel@bo-engineering.com>
Sent: Wednesday, June 23, 2021 4:33 PM
To: Good, Justin <Justin.Good@austintexas.gov>; Hutchens, Amber <Amber.Hutchens@austintexas.gov>; Beaty, Curtis <Curtis.Beaty@austintexas.gov>
Cc: Bobak J. Tehrany <bobak@bo-engineering.com>
Subject: School and Pandemic Adjustments Factors..Tables

*** External Email - Exercise Caution ***

Justin,

Please find the attached PDF for the tables with school adjustment and pandemic adjustment data comparison.

For the school adjustments, the counts taken in May while schools were in session was compared against counts taken in June where schools are closed for summer break. The intersection used for this comparison is SB South Lamar Blvd and US 290/SH 71 WBFR. Some June counts were slightly increased than the May counts and are highlighted in yellow. Based on this comparison, we feel that a 10% adjustments for AM peak and a 4% adjustment for PM peak could be adequate to be applied to the June counts as School Adjustment factor. We would like to hear your thoughts on this.

In order to do pandemic adjustments, historic counts from 2018 was grown to calculate 2021 Forecasted by applying 3% growth rate approved during TIA scope. The 2021 Forecasted trips were compared against the raw data collected in 2021. The three (3) intersections used for comparison purpose are as follows: South Lamar Blvd & Bluebonnet Lane, South Lamar Blvd & Menchaca Road, and South Lamar Blvd & Barton Skyway/Lightsey Road. Based on the comparison, most of the raw data have decreased but some are slightly increased. If the 2021 raw data is increased compared to 2021 Forecasted, they have been highlighted in yellow. Since the comparison rates are all over the board, would like to hear suggestions on how we go about adjusting counts affected by the pandemic.

We would like to get on a quick call with you to go over these adjustments. Please let us know of your availability.

Thanks so much for your time.

Sincerely,
Rachel.

Rachel M. John
Project Engineer



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Pandemic Adjustment Factors

Brodie Oaks TIA

Peak Periods for Each Count 7:45-8:45 8:00-9:00 16:45-17:45 5:00-6:00

Intersection #2 - South Lamar Blvd & Bluebonnet Lane									
AM					PM				
Approach	Movement	2018 Existing	2021 Existing	*2021 Forecasted	Comparison	2018 Existing	2021 Existing	*2021 Forecasted	Comparison
Bluebonnet Lane	EBL	73	53	80	51%	69	76	75	1%
	EBT	48	20	52	162%	56	32	61	91%
	EBR	103	85	113	32%	176	145	192	33%
	WBL	77	73	84	15%	81	86	89	3%
	WBT	98	24	107	346%	46	36	50	40%
	WBR	51	34	56	64%	37	40	40	1%
South Lamar Blvd	NBL	134	87	146	68%	107	117	117	0%
	NBT	1757	1035	1920	85%	1330	1287	1453	13%
	NBR	22	39	24	38%	60	82	66	20%
	SBL	15	17	16	4%	14	26	15	41%
	SBT	671	650	733	13%	1677	1422	1833	29%
	SBR	22	2	24	1102%	25	1	27	2632%
Total		3071	2119	3356	58%	3678	3350	4019	20%

*2018 Existing Grown to 2021 Forecasted

Peak Periods for Each Count 7:15-8:15 8:00-9:00 5:00-6:00 4:45-5:45

Intersection #3 - South Lamar Blvd & Menchaca Road									
AM					PM				
Approach	Movement	2018 Existing	2021 Existing	*2021 Forecasted	Comparison	2018 Existing	2021 Existing	*2021 Forecasted	Comparison
Menchaca Road	WBR	705	518	770	49%	580	526	634	20%
South Lamar Blvd	NBT	1383	749	1511	102%	1169	1119	1277	14%
	NBR	2	3	2	27%	31	18	34	88%
	SBL	211	251	231	8%	534	457	584	28%
	SBT	636	596	695	17%	1429	1348	1562	16%
Total		2937	2117	3209	52%	3743	3468	4090	18%

*2018 Existing Grown to 2021 Forecasted

Peak Periods for Each Count 8:00-9:00 8:00-9:00 4:45-5:45 4:45-5:45

Intersection #4 - South Lamar Blvd & Barton Skyway/Lightsey Road									
AM					PM				
Approach	Movement	2018 Existing	2021 Existing	*2021 Forecasted	Comparison	2018 Existing	2021 Existing	*2021 Forecasted	Comparison
Barton Skyway	EBL	49	71	54	25%	93	76	102	34%
	EBT	106	83	116	40%	134	103	146	42%
	EBR	155	120	169	41%	154	123	168	37%
Lightsey Road	WBL	107	37	117	216%	61	58	67	15%
	WBT	241	83	263	217%	92	95	101	6%
	WBR	92	4	101	2413%	7	12	8	36%
South Lamar Blvd	NBL	167	88	182	107%	151	141	165	17%
	NBT	877	676	958	42%	1192	1027	1303	27%
	NBR	17	26	19	29%	95	42	104	147%
	SBL	26	18	28	58%	76	57	83	46%
	SBT	630	533	688	29%	1345	1236	1470	19%
SBR	39	42	43	1%	51	45	56	24%	
Total		2506	1781	2738	54%	3451	3015	3771	25%

*2018 Existing Grown to 2021 Forecasted

2021 Raw Data Increased

% Growth 3.0%
Growth 1.09

