

TTAD Runway Utilization Report

Summer Peak Period June 15 – September 15, 2021

Operational data for the summer peak period of 2021 has been tallied by runway and filtered by wind speed. Wind speeds of 4mph or less are considered calm. During calm winds pilots and air traffic controllers have more options regarding runway selection. The runway utilization report was designed to see what aircraft types use which runways during calm winds. It was also designed to compare how runway utilization has changed with the introduction of an air traffic control tower. Of all the operations during the summer peak period of 2021, 52% occurred during calm winds. The fleet mix was 54% Pistons, 19% Jets, 18% Turboprops and 10% Other (helicopters, unknown). Noteworthy to calm wind analysis this summer is that wildfire smoke caused many days of IFR conditions in August and September requiring IFR-enabled runways regardless of wind conditions. 2016 summer peak data was used for comparison of when there was no ATC making suggestions. Also noteworthy in 2021 is that glider operations were half what they were in 2016 which lowered utilization of Runway 20. The raw data is included in this report and some highlights are as follows:

All Aircraft

- 50% of operations occurred on Runway 29
- 31% of arrivals occurred on Runway 20
- Runway 2 was second highest used departure runway at 22%

Jets

- Least diversity in runway utilization mainly due to IFR requirements regardless of weather
- Departures – 89% Runway 29, 7% Runway 2
- Arrivals – 62% Runway 29, 17% Runway 20, 16% Runway 11

Turboprops

- Departures – 72% Runway 29, 14% Runway 2, 8% Runway 20
- Arrivals – 59% Runway 29, 25% Runway 20,

Pistons

- Most diversity in runway utilization
- Departures – 41% Runway 29, 32% Runway 2, 20% Runway 20, 2% Runway 11
- Arrivals – 46% Runway 29, 28% Runway 20, 12% Runway 2

Relative to 2016

- Turbos 18% higher use of Runway 29 departures
- Pistons 10.6% higher use of Runway 29 arrivals and 11.8% increase in departures
- Pistons 8.7% higher use of Runway 2 departures
- Jets 8.5% increase in Runway 20 arrivals
- 6.4% less Piston use of Runway 20 likely due to reduced glider operations

Calm Wind Operations (0-4mph)

Summer Peak

Jun 15 to Sep 15

2016

All Aircraft

Runway	Total Activities On		Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Runway	Arrivals	Departures	Arrivals	Departures	Activities
RWY 11	143	116	259	5%	4%	4%	4%	4%
RWY 2	334	614	948	12%	20%	16%	16%	16%
RWY 20	695	738	1433	25%	24%	25%	25%	25%
RWY 29	1238	1242	2480	44%	41%	42%	42%	42%
RWY Unknown	399	329	728	14%	11%	12%	12%	12%
Total	2809	3039	5848	100%	100%	100%	100%	100%

Jets

Runway	Total Activities On		Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Runway	Arrivals	Departures	Arrivals	Departures	Activities
RWY 11	55	13	68	14%	3%	9%	9%	9%
RWY 2	8	17	25	2%	5%	3%	3%	3%
RWY 20	33	17	50	9%	5%	7%	7%	7%
RWY 29	265	313	578	70%	83%	76%	76%	76%
RWY Unknown	19	17	36	5%	5%	5%	5%	5%
Total	380	377	757	100%	100%	100%	100%	100%

Turbos

Runway	Total Activities On		Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Runway	Arrivals	Departures	Arrivals	Departures	Activities
RWY 11	28	27	55	6%	6%	6%	6%	6%
RWY 2	18	114	132	4%	24%	14%	14%	14%
RWY 20	113	55	168	23%	11%	17%	17%	17%
RWY 29	293	262	555	60%	54%	57%	57%	57%
RWY Unknown	33	27	60	7%	6%	6%	6%	6%
Total	485	485	970	100%	100%	100%	100%	100%

Pistons

Runway	Total Activities On		Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Runway	Arrivals	Departures	Arrivals	Departures	Activities
RWY 11	41	70	111	2%	3%	3%	3%	3%
RWY 2	298	480	778	16%	23%	20%	20%	20%
RWY 20	531	658	1189	29%	32%	30%	30%	30%
RWY 29	646	603	1249	35%	29%	32%	32%	32%
RWY Unknown	328	274	602	18%	13%	15%	15%	15%
Total	1844	2085	3929	100%	100%	100%	100%	100%

