

TTAD Runway Utilization Report

Summer Peak Period June 15 – September 15, 2022

Operational data for the summer peak period of 2022 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 2022, 51% occurred during calm winds. The fleet mix was 54% Pistons, 21% Jets, 23% Turboprops and 2% Other (helicopters and unknown).

Noteworthy to calm wind analysis in the summer is that Air Traffic Controllers do not prefer to depart aircraft on Runway 2 when gliders and tow planes are preparing to launch or land Runway 20. This situation can create head-to-head traffic situations. On several occasions pilots requesting Runway 2 were advised to use Runway 29 due to glider activity but accepted a delay and waited to depart Runway 2.

2016 summer peak data was used for comparison of when there was no Air Traffic Control tower making suggestions. Also noteworthy is that glider operations in 2022 were about 40% less than what they were in 2016 which lowered utilization of Runway 20 comparatively. The raw data is included in this report and some highlights about summer peak period 2022 calm-wind runway use are as follows:

All Aircraft

- 66% of all operations occurred on Runway 29
- Runway 2 was second highest used departure runway at 16%

Jets

- No use of Runway 2
- Departures – 94% Runway 29, 5% Runway 11
- Arrivals – 79% Runway 29, 15% Runway 11, 4% Runway 20

Turboprops

- Departures – 79% Runway 29, 10% Runway 11, 6% Runway 2, 6% Runway 20
- Arrivals – 77% Runway 29, 10% Runway 20, 5% Runway 11

Pistons

- Most diversity in runway utilization
- Departures – 51% Runway 29, 24% Runway 2, 11% Runway 20, 5% Runway 11
- Arrivals – 66% Runway 29, 12% Runway 20, 3% Runway 11, 3% Runway 2

Calm Wind Operations (0-4mph)

Summer Peak Period

June 15 - September 15

2016
All Aircraft

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

Jets

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

Turbos

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

Pistons

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

2022
All Aircraft

Runway	Arrivals	Departures	Total Activities On Runway	Percent Of All Arrivals	Percent Of All Departures	Percent Of All Activities
RWY 11	167	187	354	6%	6%	6%
RWY 2	62	482	544	2%	16%	10%
RWY 20	268	246	514	10%	8%	9%
RWY 29	1832	1921	3753	70%	63%	66%
(blank)	290	204	494	11%	7%	9%
Total	2619	3040	5659	100%	100%	100%

Jets

Runway	Arrivals	Departures	Total Activities On Runway	Percent Of All Arrivals	Percent Of All Departures	Percent Of All Activities
RWY 11	77	27	104	15%	5%	10%
RWY 2	0	0	0	N/A	N/A	N/A
RWY 20	20	1	21	4%	0%	2%
RWY 29	416	520	936	79%	94%	87%
(blank)	11	7	18	2%	1%	2%
Total	524	555	1079	100%	100%	100%

Turbos

Runway	Arrivals	Departures	Total Activities On Runway	Percent Of All Arrivals	Percent Of All Departures	Percent Of All Activities
RWY 11	24	59	83	5%	10%	8%
RWY 2	2	34	36	0%	6%	3%
RWY 20	51	33	84	10%	6%	8%
RWY 29	381	430	811	77%	73%	75%
(blank)	34	31	65	7%	5%	6%
Total	492	587	1079	100%	100%	100%

Pistons

Runway	Arrivals	Departures	Total Activities On Runway	Percent Of All Arrivals	Percent Of All Departures	Percent Of All Activities
RWY 11	54	93	147	3%	5%	4%
RWY 2	52	443	495	3%	24%	15%
RWY 20	188	207	395	12%	11%	12%
RWY 29	1017	948	1965	66%	51%	58%
(blank)	237	158	395	15%	9%	12%
Total	1548	1849	3397	100%	100%	100%

