

## Appendix A. Operations Counting and Forecasting Detail Tables

The following appendix provides airport-specific baseline operations and forecasts prepared by the 2022 Minnesota State Aviation System Plan (MnSASP). The tables are as follows:

- **Table A.1.** 2022 MnSASP GA Airport Baseline Operations by State Classification
- **Table A.2.** 2022 MnSASP Forecast Alternative: Socioeconomic – Population Growth by County
- **Table A.3.** 2022 MnSASP Forecast Alternative: Socioeconomic – Per Capita Personal Income (PCPI)
- **Table A.4.** 2022 MnSASP Forecast Alternative: GA Flight Hours Flown
- **Table A.5.** 2022 MnSASP Forecast Alternative: Socioeconomic – GA Flight Hours Flown Blend
- **Table A.6.** 2022 MnSASP Forecast Alternative: Mixed Methodology
- **Table A.7.** 2022 MnSASP Forecast Terminal Area Forecast (TAF) versus Mixed Methodology
- **Table A.8.** Operational Threshold Analysis by Airport

**Chapter 3. Operations and Forecasting** provides the full methodology and application of the data contained in these tables.

*Table A.1. 2022 MnSASP GA Airport Baseline Operations by State Classification*

ASSOCIATED CITY	AIRPORT NAME	FAA ID	5010 DATA YEAR <sup>1</sup>	TOTAL 5010 OPERATIONS	BASELINE OPERATIONS	PERCENTAGE DIFFERENCE FROM 5010
<b>Key General Aviation</b>						
Albert Lea	Albert Lea Municipal	AEL	2020	26,175	18,523	-29%
Alexandria	Alexandria Municipal (Chandler Field)	AXN	2018	25,500	20,528	-19%
Austin	Austin Municipal	AUM	2018	25,420	21,505	-15%
Baudette	Baudette International	BDE	2018	12,825	7,503	-41%
Ely	Ely Municipal	ELO	2018	8,200	7,550	-8%
Fairmont	Fairmont Municipal Airport	FRM	2018	9,400	9,267	-1%
Fergus Falls	Fergus Falls Municipal	FFM	2018	8,500	13,016	53%
Grand Marais	Grand Marais-Cook County	CKC	2019	3,200	3,762	18%
Grand Rapids	Grand Rapids-Itasca County	GPZ	2019	19,560	25,230	29%
Mankato	Mankato Municipal	MKT	2018	126,136	100,062	-21%
Marshall	Marshall - Southwest Minnesota Regional - Marshall/Ryan Field	MML	2019	22,848	15,926	-30%
Minneapolis	Minneapolis Anoka County/Blaine <sup>2</sup>	ANE	2018	70,202	71,740	2%
Minneapolis	Minneapolis Flying Cloud <sup>2</sup>	FCM	2018	75,842	104,405	38%
New Ulm	New Ulm Municipal	ULM	2018	15,510	7,792	-50%
Owatonna	Owatonna Degner Regional	OWA	2018	30,050	16,357	-46%
Park Rapids	Park Rapids Municipal	PKD	2018	15,833	19,476	23%
Red Wing	Red Wing Regional	RGK	2019	14,050	11,751	-16%
St Paul	Saint Paul Downtown <sup>2</sup>	STP	2018	66,475	40,934	-38%
Warroad	Warroad International (Swede Carlson Field)	RRT	2019	9,000	16,617	85%
Willmar	Willmar Municipal	BDH	2018	17,850	24,429	37%
Winona	Winona Municipal (Max Conrad Field)	ONA	2019	10,450	9,945	-5%
Worthington	Worthington Municipal	OTG	2019	10,140	11,078	9%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	5010 DATA YEAR <sup>1</sup>	TOTAL 5010 OPERATIONS	BASELINE OPERATIONS	PERCENTAGE DIFFERENCE FROM 5010
<b>Intermediate Large</b>						
<b>Aitkin</b>	Aitkin Municipal	AIT	2018	16,000	13,733	-14%
<b>Benson</b>	Benson Municipal	BBB	2018	5,100	4,065	-20%
<b>Bigfork</b>	Bigfork Municipal	FOZ	2018	3,100	2,327	-25%
<b>Cambridge</b>	Cambridge Municipal	CBG	2018	16,850	9,821	-42%
<b>Canby</b>	Canby Municipal	CNB	2018	6,720	7,080	5%
<b>Cloquet</b>	Cloquet-Carlton County	COQ	2018	10,000	10,530	5%
<b>Cook</b>	Cook Municipal Airport	CQM	2018	5,950	5,022	-16%
<b>Crookston</b>	Crookston Municipal (Kirkwood Field)	CKN	2019	20,150	11,670	-42%
<b>Detroit Lakes</b>	Detroit Lakes	DTL	2018	16,200	16,690	3%
<b>Dodge Center</b>	Dodge Center Municipal	TOB	2019	5,000	4,017	-20%
<b>Eveleth</b>	Eveleth-Virginia Municipal	EVM	2018	17,700	8,137	-54%
<b>Faribault</b>	Faribault Municipal	FBL	2018	18,700	19,169	3%
<b>Glenwood</b>	Glenwood Municipal	GHW	2018	4,900	4,284	-13%
<b>Granite Falls</b>	Granite Falls Municipal	GDB	2018	7,000	7,544	8%
<b>Hallock</b>	Hallock Municipal	HCO	2018	17,700	13,380	-24%
<b>Hutchinson</b>	Hutchinson Municipal	HCD	2018	12,395	7,844	-37%
<b>Litchfield</b>	Litchfield Municipal	LJF	2019	7,000	4,008	-43%
<b>Little Falls</b>	Little Falls-Morrison County	LXL	2018	22,450	19,184	-15%
<b>Luverne</b>	Luverne Municipal (Quentin Aanenson Field)	LYV	2019	8,400	4,730	-44%
<b>Minneapolis</b>	Minneapolis Airlake	LVN	2018	34,174	21,055	-38%
<b>Montevideo</b>	Montevideo-Chippewa County	MVE	2018	11,520	7,058	-39%
<b>Moorhead</b>	Moorhead Municipal	JKJ	2018	9,000	8,867	-1%
<b>Mora</b>	Mora Municipal	JMR	2018	15,000	12,377	-17%
<b>Morris</b>	Morris Municipal	MOX	2018	5,906	9,366	59%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	5010 DATA YEAR <sup>1</sup>	TOTAL 5010 OPERATIONS	BASELINE OPERATIONS	PERCENTAGE DIFFERENCE FROM 5010
Orr	Orr Regional	ORB	2018	2,500	1,357	-46%
Perham	Perham Municipal	16D	2018	7,200	6,235	-13%
Pipestone	Pipestone Municipal	PQN	2019	8,200	4,675	-43%
Preston	Preston Fillmore County	FKA	2019	4,080	2,449	-40%
Princeton	Princeton Municipal	PNM	2018	13,300	7,548	-43%
Redwood Falls	Redwood Falls Municipal	RWF	2018	9,800	8,642	-12%
Roseau	Roseau Municipal (Rudy Billberg Field)	ROX	2018	18,300	14,103	-23%
Rush City	Rush City Municipal	ROS	2018	7,810	6,473	-17%
South St Paul	South St. Paul Municipal (Fleming Field)	SGS	2019	51,000	49,331	-3%
St James	Saint James Municipal	JYG	2018	5,485	3,908	-29%
Two Harbors	Two Harbors-Richard B. Helgeson	TWM	2018	7,000	4,429	-37%
Wadena	Wadena Municipal	ADC	2018	5,410	6,233	15%
<b>Intermediate Small</b>						
Ada/Twin Valley	Ada-Norman County/Twin Valley	D00	2018	5,200	3,085	-41%
Appleton	Appleton Municipal	AQP	2018	2,400	2,034	-15%
Bagley	Bagley Municipal	7Y4	2018	2,400	434	-82%
Blue Earth	Blue Earth Municipal	SBU	2018	14,000	7,642	-45%
Brooten	Brooten Municipal	6D1	2019	2,510	1,248	-50%
Buffalo	Buffalo Municipal	CFE	2018	22,350	14,213	-36%
Caledonia	Caledonia-Houston County	CHU	2018	3,500	2,193	-37%
Duluth	Duluth-Sky Harbor Airport & Seaplane Base	DYT	2020	13,900	11,472	-17%
Fertile	Fertile Municipal	D14	2018	9,600	6,691	-30%
Forest Lake	Forest Lake	25D	2020	8,000	7,851	-2%
Fosston	Fosston Municipal	FSE	2019	8,345	6,878	-18%
Glencoe	Glencoe Municipal (Vernon Perschau Field)	GYL	2018	10,615	5,715	-46%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	5010 DATA YEAR <sup>1</sup>	TOTAL 5010 OPERATIONS	BASELINE OPERATIONS	PERCENTAGE DIFFERENCE FROM 5010
Grant	Elbow Lake Municipal	Y63	2018	9,000	8,150	-9%
Hawley	Hawley Municipal	04Y	2019	8,600	5,225	-39%
Hector	Hector Municipal	1D6	2018	7,000	6,074	-13%
Herman	Herman Municipal	06Y	2018	2,200	2,006	-9%
Jackson	Jackson Municipal	MJQ	2018	19,000	14,623	-23%
Le Sueur	Le Sueur Municipal	12Y	2019	2,560	1,614	-37%
Long Prairie	Todd Field (Long Prairie Airport)	14Y	2018	5,730	4,410	-23%
Longville	Longville Municipal	XVG	2019	6,725	5,343	-21%
Madison	Madison-Lac Qui Parle	DXX	2018	2,160	2,340	8%
Mahnomen	Mahnomen County	3N8	2018	1,650	1,621	-2%
Maple Lake	Maple Lake Municipal	MGG	2018	20,800	15,414	-26%
Mc Gregor	McGregor-Isedor Iverson	HZX	2018	1,900	987	-48%
Minneapolis	Minneapolis Crystal <sup>2</sup>	MIC	2020	42,351	41,541	-2%
Moose Lake	Moose Lake-Carlton County	MZH	2018	4,900	3,171	-35%
Olivia	Olivia Regional	OVL	2019	4,700	4,688	0%
Ortonville	Ortonville Municipal	VVV	2019	5,000	3,221	-36%
Paynesville	Paynesville Municipal	PEX	2018	3,600	2,984	-17%
Pine River	Pine River Regional	PWC	2018	6,400	5,003	-22%
Pinecreek	Piney-Pinecreek Border	48Y	2018	3,000	431	-86%
Red Lake Falls	Red Lake Falls Municipal	D81	2018	13,500	11,345	-16%
Rushford	Rushford Municipal	55Y	2019	2,000	1,374	-31%
Sauk Centre	Sauk Centre Municipal	D39	2018	5,830	3,889	-33%
Slayton	Slayton Municipal	DVP	2018	3,300	3,300	0%
Springfield	Springfield Municipal	D42	2018	2,420	2,142	-11%
St Paul	Saint Paul-Lake Elmo	21D	2019	26,498	16,421	-38%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	5010 DATA YEAR <sup>1</sup>	TOTAL 5010 OPERATIONS	BASELINE OPERATIONS	PERCENTAGE DIFFERENCE FROM 5010
Staples	Staples Municipal	SAZ	2019	9,600	7,207	-25%
Stephen	Stephen Municipal	D41	2018	15,100	12,023	-20%
Tower	Tower Municipal	12D	2019	3,700	3,517	-5%
Tracy	Tracy Municipal	TKC	2018	3,040	1,217	-60%
Walker	Walker Municipal	Y49	2018	9,200	5,152	-44%
Warren	Warren Municipal	D37	2018	19,000	9,062	-52%
Waseca	Waseca Municipal	ACQ	2018	17,190	13,211	-23%
Wheaton	Wheaton Municipal	ETH	2018	3,900	3,056	-22%
Windom	Windom Municipal	MWM	2018	8,300	5,496	-34%
<b>Landing Strip Turf</b>						
Backus	Backus Municipal	7Y3	2018	6,400	4,017	-37%
Big Falls	Big Falls Municipal	7Y9	2018	400	200	-50%
Bowstring	Bowstring	9Y0	2018	400	323	-19%
Clarissa	Clarissa Municipal	8Y5	2019	830	456	-45%
East Gull Lake	East Gull Lake	9Y2	2018	1,000	198	-80%
Grygla	Grygla Municipal	3G2	2018	400	200	-50%
Henning	Henning Municipal	05Y	2018	2,000	1,517	-24%
Hill City	Hill City-Quadna Mountain	07Y	2019	1,000	560	-44%
Karlstad	Karlstad Municipal	23D	2018	4,500	2,006	-55%
Littlefork	Littlefork Municipal	13Y	2018	1,000	700	-30%
Milaca	Milaca Municipal	18Y	2020	8,000	5,006	-37%
Northome	Northome Municipal	43Y	2018	600	311	-48%
Pelican Rapids	Pelican Rapids Municipal	47Y	2018	8,682	1,664	-81%
Remer	Remer Municipal	52Y	2019	1,000	512	-49%
Sleepy Eye	Sleepy Eye Municipal	Y58	2018	8,000	5,000	-38%

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Starbuck	Starbuck Municipal	D32	2019	1,600	1,172	-27%
Tyler	Tyler Municipal	63Y	2019	2,200	1,606	-27%
Waskish	Waskish Municipal	VWU	2020	1,600	1,006	-37%
Waskish	Wells Municipal	68Y	2019	6,000	5,018	-16%
Winsted	Winsted Municipal	10D	2018	13,545	9,986	-26%

*Notes: (1) Baseline operations counts reflect the date of the airport's most recent 5010 Airport Safety Inspection at the time of analysis in May 2021. All data years range between 2018 and 2020 except Slayton Municipal Airport (6VP) which had its most recent 5010 inspection in 2017. (2) Airport has an air traffic control tower (ATCT). As such operational counts were obtained from the Federal Aviation Administration's (FAA) OpsNet database. In all other cases, baseline operations were calculated using the MnSASP baseline operations count methodology described in Chapter 3.*

*Sources: 5010 Airport Master Record, Various Years; FAA Traffic Flow Management System Counts (TFMSC), 2018 – 2020 (accessed May 2021); Kimley-Horn, 2022*

Table A.2. 2022 MnSASP Forecast Alternative: Socioeconomic – Population Growth by County

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					COMPOUND ANNUAL GROWTH RATE (CAGR)			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
<b>Key General Aviation</b>												
Albert Lea	Albert Lea Municipal Airport	AEL	18,523	18,523	18,316	18,066	17,736	17,321	-0.22%	-0.25%	-0.29%	-0.33%
Alexandria	Alexandria Municipal Airport (Chandler Field)	AXN	20,598	20,598	21,516	22,419	23,250	23,986	0.88%	0.85%	0.81%	0.76%
Austin	Austin Municipal Airport	AUM	21,505	21,505	21,700	21,842	21,882	21,808	0.18%	0.16%	0.12%	0.07%
Baudette	Baudette International Airport	BDE	7,503	7,503	7,562	7,607	7,624	7,609	0.16%	0.14%	0.11%	0.07%
Ely	Ely Municipal Airport	ELO	7,550	7,550	7,643	7,725	7,778	7,799	0.25%	0.23%	0.20%	0.16%
Fairmont	Fairmont Municipal Airport	FRM	9,267	9,267	9,170	9,051	8,892	8,690	-0.21%	-0.24%	-0.28%	-0.32%
Fergus Falls	Fergus Falls Municipal Airport (Einar Mickelson Field)	FFM	13,016	13,016	13,306	13,569	13,771	13,904	0.44%	0.42%	0.38%	0.33%
Grand Marais	Grand Marais-Cook County Airport	CKC	3,762	3,762	3,912	4,063	4,202	4,328	0.79%	0.77%	0.74%	0.70%
Grand Rapids	Grand Rapids-Itasca County Airport (Gordon Newstrom Field)	GPZ	25,230	25,230	25,622	25,978	26,240	26,392	0.31%	0.29%	0.26%	0.23%
Mankato	Mankato Municipal Airport	MKT	100,062	100,062	104,648	109,174	113,357	117,089	0.90%	0.88%	0.84%	0.79%
Marshall	Marshall-Southwest Minnesota Regional Airport-Marshall/Ryan Field	MML	15,926	15,926	16,245	16,531	16,741	16,866	0.40%	0.37%	0.33%	0.29%
Minneapolis	Minneapolis Anoka County/Blaine Airport (Janes Field)	ANE	71,740	71,740	77,353	83,198	89,063	94,846	1.52%	1.49%	1.45%	1.41%
Minneapolis	Minneapolis Flying Cloud Airport	FCM	104,405	104,405	106,712	108,800	110,405	111,453	0.44%	0.41%	0.37%	0.33%
New Ulm	New Ulm Municipal Airport	ULM	7,792	7,792	7,807	7,803	7,761	7,680	0.04%	0.01%	-0.03%	-0.07%
Owatonna	Owatonna Degner Regional Airport	OWA	16,357	16,357	16,976	17,573	18,106	18,558	0.75%	0.72%	0.68%	0.63%
Park Rapids	Park Rapids Municipal Airport	PKD	19,476	19,476	20,185	20,868	21,473	21,980	0.72%	0.69%	0.65%	0.61%
Red Wing	Red Wing Regional Airport	RGK	11,751	11,751	12,190	12,614	12,991	13,310	0.74%	0.71%	0.67%	0.62%
St. Paul	Saint Paul Downtown Airport (Holman Field)	STP	40,934	40,934	41,772	42,520	43,078	43,417	0.41%	0.38%	0.34%	0.29%
Warroad	Warroad International Airport (Swede Carlson Field)	RRT	16,617	16,617	16,754	16,865	16,911	16,884	0.16%	0.15%	0.12%	0.08%
Willmar	Willmar Municipal Airport	BDH	24,429	24,429	25,411	26,367	27,229	27,974	0.79%	0.77%	0.73%	0.68%
Winona	Winona Municipal Airport (Max Conrad Field)	ONA	9,945	9,945	10,152	10,337	10,477	10,563	0.41%	0.39%	0.35%	0.30%
Worthington	Worthington Municipal Airport	OTG	11,078	11,078	11,249	11,385	11,460	11,465	0.31%	0.27%	0.23%	0.17%
<b>Intermediate Large</b>												
Aitkin	Aitkin Municipal Airport	AIT	13,733	13,733	14,176	14,598	14,962	15,255	0.64%	0.61%	0.57%	0.53%
Benson	Benson Municipal Airport	BBB	4,065	4,065	3,976	3,879	3,767	3,639	-0.44%	-0.47%	-0.51%	-0.55%
Bigfork	Bigfork Municipal Airport	FOZ	2,327	2,327	2,363	2,396	2,420	2,434	0.31%	0.29%	0.26%	0.23%
Cambridge	Cambridge Municipal Airport	CBG	9,821	9,821	10,569	11,346	12,122	12,885	1.48%	1.45%	1.41%	1.37%
Canby	Canby Municipal Airport (Myers Field)	CNB	7,080	7,080	6,938	6,783	6,598	6,386	-0.40%	-0.43%	-0.47%	-0.51%
Cloquet	Cloquet-Carlton County Airport	COQ	10,530	10,530	10,728	10,914	11,060	11,161	0.37%	0.36%	0.33%	0.29%
Cook	Cook Municipal Airport	CQM	5,022	5,022	5,083	5,138	5,174	5,187	0.24%	0.23%	0.20%	0.16%
Crookston	Crookston Municipal Airport (Kirkwood Field)	CKN	11,670	11,670	11,641	11,593	11,501	11,361	-0.05%	-0.07%	-0.10%	-0.13%
Detroit Lakes	Detroit Lakes Airport (Wething Field)	DTL	16,690	16,690	17,384	18,061	18,677	19,214	0.82%	0.79%	0.75%	0.71%



ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					COMPOUND ANNUAL GROWTH RATE (CAGR)			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Dodge Center	Dodge Center Municipal Airport	TOB	4,017	4,017	4,225	4,434	4,631	4,811	1.01%	0.99%	0.95%	0.91%
Eveleth	Eveleth-Virginia Municipal Airport	EVM	8,137	8,137	8,237	8,326	8,383	8,405	0.24%	0.23%	0.20%	0.16%
Faribault	Faribault Municipal Airport	FBL	19,169	19,169	20,013	20,843	21,605	22,279	0.87%	0.84%	0.80%	0.75%
Glenwood	Glenwood Municipal Airport	GHW	4,284	4,284	4,335	4,376	4,396	4,393	0.24%	0.21%	0.17%	0.13%
Granite Falls	Granite Falls Municipal Airport (Lenzen-Roe Memorial Field)	GDB	7,544	7,544	7,393	7,227	7,031	6,805	-0.40%	-0.43%	-0.47%	-0.51%
Hallock	Hallock Municipal Airport	HCO	13,380	13,380	13,331	13,261	13,143	12,968	-0.07%	-0.09%	-0.12%	-0.16%
Hutchinson	Hutchinson Municipal Airport (Butler Field)	HCD	7,844	7,844	8,081	8,305	8,495	8,644	0.60%	0.57%	0.53%	0.49%
Litchfield	Litchfield Municipal Airport	LJF	4,008	4,008	4,121	4,227	4,315	4,382	0.56%	0.53%	0.49%	0.45%
Little Falls	Little Falls-Morrison County Airport	LXL	19,184	19,184	19,565	19,904	20,153	20,300	0.39%	0.37%	0.33%	0.28%
Luverne	Luverne Municipal Airport	LYV	4,730	4,730	4,718	4,691	4,638	4,558	-0.05%	-0.08%	-0.13%	-0.19%
Minneapolis	Minneapolis Airlake Airport	LVN	21,055	21,055	22,781	24,587	26,411	28,223	1.59%	1.56%	1.52%	1.48%
Montevideo	Montevideo-Chippewa County Airport	MVE	7,058	7,058	6,967	6,861	6,724	6,555	-0.26%	-0.28%	-0.32%	-0.37%
Moorhead	Moorhead Municipal Airport	JKJ	8,867	8,867	9,199	9,510	9,777	9,991	0.74%	0.70%	0.65%	0.60%
Mora	Mora Municipal Airport	JMR	12,377	12,377	12,966	13,549	14,092	14,581	0.93%	0.91%	0.87%	0.82%
Morris	Morris Municipal Airport	MOX	9,366	9,366	9,360	9,331	9,259	9,139	-0.01%	-0.04%	-0.08%	-0.12%
Orr	Orr Regional Airport	ORB	1,357	1,357	1,374	1,388	1,398	1,402	0.25%	0.23%	0.20%	0.16%
Perham	Perham Municipal Airport	16D	6,235	6,235	6,374	6,500	6,597	6,661	0.44%	0.42%	0.38%	0.33%
Pipestone	Pipestone Municipal Airport	PQN	4,675	4,675	4,607	4,526	4,422	4,294	-0.29%	-0.32%	-0.37%	-0.42%
Preston	Preston Fillmore County Airport	FKA	2,449	2,449	2,461	2,466	2,461	2,443	0.10%	0.07%	0.03%	-0.01%
Princeton	Princeton Municipal Airport	PNM	7,548	7,548	7,941	8,332	8,702	9,041	1.02%	0.99%	0.95%	0.91%
Redwood Falls	Redwood Falls Municipal Airport	RWF	8,642	8,642	8,509	8,356	8,168	7,943	-0.31%	-0.34%	-0.38%	-0.42%
Roseau	Roseau Municipal Airport (Rudy Billberg Field)	ROX	14,103	14,103	14,218	14,313	14,352	14,329	0.16%	0.15%	0.12%	0.08%
Rush City	Rush City Municipal Airport	ROS	6,473	6,473	6,927	7,395	7,857	8,304	1.36%	1.34%	1.30%	1.25%
South St. Paul	South St. Paul Municipal Airport (Fleming Field)	SGS	49,331	49,331	53,374	57,605	61,879	66,124	1.59%	1.56%	1.52%	1.48%
St. James	Saint James Municipal Airport	JYG	3,908	3,908	3,872	3,827	3,765	3,684	-0.18%	-0.21%	-0.25%	-0.29%
Two Harbors	Two Harbors-Richard B. Helgeson Airport	TWM	4,429	4,429	4,490	4,544	4,582	4,599	0.27%	0.26%	0.23%	0.19%
Wadena	Wadena Municipal Airport	ADC	6,233	6,233	6,371	6,497	6,594	6,658	0.44%	0.42%	0.38%	0.33%
<b>Intermediate Small</b>												
Ada/Twin Valley	Ada-Norman County/Ada/Twin Valley Airport	D00	3,085	3,085	3,032	2,969	2,892	2,800	-0.35%	-0.38%	-0.43%	-0.48%
Appleton	Appleton Municipal Airport	AQP	2,034	2,034	1,989	1,941	1,885	1,821	-0.45%	-0.47%	-0.51%	-0.55%
Bagley	Bagley Municipal Airport	7Y4	434	434	442	449	453	456	0.37%	0.34%	0.29%	0.25%
Blue Earth	Blue Earth Municipal Airport	SBU	7,642	7,642	7,469	7,283	7,067	6,823	-0.46%	-0.48%	-0.52%	-0.57%
Brooten	Brooten Municipal Airport	6D1	1,248	1,248	1,324	1,402	1,477	1,548	1.19%	1.17%	1.13%	1.08%
Buffalo	Buffalo Municipal Airport	CFE	14,213	14,213	15,563	17,000	18,481	19,987	1.83%	1.81%	1.77%	1.72%
Caledonia	Caledonia-Houston County Airport	CHU	2,193	2,193	2,212	2,228	2,236	2,234	0.17%	0.16%	0.13%	0.09%
Duluth	Duluth-Sky Harbor Airport & Seaplane Base	DYT	11,472	11,472	11,614	11,738	11,819	11,850	0.25%	0.23%	0.20%	0.16%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					COMPOUND ANNUAL GROWTH RATE (CAGR)			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Elbow Lake	Elbow Lake Municipal Airport	Y63	6,691	6,691	6,597	6,486	6,346	6,179	-0.28%	-0.31%	-0.35%	-0.40%
Fertile	Fertile Municipal Airport	D14	7,851	7,851	7,832	7,799	7,737	7,643	-0.05%	-0.07%	-0.10%	-0.13%
Forest Lake	Forest Lake Airport	25D	6,878	6,878	7,556	8,280	9,031	9,799	1.90%	1.87%	1.83%	1.79%
Fosston	Fosston Municipal Airport	FSE	5,715	5,715	5,701	5,677	5,632	5,564	-0.05%	-0.07%	-0.10%	-0.13%
Glencoe	Glencoe Municipal Airport (Vernon Perschau Field)	GYL	8,150	8,150	8,397	8,629	8,827	8,981	0.60%	0.57%	0.53%	0.49%
Hawley	Hawley Municipal Airport	04Y	5,225	5,225	5,420	5,604	5,761	5,887	0.74%	0.70%	0.65%	0.60%
Hector	Hector Municipal Airport	1D6	6,074	6,074	5,952	5,820	5,663	5,482	-0.40%	-0.43%	-0.47%	-0.51%
Herman	Herman Municipal Airport	06Y	2,006	2,006	1,977	1,944	1,902	1,852	-0.29%	-0.31%	-0.35%	-0.40%
Jackson	Jackson Municipal Airport	MJQ	14,623	14,623	14,527	14,395	14,197	13,931	-0.13%	-0.16%	-0.20%	-0.24%
Le Sueur	Le Sueur Municipal Airport	12Y	1,614	1,614	1,669	1,721	1,767	1,804	0.67%	0.64%	0.61%	0.56%
Long Prairie	Long Prairie Airport (Todd Field)	14Y	4,410	4,410	4,469	4,517	4,545	4,549	0.27%	0.24%	0.20%	0.16%
Longville	Longville Municipal Airport	XVG	5,343	5,343	5,670	6,003	6,326	6,631	1.20%	1.17%	1.13%	1.09%
Madison	Madison-Lac Qui Parle Airport	DXX	2,340	2,340	2,312	2,278	2,235	2,181	-0.24%	-0.27%	-0.31%	-0.35%
Mahnomen	Mahnomen County Airport	3N8	1,621	1,621	1,637	1,649	1,654	1,649	0.20%	0.17%	0.13%	0.09%
Maple Lake	Maple Lake Municipal Airport & Seaplane Base	MGG	15,414	15,414	16,878	18,436	20,042	21,676	1.83%	1.81%	1.77%	1.72%
McGregor	McGregor-Isedor Iverson Airport	HZX	987	987	1,019	1,049	1,075	1,096	0.64%	0.61%	0.57%	0.53%
Minneapolis	Minneapolis Crystal Airport	MIC	41,541	41,541	42,459	43,290	43,928	44,345	0.44%	0.41%	0.37%	0.33%
Moose Lake	Moose Lake-Carlton County Airport	MZH	3,171	3,171	3,230	3,286	3,330	3,361	0.37%	0.36%	0.33%	0.29%
Olivia	Olivia Regional Airport	OVL	4,688	4,688	4,595	4,492	4,371	4,232	-0.40%	-0.43%	-0.47%	-0.51%
Ortonville	Ortonville Municipal Airport (Martinson Field)	VVV	3,221	3,221	3,142	3,058	2,962	2,854	-0.50%	-0.52%	-0.56%	-0.60%
Paynesville	Paynesville Municipal Airport	PEX	2,984	2,984	3,166	3,351	3,531	3,701	1.19%	1.17%	1.13%	1.08%
Pine River	Pine River Regional Airport	PWC	5,003	5,003	5,310	5,622	5,924	6,210	1.20%	1.17%	1.13%	1.09%
Pinecreek	Piney-Pinecreek Border Airport	48Y	431	431	434	437	438	438	0.14%	0.14%	0.11%	0.08%
Red Lake Falls	Red Lake Falls Municipal Airport	D81	11,345	11,345	11,409	11,457	11,460	11,412	0.11%	0.10%	0.07%	0.03%
Rushford	Rushford Municipal Airport	55Y	1,374	1,374	1,381	1,384	1,381	1,371	0.10%	0.07%	0.03%	-0.01%
Sauk Centre	Sauk Centre Municipal Airport	D39	3,889	3,889	4,127	4,368	4,602	4,823	1.20%	1.17%	1.13%	1.08%
Slayton	Slayton Municipal Airport	DVP	3,300	3,300	3,273	3,239	3,190	3,125	-0.16%	-0.19%	-0.23%	-0.27%
Springfield	Springfield Municipal Airport	D42	2,142	2,142	2,146	2,145	2,134	2,111	0.04%	0.01%	-0.02%	-0.07%
St. Paul	Saint Paul-Lake Elmo Airport	21D	16,421	16,421	18,039	19,768	21,561	23,393	1.90%	1.87%	1.83%	1.79%
Staples	Staples Municipal Airport	SAZ	7,207	7,207	7,322	7,421	7,486	7,511	0.32%	0.29%	0.25%	0.21%
Stephen	Stephen Municipal Airport	D41	12,023	12,023	11,987	11,933	11,833	11,683	-0.06%	-0.08%	-0.11%	-0.14%
Tower	Tower Municipal Airport	12D	3,517	3,517	3,560	3,599	3,624	3,633	0.24%	0.23%	0.20%	0.16%
Tracy	Tracy Municipal Airport	TKC	1,217	1,217	1,242	1,264	1,280	1,289	0.41%	0.38%	0.34%	0.29%
Walker	Walker Municipal Airport	Y49	5,152	5,152	5,468	5,789	6,100	6,394	1.20%	1.17%	1.13%	1.09%
Warren	Warren Municipal Airport	D37	9,062	9,062	9,035	8,995	8,919	8,806	-0.06%	-0.07%	-0.11%	-0.14%
Waseca	Waseca Municipal Airport	ACQ	13,211	13,211	13,361	13,480	13,535	13,520	0.23%	0.20%	0.16%	0.12%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					COMPOUND ANNUAL GROWTH RATE (CAGR)			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Wheaton	Wheaton Municipal Airport	ETH	3,056	3,056	3,023	2,981	2,928	2,860	-0.22%	-0.25%	-0.28%	-0.33%
Windom	Windom Municipal Airport	MWM	5,496	5,496	5,463	5,416	5,345	5,246	-0.12%	-0.15%	-0.19%	-0.23%
<b>Landing Strip Turf</b>												
Backus	Backus Municipal Airport	7Y3	4,017	4,017	4,263	4,514	4,756	4,986	1.20%	1.17%	1.13%	1.09%
Big Falls	Big Falls Municipal Airport	7Y9	200	200	198	196	194	190	-0.20%	-0.20%	-0.20%	-0.26%
Bowstring	Bowstring Airport	9Y0	323	323	328	332	336	338	0.31%	0.28%	0.26%	0.23%
Clarissa	Clarissa Municipal Airport	8Y5	456	456	462	467	470	470	0.26%	0.24%	0.20%	0.15%
East Gull Lake	East Gull Lake Airport	9Y2	198	198	210	223	235	246	1.18%	1.20%	1.15%	1.09%
Grygla	Grygla Municipal Airport (Mel Wilkens Field)	3G2	200	200	199	199	197	194	-0.10%	-0.05%	-0.10%	-0.15%
Henning	Henning Municipal Airport	05Y	1,517	1,517	1,551	1,581	1,605	1,620	0.44%	0.41%	0.38%	0.33%
Hill City	Hill City-Quadna Mountain Airport	07Y	560	560	578	595	610	622	0.63%	0.61%	0.57%	0.53%
Karlstad	Karlstad Municipal Airport	23D	2,006	2,006	1,998	1,988	1,970	1,944	-0.08%	-0.09%	-0.12%	-0.16%
Littlefork	Littlefork Municipal Hanover Airport	13Y	700	700	694	688	678	666	-0.17%	-0.17%	-0.21%	-0.25%
Milaca	Milaca Municipal Airport	18Y	5,006	5,006	5,266	5,526	5,772	5,997	1.02%	0.99%	0.95%	0.91%
Northome	Northome Municipal Airport	43Y	311	311	309	306	302	296	-0.13%	-0.16%	-0.20%	-0.25%
Pelican Rapids	Pelican Rapids Municipal Airport	47Y	1,664	1,664	1,701	1,735	1,760	1,777	0.44%	0.42%	0.37%	0.33%
Remer	Remer Municipal Airport	52Y	512	512	543	575	606	636	1.18%	1.17%	1.13%	1.09%
Sleepy Eye	Sleepy Eye Municipal Airport	Y58	5,000	5,000	5,010	5,007	4,980	4,928	0.04%	0.01%	-0.03%	-0.07%
Starbuck	Starbuck Municipal Airport	D32	1,172	1,172	1,186	1,197	1,203	1,202	0.24%	0.21%	0.17%	0.13%
Tyler	Tyler Municipal Airport	63Y	1,606	1,606	1,574	1,538	1,497	1,449	-0.40%	-0.43%	-0.47%	-0.51%
Waskish	Waskish Municipal Airport	VWU	1,006	1,006	1,057	1,108	1,155	1,198	0.99%	0.97%	0.93%	0.88%
Waskish	Wells Municipal Airport	68Y	5,018	5,018	4,905	4,782	4,641	4,480	-0.45%	-0.48%	-0.52%	-0.57%
Winsted	Winsted Municipal Airport	10D	9,986	9,986	10,289	10,573	10,815	11,005	0.60%	0.57%	0.53%	0.49%
<b>STATEWIDE TOTAL (General Aviation [GA] ONLY)</b>			<b>1,262,979</b>	<b>1,262,979</b>	<b>1,301,620</b>	<b>1,339,446</b>	<b>1,373,232</b>	<b>1,401,945</b>	<b>0.60%</b>	<b>0.59%</b>	<b>0.56%</b>	<b>0.52%</b>

Sources: Woods & Poole, 2021; Kimley-Horn, 2022

Table A.3. 2022 MnSASP Forecast Alternative: Socioeconomic – Per Capita Personal Income (PCPI)