2021

All Aircraft

Runway	Total Activities On		Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Runway	Arrivals	Departures	Arrivals	Departures	Activities
RWY 11	171	63	234	7%	2%	4%	4%	4%
RWY 2	182	608	790	7%	22%	15%	15%	15%
RWY 20	764	533	1297	31%	19%	25%	25%	25%
RWY 29	1185	1478	2663	47%	53%	50%	50%	50%
RWY Unknown	193	100	293	8%	4%	6%	6%	6%
Total	2495	2782	5277	100%	100%	100%	100%	100%

Jets

Runway	Total Activities On		Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Runway	Arrivals	Departures	Arrivals	Departures	Activities
RWY 11	75	9	84	16%	2%	8%	8%	8%
RWY 2	3	37	40	1%	7%	4%	4%	4%
RWY 20	83	8	91	17%	2%	9%	9%	9%
RWY 29	300	454	754	62%	89%	76%	76%	76%
RWY Unknown	21	2	23	4%	0%	2%	2%	2%
Total	482	510	992	100%	100%	100%	100%	100%

Turbos

Runway	Total Activities On		Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Runway	Arrivals	Departures	Arrivals	Departures	Activities
RWY 11	26	15	41	6%	3%	4%	4%	4%
RWY 2	9	69	78	2%	14%	8%	8%	8%
RWY 20	106	41	147	25%	8%	16%	16%	16%
RWY 29	255	358	613	59%	72%	66%	66%	66%
RWY Unknown	34	15	49	8%	3%	5%	5%	5%
Total	430	498	928	100%	100%	100%	100%	100%

Pistons

Runway	Total Activities On		Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Runway	Arrivals	Departures	Arrivals	Departures	Activities
RWY 11	49	32	81	4%	2%	3%	3%	3%
RWY 2	153	488	641	12%	32%	23%	23%	23%
RWY 20	367	310	677	28%	20%	24%	24%	24%
RWY 29	591	626	1217	46%	41%	43%	43%	43%
RWY Unknown	136	81	217	10%	5%	8%	8%	8%
Total	1296	1537	2833	100%	100%	100%	100%	100%

Absolute Difference (After minus Before)

Positive value means more traffic after

Runway	Total Change in Activities		Percentage change in Arrivals by Runway		Percentage change in Departures by Runway		Percentage change in Total by Runway	
	Arrivals	Departures	Runway	Arrivals	Departures	Runway	Arrivals	Departures
RWY 11	28	-53	-25	19.6%	-45.7%	-9.7%	-9.7%	-9.7%
RWY 2	-152	-6	-158	-45.5%	-1.0%	-16.7%	-16.7%	-16.7%
RWY 20	69	-205	-136	9.9%	-27.8%	-9.5%	-9.5%	-9.5%
RWY 29	-53	236	183	-4.3%	19.0%	7.4%	7.4%	7.4%
RWY Unknown	-206	-229	-435	-51.6%	-69.6%	-59.8%	-59.8%	-59.8%
Total	-314	-257	-571	-11.2%	-8.5%	-9.8%	-9.8%	-9.8%

Jets

Runway	Total Change in Activities		Percentage change in Arrivals by Runway		Percentage change in Departures by Runway		Percentage change in Total by Runway	
	Arrivals	Departures	Runway	Arrivals	Departures	Runway	Arrivals	Departures
RWY 11	20	-4	16	36.4%	-30.8%	23.5%	23.5%	23.5%
RWY 2	-5	20	15	-62.5%	117.6%	60.0%	60.0%	60.0%
RWY 20	50	-9	41	151.5%	-52.9%	82.0%	82.0%	82.0%
RWY 29	35	141	176	13.2%	45.0%	30.4%	30.4%	30.4%
RWY Unknown	2	-15	-13	10.5%	-88.2%	-36.1%	-36.1%	-36.1%
Total	102	133	235	26.8%	35.3%	31.0%	31.0%	31.0%