Absolute Difference (After minus Before)
Positive value means more traffic after

Runway	Arrivals	Departures	Total Change in Activities	Percentage change in Arrivals by Runway	Percentage change in Departures by Runway	Percentage change in Total by Runway
RWY 11	24	71	95	16.8%	61.2%	36.7%
RWY 2	-272	-132	-404	-81.4%	-21.5%	-42.6%
RWY 20	-427	-492	-919	-61.4%	-66.7%	-64.1%
RWY 29	594	679	1273	48.0%	54.7%	51.3%
RWY Unknown	-109	-125	-234	-27.3%	-38.0%	-32.1%
Total	-190	1	-189	-6.8%	0.0%	-3.2%

Jets

Runway	Arrivals	Departures	Total Change in Activities	Percentage change in Arrivals by Runway	Percentage change in Departures by Runway	Percentage change in Total by Runway
RWY 11	22	14	36	40.0%	107.7%	52.9%
RWY 2	-8	-17	-25	-100.0%	-100.0%	-100.0%
RWY 20	-13	-16	-29	-39.4%	-94.1%	-58.0%
RWY 29	151	207	358	57.0%	66.1%	61.9%
RWY Unknown	-8	-10	-18	-42.1%	-58.8%	-50.0%
Total	144	178	322	37.9%	47.2%	42.5%

Turbos

Runway	Arrivals	Departures	Total Change in Activities	Percentage change in Arrivals by Runway	Percentage change in Departures by Runway	Percentage change in Total by Runway
RWY 11	-4	32	28	-14.3%	118.5%	50.9%
RWY 2	-16	-80	-96	-88.9%	-70.2%	-72.7%
RWY 20	-62	-22	-84	-54.9%	-40.0%	-50.0%
RWY 29	88	168	256	30.0%	64.1%	46.1%
RWY Unknown	1	4	5	3.0%	14.8%	8.3%
Total	7	102	109	1.4%	21.0%	11.2%

Pistons

Runway	Arrivals	Departures	Total Change in Activities	Percentage change in Arrivals by Runway	Percentage change in Departures by Runway	Percentage change in Total by Runway
RWY 11	13	23	36	31.7%	32.9%	32.4%
RWY 2	-246	-37	-283	-82.6%	-7.7%	-36.4%
RWY 20	-343	-451	-794	-64.6%	-68.5%	-66.8%
RWY 29	371	345	716	57.4%	57.2%	57.3%
RWY Unknown	-91	-116	-207	-27.7%	-42.3%	-34.4%
Total	-296	-236	-532	-16.1%	-11.3%	-13.5%

Relative Difference in percentages (After minus Before)
Positive value means more traffic after

Runway	Percent Of All Arrivals	Percent Of All Departures	Percent Of All Activities
RWY 11	1.3%	2.3%	1.8%
RWY 2	-9.5%	-4.3%	-6.6%
RWY 20	-14.5%	-16.2%	-15.4%
RWY 29	25.9%	22.3%	23.9%
RWY Unknown	-3.1%	-4.1%	-3.7%

Jets

Runway	Percent Of All Arrivals	Percent Of All Departures	Percent Of All Activities
RWY 11	0.2%	1.4%	0.7%
RWY 2	N/A	N/A	N/A
RWY 20	-4.9%	-4.3%	-4.7%
RWY 29	9.7%	10.7%	10.4%
RWY Unknown	-2.9%	-3.2%	-3.1%

Turbos

Runway	Percent Of All Arrivals	Percent Of All Departures	Percent Of All Activities
RWY 11	-0.9%	4.5%	2.0%
RWY 2	-3.3%	-17.7%	-10.3%
RWY 20	-12.9%	-5.7%	-9.5%
RWY 29	17.0%	19.2%	17.9%
RWY Unknown	0.1%	-0.3%	-0.2%

Pistons

Runway	Percent Of All Arrivals	Percent Of All Departures	Percent Of All Activities
RWY 11	1.3%	1.7%	1.5%
RWY 2	-12.8%	0.9%	-5.2%
RWY 20	-16.7%	-20.4%	-18.6%
RWY 29	30.7%	22.4%	26.1%
RWY Unknown	-2.5%	-4.6%	-3.7%