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
<b>Key General Aviation</b>												
Albert Lea	Albert Lea Municipal Airport	AEL	18,523	18,523	20,175	21,725	23,087	24,396	1.72%	1.61%	1.48%	1.39%
Alexandria	Alexandria Municipal Airport (Chandler Field)	AXN	20,598	20,598	22,379	24,032	25,481	26,875	1.67%	1.55%	1.43%	1.34%
Austin	Austin Municipal Airport	AUM	21,505	21,505	23,322	25,048	26,591	28,111	1.64%	1.54%	1.43%	1.35%
Baudette	Baudette International Airport	BDE	7,503	7,503	8,101	8,635	9,057	9,433	1.55%	1.42%	1.26%	1.15%
Ely	Ely Municipal Airport	ELO	7,550	7,550	8,146	8,711	9,219	9,717	1.53%	1.44%	1.34%	1.27%
Fairmont	Fairmont Municipal Airport	FRM	9,267	9,267	10,107	10,913	11,643	12,361	1.75%	1.65%	1.53%	1.45%
Fergus Falls	Fergus Falls Municipal Airport (Einar Mickelson Field)	FFM	13,016	13,016	14,140	15,173	16,055	16,884	1.67%	1.55%	1.41%	1.31%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Grand Marais	Grand Marais-Cook County Airport	CKC	3,762	3,762	4,066	4,343	4,575	4,792	1.57%	1.45%	1.31%	1.22%
Grand Rapids	Grand Rapids-Itasca County Airport (Gordon Newstrom Field)	GPZ	25,230	25,230	27,560	29,716	31,540	33,249	1.78%	1.65%	1.50%	1.39%
Mankato	Mankato Municipal Airport	MKT	100,062	100,062	108,168	115,943	123,046	130,083	1.57%	1.48%	1.39%	1.32%
Marshall	Marshall-Southwest Minnesota Regional Airport-Marshall/Ryan Field	MML	15,926	15,926	17,539	19,151	20,730	22,397	1.95%	1.86%	1.77%	1.72%
Minneapolis	Minneapolis Anoka County/Blaine Airport (Janes Field)	ANE	71,740	71,740	75,754	79,238	82,064	84,631	1.09%	1.00%	0.90%	0.83%
Minneapolis	Minneapolis Flying Cloud Airport	FCM	104,405	104,405	113,760	123,095	132,179	141,549	1.73%	1.66%	1.58%	1.53%
New Ulm	New Ulm Municipal Airport	ULM	7,792	7,792	8,488	9,148	9,746	10,336	1.73%	1.62%	1.50%	1.42%
Owatonna	Owatonna Degner Regional Airport	OWA	16,357	16,357	17,637	18,816	19,840	20,810	1.52%	1.41%	1.30%	1.21%
Park Rapids	Park Rapids Municipal Airport	PKD	19,476	19,476	21,174	22,699	23,934	25,044	1.69%	1.54%	1.38%	1.27%
Red Wing	Red Wing Regional Airport	RGK	11,751	11,751	12,663	13,518	14,277	15,010	1.51%	1.41%	1.31%	1.23%
St. Paul	Saint Paul Downtown Airport (Holman Field)	STP	40,934	40,934	44,384	47,692	50,693	53,638	1.63%	1.54%	1.44%	1.36%
Warroad	Warroad International Airport (Swede Carlson Field)	RRT	16,617	16,617	17,948	19,182	20,293	21,379	1.55%	1.45%	1.34%	1.27%
Willmar	Willmar Municipal Airport	BDH	24,429	24,429	26,386	28,217	29,846	31,438	1.55%	1.45%	1.34%	1.27%
Winona	Winona Municipal Airport (Max Conrad Field)	ONA	9,945	9,945	10,799	11,619	12,380	13,150	1.66%	1.57%	1.47%	1.41%
Worthington	Worthington Municipal Airport	OTG	11,078	11,078	11,876	12,618	13,268	13,896	1.40%	1.31%	1.21%	1.14%
<b>Intermediate Large</b>												
Aitkin	Aitkin Municipal Airport	AIT	13,733	13,733	15,025	16,198	17,145	17,994	1.81%	1.66%	1.49%	1.36%
Benson	Benson Municipal Airport	BBB	4,065	4,065	4,445	4,801	5,113	5,413	1.80%	1.68%	1.54%	1.44%
Bigfork	Bigfork Municipal Airport	FOZ	2,327	2,327	2,541	2,740	2,909	3,066	1.78%	1.65%	1.50%	1.39%
Cambridge	Cambridge Municipal Airport	CBG	9,821	9,821	10,504	11,112	11,608	12,056	1.35%	1.24%	1.12%	1.03%
Canby	Canby Municipal Airport (Myers Field)	CNB	7,080	7,080	7,754	8,396	8,978	9,548	1.84%	1.72%	1.60%	1.51%
Cloquet	Cloquet-Carlton County Airport	COQ	10,530	10,530	11,360	12,145	12,852	13,545	1.53%	1.44%	1.34%	1.27%
Cook	Cook Municipal Airport	CQM	5,022	5,022	5,418	5,794	6,132	6,463	1.53%	1.44%	1.34%	1.27%
Crookston	Crookston Municipal Airport (Kirkwood Field)	CKN	11,670	11,670	12,537	13,305	13,920	14,464	1.44%	1.32%	1.18%	1.08%
Detroit Lakes	Detroit Lakes Airport (Wething Field)	DTL	16,690	16,690	18,143	19,492	20,664	21,786	1.68%	1.56%	1.43%	1.34%
Dodge Center	Dodge Center Municipal Airport	TOB	4,017	4,017	4,284	4,521	4,726	4,924	1.30%	1.19%	1.09%	1.02%
Eveleth	Eveleth-Virginia Municipal Airport	EVM	8,137	8,137	8,780	9,388	9,937	10,473	1.53%	1.44%	1.34%	1.27%
Faribault	Faribault Municipal Airport	FBL	19,169	19,169	20,686	22,096	23,342	24,542	1.53%	1.43%	1.32%	1.24%
Glenwood	Glenwood Municipal Airport	GHW	4,284	4,284	4,703	5,112	5,499	5,894	1.88%	1.78%	1.68%	1.61%
Granite Falls	Granite Falls Municipal Airport (Lenzen-Roe Memorial Field)	GDB	7,544	7,544	8,263	8,946	9,567	10,174	1.84%	1.72%	1.60%	1.51%
Hallock	Hallock Municipal Airport	HCO	13,380	13,380	14,454	15,444	16,301	17,107	1.56%	1.44%	1.33%	1.24%
Hutchinson	Hutchinson Municipal Airport (Butler Field)	HCD	7,844	7,844	8,497	9,106	9,646	10,170	1.61%	1.50%	1.39%	1.31%
Litchfield	Litchfield Municipal Airport	LJF	4,008	4,008	4,345	4,654	4,925	5,186	1.63%	1.51%	1.38%	1.30%
Little Falls	Little Falls-Morrison County Airport	LXL	19,184	19,184	20,797	22,278	23,538	24,721	1.63%	1.51%	1.37%	1.28%
Luverne	Luverne Municipal Airport	LYV	4,730	4,730	5,112	5,467	5,779	6,078	1.57%	1.46%	1.34%	1.26%
Minneapolis	Minneapolis Airlake Airport	LVN	21,055	21,055	22,519	23,894	25,158	26,419	1.35%	1.27%	1.19%	1.14%



ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Montevideo	Montevideo-Chippewa County Airport	MVE	7,058	7,058	7,771	8,465	9,122	9,792	1.94%	1.83%	1.72%	1.65%
Moorhead	Moorhead Municipal Airport	JKJ	8,867	8,867	9,511	10,108	10,624	11,116	1.41%	1.32%	1.21%	1.14%
Mora	Mora Municipal Airport	JMR	12,377	12,377	13,327	14,144	14,770	15,313	1.49%	1.34%	1.19%	1.07%
Morris	Morris Municipal Airport	MOX	9,366	9,366	10,226	11,062	11,854	12,655	1.77%	1.68%	1.58%	1.52%
Orr	Orr Regional Airport	ORB	1,357	1,357	1,464	1,566	1,657	1,747	1.53%	1.44%	1.34%	1.27%
Perham	Perham Municipal Airport	16D	6,235	6,235	6,774	7,269	7,691	8,088	1.67%	1.55%	1.41%	1.31%
Pipestone	Pipestone Municipal Airport	PQN	4,675	4,675	5,126	5,569	5,991	6,425	1.86%	1.77%	1.67%	1.60%
Preston	Preston Fillmore County Airport	FKA	2,449	2,449	2,648	2,829	2,984	3,130	1.57%	1.45%	1.33%	1.23%
Princeton	Princeton Municipal Airport	PNM	7,548	7,548	8,139	8,660	9,063	9,411	1.52%	1.38%	1.23%	1.11%
Redwood Falls	Redwood Falls Municipal Airport	RWF	8,642	8,642	9,419	10,155	10,823	11,477	1.74%	1.63%	1.51%	1.43%
Roseau	Roseau Municipal Airport (Rudy Billberg Field)	ROX	14,103	14,103	15,232	16,279	17,222	18,144	1.55%	1.45%	1.34%	1.27%
Rush City	Rush City Municipal Airport	ROS	6,473	6,473	6,916	7,309	7,635	7,934	1.33%	1.22%	1.11%	1.02%
South St. Paul	South St. Paul Municipal Airport (Fleming Field)	SGS	49,331	49,331	52,760	55,982	58,943	61,897	1.35%	1.27%	1.19%	1.14%
St. James	Saint James Municipal Airport	JYG	3,908	3,908	4,231	4,527	4,779	5,015	1.60%	1.48%	1.35%	1.25%
Two Harbors	Two Harbors-Richard B. Helgeson Airport	TWM	4,429	4,429	4,835	5,216	5,544	5,853	1.77%	1.65%	1.51%	1.40%
Wadena	Wadena Municipal Airport	ADC	6,233	6,233	6,771	7,265	7,688	8,084	1.67%	1.54%	1.41%	1.31%
<b>Intermediate Small</b>												
Ada/Twin Valley	Ada-Norman County/Ada/Twin Valley Airport	D00	3,085	3,085	3,367	3,635	3,875	4,108	1.76%	1.65%	1.53%	1.44%
Appleton	Appleton Municipal Airport	AQP	2,034	2,034	2,224	2,402	2,558	2,708	1.80%	1.68%	1.54%	1.44%
Bagley	Bagley Municipal Airport	7Y4	434	434	474	511	541	569	1.78%	1.65%	1.48%	1.36%
Blue Earth	Blue Earth Municipal Airport	SBU	7,642	7,642	8,342	9,004	9,598	10,175	1.77%	1.65%	1.53%	1.44%
Brooten	Brooten Municipal Airport	6D1	1,248	1,248	1,347	1,440	1,523	1,603	1.54%	1.44%	1.34%	1.26%
Buffalo	Buffalo Municipal Airport	CFE	14,213	14,213	15,125	15,926	16,602	17,239	1.25%	1.14%	1.04%	0.97%
Caledonia	Caledonia-Houston County Airport	CHU	2,193	2,193	2,354	2,496	2,615	2,724	1.43%	1.30%	1.18%	1.09%
Duluth	Duluth-Sky Harbor Airport & Seaplane Base	DYT	11,472	11,472	12,379	13,236	14,009	14,766	1.53%	1.44%	1.34%	1.27%
Elbow Lake	Elbow Lake Municipal Airport	Y63	6,691	6,691	7,357	7,995	8,580	9,161	1.92%	1.80%	1.67%	1.58%
Fertile	Fertile Municipal Airport	D14	7,851	7,851	8,435	8,951	9,365	9,731	1.45%	1.32%	1.18%	1.08%
Forest Lake	Forest Lake Airport	25D	6,878	6,878	7,278	7,647	7,980	8,310	1.14%	1.07%	1.00%	0.95%
Fosston	Fosston Municipal Airport	FSE	5,715	5,715	6,140	6,516	6,817	7,084	1.44%	1.32%	1.18%	1.08%
Glencoe	Glencoe Municipal Airport (Vernon Perschau Field)	GYL	8,150	8,150	8,829	9,462	10,023	10,567	1.61%	1.50%	1.39%	1.31%
Hawley	Hawley Municipal Airport	04Y	5,225	5,225	5,604	5,956	6,260	6,550	1.41%	1.32%	1.21%	1.14%
Hector	Hector Municipal Airport	1D6	6,074	6,074	6,602	7,105	7,563	8,015	1.68%	1.58%	1.47%	1.40%
Herman	Herman Municipal Airport	06Y	2,006	2,006	2,205	2,396	2,572	2,746	1.91%	1.79%	1.67%	1.58%
Jackson	Jackson Municipal Airport	MJQ	14,623	14,623	16,028	17,413	18,744	20,110	1.85%	1.76%	1.67%	1.61%
Le Sueur	Le Sueur Municipal Airport	12Y	1,614	1,614	1,732	1,836	1,926	2,012	1.42%	1.30%	1.19%	1.11%
Long Prairie	Long Prairie Airport (Todd Field)	14Y	4,410	4,410	4,787	5,125	5,400	5,649	1.65%	1.51%	1.36%	1.25%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Longville	Longville Municipal Airport	XVG	5,343	5,343	5,781	6,170	6,475	6,743	1.59%	1.45%	1.29%	1.17%
Madison	Madison-Lac Qui Parle Airport	DXX	2,340	2,340	2,554	2,758	2,942	3,122	1.77%	1.66%	1.54%	1.45%
Mahnomen	Mahnomen County Airport	3N8	1,621	1,621	1,786	1,937	2,061	2,174	1.96%	1.80%	1.61%	1.48%
Maple Lake	Maple Lake Municipal Airport & Seaplane Base	MGG	15,414	15,414	16,403	17,271	18,005	18,696	1.25%	1.14%	1.04%	0.97%
McGregor	McGregor-Isedor Iverson Airport	HZX	987	987	1,080	1,164	1,232	1,293	1.82%	1.66%	1.49%	1.36%
Minneapolis	Minneapolis Crystal Airport	MIC	41,541	41,541	45,263	48,977	52,592	56,320	1.73%	1.66%	1.58%	1.53%
Moose Lake	Moose Lake-Carlton County Airport	MZH	3,171	3,171	3,421	3,657	3,870	4,078	1.53%	1.44%	1.34%	1.27%
Olivia	Olivia Regional Airport	OVL	4,688	4,688	5,096	5,484	5,838	6,187	1.68%	1.58%	1.47%	1.40%
Ortonville	Ortonville Municipal Airport (Martinson Field)	VVV	3,221	3,221	3,554	3,872	4,158	4,440	1.99%	1.86%	1.72%	1.62%
Paynesville	Paynesville Municipal Airport	PEX	2,984	2,984	3,220	3,443	3,640	3,831	1.53%	1.44%	1.33%	1.26%
Pine River	Pine River Regional Airport	PWC	5,003	5,003	5,414	5,778	6,063	6,315	1.59%	1.45%	1.29%	1.17%
Pinecreek	Piney-Pinecreek Border Airport	48Y	431	431	465	497	526	554	1.53%	1.44%	1.34%	1.26%
Red Lake Falls	Red Lake Falls Municipal Airport	D81	11,345	11,345	12,111	12,768	13,280	13,723	1.32%	1.19%	1.06%	0.96%
Rushford	Rushford Municipal Airport	55Y	1,374	1,374	1,486	1,588	1,675	1,757	1.58%	1.46%	1.33%	1.24%
Sauk Centre	Sauk Centre Municipal Airport	D39	3,889	3,889	4,197	4,487	4,745	4,994	1.54%	1.44%	1.34%	1.26%
Slayton	Slayton Municipal Airport	DVP	3,300	3,300	3,591	3,866	4,117	4,365	1.70%	1.60%	1.49%	1.41%
Springfield	Springfield Municipal Airport	D42	2,142	2,142	2,333	2,515	2,679	2,841	1.72%	1.62%	1.50%	1.42%
St. Paul	Saint Paul-Lake Elmo Airport	21D	16,421	16,421	17,375	18,258	19,053	19,839	1.14%	1.07%	1.00%	0.95%
Staples	Staples Municipal Airport	SAZ	7,207	7,207	7,921	8,589	9,147	9,660	1.91%	1.77%	1.60%	1.48%
Stephen	Stephen Municipal Airport	D41	12,023	12,023	12,933	13,730	14,383	14,976	1.47%	1.34%	1.20%	1.10%
Tower	Tower Municipal Airport	12D	3,517	3,517	3,795	4,058	4,295	4,527	1.53%	1.44%	1.34%	1.27%
Tracy	Tracy Municipal Airport	TKC	1,217	1,217	1,341	1,464	1,585	1,712	1.96%	1.87%	1.78%	1.72%
Walker	Walker Municipal Airport	Y49	5,152	5,152	5,574	5,950	6,243	6,502	1.59%	1.45%	1.29%	1.17%
Warren	Warren Municipal Airport	D37	9,062	9,062	9,748	10,349	10,842	11,289	1.47%	1.34%	1.20%	1.10%
Waseca	Waseca Municipal Airport	ACQ	13,211	13,211	14,251	15,203	16,031	16,820	1.53%	1.41%	1.30%	1.21%
Wheaton	Wheaton Municipal Airport	ETH	3,056	3,056	3,323	3,575	3,800	4,016	1.69%	1.58%	1.46%	1.38%
Windom	Windom Municipal Airport	MWM	5,496	5,496	5,991	6,457	6,871	7,272	1.74%	1.62%	1.50%	1.41%
<b>Landing Strip Turf</b>												
Backus	Backus Municipal Airport	7Y3	4,017	4,017	4,347	4,639	4,868	5,070	1.59%	1.45%	1.29%	1.17%
Big Falls	Big Falls Municipal Airport	7Y9	200	200	217	233	245	256	1.64%	1.54%	1.36%	1.24%
Bowstring	Bowstring Airport	9Y0	323	323	352	380	403	425	1.73%	1.64%	1.49%	1.38%
Clarissa	Clarissa Municipal Airport	8Y5	456	456	495	530	558	584	1.65%	1.52%	1.35%	1.24%
East Gull Lake	East Gull Lake Airport	9Y2	198	198	215	229	240	250	1.66%	1.47%	1.29%	1.17%
Grygla	Grygla Municipal Airport (Mel Wilkens Field)	3G2	200	200	215	228	239	249	1.46%	1.32%	1.19%	1.10%
Henning	Henning Municipal Airport	05Y	1,517	1,517	1,648	1,768	1,871	1,968	1.67%	1.54%	1.41%	1.31%
Hill City	Hill City-Quadna Mountain Airport	07Y	560	560	613	661	699	734	1.83%	1.67%	1.49%	1.36%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Karlstad	Karlstad Municipal Airport	23D	2,006	2,006	2,167	2,315	2,444	2,564	1.56%	1.44%	1.33%	1.23%
Littlefork	Littlefork Municipal Hanover Airport	13Y	700	700	761	816	859	898	1.69%	1.55%	1.37%	1.25%
Milaca	Milaca Municipal Airport	18Y	5,006	5,006	5,398	5,744	6,011	6,242	1.52%	1.38%	1.23%	1.11%
Northome	Northome Municipal Airport	43Y	311	311	339	363	382	399	1.74%	1.56%	1.38%	1.25%
Pelican Rapids	Pelican Rapids Municipal Airport	47Y	1,664	1,664	1,808	1,940	2,052	2,158	1.67%	1.55%	1.41%	1.31%
Remer	Remer Municipal Airport	52Y	512	512	554	591	621	646	1.59%	1.45%	1.30%	1.17%
Sleepy Eye	Sleepy Eye Municipal Airport	Y58	5,000	5,000	5,446	5,870	6,254	6,632	1.72%	1.62%	1.50%	1.42%
Starbuck	Starbuck Municipal Airport	D32	1,172	1,172	1,287	1,399	1,504	1,613	1.89%	1.79%	1.68%	1.61%
Tyler	Tyler Municipal Airport	63Y	1,606	1,606	1,769	1,929	2,078	2,230	1.95%	1.85%	1.73%	1.65%
Waskish	Waskish Municipal Airport	VWU	1,006	1,006	1,092	1,169	1,233	1,291	1.65%	1.51%	1.37%	1.25%
Waskish	Wells Municipal Airport	68Y	5,018	5,018	5,478	5,912	6,303	6,682	1.77%	1.65%	1.53%	1.44%
Winsted	Winsted Municipal Airport	10D	9,986	9,986	10,818	11,594	12,281	12,948	1.61%	1.50%	1.39%	1.31%
<b>STATEWIDE TOTAL (GA ONLY)</b>			<b>1,262,979</b>	<b>1,262,979</b>	<b>1,365,524</b>	<b>1,461,753</b>	<b>1,547,517</b>	<b>1,630,995</b>	<b>1.57%</b>	<b>1.47%</b>	<b>1.36%</b>	<b>1.29%</b>