Turbos

Runway	Total Change in Activities		Percentage change in Arrivals by Runway		Percentage change in Departures by Runway		Percentage change in Total by Runway	
	Arrivals	Departures	Runway	Arrivals	Departures	Runway	Arrivals	Departures
RWY 11	-2	-12	-14	-7.1%	-44.4%	-25.5%	-25.5%	-25.5%
RWY 2	-9	-45	-54	-50.0%	-39.5%	-40.9%	-40.9%	-40.9%
RWY 20	-7	-14	-21	-6.2%	-25.5%	-12.5%	-12.5%	-12.5%
RWY 29	-38	96	58	-13.0%	36.6%	10.5%	10.5%	10.5%
RWY Unknown	1	-12	-11	3.0%	-44.4%	-18.3%	-18.3%	-18.3%
Total	-55	13	-42	-11.3%	2.7%	-4.3%	-4.3%	-4.3%

Pistons

Runway	Total Change in Activities		Percentage change in Arrivals by Runway		Percentage change in Departures by Runway		Percentage change in Total by Runway	
	Arrivals	Departures	Runway	Arrivals	Departures	Runway	Arrivals	Departures
RWY 11	8	-38	-30	19.5%	-54.3%	-27.0%	-27.0%	-27.0%
RWY 2	-145	8	-137	-48.7%	1.7%	-17.6%	-17.6%	-17.6%
RWY 20	-164	-348	-512	-30.9%	-52.9%	-43.1%	-43.1%	-43.1%
RWY 29	-55	23	-32	-8.5%	3.8%	-2.6%	-2.6%	-2.6%
RWY Unknown	-192	-193	-385	-58.5%	-70.4%	-64.0%	-64.0%	-64.0%
Total	-548	-548	-1096	-29.7%	-26.3%	-27.9%	-27.9%	-27.9%

Relative Difference in percentages (After minus Before)

Positive value means more traffic after

Runway	Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
RWY 11	1.8%	-1.6%	1.8%	-1.6%	0.0%	0.0%
RWY 2	-4.6%	1.7%	-4.6%	1.7%	-1.2%	-1.2%
RWY 20	5.9%	-5.1%	5.9%	-5.1%	0.1%	0.1%
RWY 29	3.4%	12.3%	3.4%	12.3%	8.1%	8.1%
RWY Unknown	-6.5%	-7.2%	-6.5%	-7.2%	-6.9%	-6.9%

Jets

Runway	Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
RWY 11	1.1%	-1.7%	1.1%	-1.7%	-0.5%	-0.5%
RWY 2	-1.5%	2.7%	-1.5%	2.7%	0.7%	0.7%
RWY 20	8.5%	-2.9%	8.5%	-2.9%	2.6%	2.6%
RWY 29	-7.5%	6.0%	-7.5%	6.0%	-0.3%	-0.3%
RWY Unknown	-0.6%	-4.1%	-0.6%	-4.1%	-2.4%	-2.4%

Turbos

Runway	Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
RWY 11	0.3%	-2.6%	0.3%	-2.6%	-1.3%	-1.3%
RWY 2	-1.6%	-9.6%	-1.6%	-9.6%	-5.2%	-5.2%
RWY 20	1.4%	-3.1%	1.4%	-3.1%	-1.5%	-1.5%
RWY 29	-1.1%	17.9%	-1.1%	17.9%	8.8%	8.8%
RWY Unknown	1.1%	-2.6%	1.1%	-2.6%	-0.9%	-0.9%

Pistons

Runway	Percent Of All		Percent Of All		Percent Of All	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
RWY 11	1.6%	-1.3%	1.6%	-1.3%	0.0%	0.0%
RWY 2	-4.4%	8.7%	-4.4%	8.7%	2.8%	2.8%
RWY 20	-0.5%	-11.4%	-0.5%	-11.4%	-6.4%	-6.4%
RWY 29	10.6%	11.8%	10.6%	11.8%	11.2%	11.2%
RWY Unknown	-7.3%	-7.9%	-7.3%	-7.9%	-7.7%	-7.7%