Sources: Woods & Poole (W&P), 2021; Kimley-Horn, 2021

Table A.4. 2022 MnSASP Forecast Alternative: GA Flight Hours Flown

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
<b>Key General Aviation</b>												
Albert Lea	Albert Lea Municipal Airport	AEL	18,523	18,523	20,912	21,625	22,323	23,301	2.46%	1.56%	1.25%	1.15%
Alexandria	Alexandria Municipal Airport (Chandler Field)	AXN	20,598	20,598	23,255	24,048	24,823	25,910	2.46%	1.56%	1.25%	1.15%
Austin	Austin Municipal Airport	AUM	21,505	21,505	24,279	25,106	25,916	27,051	2.46%	1.56%	1.25%	1.15%
Baudette	Baudette International Airport	BDE	7,503	7,503	8,471	8,759	9,042	9,438	2.46%	1.56%	1.25%	1.15%
Ely	Ely Municipal Airport	ELO	7,550	7,550	8,524	8,814	9,098	9,497	2.46%	1.56%	1.25%	1.15%
Fairmont	Fairmont Municipal Airport	FRM	9,267	9,267	10,462	10,818	11,167	11,656	2.46%	1.56%	1.25%	1.15%
Fergus Falls	Fergus Falls Municipal Airport (Einar Mickelson Field)	FFM	13,016	13,016	14,695	15,196	15,686	16,373	2.46%	1.56%	1.25%	1.15%
Grand Marais	Grand Marais-Cook County Airport	CKC	3,762	3,762	4,248	4,392	4,534	4,733	2.46%	1.56%	1.25%	1.15%
Grand Rapids	Grand Rapids-Itasca County Airport (Gordon Newstrom Field)	GPZ	25,230	25,230	28,485	29,456	30,405	31,737	2.46%	1.56%	1.25%	1.15%
Mankato	Mankato Municipal Airport	MKT	100,062	100,062	112,968	116,820	120,585	125,868	2.46%	1.56%	1.25%	1.15%
Marshall	Marshall-Southwest Minnesota Regional Airport-Marshall/Ryan Field	MML	15,926	15,926	17,980	18,593	19,192	20,033	2.46%	1.56%	1.25%	1.15%
Minneapolis	Minneapolis Anoka County/Blaine Airport (Janes Field)	ANE	71,740	71,740	80,993	83,754	86,454	90,242	2.46%	1.56%	1.25%	1.15%
Minneapolis	Minneapolis Flying Cloud Airport	FCM	104,405	104,405	117,871	121,890	125,819	131,331	2.46%	1.56%	1.25%	1.15%
New Ulm	New Ulm Municipal Airport	ULM	7,792	7,792	8,797	9,097	9,390	9,802	2.46%	1.56%	1.25%	1.15%
Owatonna	Owatonna Degner Regional Airport	OWA	16,357	16,357	18,467	19,097	19,712	20,576	2.46%	1.56%	1.25%	1.15%
Park Rapids	Park Rapids Municipal Airport	PKD	19,476	19,476	21,988	22,737	23,470	24,499	2.46%	1.56%	1.25%	1.15%
Red Wing	Red Wing Regional Airport	RGK	11,751	11,751	13,267	13,719	14,161	14,782	2.46%	1.56%	1.25%	1.15%
St. Paul	Saint Paul Downtown Airport (Holman Field)	STP	40,934	40,934	46,214	47,789	49,330	51,491	2.46%	1.56%	1.25%	1.15%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Warroad	Warroad International Airport (Swede Carlson Field)	RRT	16,617	16,617	18,761	19,400	20,026	20,903	2.46%	1.56%	1.25%	1.15%
Willmar	Willmar Municipal Airport	BDH	24,429	24,429	27,580	28,521	29,440	30,730	2.46%	1.56%	1.25%	1.15%
Winona	Winona Municipal Airport (Max Conrad Field)	ONA	9,945	9,945	11,227	11,610	11,984	12,509	2.45%	1.56%	1.25%	1.15%
Worthington	Worthington Municipal Airport	OTG	11,078	11,078	12,507	12,933	13,350	13,935	2.46%	1.56%	1.25%	1.15%
<b>Intermediate Large</b>												
Aitkin	Aitkin Municipal Airport	AIT	13,733	13,733	15,504	16,032	16,549	17,274	2.46%	1.56%	1.25%	1.15%
Benson	Benson Municipal Airport	BBB	4,065	4,065	4,590	4,746	4,899	5,114	2.46%	1.56%	1.25%	1.15%
Bigfork	Bigfork Municipal Airport	FOZ	2,327	2,327	2,627	2,716	2,804	2,927	2.45%	1.56%	1.25%	1.15%
Cambridge	Cambridge Municipal Airport	CBG	9,821	9,821	11,088	11,466	11,835	12,354	2.46%	1.56%	1.25%	1.15%
Canby	Canby Municipal Airport (Myers Field)	CNB	7,080	7,080	7,993	8,266	8,532	8,906	2.46%	1.56%	1.25%	1.15%
Cloquet	Cloquet-Carlton County Airport	COQ	10,530	10,530	11,888	12,293	12,690	13,246	2.46%	1.56%	1.25%	1.15%
Cook	Cook Municipal Airport	CQM	5,022	5,022	5,669	5,863	6,052	6,317	2.45%	1.56%	1.25%	1.15%
Crookston	Crookston Municipal Airport (Kirkwood Field)	CKN	11,670	11,670	13,175	13,624	14,063	14,679	2.46%	1.56%	1.25%	1.15%
Detroit Lakes	Detroit Lakes Airport (Wething Field)	DTL	16,690	16,690	18,842	19,485	20,113	20,994	2.46%	1.56%	1.25%	1.15%
Dodge Center	Dodge Center Municipal Airport	TOB	4,017	4,017	4,535	4,689	4,841	5,053	2.46%	1.56%	1.25%	1.15%
Eveleth	Eveleth-Virginia Municipal Airport	EVM	8,137	8,137	9,187	9,500	9,806	10,236	2.46%	1.56%	1.25%	1.15%
Faribault	Faribault Municipal Airport	FBL	19,169	19,169	21,642	22,380	23,101	24,113	2.46%	1.56%	1.25%	1.15%
Glenwood	Glenwood Municipal Airport	GHW	4,284	4,284	4,837	5,001	5,163	5,389	2.46%	1.56%	1.25%	1.15%
Granite Falls	Granite Falls Municipal Airport (Lenzen-Roe Memorial Field)	GDB	7,544	7,544	8,517	8,808	9,092	9,490	2.46%	1.56%	1.25%	1.15%
Hallock	Hallock Municipal Airport	HCO	13,380	13,380	15,105	15,620	16,124	16,830	2.45%	1.56%	1.25%	1.15%
Hutchinson	Hutchinson Municipal Airport (Butler Field)	HCD	7,844	7,844	8,855	9,157	9,452	9,867	2.45%	1.56%	1.25%	1.15%
Litchfield	Litchfield Municipal Airport	LJF	4,008	4,008	4,525	4,679	4,830	5,042	2.46%	1.56%	1.25%	1.15%
Little Falls	Little Falls-Morrison County Airport	LXL	19,184	19,184	21,659	22,397	23,119	24,132	2.46%	1.56%	1.25%	1.15%
Luverne	Luverne Municipal Airport	LYV	4,730	4,730	5,340	5,522	5,700	5,950	2.46%	1.56%	1.25%	1.15%
Minneapolis	Minneapolis Airlake Airport	LVN	21,055	21,055	23,771	24,582	25,374	26,486	2.46%	1.56%	1.25%	1.15%
Montevideo	Montevideo-Chippewa County Airport	MVE	7,058	7,058	7,969	8,240	8,506	8,879	2.46%	1.56%	1.25%	1.15%
Moorhead	Moorhead Municipal Airport	JKJ	8,867	8,867	10,011	10,352	10,686	11,154	2.46%	1.56%	1.25%	1.15%
Mora	Mora Municipal Airport	JMR	12,377	12,377	13,973	14,450	14,916	15,569	2.46%	1.56%	1.25%	1.15%
Morris	Morris Municipal Airport	MOX	9,366	9,366	10,574	10,934	11,287	11,781	2.46%	1.56%	1.25%	1.15%
Orr	Orr Regional Airport	ORB	1,357	1,357	1,532	1,584	1,635	1,707	2.46%	1.56%	1.25%	1.15%
Perham	Perham Municipal Airport	16D	6,235	6,235	7,040	7,280	7,514	7,843	2.46%	1.56%	1.25%	1.15%
Pipestone	Pipestone Municipal Airport	PQN	4,675	4,675	5,278	5,458	5,634	5,881	2.46%	1.56%	1.25%	1.15%
Preston	Preston Fillmore County Airport	FKA	2,449	2,449	2,764	2,859	2,951	3,080	2.45%	1.56%	1.25%	1.15%
Princeton	Princeton Municipal Airport	PNM	7,548	7,548	8,522	8,812	9,096	9,495	2.46%	1.56%	1.25%	1.15%
Redwood Falls	Redwood Falls Municipal Airport	RWF	8,642	8,642	9,757	10,089	10,414	10,871	2.46%	1.56%	1.25%	1.15%
Roseau	Roseau Municipal Airport (Rudy Billberg Field)	ROX	14,103	14,103	15,922	16,464	16,995	17,740	2.46%	1.56%	1.25%	1.15%



ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Rush City	Rush City Municipal Airport	ROS	6,473	6,473	7,308	7,557	7,801	8,143	2.46%	1.56%	1.25%	1.15%
South St. Paul	South St. Paul Municipal Airport (Fleming Field)	SGS	49,331	49,331	55,693	57,592	59,448	62,053	2.46%	1.56%	1.25%	1.15%
St. James	Saint James Municipal Airport	JYG	3,908	3,908	4,412	4,563	4,710	4,916	2.46%	1.56%	1.25%	1.15%
Two Harbors	Two Harbors-Richard B. Helgeson Airport	TWM	4,429	4,429	5,001	5,171	5,338	5,572	2.46%	1.56%	1.25%	1.15%
Wadena	Wadena Municipal Airport	ADC	6,233	6,233	7,036	7,276	7,511	7,840	2.45%	1.56%	1.25%	1.15%
<b>Intermediate Small</b>												
Ada/Twin Valley	Ada-Norman County/Ada/Twin Valley Airport	D00	3,085	3,085	3,483	3,602	3,718	3,881	2.46%	1.56%	1.25%	1.15%
Appleton	Appleton Municipal Airport	AQP	2,034	2,034	2,296	2,375	2,451	2,559	2.45%	1.56%	1.25%	1.15%
Bagley	Bagley Municipal Airport	7Y4	434	434	490	507	523	546	2.46%	1.57%	1.25%	1.15%
Blue Earth	Blue Earth Municipal Airport	SBU	7,642	7,642	8,627	8,921	9,209	9,612	2.45%	1.56%	1.25%	1.15%
Brooten	Brooten Municipal Airport	6D1	1,248	1,248	1,409	1,457	1,504	1,570	2.46%	1.56%	1.25%	1.15%
Buffalo	Buffalo Municipal Airport	CFE	14,213	14,213	16,046	16,593	17,128	17,878	2.46%	1.56%	1.25%	1.15%
Caledonia	Caledonia-Houston County Airport	CHU	2,193	2,193	2,475	2,560	2,642	2,758	2.45%	1.56%	1.25%	1.15%
Duluth	Duluth-Sky Harbor Airport & Seaplane Base	DYT	11,472	11,472	12,952	13,394	13,825	14,431	2.46%	1.56%	1.25%	1.15%
Elbow Lake	Elbow Lake Municipal Airport	Y63	6,691	6,691	7,554	7,812	8,064	8,417	2.46%	1.56%	1.25%	1.15%
Fertile	Fertile Municipal Airport	D14	7,851	7,851	8,864	9,166	9,461	9,876	2.46%	1.56%	1.25%	1.15%
Forest Lake	Forest Lake Airport	25D	6,878	6,878	7,765	8,030	8,289	8,652	2.46%	1.56%	1.25%	1.15%
Fosston	Fosston Municipal Airport	FSE	5,715	5,715	6,452	6,672	6,887	7,189	2.46%	1.56%	1.25%	1.15%
Glencoe	Glencoe Municipal Airport (Vernon Perschau Field)	GYL	8,150	8,150	9,201	9,515	9,822	10,252	2.46%	1.56%	1.25%	1.15%
Hawley	Hawley Municipal Airport	04Y	5,225	5,225	5,899	6,100	6,297	6,572	2.46%	1.56%	1.25%	1.15%
Hector	Hector Municipal Airport	1D6	6,074	6,074	6,857	7,091	7,319	7,640	2.45%	1.56%	1.25%	1.15%
Herman	Herman Municipal Airport	06Y	2,006	2,006	2,264	2,342	2,417	2,523	2.45%	1.56%	1.25%	1.15%
Jackson	Jackson Municipal Airport	MJQ	14,623	14,623	16,509	17,072	17,622	18,394	2.46%	1.56%	1.25%	1.15%
Le Sueur	Le Sueur Municipal Airport	12Y	1,614	1,614	1,822	1,884	1,945	2,030	2.45%	1.56%	1.25%	1.15%
Long Prairie	Long Prairie Airport (Todd Field)	14Y	4,410	4,410	4,978	5,148	5,314	5,547	2.45%	1.56%	1.25%	1.15%
Longville	Longville Municipal Airport	XVG	5,343	5,343	6,032	6,237	6,438	6,720	2.46%	1.56%	1.25%	1.15%
Madison	Madison-Lac Qui Parle Airport	DXX	2,340	2,340	2,642	2,732	2,820	2,943	2.46%	1.56%	1.25%	1.15%
Mahnomen	Mahnomen County Airport	3N8	1,621	1,621	1,830	1,892	1,953	2,039	2.46%	1.56%	1.25%	1.15%
Maple Lake	Maple Lake Municipal Airport & Seaplane Base	MGG	15,414	15,414	17,402	17,995	18,575	19,389	2.46%	1.56%	1.25%	1.15%
McGregor	McGregor-Isedor Iverson Airport	HZX	987	987	1,114	1,152	1,189	1,242	2.45%	1.56%	1.25%	1.16%
Minneapolis	Minneapolis Crystal Airport	MIC	41,541	41,541	46,899	48,498	50,061	52,254	2.46%	1.56%	1.25%	1.15%
Moose Lake	Moose Lake-Carlton County Airport	MZH	3,171	3,171	3,580	3,702	3,821	3,988	2.46%	1.56%	1.25%	1.15%
Olivia	Olivia Regional Airport	OVL	4,688	4,688	5,293	5,474	5,650	5,898	2.46%	1.56%	1.25%	1.15%
Ortonville	Ortonville Municipal Airport (Martinson Field)	VVV	3,221	3,221	3,636	3,760	3,881	4,051	2.45%	1.56%	1.25%	1.15%
Paynesville	Paynesville Municipal Airport	PEX	2,984	2,984	3,368	3,483	3,596	3,753	2.45%	1.56%	1.25%	1.15%
Pine River	Pine River Regional Airport	PWC	5,003	5,003	5,648	5,841	6,029	6,293	2.45%	1.56%	1.25%	1.15%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Pinecreek	Piney-Pinecreek Border Airport	48Y	431	431	486	503	519	542	2.43%	1.56%	1.25%	1.15%
Red Lake Falls	Red Lake Falls Municipal Airport	D81	11,345	11,345	12,809	13,245	13,672	14,271	2.46%	1.56%	1.25%	1.15%
Rushford	Rushford Municipal Airport	55Y	1,374	1,374	1,552	1,604	1,656	1,729	2.47%	1.56%	1.25%	1.16%
Sauk Centre	Sauk Centre Municipal Airport	D39	3,889	3,889	4,391	4,540	4,687	4,892	2.46%	1.56%	1.25%	1.15%
Slayton	Slayton Municipal Airport	DVP	3,300	3,300	3,726	3,853	3,977	4,151	2.46%	1.56%	1.25%	1.15%
Springfield	Springfield Municipal Airport	D42	2,142	2,142	2,418	2,501	2,581	2,695	2.45%	1.56%	1.25%	1.15%
St. Paul	Saint Paul-Lake Elmo Airport	21D	16,421	16,421	18,539	19,171	19,789	20,656	2.46%	1.56%	1.25%	1.15%
Staples	Staples Municipal Airport	SAZ	7,207	7,207	8,136	8,414	8,685	9,066	2.45%	1.56%	1.25%	1.15%
Stephen	Stephen Municipal Airport	D41	12,023	12,023	13,573	14,036	14,489	15,123	2.45%	1.56%	1.25%	1.15%
Tower	Tower Municipal Airport	12D	3,517	3,517	3,971	4,106	4,239	4,424	2.46%	1.56%	1.25%	1.15%
Tracy	Tracy Municipal Airport	TKC	1,217	1,217	1,374	1,421	1,467	1,531	2.46%	1.56%	1.25%	1.15%
Walker	Walker Municipal Airport	Y49	5,152	5,152	5,816	6,014	6,208	6,480	2.45%	1.56%	1.25%	1.15%
Warren	Warren Municipal Airport	D37	9,062	9,062	10,231	10,580	10,921	11,400	2.46%	1.56%	1.25%	1.15%
Waseca	Waseca Municipal Airport	ACQ	13,211	13,211	14,915	15,424	15,921	16,619	2.46%	1.56%	1.25%	1.15%
Wheaton	Wheaton Municipal Airport	ETH	3,056	3,056	3,451	3,568	3,683	3,845	2.46%	1.56%	1.25%	1.15%
Windom	Windom Municipal Airport	MWM	5,496	5,496	6,205	6,416	6,623	6,913	2.46%	1.56%	1.25%	1.15%
<b>Landing Strip Turf</b>												
Backus	Backus Municipal Airport	7Y3	4,017	4,017	4,535	4,690	4,841	5,053	2.46%	1.56%	1.25%	1.15%
Big Falls	Big Falls Municipal Airport	7Y9	200	200	226	233	241	252	2.47%	1.54%	1.25%	1.16%
Bowstring	Bowstring Airport	9Y0	323	323	364	377	389	406	2.42%	1.56%	1.25%	1.15%
Clarissa	Clarissa Municipal Airport	8Y5	456	456	515	532	550	574	2.46%	1.55%	1.26%	1.16%
East Gull Lake	East Gull Lake Airport	9Y2	198	198	224	232	239	249	2.50%	1.60%	1.26%	1.15%
Grygla	Grygla Municipal Airport (Mel Wilkens Field)	3G2	200	200	226	233	241	252	2.47%	1.54%	1.25%	1.16%
Henning	Henning Municipal Airport	05Y	1,517	1,517	1,713	1,771	1,828	1,908	2.46%	1.56%	1.25%	1.15%
Hill City	Hill City-Quadna Mountain Airport	07Y	560	560	632	654	675	705	2.45%	1.56%	1.25%	1.16%
Karlstad	Karlstad Municipal Airport	23D	2,006	2,006	2,264	2,342	2,417	2,523	2.45%	1.56%	1.25%	1.15%
Littlefork	Littlefork Municipal Hanover Airport	13Y	700	700	790	817	844	881	2.45%	1.56%	1.25%	1.16%
Milaca	Milaca Municipal Airport	18Y	5,006	5,006	5,652	5,845	6,033	6,297	2.46%	1.56%	1.25%	1.15%
Northome	Northome Municipal Airport	43Y	311	311	351	363	375	392	2.45%	1.56%	1.26%	1.16%
Pelican Rapids	Pelican Rapids Municipal Airport	47Y	1,664	1,664	1,879	1,943	2,005	2,093	2.46%	1.56%	1.25%	1.15%
Remer	Remer Municipal Airport	52Y	512	512	578	598	617	644	2.45%	1.56%	1.25%	1.15%
Sleepy Eye	Sleepy Eye Municipal Airport	Y58	5,000	5,000	5,645	5,837	6,026	6,290	2.46%	1.56%	1.25%	1.15%
Starbuck	Starbuck Municipal Airport	D32	1,172	1,172	1,323	1,368	1,413	1,474	2.45%	1.56%	1.25%	1.15%
Tyler	Tyler Municipal Airport	63Y	1,606	1,606	1,813	1,875	1,935	2,020	2.45%	1.56%	1.25%	1.15%
Waskish	Waskish Municipal Airport	VWU	1,006	1,006	1,136	1,175	1,213	1,266	2.46%	1.56%	1.26%	1.16%
Waskish	Wells Municipal Airport	68Y	5,018	5,018	5,665	5,858	6,047	6,312	2.46%	1.56%	1.25%	1.15%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Winsted	Winsted Municipal Airport	10D	9,986	9,986	11,274	11,659	12,035	12,562	2.46%	1.56%	1.25%	1.15%
<b>STATEWIDE TOTAL (GA ONLY)</b>			<b>1,262,979</b>	<b>1,262,979</b>	<b>1,425,877</b>	<b>1,474,486</b>	<b>1,522,019</b>	<b>1,588,707</b>	<b>2.46%</b>	<b>1.56%</b>	<b>1.25%</b>	<b>1.15%</b>

Sources: FAA Aerospace Forecasts, 2021 – 2041; Kimley-Horn, 2021

Table A.5. 2022 MnSASP Forecast Alternative: Socioeconomic – GA Flight Hours Flown Blend

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
<b>Key General Aviation</b>												
Albert Lea	Albert Lea Municipal Airport	AEL	18,523	18,523	19,801	20,472	21,049	21,673	1.34%	1.01%	0.86%	0.79%
Alexandria	Alexandria Municipal Airport (Chandler Field)	AXN	20,598	20,598	22,383	23,500	24,518	25,590	1.68%	1.33%	1.17%	1.09%
Austin	Austin Municipal Airport	AUM	21,505	21,505	23,100	23,999	24,796	25,657	1.44%	1.10%	0.95%	0.89%
Baudette	Baudette International Airport	BDE	7,503	7,503	8,045	8,334	8,574	8,827	1.40%	1.06%	0.89%	0.82%
Ely	Ely Municipal Airport	ELO	7,550	7,550	8,104	8,417	8,698	9,004	1.43%	1.09%	0.95%	0.88%
Fairmont	Fairmont Municipal Airport	FRM	9,267	9,267	9,913	10,261	10,567	10,902	1.36%	1.02%	0.88%	0.82%
Fergus Falls	Fergus Falls Municipal Airport (Einar Mickelson Field)	FFM	13,016	13,016	14,047	14,646	15,171	15,720	1.54%	1.19%	1.03%	0.95%
Grand Marais	Grand Marais-Cook County Airport	CKC	3,762	3,762	4,075	4,266	4,437	4,618	1.61%	1.27%	1.11%	1.03%
Grand Rapids	Grand Rapids-Itasca County Airport (Gordon Newstrom Field)	GPZ	25,230	25,230	27,222	28,383	29,395	30,459	1.53%	1.18%	1.02%	0.95%
Mankato	Mankato Municipal Airport	MKT	100,062	100,062	108,595	113,979	118,996	124,347	1.65%	1.31%	1.16%	1.09%
Marshall	Marshall-Southwest Minnesota Regional Airport-Marshall/Ryan Field	MML	15,926	15,926	17,255	18,092	18,888	19,765	1.62%	1.28%	1.14%	1.09%
Minneapolis	Minneapolis Anoka County/Blaine Airport (Janes Field)	ANE	71,740	71,740	78,033	82,063	85,860	89,906	1.70%	1.35%	1.21%	1.13%
Minneapolis	Minneapolis Flying Cloud Airport	FCM	104,405	104,405	112,781	117,928	122,801	128,111	1.56%	1.23%	1.09%	1.03%
New Ulm	New Ulm Municipal Airport	ULM	7,792	7,792	8,364	8,683	8,966	9,273	1.43%	1.09%	0.94%	0.87%
Owatonna	Owatonna Degner Regional Airport	OWA	16,357	16,357	17,693	18,495	19,219	19,981	1.58%	1.24%	1.08%	1.01%
Park Rapids	Park Rapids Municipal Airport	PKD	19,476	19,476	21,116	22,101	22,959	23,841	1.63%	1.27%	1.10%	1.02%
Red Wing	Red Wing Regional Airport	RGK	11,751	11,751	12,707	13,284	13,810	14,367	1.58%	1.23%	1.08%	1.01%
St. Paul	Saint Paul Downtown Airport (Holman Field)	STP	40,934	40,934	44,123	46,000	47,700	49,515	1.51%	1.17%	1.03%	0.96%
Warroad	Warroad International Airport (Swede Carlson Field)	RRT	16,617	16,617	17,821	18,482	19,077	19,722	1.41%	1.07%	0.92%	0.86%
Willmar	Willmar Municipal Airport	BDH	24,429	24,429	26,459	27,702	28,838	30,047	1.61%	1.27%	1.11%	1.04%
Winona	Winona Municipal Airport (Max Conrad Field)	ONA	9,945	9,945	10,726	11,189	11,614	12,074	1.52%	1.19%	1.04%	0.97%
Worthington	Worthington Municipal Airport	OTG	11,078	11,078	11,877	12,312	12,693	13,099	1.40%	1.06%	0.91%	0.84%
<b>Intermediate Large</b>												
Aitkin	Aitkin Municipal Airport	AIT	13,733	13,733	14,902	15,609	16,219	16,841	1.65%	1.29%	1.12%	1.03%
Benson	Benson Municipal Airport	BBB	4,065	4,065	4,337	4,475	4,593	4,722	1.30%	0.97%	0.82%	0.75%
Bigfork	Bigfork Municipal Airport	FOZ	2,327	2,327	2,510	2,617	2,711	2,809	1.53%	1.18%	1.02%	0.95%
Cambridge	Cambridge Municipal Airport	CBG	9,821	9,821	10,720	11,308	11,855	12,432	1.77%	1.42%	1.26%	1.19%
Canby	Canby Municipal Airport (Myers Field)	CNB	7,080	7,080	7,562	7,815	8,036	8,280	1.33%	0.99%	0.85%	0.79%
Cloquet	Cloquet-Carlton County Airport	COQ	10,530	10,530	11,325	11,784	12,201	12,651	1.47%	1.13%	0.99%	0.92%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Cook	Cook Municipal Airport	CQM	5,022	5,022	5,390	5,598	5,786	5,989	1.42%	1.09%	0.95%	0.88%
Crookston	Crookston Municipal Airport (Kirkwood Field)	CKN	11,670	11,670	12,451	12,841	13,161	13,501	1.30%	0.96%	0.80%	0.73%
Detroit Lakes	Detroit Lakes Airport (Wething Field)	DTL	16,690	16,690	18,123	19,013	19,818	20,665	1.66%	1.31%	1.15%	1.07%
Dodge Center	Dodge Center Municipal Airport	TOB	4,017	4,017	4,348	4,548	4,733	4,929	1.60%	1.25%	1.10%	1.03%
Eveleth	Eveleth-Virginia Municipal Airport	EVM	8,137	8,137	8,735	9,071	9,375	9,705	1.43%	1.09%	0.95%	0.88%
Faribault	Faribault Municipal Airport	FBL	19,169	19,169	20,780	21,773	22,683	23,645	1.63%	1.28%	1.13%	1.05%
Glenwood	Glenwood Municipal Airport	GHW	4,284	4,284	4,625	4,830	5,019	5,225	1.54%	1.21%	1.06%	1.00%
Granite Falls	Granite Falls Municipal Airport (Lenzen-Roe Memorial Field)	GDB	7,544	7,544	8,058	8,327	8,563	8,823	1.33%	0.99%	0.85%	0.79%
Hallock	Hallock Municipal Airport	HCO	13,380	13,380	14,297	14,775	15,189	15,635	1.33%	1.00%	0.85%	0.78%
Hutchinson	Hutchinson Municipal Airport (Butler Field)	HCD	7,844	7,844	8,478	8,856	9,198	9,560	1.57%	1.22%	1.07%	0.99%
Litchfield	Litchfield Municipal Airport	LJF	4,008	4,008	4,330	4,520	4,690	4,870	1.56%	1.21%	1.05%	0.98%
Little Falls	Little Falls-Morrison County Airport	LXL	19,184	19,184	20,674	21,526	22,270	23,051	1.51%	1.16%	1.00%	0.92%
Luverne	Luverne Municipal Airport	LYV	4,730	4,730	5,057	5,227	5,372	5,529	1.34%	1.00%	0.85%	0.78%
Minneapolis	Minneapolis Airlake Airport	LVN	21,055	21,055	23,024	24,354	25,648	27,043	1.80%	1.47%	1.32%	1.26%
Montevideo	Montevideo-Chippewa County Airport	MVE	7,058	7,058	7,569	7,855	8,117	8,409	1.41%	1.08%	0.94%	0.88%
Moorhead	Moorhead Municipal Airport	JKJ	8,867	8,867	9,574	9,990	10,362	10,754	1.55%	1.20%	1.04%	0.97%
Mora	Mora Municipal Airport	JMR	12,377	12,377	13,422	14,048	14,593	15,154	1.63%	1.27%	1.10%	1.02%
Morris	Morris Municipal Airport	MOX	9,366	9,366	10,053	10,442	10,800	11,192	1.43%	1.09%	0.95%	0.89%
Orr	Orr Regional Airport	ORB	1,357	1,357	1,457	1,513	1,563	1,619	1.43%	1.09%	0.95%	0.89%
Perham	Perham Municipal Airport	16D	6,235	6,235	6,729	7,016	7,267	7,531	1.54%	1.19%	1.03%	0.95%
Pipestone	Pipestone Municipal Airport	PQN	4,675	4,675	5,004	5,184	5,349	5,533	1.37%	1.04%	0.90%	0.85%
Preston	Preston Fillmore County Airport	FKA	2,449	2,449	2,624	2,718	2,799	2,884	1.39%	1.05%	0.89%	0.82%
Princeton	Princeton Municipal Airport	PNM	7,548	7,548	8,201	8,601	8,954	9,316	1.67%	1.31%	1.15%	1.06%
Redwood Falls	Redwood Falls Municipal Airport	RWF	8,642	8,642	9,228	9,533	9,802	10,097	1.32%	0.99%	0.84%	0.78%
Roseau	Roseau Municipal Airport (Rudy Billberg Field)	ROX	14,103	14,103	15,124	15,685	16,190	16,738	1.41%	1.07%	0.92%	0.86%
Rush City	Rush City Municipal Airport	ROS	6,473	6,473	7,050	7,420	7,764	8,127	1.72%	1.38%	1.22%	1.14%
South St. Paul	South St. Paul Municipal Airport (Fleming Field)	SGS	49,331	49,331	53,942	57,060	60,090	63,358	1.80%	1.47%	1.32%	1.26%
St. James	Saint James Municipal Airport	JYG	3,908	3,908	4,172	4,306	4,418	4,538	1.31%	0.97%	0.82%	0.75%
Two Harbors	Two Harbors-Richard B. Helgeson Airport	TWM	4,429	4,429	4,775	4,977	5,155	5,341	1.52%	1.17%	1.02%	0.94%
Wadena	Wadena Municipal Airport	ADC	6,233	6,233	6,726	7,013	7,264	7,527	1.53%	1.19%	1.03%	0.95%
<b>Intermediate Small</b>												
Ada/Twin Valley	Ada-Norman County/Ada/Twin Valley Airport	D00	3,085	3,085	3,294	3,402	3,495	3,596	1.32%	0.98%	0.84%	0.77%
Appleton	Appleton Municipal Airport	AQP	2,034	2,034	2,170	2,239	2,298	2,363	1.30%	0.97%	0.82%	0.75%
Bagley	Bagley Municipal Airport	7Y4	434	434	469	489	506	524	1.55%	1.20%	1.02%	0.94%
Blue Earth	Blue Earth Municipal Airport	SBU	7,642	7,642	8,146	8,403	8,625	8,870	1.29%	0.95%	0.81%	0.75%
Brooten	Brooten Municipal Airport	6D1	1,248	1,248	1,360	1,433	1,501	1,574	1.73%	1.39%	1.24%	1.17%



ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Buffalo	Buffalo Municipal Airport	CFE	14,213	14,213	15,578	16,506	17,404	18,368	1.85%	1.51%	1.36%	1.29%
Caledonia	Caledonia-Houston County Airport	CHU	2,193	2,193	2,347	2,428	2,498	2,572	1.37%	1.02%	0.87%	0.80%
Duluth	Duluth-Sky Harbor Airport & Seaplane Base	DYT	11,472	11,472	12,315	12,789	13,218	13,682	1.43%	1.09%	0.95%	0.88%
Elbow Lake	Elbow Lake Municipal Airport	Y63	6,691	6,691	7,169	7,431	7,663	7,919	1.39%	1.05%	0.91%	0.85%
Fertile	Fertile Municipal Airport	D14	7,851	7,851	8,377	8,639	8,854	9,083	1.31%	0.96%	0.80%	0.73%
Forest Lake	Forest Lake Airport	25D	6,878	6,878	7,533	7,986	8,433	8,920	1.84%	1.50%	1.37%	1.31%
Fosston	Fosston Municipal Airport	FSE	5,715	5,715	6,098	6,288	6,445	6,612	1.30%	0.96%	0.80%	0.73%
Glencoe	Glencoe Municipal Airport (Vernon Perschau Field)	GYL	8,150	8,150	8,809	9,202	9,557	9,933	1.57%	1.22%	1.07%	0.99%
Hawley	Hawley Municipal Airport	04Y	5,225	5,225	5,641	5,887	6,106	6,336	1.54%	1.20%	1.04%	0.97%
Hector	Hector Municipal Airport	1D6	6,074	6,074	6,470	6,672	6,848	7,046	1.27%	0.94%	0.80%	0.74%
Herman	Herman Municipal Airport	06Y	2,006	2,006	2,149	2,227	2,297	2,374	1.38%	1.05%	0.91%	0.85%
Jackson	Jackson Municipal Airport	MJQ	14,623	14,623	15,688	16,293	16,854	17,478	1.42%	1.09%	0.95%	0.90%
Le Sueur	Le Sueur Municipal Airport	12Y	1,614	1,614	1,741	1,814	1,879	1,949	1.53%	1.17%	1.02%	0.95%
Long Prairie	Long Prairie Airport (Todd Field)	14Y	4,410	4,410	4,745	4,930	5,086	5,248	1.47%	1.12%	0.96%	0.87%
Longville	Longville Municipal Airport	XVG	5,343	5,343	5,828	6,137	6,413	6,698	1.75%	1.39%	1.22%	1.14%
Madison	Madison-Lac Qui Parle Airport	DXX	2,340	2,340	2,503	2,589	2,666	2,749	1.35%	1.02%	0.87%	0.81%
Mahnomen	Mahnomen County Airport	3N8	1,621	1,621	1,751	1,826	1,889	1,954	1.55%	1.20%	1.03%	0.94%
Maple Lake	Maple Lake Municipal Airport & Seaplane Base	MGG	15,414	15,414	16,894	17,901	18,874	19,920	1.85%	1.51%	1.36%	1.29%
McGregor	McGregor-Isedor Iverson Airport	HZX	987	987	1,071	1,122	1,165	1,210	1.65%	1.29%	1.11%	1.03%
Minneapolis	Minneapolis Crystal Airport	MIC	41,541	41,541	44,874	46,922	48,860	50,973	1.56%	1.23%	1.09%	1.03%
Moose Lake	Moose Lake-Carlton County Airport	MZH	3,171	3,171	3,410	3,548	3,674	3,809	1.47%	1.13%	0.99%	0.92%
Olivia	Olivia Regional Airport	OVL	4,688	4,688	4,995	5,150	5,286	5,439	1.28%	0.94%	0.80%	0.75%
Ortonville	Ortonville Municipal Airport (Martinson Field)	VVV	3,221	3,221	3,444	3,563	3,667	3,782	1.35%	1.02%	0.87%	0.81%
Paynesville	Paynesville Municipal Airport	PEX	2,984	2,984	3,251	3,426	3,589	3,762	1.73%	1.39%	1.24%	1.16%
Pine River	Pine River Regional Airport	PWC	5,003	5,003	5,457	5,747	6,005	6,273	1.75%	1.40%	1.22%	1.14%
Pinecreek	Piney-Pinecreek Border Airport	48Y	431	431	462	479	494	511	1.38%	1.06%	0.92%	0.86%
Red Lake Falls	Red Lake Falls Municipal Airport	D81	11,345	11,345	12,110	12,490	12,804	13,135	1.31%	0.97%	0.81%	0.74%
Rushford	Rushford Municipal Airport	55Y	1,374	1,374	1,473	1,525	1,571	1,619	1.40%	1.05%	0.90%	0.82%
Sauk Centre	Sauk Centre Municipal Airport	D39	3,889	3,889	4,238	4,465	4,678	4,903	1.74%	1.39%	1.24%	1.17%
Slayton	Slayton Municipal Airport	DVP	3,300	3,300	3,530	3,653	3,761	3,880	1.36%	1.02%	0.88%	0.81%
Springfield	Springfield Municipal Airport	D42	2,142	2,142	2,299	2,387	2,465	2,549	1.42%	1.09%	0.94%	0.87%
St. Paul	Saint Paul-Lake Elmo Airport	21D	16,421	16,421	17,984	19,066	20,134	21,296	1.84%	1.50%	1.37%	1.31%
Staples	Staples Municipal Airport	SAZ	7,207	7,207	7,793	8,141	8,439	8,746	1.58%	1.23%	1.06%	0.97%
Stephen	Stephen Municipal Airport	D41	12,023	12,023	12,831	13,233	13,568	13,927	1.31%	0.96%	0.81%	0.74%
Tower	Tower Municipal Airport	12D	3,517	3,517	3,775	3,921	4,053	4,195	1.43%	1.09%	0.95%	0.88%
Tracy	Tracy Municipal Airport	TKC	1,217	1,217	1,319	1,383	1,444	1,511	1.62%	1.29%	1.15%	1.09%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Walker	Walker Municipal Airport	Y49	5,152	5,152	5,619	5,918	6,184	6,459	1.75%	1.40%	1.22%	1.14%
Warren	Warren Municipal Airport	D37	9,062	9,062	9,671	9,975	10,227	10,498	1.31%	0.96%	0.81%	0.74%
Waseca	Waseca Municipal Airport	ACQ	13,211	13,211	14,176	14,702	15,162	15,653	1.42%	1.08%	0.92%	0.85%
Wheaton	Wheaton Municipal Airport	ETH	3,056	3,056	3,266	3,375	3,470	3,574	1.34%	1.00%	0.85%	0.79%
Windom	Windom Municipal Airport	MWM	5,496	5,496	5,886	6,096	6,280	6,477	1.38%	1.04%	0.89%	0.82%
<b>Landing Strip Turf</b>												
Backus	Backus Municipal Airport	7Y3	4,017	4,017	4,382	4,614	4,822	5,036	1.75%	1.40%	1.22%	1.14%
Big Falls	Big Falls Municipal Airport	7Y9	200	200	214	221	227	233	1.33%	0.99%	0.84%	0.76%
Bowstring	Bowstring Airport	9Y0	323	323	348	363	376	390	1.50%	1.17%	1.02%	0.94%
Clarissa	Clarissa Municipal Airport	8Y5	456	456	491	510	526	543	1.48%	1.12%	0.96%	0.87%
East Gull Lake	East Gull Lake Airport	9Y2	198	198	216	228	238	248	1.79%	1.42%	1.23%	1.14%
Grygla	Grygla Municipal Airport (Mel Wilkens Field)	3G2	200	200	213	220	226	232	1.30%	0.96%	0.81%	0.74%
Henning	Henning Municipal Airport	05Y	1,517	1,517	1,637	1,707	1,768	1,832	1.54%	1.19%	1.03%	0.95%
Hill City	Hill City-Quadna Mountain Airport	07Y	560	560	608	637	661	687	1.65%	1.29%	1.11%	1.03%
Karlstad	Karlstad Municipal Airport	23D	2,006	2,006	2,143	2,215	2,277	2,344	1.33%	1.00%	0.85%	0.78%
Littlefork	Littlefork Municipal Hanover Airport	13Y	700	700	748	774	794	815	1.34%	1.01%	0.84%	0.76%
Milaca	Milaca Municipal Airport	18Y	5,006	5,006	5,439	5,705	5,939	6,179	1.67%	1.32%	1.15%	1.06%
Northome	Northome Municipal Airport	43Y	311	311	333	344	353	362	1.38%	1.01%	0.85%	0.77%
Pelican Rapids	Pelican Rapids Municipal Airport	47Y	1,664	1,664	1,796	1,873	1,939	2,009	1.54%	1.19%	1.02%	0.95%
Remer	Remer Municipal Airport	52Y	512	512	558	588	615	642	1.75%	1.39%	1.23%	1.14%
Sleepy Eye	Sleepy Eye Municipal Airport	Y58	5,000	5,000	5,367	5,571	5,753	5,950	1.43%	1.09%	0.94%	0.87%
Starbuck	Starbuck Municipal Airport	D32	1,172	1,172	1,265	1,321	1,373	1,430	1.54%	1.21%	1.06%	1.00%
Tyler	Tyler Municipal Airport	63Y	1,606	1,606	1,719	1,781	1,837	1,900	1.37%	1.04%	0.90%	0.84%
Waskish	Waskish Municipal Airport	VWU	1,006	1,006	1,095	1,151	1,200	1,252	1.71%	1.35%	1.18%	1.10%
Waskish	Wells Municipal Airport	68Y	5,018	5,018	5,349	5,517	5,664	5,825	1.29%	0.95%	0.81%	0.75%
Winsted	Winsted Municipal Airport	10D	9,986	9,986	10,794	11,275	11,710	12,172	1.57%	1.22%	1.07%	0.99%
<b>STATEWIDE TOTAL (GA ONLY)</b>			<b>1,262,979</b>	<b>1,262,979</b>	<b>1,364,340</b>	<b>1,425,228</b>	<b>1,480,923</b>	<b>1,540,549</b>	<b>1.56%</b>	<b>1.22%</b>	<b>1.07%</b>	<b>1.00%</b>

Sources: W&P, 2021; FAA Aerospace Forecasts, 2020 – 2040; Kimley-Horn, 2022

Table A.6. 2022 MnSASP Forecast Alternative: Mixed Methodology

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
<b>Key General Aviation</b>												
Albert Lea	Albert Lea Municipal Airport	AEL	18,523	18,523	20,175	21,725	23,087	24,396	1.72%	1.61%	1.48%	1.39%
Alexandria	Alexandria Municipal Airport (Chandler Field)	AXN	20,598	20,598	22,379	24,032	25,481	26,875	1.67%	1.55%	1.43%	1.34%
Austin	Austin Municipal Airport	AUM	21,505	21,505	23,322	25,048	26,591	28,111	1.64%	1.54%	1.43%	1.35%
Baudette	Baudette International Airport	BDE	7,503	7,503	8,101	8,635	9,057	9,433	1.55%	1.42%	1.26%	1.15%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Ely	Ely Municipal Airport	ELO	7,550	7,550	8,146	8,711	9,219	9,717	1.53%	1.44%	1.34%	1.27%
Fairmont	Fairmont Municipal Airport	FRM	9,267	9,267	10,107	10,913	11,643	12,361	1.75%	1.65%	1.53%	1.45%
Fergus Falls	Fergus Falls Municipal Airport (Einar Mickelson Field)	FFM	13,016	13,016	14,140	15,173	16,055	16,884	1.67%	1.55%	1.41%	1.31%
Grand Marais	Grand Marais-Cook County Airport	CKC	3,762	3,762	4,066	4,343	4,575	4,792	1.57%	1.45%	1.31%	1.22%
Grand Rapids	Grand Rapids-Itasca County Airport (Gordon Newstrom Field)	GPZ	25,230	25,230	27,560	29,716	31,540	33,249	1.78%	1.65%	1.50%	1.39%
Mankato	Mankato Municipal Airport	MKT	100,062	100,062	108,168	115,943	123,046	130,083	1.57%	1.48%	1.39%	1.32%
Marshall	Marshall-Southwest Minnesota Regional Airport-Marshall/Ryan Field	MML	15,926	15,926	17,539	19,151	20,730	22,397	1.95%	1.86%	1.77%	1.72%
Minneapolis	Minneapolis Anoka County/Blaine Airport (Janes Field)	ANE	71,740	71,740	75,754	79,238	82,064	84,631	1.09%	1.00%	0.90%	0.83%
Minneapolis	Minneapolis Flying Cloud Airport	FCM	104,405	104,405	113,760	123,095	132,179	141,549	1.73%	1.66%	1.58%	1.53%
New Ulm	New Ulm Municipal Airport	ULM	7,792	7,792	8,488	9,148	9,746	10,336	1.73%	1.62%	1.50%	1.42%
Owatonna	Owatonna Degner Regional Airport	OWA	16,357	16,357	17,637	18,816	19,840	20,810	1.52%	1.41%	1.30%	1.21%
Park Rapids	Park Rapids Municipal Airport	PKD	19,476	19,476	21,174	22,699	23,934	25,044	1.69%	1.54%	1.38%	1.27%
Red Wing	Red Wing Regional Airport	RGK	11,751	11,751	12,663	13,518	14,277	15,010	1.51%	1.41%	1.31%	1.23%
St. Paul	Saint Paul Downtown Airport (Holman Field)	STP	40,934	40,934	44,384	47,692	50,693	53,638	1.63%	1.54%	1.44%	1.36%
Warroad	Warroad International Airport (Swede Carlson Field)	RRT	16,617	16,617	17,948	19,182	20,293	21,379	1.55%	1.45%	1.34%	1.27%
Willmar	Willmar Municipal Airport	BDH	24,429	24,429	26,386	28,217	29,846	31,438	1.55%	1.45%	1.34%	1.27%
Winona	Winona Municipal Airport (Max Conrad Field)	ONA	9,945	9,945	10,799	11,619	12,380	13,150	1.66%	1.57%	1.47%	1.41%
Worthington	Worthington Municipal Airport	OTG	11,078	11,078	11,876	12,618	13,268	13,896	1.40%	1.31%	1.21%	1.14%
<b>Intermediate Large</b>												
Aitkin	Aitkin Municipal Airport	AIT	13,733	13,733	15,504	16,032	16,549	17,274	2.46%	1.56%	1.25%	1.15%
Benson	Benson Municipal Airport	BBB	4,065	4,065	4,590	4,746	4,899	5,114	2.46%	1.56%	1.25%	1.15%
Bigfork	Bigfork Municipal Airport	FOZ	2,327	2,327	2,627	2,716	2,804	2,927	2.45%	1.56%	1.25%	1.15%
Cambridge	Cambridge Municipal Airport	CBG	9,821	9,821	11,088	11,466	11,835	12,354	2.46%	1.56%	1.25%	1.15%
Canby	Canby Municipal Airport (Myers Field)	CNB	7,080	7,080	7,993	8,266	8,532	8,906	2.46%	1.56%	1.25%	1.15%
Cloquet	Cloquet-Carlton County Airport	COQ	10,530	10,530	11,888	12,293	12,690	13,246	2.46%	1.56%	1.25%	1.15%
Cook	Cook Municipal Airport	CQM	5,022	5,022	5,669	5,863	6,052	6,317	2.45%	1.56%	1.25%	1.15%
Crookston	Crookston Municipal Airport (Kirkwood Field)	CKN	11,670	11,670	13,175	13,624	14,063	14,679	2.46%	1.56%	1.25%	1.15%
Detroit Lakes	Detroit Lakes Airport (Wething Field)	DTL	16,690	16,690	18,842	19,485	20,113	20,994	2.46%	1.56%	1.25%	1.15%
Dodge Center	Dodge Center Municipal Airport	TOB	4,017	4,017	4,535	4,689	4,841	5,053	2.46%	1.56%	1.25%	1.15%
Eveleth	Eveleth-Virginia Municipal Airport	EVM	8,137	8,137	9,187	9,500	9,806	10,236	2.46%	1.56%	1.25%	1.15%
Faribault	Faribault Municipal Airport	FBL	19,169	19,169	21,642	22,380	23,101	24,113	2.46%	1.56%	1.25%	1.15%
Glenwood	Glenwood Municipal Airport	GHW	4,284	4,284	4,837	5,001	5,163	5,389	2.46%	1.56%	1.25%	1.15%
Granite Falls	Granite Falls Municipal Airport (Lenzen-Roe Memorial Field)	GDB	7,544	7,544	8,517	8,808	9,092	9,490	2.46%	1.56%	1.25%	1.15%
Hallock	Hallock Municipal Airport	HCO	13,380	13,380	15,105	15,620	16,124	16,830	2.45%	1.56%	1.25%	1.15%
Hutchinson	Hutchinson Municipal Airport (Butler Field)	HCD	7,844	7,844	8,855	9,157	9,452	9,867	2.45%	1.56%	1.25%	1.15%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Litchfield	Litchfield Municipal Airport	LIF	4,008	4,008	4,525	4,679	4,830	5,042	2.46%	1.56%	1.25%	1.15%
Little Falls	Little Falls-Morrison County Airport	LXL	19,184	19,184	21,659	22,397	23,119	24,132	2.46%	1.56%	1.25%	1.15%
Luverne	Luverne Municipal Airport	LYV	4,730	4,730	5,340	5,522	5,700	5,950	2.46%	1.56%	1.25%	1.15%
Minneapolis	Minneapolis Airlake Airport	LVN	21,055	21,055	23,771	24,582	25,374	26,486	2.46%	1.56%	1.25%	1.15%
Montevideo	Montevideo-Chippewa County Airport	MVE	7,058	7,058	7,969	8,240	8,506	8,879	2.46%	1.56%	1.25%	1.15%
Moorhead	Moorhead Municipal Airport	JKJ	8,867	8,867	10,011	10,352	10,686	11,154	2.46%	1.56%	1.25%	1.15%
Mora	Mora Municipal Airport	JMR	12,377	12,377	13,973	14,450	14,916	15,569	2.46%	1.56%	1.25%	1.15%
Morris	Morris Municipal Airport	MOX	9,366	9,366	10,574	10,934	11,287	11,781	2.46%	1.56%	1.25%	1.15%
Orr	Orr Regional Airport	ORB	1,357	1,357	1,532	1,584	1,635	1,707	2.46%	1.56%	1.25%	1.15%
Perham	Perham Municipal Airport	16D	6,235	6,235	7,040	7,280	7,514	7,843	2.46%	1.56%	1.25%	1.15%
Pipestone	Pipestone Municipal Airport	PQN	4,675	4,675	5,278	5,458	5,634	5,881	2.46%	1.56%	1.25%	1.15%
Preston	Preston Fillmore County Airport	FKA	2,449	2,449	2,764	2,859	2,951	3,080	2.45%	1.56%	1.25%	1.15%
Princeton	Princeton Municipal Airport	PNM	7,548	7,548	8,522	8,812	9,096	9,495	2.46%	1.56%	1.25%	1.15%
Redwood Falls	Redwood Falls Municipal Airport	RWF	8,642	8,642	9,757	10,089	10,414	10,871	2.46%	1.56%	1.25%	1.15%
Roseau	Roseau Municipal Airport (Rudy Billberg Field)	ROX	14,103	14,103	15,922	16,464	16,995	17,740	2.46%	1.56%	1.25%	1.15%
Rush City	Rush City Municipal Airport	ROS	6,473	6,473	7,308	7,557	7,801	8,143	2.46%	1.56%	1.25%	1.15%
South St. Paul	South St. Paul Municipal Airport (Fleming Field)	SGS	49,331	49,331	55,693	57,592	59,448	62,053	2.46%	1.56%	1.25%	1.15%
St. James	Saint James Municipal Airport	JYG	3,908	3,908	4,412	4,563	4,710	4,916	2.46%	1.56%	1.25%	1.15%
Two Harbors	Two Harbors-Richard B. Helgeson Airport	TWM	4,429	4,429	5,001	5,171	5,338	5,572	2.46%	1.56%	1.25%	1.15%
Wadena	Wadena Municipal Airport	ADC	6,233	6,233	7,036	7,276	7,511	7,840	2.45%	1.56%	1.25%	1.15%
<b>Intermediate Small</b>												
Ada/Twin Valley	Ada-Norman County/Ada/Twin Valley Airport	D00	3,085	3,085	3,483	3,602	3,718	3,881	2.46%	1.56%	1.25%	1.15%
Appleton	Appleton Municipal Airport	AQP	2,034	2,034	2,296	2,375	2,451	2,559	2.45%	1.56%	1.25%	1.15%
Bagley	Bagley Municipal Airport	7Y4	434	434	490	507	523	546	2.46%	1.57%	1.25%	1.15%
Blue Earth	Blue Earth Municipal Airport	SBU	7,642	7,642	8,627	8,921	9,209	9,612	2.45%	1.56%	1.25%	1.15%
Brooten	Brooten Municipal Airport	6D1	1,248	1,248	1,409	1,457	1,504	1,570	2.46%	1.56%	1.25%	1.15%
Buffalo	Buffalo Municipal Airport	CFE	14,213	14,213	16,046	16,593	17,128	17,878	2.46%	1.56%	1.25%	1.15%
Caledonia	Caledonia-Houston County Airport	CHU	2,193	2,193	2,475	2,560	2,642	2,758	2.45%	1.56%	1.25%	1.15%
Duluth	Duluth-Sky Harbor Airport & Seaplane Base	DYT	11,472	11,472	12,952	13,394	13,825	14,431	2.46%	1.56%	1.25%	1.15%
Elbow Lake	Elbow Lake Municipal Airport	Y63	6,691	6,691	7,554	7,812	8,064	8,417	2.46%	1.56%	1.25%	1.15%
Fertile	Fertile Municipal Airport	D14	7,851	7,851	8,864	9,166	9,461	9,876	2.46%	1.56%	1.25%	1.15%
Forest Lake	Forest Lake Airport	25D	6,878	6,878	7,765	8,030	8,289	8,652	2.46%	1.56%	1.25%	1.15%
Fosston	Fosston Municipal Airport	FSE	5,715	5,715	6,452	6,672	6,887	7,189	2.46%	1.56%	1.25%	1.15%
Glencoe	Glencoe Municipal Airport (Vernon Perschau Field)	GYL	8,150	8,150	9,201	9,515	9,822	10,252	2.46%	1.56%	1.25%	1.15%
Hawley	Hawley Municipal Airport	04Y	5,225	5,225	5,899	6,100	6,297	6,572	2.46%	1.56%	1.25%	1.15%
Hector	Hector Municipal Airport	1D6	6,074	6,074	6,857	7,091	7,319	7,640	2.45%	1.56%	1.25%	1.15%



ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
Herman	Herman Municipal Airport	06Y	2,006	2,006	2,264	2,342	2,417	2,523	2.45%	1.56%	1.25%	1.15%
Jackson	Jackson Municipal Airport	MJQ	14,623	14,623	16,509	17,072	17,622	18,394	2.46%	1.56%	1.25%	1.15%
Le Sueur	Le Sueur Municipal Airport	12Y	1,614	1,614	1,822	1,884	1,945	2,030	2.45%	1.56%	1.25%	1.15%
Long Prairie	Long Prairie Airport (Todd Field)	14Y	4,410	4,410	4,978	5,148	5,314	5,547	2.45%	1.56%	1.25%	1.15%
Longville	Longville Municipal Airport	XVG	5,343	5,343	6,032	6,237	6,438	6,720	2.46%	1.56%	1.25%	1.15%
Madison	Madison-Lac Qui Parle Airport	DXX	2,340	2,340	2,642	2,732	2,820	2,943	2.46%	1.56%	1.25%	1.15%
Mahnomen	Mahnomen County Airport	3N8	1,621	1,621	1,830	1,892	1,953	2,039	2.46%	1.56%	1.25%	1.15%
Maple Lake	Maple Lake Municipal Airport & Seaplane Base	MGG	15,414	15,414	17,402	17,995	18,575	19,389	2.46%	1.56%	1.25%	1.15%
McGregor	McGregor-Isedor Iverson Airport	HZX	987	987	1,114	1,152	1,189	1,242	2.45%	1.56%	1.25%	1.16%
Minneapolis	Minneapolis Crystal Airport	MIC	41,541	41,541	46,899	48,498	50,061	52,254	2.46%	1.56%	1.25%	1.15%
Moose Lake	Moose Lake-Carlton County Airport	MZH	3,171	3,171	3,580	3,702	3,821	3,988	2.46%	1.56%	1.25%	1.15%
Olivia	Olivia Regional Airport	OVL	4,688	4,688	5,293	5,474	5,650	5,898	2.46%	1.56%	1.25%	1.15%
Ortonville	Ortonville Municipal Airport (Martinson Field)	VVV	3,221	3,221	3,636	3,760	3,881	4,051	2.45%	1.56%	1.25%	1.15%
Paynesville	Paynesville Municipal Airport	PEX	2,984	2,984	3,368	3,483	3,596	3,753	2.45%	1.56%	1.25%	1.15%
Pine River	Pine River Regional Airport	PWC	5,003	5,003	5,648	5,841	6,029	6,293	2.45%	1.56%	1.25%	1.15%
Pinecreek	Piney-Pinecreek Border Airport	48Y	431	431	486	503	519	542	2.43%	1.56%	1.25%	1.15%
Red Lake Falls	Red Lake Falls Municipal Airport	D81	11,345	11,345	12,809	13,245	13,672	14,271	2.46%	1.56%	1.25%	1.15%
Rushford	Rushford Municipal Airport	55Y	1,374	1,374	1,552	1,604	1,656	1,729	2.47%	1.56%	1.25%	1.16%
Sauk Centre	Sauk Centre Municipal Airport	D39	3,889	3,889	4,391	4,540	4,687	4,892	2.46%	1.56%	1.25%	1.15%
Slayton	Slayton Municipal Airport	DVP	3,300	3,300	3,726	3,853	3,977	4,151	2.46%	1.56%	1.25%	1.15%
Springfield	Springfield Municipal Airport	D42	2,142	2,142	2,418	2,501	2,581	2,695	2.45%	1.56%	1.25%	1.15%
St. Paul	Saint Paul-Lake Elmo Airport	21D	16,421	16,421	18,539	19,171	19,789	20,656	2.46%	1.56%	1.25%	1.15%
Staples	Staples Municipal Airport	SAZ	7,207	7,207	8,136	8,414	8,685	9,066	2.45%	1.56%	1.25%	1.15%
Stephen	Stephen Municipal Airport	D41	12,023	12,023	13,573	14,036	14,489	15,123	2.45%	1.56%	1.25%	1.15%
Tower	Tower Municipal Airport	12D	3,517	3,517	3,971	4,106	4,239	4,424	2.46%	1.56%	1.25%	1.15%
Tracy	Tracy Municipal Airport	TKC	1,217	1,217	1,374	1,421	1,467	1,531	2.46%	1.56%	1.25%	1.15%
Walker	Walker Municipal Airport	Y49	5,152	5,152	5,816	6,014	6,208	6,480	2.45%	1.56%	1.25%	1.15%
Warren	Warren Municipal Airport	D37	9,062	9,062	10,231	10,580	10,921	11,400	2.46%	1.56%	1.25%	1.15%
Waseca	Waseca Municipal Airport	ACQ	13,211	13,211	14,915	15,424	15,921	16,619	2.46%	1.56%	1.25%	1.15%
Wheaton	Wheaton Municipal Airport	ETH	3,056	3,056	3,451	3,568	3,683	3,845	2.46%	1.56%	1.25%	1.15%
Windom	Windom Municipal Airport	MWM	5,496	5,496	6,205	6,416	6,623	6,913	2.46%	1.56%	1.25%	1.15%
<b>Landing Strip Turf</b>												
Backus	Backus Municipal Airport	7Y3	4,017	4,017	4,382	4,614	4,822	5,036	1.75%	1.40%	1.22%	1.14%
Big Falls	Big Falls Municipal Airport	7Y9	200	200	214	221	227	233	1.33%	0.99%	0.84%	0.76%
Bowstring	Bowstring Airport	9Y0	323	323	348	363	376	390	1.50%	1.17%	1.02%	0.94%
Clarissa	Clarissa Municipal Airport	8Y5	456	456	491	510	526	543	1.48%	1.12%	0.96%	0.87%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					CAGR			
				2020	2025	2030	2035	2040	2020 - 2025	2020 - 2030	2020 - 2035	2020 - 2040
East Gull Lake	East Gull Lake Airport	9Y2	198	198	216	228	238	248	1.79%	1.42%	1.23%	1.14%
Grygla	Grygla Municipal Airport (Mel Wilkens Field)	3G2	200	200	213	220	226	232	1.30%	0.96%	0.81%	0.74%
Henning	Henning Municipal Airport	05Y	1,517	1,517	1,637	1,707	1,768	1,832	1.54%	1.19%	1.03%	0.95%
Hill City	Hill City-Quadna Mountain Airport	07Y	560	560	608	637	661	687	1.65%	1.29%	1.11%	1.03%
Karlstad	Karlstad Municipal Airport	23D	2,006	2,006	2,143	2,215	2,277	2,344	1.33%	1.00%	0.85%	0.78%
Littlefork	Littlefork Municipal Hanover Airport	13Y	700	700	748	774	794	815	1.34%	1.01%	0.84%	0.76%
Milaca	Milaca Municipal Airport	18Y	5,006	5,006	5,439	5,705	5,939	6,179	1.67%	1.32%	1.15%	1.06%
Northome	Northome Municipal Airport	43Y	311	311	333	344	353	362	1.38%	1.01%	0.85%	0.77%
Pelican Rapids	Pelican Rapids Municipal Airport	47Y	1,664	1,664	1,796	1,873	1,939	2,009	1.54%	1.19%	1.02%	0.95%
Remer	Remer Municipal Airport	52Y	512	512	558	588	615	642	1.75%	1.39%	1.23%	1.14%
Sleepy Eye	Sleepy Eye Municipal Airport	Y58	5,000	5,000	5,367	5,571	5,753	5,950	1.43%	1.09%	0.94%	0.87%
Starbuck	Starbuck Municipal Airport	D32	1,172	1,172	1,265	1,321	1,373	1,430	1.54%	1.21%	1.06%	1.00%
Tyler	Tyler Municipal Airport	63Y	1,606	1,606	1,719	1,781	1,837	1,900	1.37%	1.04%	0.90%	0.84%
Waskish	Waskish Municipal Airport	VWU	1,006	1,006	1,095	1,151	1,200	1,252	1.71%	1.35%	1.18%	1.10%
Waskish	Wells Municipal Airport	68Y	5,018	5,018	5,349	5,517	5,664	5,825	1.29%	0.95%	0.81%	0.75%
Winsted	Winsted Municipal Airport	10D	9,986	9,986	10,794	11,275	11,710	12,172	1.57%	1.22%	1.07%	0.99%
<b>STATEWIDE TOTAL (GA ONLY)</b>			<b>1,262,979</b>	<b>1,262,979</b>	<b>1,396,408</b>	<b>1,467,756</b>	<b>1,533,989</b>	<b>1,609,415</b>	<b>2.03%</b>	<b>1.51%</b>	<b>1.30%</b>	<b>1.22%</b>

Sources: W&P, 2021; FAA Aerospace Forecasts, 2021 – 2041; Kimley-Horn, 2022

Table A.7. 2022 MnSASP Forecast Terminal Area Forecast (TAF) versus Mixed Methodology

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	2020		2025		2030		2035		2040		CAGR, 2020 - 2040	
				TAF	MIXED	TAF	MIXED	TAF	MIXED	TAF	MIXED	TAF	MIXED		
<b>Key General Aviation</b>															
Albert Lea	Albert Lea Municipal Airport	AEL	18,523	26,175	18,523	26,175	20,175	26,175	21,725	26,175	23,087	26,175	24,396	0.00%	1.39%
Alexandria	Alexandria Municipal Airport (Chandler Field)	AXN	20,598	25,786	20,598	27,266	22,379	28,838	24,032	30,508	25,481	32,280	26,875	1.13%	1.34%
Austin	Austin Municipal Airport	AUM	21,505	25,420	21,505	25,420	23,322	25,420	25,048	25,420	26,591	25,420	28,111	0.00%	1.35%
Baudette	Baudette International Airport	BDE	7,503	12,884	7,503	13,185	8,101	13,499	8,635	13,822	9,057	14,154	9,433	0.47%	1.15%
Ely	Ely Municipal Airport	ELO	7,550	8,200	7,550	8,200	8,146	8,200	8,711	8,200	9,219	8,200	9,717	0.00%	1.27%
Fairmont	Fairmont Municipal Airport	FRM	9,267	9,400	9,267	9,400	10,107	9,400	10,913	9,400	11,643	9,400	12,361	0.00%	1.45%
Fergus Falls	Fergus Falls Municipal Airport (Einar Mickelson Field)	FFM	13,016	8,500	13,016	8,500	14,140	8,500	15,173	8,500	16,055	8,500	16,884	0.00%	1.31%
Grand Marais	Grand Marais-Cook County Airport	CKC	3,762	3,200	3,762	3,200	4,066	3,200	4,343	3,200	4,575	3,200	4,792	0.00%	1.22%
Grand Rapids	Grand Rapids-Itasca County Airport (Gordon Newstrom Field)	GPZ	25,230	19,658	25,230	20,155	27,560	20,666	29,716	21,188	31,540	21,725	33,249	0.50%	1.39%
Mankato	Mankato Municipal Airport	MKT	100,062	126,313	100,062	127,205	108,168	128,106	115,943	129,024	123,046	129,951	130,083	0.14%	1.32%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	2020		2025		2030		2035		2040		CAGR, 2020 - 2040	
				TAF	MIXED	TAF	MIXED	TAF	MIXED	TAF	MIXED	TAF	MIXED	TAF	MIXED
Marshall	Marshall-Southwest Minnesota Regional Airport-Marshall/Ryan Field	MML	15,926	22,848	15,926	22,848	17,539	22,848	19,151	22,848	20,730	22,848	22,397	0.00%	1.72%
Minneapolis	Minneapolis Anoka County/Blaine Airport (Janes Field)	ANE	71,740	69,954	71,740	77,600	75,754	79,548	79,238	81,576	82,064	83,690	84,631	0.90%	0.83%
Minneapolis	Minneapolis Flying Cloud Airport	FCM	104,405	119,710	104,405	121,307	113,760	122,450	123,095	123,607	132,179	124,778	141,549	0.21%	1.53%
New Ulm	New Ulm Municipal Airport	ULM	7,792	15,510	7,792	15,510	8,488	15,510	9,148	15,510	9,746	15,510	10,336	0.00%	1.42%
Owatonna	Owatonna Degner Regional Airport	OWA	16,357	30,458	16,357	32,708	17,637	34,855	18,816	36,407	19,840	38,043	20,810	1.12%	1.21%
Park Rapids	Park Rapids Municipal Airport	PKD	19,476	15,833	19,476	15,833	21,174	15,833	22,699	15,833	23,934	15,833	25,044	0.00%	1.27%
Red Wing	Red Wing Regional Airport	RGK	11,751	14,050	11,751	14,050	12,663	14,050	13,518	14,050	14,277	14,050	15,010	0.00%	1.23%
St. Paul	Saint Paul Downtown Airport (Holman Field)	STP	40,934	29,492	40,934	29,196	44,384	29,253	47,692	29,310	50,693	29,368	17,274	-0.02%	1.36%
Warroad	Warroad International Airport (Swede Carlson Field)	RRT	16,617	9,052	16,617	9,328	17,948	9,631	19,182	9,965	20,293	10,333	5,114	0.66%	1.27%
Willmar	Willmar Municipal Airport	BDH	24,429	17,850	24,429	17,850	26,386	17,850	28,217	17,850	29,846	17,850	12,354	0.00%	1.27%
Winona	Winona Municipal Airport (Max Conrad Field)	ONA	9,945	10,479	9,945	10,633	10,799	10,814	11,619	10,999	12,380	11,187	8,906	0.33%	1.41%
Worthington	Worthington Municipal Airport	OTG	11,078	10,202	11,078	10,515	11,876	10,834	12,618	11,159	13,268	11,494	13,246	0.60%	1.14%
<b>Intermediate Large</b>															
Aitkin	Aitkin Municipal Airport	AIT	13,733	16,264	13,733	17,646	15,504	19,148	16,032	20,778	16,549	22,548	14,679	1.65%	1.15%
Benson	Benson Municipal Airport	BBB	4,065	5,100	4,065	5,100	4,590	5,100	4,746	5,100	4,899	5,100	20,994	0.00%	1.15%
Cambridge	Cambridge Municipal Airport	CBG	9,821	18,560	9,821	20,106	11,088	21,769	11,466	23,578	11,835	25,515	5,053	1.60%	1.15%
Canby	Canby Municipal Airport (Myers Field)	CNB	7,080	6,720	7,080	6,720	7,993	6,720	8,266	6,720	8,532	6,720	10,236	0.00%	1.15%
Cloquet	Cloquet-Carlton County Airport	COQ	10,530	10,046	10,530	10,271	11,888	10,501	12,293	10,734	12,690	10,971	24,113	0.44%	1.15%
Cook	Cook Municipal Airport	CQM	5,022	6,432	5,022	6,818	5,669	7,183	5,863	7,521	6,052	7,872	5,389	1.02%	1.15%
Crookston	Crookston Municipal Airport (Kirkwood Field)	CKN	11,670	20,150	11,670	20,150	13,175	20,150	13,624	20,150	14,063	20,150	16,830	0.00%	1.15%
Detroit Lakes	Detroit Lakes Airport (Wething Field)	DTL	16,690	16,504	16,690	17,821	18,842	19,151	19,485	20,726	20,113	22,408	9,867	1.54%	1.15%
Dodge Center	Dodge Center Municipal Airport	TOB	4,017	5,000	4,017	5,000	4,535	5,000	4,689	5,000	4,841	5,000	5,042	0.00%	1.15%
Eveleth	Eveleth-Virginia Municipal Airport	EVM	8,137	17,993	8,137	18,756	9,187	20,288	9,500	21,050	9,806	21,842	24,132	0.97%	1.15%
Faribault	Faribault Municipal Airport	FBL	19,169	19,328	19,169	22,002	21,642	24,050	22,380	26,514	23,101	29,675	5,950	2.17%	1.15%
Glenwood	Glenwood Municipal Airport	GHW	4,284	4,900	4,284	4,900	4,837	4,900	5,001	4,900	5,163	4,900	26,486	0.00%	1.15%
Hallock	Hallock Municipal Airport	HCO	13,380	17,700	13,380	17,700	15,105	17,700	15,620	17,700	16,124	17,700	8,879	0.00%	1.15%
Hutchinson	Hutchinson Municipal Airport (Butler Field)	HCD	7,844	12,669	7,844	13,711	8,855	14,371	9,157	15,228	9,452	16,170	11,154	1.23%	1.15%
Litchfield	Litchfield Municipal Airport	LJF	4,008	7,000	4,008	7,000	4,525	7,000	4,679	7,000	4,830	7,000	15,569	0.00%	1.15%
Little Falls	Little Falls-Morrison County Airport	LXL	19,184	22,450	19,184	22,450	21,659	22,450	22,397	22,450	23,119	22,450	11,781	0.00%	1.15%
Luverne	Luverne Municipal Airport	LYV	4,730	8,400	4,730	8,400	5,340	8,400	5,522	8,400	5,700	8,400	1,707	0.00%	1.15%

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	2020		2025		2030		2035		2040		CAGR, 2020 - 2040	
				TAF	MIXED	TAF	MIXED	TAF	MIXED	TAF	MIXED	TAF	MIXED	TAF	MIXED
Minneapolis	Minneapolis Airlake Airport	LVN	21,055	33,549	21,055	33,390	23,771	33,839	24,582	34,370	25,374	34,907	5,881	0.20%	1.15%
Montevideo	Montevideo-Chippewa County Airport	MVE	7,058	11,665	7,058	12,441	7,969	13,266	8,240	14,146	8,506	15,083	3,080	1.29%	1.15%
Moorhead	Moorhead Municipal Airport	JKJ	8,867	12,750	8,867	14,000	10,011	15,250	10,352	16,500	10,686	17,774	9,495	1.67%	1.15%
Mora	Mora Municipal Airport	JMR	12,377	15,000	12,377	15,000	13,973	15,000	14,450	15,000	14,916	15,000	10,871	0.00%	1.15%
Morris	Morris Municipal Airport	MOX	9,366	5,906	9,366	5,906	10,574	5,906	10,934	5,906	11,287	5,906	17,740	0.00%	1.15%
Orr	Orr Regional Airport	ORB	1,357	2,500	1,357	2,500	1,532	2,500	1,584	2,500	1,635	2,500	8,143	0.00%	1.15%
Pipestone	Pipestone Municipal Airport	PQN	4,675	8,200	4,675	8,200	5,278	8,200	5,458	8,200	5,634	8,200	62,053	0.00%	1.15%
Preston	Preston Fillmore County Airport	FKA	2,449	7,188	2,449	8,282	2,764	8,854	2,859	9,330	2,951	9,816	4,916	1.57%	1.15%
Princeton	Princeton Municipal Airport	PNM	7,548	14,172	7,548	15,748	8,522	17,378	8,812	19,095	9,096	20,948	5,572	1.97%	1.15%
Redwood Falls	Redwood Falls Municipal Airport	RWF	8,642	9,800	8,642	9,800	9,757	9,800	10,089	9,800	10,414	9,800	9,612	0.00%	1.15%
Roseau	Roseau Municipal Airport (Rudy Billberg Field)	ROX	14,103	18,627	14,103	20,302	15,922	22,127	16,464	24,078	16,995	26,221	17,878	1.72%	1.15%
Rush City	Rush City Municipal Airport	ROS	6,473	7,810	6,473	7,810	7,308	7,810	7,557	7,810	7,801	7,810	2,758	0.00%	1.15%
South St. Paul	South St. Paul Municipal Airport (Fleming Field)	SGS	49,331	51,871	49,331	56,331	55,693	61,170	57,592	66,463	59,448	72,304	14,431	1.67%	1.15%
St. James	Saint James Municipal Airport	JYG	3,908	5,485	3,908	5,485	4,412	5,485	4,563	5,485	4,710	5,485	8,417	0.00%	1.15%
Two Harbors	Two Harbors-Richard B. Helgeson Airport	TWM	4,429	7,000	4,429	7,000	5,001	7,000	5,171	7,000	5,338	7,000	7,189	0.00%	1.15%
Wadena	Wadena Municipal Airport	ADC	6,233	5,410	6,233	5,410	7,036	5,410	7,276	5,410	7,511	5,410	10,252	0.00%	1.15%
<b>Intermediate Small</b>															
Blue Earth	Blue Earth Municipal Airport	SBU	7,642	14,000	7,642	14,000	8,627	14,000	8,921	14,000	9,209	14,000	7,640	1.15%	1.15%
Buffalo	Buffalo Municipal Airport	CFE	14,213	22,739	14,213	24,761	16,046	27,000	16,593	29,440	17,128	32,089	18,394	1.15%	1.15%
Caledonia	Caledonia-Houston County Airport	CHU	2,193	3,500	2,193	3,500	2,475	3,500	2,560	3,500	2,642	3,500	2,030	1.15%	1.15%
Duluth	Duluth-Sky Harbor Airport & Seaplane Base	DYT	11,472	13,900	11,472	13,900	12,952	13,900	13,394	13,900	13,825	13,900	5,547	1.15%	1.15%
Elbow Lake	Elbow Lake Municipal Airport	Y63	6,691	9,000	6,691	9,000	7,554	9,000	7,812	9,000	8,064	9,000	6,720	1.15%	1.15%
Fosston	Fosston Municipal Airport	FSE	5,715	8,345	5,715	8,345	6,452	8,345	6,672	8,345	6,887	8,345	2,943	1.15%	1.15%
Glencoe	Glencoe Municipal Airport (Vernon Perschau Field)	GYL	8,150	10,885	8,150	12,037	9,201	13,162	9,515	14,318	9,822	15,555	2,039	1.15%	1.15%
Hawley	Hawley Municipal Airport	04Y	5,225	8,770	5,225	9,675	5,899	10,678	6,100	11,788	6,297	13,009	52,254	1.15%	1.15%
Hector	Hector Municipal Airport	1D6	6,074	7,000	6,074	7,000	6,857	7,000	7,091	7,000	7,319	7,000	3,988	1.15%	1.15%
Jackson	Jackson Municipal Airport	MJQ	14,623	19,259	14,623	20,779	16,509	23,039	17,072	24,737	17,622	26,641	4,051	1.15%	1.15%
Le Sueur	Le Sueur Municipal Airport	12Y	1,614	2,573	1,614	2,639	1,822	2,704	1,884	2,769	1,945	2,834	3,753	1.15%	1.15%
Long Prairie	Long Prairie Airport (Todd Field)	14Y	4,410	5,730	4,410	5,730	4,978	5,730	5,148	5,730	5,314	5,730	6,293	1.15%	1.15%
Longville	Longville Municipal Airport	XVG	5,343	6,725	5,343	6,725	6,032	6,725	6,237	6,725	6,438	6,725	1,729	1.15%	1.15%
Madison	Madison-Lac Qui Parle Airport	DXX	2,340	2,160	2,340	2,160	2,642	2,160	2,732	2,160	2,820	2,160	4,892	1.15%	1.15%
Mahnomen	Mahnomen County Airport	3N8	1,621	1,650	1,621	1,650	1,830	1,650	1,892	1,650	1,953	1,650	2,695	1.15%	1.15%



ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	2020		2025		2030		2035		2040		CAGR, 2020 - 2040	
				TAF	MIXED	TAF	MIXED	TAF	MIXED	TAF	MIXED	TAF	MIXED	TAF	MIXED
Minneapolis	Minneapolis Crystal Airport	MIC	41,541	38,044	41,541	44,362	46,899	44,545	48,498	44,730	50,061	44,917	20,656	1.15%	1.15%
Moose Lake	Moose Lake-Carlton County Airport	MZH	3,171	4,900	3,171	4,900	3,580	4,900	3,702	4,900	3,821	4,900	9,066	1.15%	1.15%
Ortonville	Ortonville Municipal Airport (Martinson Field)	VVV	3,221	5,000	3,221	5,000	3,636	5,000	3,760	5,000	3,881	5,000	4,424	1.15%	1.15%
Paynesville	Paynesville Municipal Airport	PEX	2,984	3,635	2,984	3,774	3,368	3,892	3,483	4,015	3,596	4,143	1,531	1.15%	1.15%
Pine River	Pine River Regional Airport	PWC	5,003	6,400	5,003	6,400	5,648	6,400	5,841	6,400	6,029	6,400	6,480	1.15%	1.15%
Rushford	Rushford Municipal Airport	55Y	1,374	2,004	1,374	2,032	1,552	2,052	1,604	2,072	1,656	2,092	16,619	1.15%	1.16%
Sauk Centre	Sauk Centre Municipal Airport	D39	3,889	5,926	3,889	6,428	4,391	6,973	4,540	7,566	4,687	8,211	3,845	1.15%	1.15%
Springfield	Springfield Municipal Airport	D42	2,142	2,420	2,142	2,420	2,418	2,420	2,501	2,420	2,581	2,420	6,913	1.15%	1.15%
St. Paul	Saint Paul-Lake Elmo Airport	21D	16,421	26,533	16,421	26,698	18,539	26,866	19,171	27,031	19,789	27,196	9,612	1.15%	1.15%
Staples	Staples Municipal Airport	SAZ	7,207	9,600	7,207	9,600	8,136	9,600	8,414	9,600	8,685	9,600	17,878	1.15%	1.15%
Tower	Tower Municipal Airport	12D	3,517	3,700	3,517	3,700	3,971	3,700	4,106	3,700	4,239	3,700	2,758	1.15%	1.15%
Tracy	Tracy Municipal Airport	TKC	1,217	3,040	1,217	3,040	1,374	3,040	1,421	3,040	1,467	3,040	14,431	1.15%	1.15%
Walker	Walker Municipal Airport	Y49	5,152	9,200	5,152	9,200	5,816	9,200	6,014	9,200	6,208	9,200	8,417	1.15%	1.15%
Waseca	Waseca Municipal Airport	ACQ	13,211	17,439	13,211	18,828	14,915	20,308	15,424	21,901	15,921	23,620	7,189	1.15%	1.15%
Wheaton	Wheaton Municipal Airport	ETH	3,056	3,900	3,056	3,900	3,451	3,900	3,568	3,900	3,683	3,900	10,252	1.15%	1.15%
Windom	Windom Municipal Airport	MWM	5,496	9,578	5,496	9,948	6,205	10,172	6,416	10,347	6,623	10,507	6,572	1.15%	1.15%
<b>Landing Strip Turf</b>															
Winsted	Winsted Municipal Airport	10D	9,986	13,545	9,986	13,545	10,794	13,545	11,275	13,545	11,710	13,545	12,172	0.00%	0.99%
<b>STATEWIDE TOTAL (National Plan of Integrated Airport Systems [NPIAS] GA ONLY)</b>			<b>1,134,615</b>	<b>1,364,223</b>	<b>1,134,615</b>	<b>1,414,764</b>	<b>1,253,098</b>	<b>1,453,010</b>	<b>1,319,296</b>	<b>1,491,890</b>	<b>1,380,637</b>	<b>1,533,997</b>	<b>1,449,625</b>	<b>0.60%</b>	<b>1.23%</b>

Sources: W&P, 2021; FAA Aerospace Forecasts 2021 – 2041; Kimley-Horn, 2022; FAA TAF (accessed May 2021)

Table A.8. Operational Threshold Analysis by Airport

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					OPERATIONAL THRESHOLDS			
				2020	2025	2030	2035	2040	PAL 1 (LOW)	PAL 2 (MEDIUM)	PAL 3 (HIGH)	
<b>Key General Aviation</b>												
Albert Lea	Albert Lea Municipal Airport	AEL	18,523	18,523	20,175	21,725	23,087	24,396	2020	2029	X	
Alexandria	Alexandria Municipal Airport (Chandler Field)	AXN	20,598	20,598	22,379	24,032	25,481	26,875	2020	2022	X	
Austin	Austin Municipal Airport	AUM	21,505	21,505	23,322	25,048	26,591	28,111	2020	2020	X	
Baudette	Baudette International Airport	BDE	7,503	7,503	8,101	8,635	9,057	9,433	2020	X	X	
Ely	Ely Municipal Airport	ELO	7,550	7,550	8,146	8,711	9,219	9,717	2020	X	X	
Fairmont	Fairmont Municipal Airport	FRM	9,267	9,267	10,107	10,913	11,643	12,361	2020	X	X	
Fergus Falls	Fergus Falls Municipal Airport (Einar Mickelson Field)	FFM	13,016	13,016	14,140	15,173	16,055	16,884	2020	X	X	
Grand Marais	Grand Marais-Cook County Airport	CKC	3,762	3,762	4,066	4,343	4,575	4,792	X	X	X	
Grand Rapids	Grand Rapids-Itasca County Airport (Gordon Newstrom Field)	GPZ	25,230	25,230	27,560	29,716	31,540	33,249	2020	2020	X	

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					OPERATIONAL THRESHOLDS		
				2020	2025	2030	2035	2040	PAL 1 (LOW)	PAL 2 (MEDIUM)	PAL 3 (HIGH)
Mankato	Mankato Municipal Airport	MKT	100,062	100,062	108,168	115,943	123,046	130,083	2020	2020	2020
Marshall	Marshall-Southwest Minnesota Regional Airport-Marshall/Ryan Field	MML	15,926	15,926	17,539	19,151	20,730	22,397	2020	2037	X
Minneapolis	Minneapolis Anoka County/Blaine Airport (Janes Field)	ANE	71,740	71,740	75,754	79,238	82,064	84,631	2020	2020	2033
Minneapolis	Minneapolis Flying Cloud Airport	FCM	104,405	104,405	113,760	123,095	132,179	141,549	2020	2020	2020
New Ulm	New Ulm Municipal Airport	ULM	7,792	7,792	8,488	9,148	9,746	10,336	2020	X	X
Owatonna	Owatonna Degner Regional Airport	OWA	16,357	16,357	17,637	18,816	19,840	20,810	2020	X	X
Park Rapids	Park Rapids Municipal Airport	PKD	19,476	19,476	21,174	22,699	23,934	25,044	2020	2026	X
Red Wing	Red Wing Regional Airport	RGK	11,751	11,751	12,663	13,518	14,277	15,010	2020	X	X
St. Paul	Saint Paul Downtown Airport (Holman Field)	STP	40,934	40,934	44,384	47,692	50,693	53,638	2020	2020	X
Warroad	Warroad International Airport (Swede Carlson Field)	RRT	16,617	16,617	17,948	19,182	20,293	21,379	2020	2040	X
Willmar	Willmar Municipal Airport	BDH	24,429	24,429	26,386	28,217	29,846	31,438	2020	2020	X
Winona	Winona Municipal Airport (Max Conrad Field)	ONA	9,945	9,945	10,799	11,619	12,380	13,150	2020	X	X
Worthington	Worthington Municipal Airport	OTG	11,078	11,078	11,876	12,618	13,268	13,896	2020	X	X
<b>Intermediate Large</b>											
Aitkin	Aitkin Municipal Airport	AIT	13,733	13,733	15,504	16,032	16,549	17,274	2020	2020	X
Benson	Benson Municipal Airport	BBB	4,065	4,065	4,590	4,746	4,899	5,114	2020	X	X
Bigfork	Bigfork Municipal Airport	FOZ	2,327	2,327	2,627	2,716	2,804	2,927	2020	X	X
Cambridge	Cambridge Municipal Airport	CBG	9,821	9,821	11,088	11,466	11,835	12,354	2020	2020	X
Canby	Canby Municipal Airport (Myers Field)	CNB	7,080	7,080	7,993	8,266	8,532	8,906	2020	X	X
Cloquet	Cloquet-Carlton County Airport	COQ	10,530	10,530	11,888	12,293	12,690	13,246	2020	2020	X
Cook	Cook Municipal Airport	CQM	5,022	5,022	5,669	5,863	6,052	6,317	2020	X	X
Crookston	Crookston Municipal Airport (Kirkwood Field)	CKN	11,670	11,670	13,175	13,624	14,063	14,679	2020	2020	X
Detroit Lakes	Detroit Lakes Airport (Wething Field)	DTL	16,690	16,690	18,842	19,485	20,113	20,994	2020	2020	X
Dodge Center	Dodge Center Municipal Airport	TOB	4,017	4,017	4,535	4,689	4,841	5,053	2020	X	X
Eveleth	Eveleth-Virginia Municipal Airport	EVM	8,137	8,137	9,187	9,500	9,806	10,236	2020	2035	X
Faribault	Faribault Municipal Airport	FBL	19,169	19,169	21,642	22,380	23,101	24,113	2020	2020	X
Glenwood	Glenwood Municipal Airport	GHW	4,284	4,284	4,837	5,001	5,163	5,389	2020	X	X
Granite Falls	Granite Falls Municipal Airport (Lenzen-Roe Memorial Field)	GDB	7,544	7,544	8,517	8,808	9,092	9,490	2020	X	X
Hallock	Hallock Municipal Airport	HCO	13,380	13,380	15,105	15,620	16,124	16,830	2020	2020	X
Hutchinson	Hutchinson Municipal Airport (Butler Field)	HCD	7,844	7,844	8,855	9,157	9,452	9,867	2020	2039	X
Litchfield	Litchfield Municipal Airport	LJF	4,008	4,008	4,525	4,679	4,830	5,042	2020	X	X
Little Falls	Little Falls-Morrison County Airport	LXL	19,184	19,184	21,659	22,397	23,119	24,132	2020	2020	X
Luverne	Luverne Municipal Airport	LYV	4,730	4,730	5,340	5,522	5,700	5,950	2020	X	X
Minneapolis	Minneapolis Airlake Airport	LVN	21,055	21,055	23,771	24,582	25,374	26,486	2020	2020	X
Montevideo	Montevideo-Chippewa County Airport	MVE	7,058	7,058	7,969	8,240	8,506	8,879	2020	X	X

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					OPERATIONAL THRESHOLDS		
				2020	2025	2030	2035	2040	PAL 1 (LOW)	PAL 2 (MEDIUM)	PAL 3 (HIGH)
Moorhead	Moorhead Municipal Airport	JKJ	8,867	8,867	10,011	10,352	10,686	11,154	2020	2023	X
Mora	Mora Municipal Airport	JMR	12,377	12,377	13,973	14,450	14,916	15,569	2020	2020	X
Morris	Morris Municipal Airport	MOX	9,366	9,366	10,574	10,934	11,287	11,781	2020	2021	X
Orr	Orr Regional Airport	ORB	1,357	1,357	1,532	1,584	1,635	1,707	2030	X	X
Perham	Perham Municipal Airport	16D	6,235	6,235	7,040	7,280	7,514	7,843	2020	X	X
Pipestone	Pipestone Municipal Airport	PQN	4,675	4,675	5,278	5,458	5,634	5,881	2020	X	X
Preston	Preston Fillmore County Airport	FKA	2,449	2,449	2,764	2,859	2,951	3,080	2020	X	X
Princeton	Princeton Municipal Airport	PNM	7,548	7,548	8,522	8,812	9,096	9,495	2020	X	X
Redwood Falls	Redwood Falls Municipal Airport	RWF	8,642	8,642	9,757	10,089	10,414	10,871	2020	2025	X
Roseau	Roseau Municipal Airport (Rudy Billberg Field)	ROX	14,103	14,103	15,922	16,464	16,995	17,740	2020	2020	X
Rush City	Rush City Municipal Airport	ROS	6,473	6,473	7,308	7,557	7,801	8,143	2020	X	X
South St. Paul	South St. Paul Municipal Airport (Fleming Field)	SGS	49,331	49,331	55,693	57,592	59,448	62,053	2020	2020	2020
St. James	Saint James Municipal Airport	JYG	3,908	3,908	4,412	4,563	4,710	4,916	2020	X	X
Two Harbors	Two Harbors-Richard B. Helgeson Airport	TWM	4,429	4,429	5,001	5,171	5,338	5,572	2020	X	X
Wadena	Wadena Municipal Airport	ADC	6,233	6,233	7,036	7,276	7,511	7,840	2020	X	X
<b>Intermediate Small</b>											
Ada/Twin Valley	Ada-Norman County/Ada/Twin Valley Airport	D00	3,085	3,085	3,483	3,602	3,718	3,881	2020	X	X
Appleton	Appleton Municipal Airport	AQP	2,034	2,034	2,296	2,375	2,451	2,559	2020	X	X
Bagley	Bagley Municipal Airport	7Y4	434	434	490	507	523	546	2021	X	X
Blue Earth	Blue Earth Municipal Airport	SBU	7,642	7,642	8,627	8,921	9,209	9,612	2020	2020	X
Brooten	Brooten Municipal Airport	6D1	1,248	1,248	1,409	1,457	1,504	1,570	2020	X	X
Buffalo	Buffalo Municipal Airport	CFE	14,213	14,213	16,046	16,593	17,128	17,878	2020	2020	X
Caledonia	Caledonia-Houston County Airport	CHU	2,193	2,193	2,475	2,560	2,642	2,758	2020	X	X
Duluth	Duluth-Sky Harbor Airport & Seaplane Base	DYT	11,472	11,472	12,952	13,394	13,825	14,431	2020	2020	X
Elbow Lake	Elbow Lake Municipal Airport	Y63	6,691	6,691	7,554	7,812	8,064	8,417	2020	2022	X
Fertile	Fertile Municipal Airport	D14	7,851	7,851	8,864	9,166	9,461	9,876	2020	2020	X
Forest Lake	Forest Lake Airport	25D	6,878	6,878	7,765	8,030	8,289	8,652	2020	2021	X
Fosston	Fosston Municipal Airport	FSE	5,715	5,715	6,452	6,672	6,887	7,189	2020	2040	X
Glencoe	Glencoe Municipal Airport (Vernon Perschau Field)	GYL	8,150	8,150	9,201	9,515	9,822	10,252	2020	2020	X
Hawley	Hawley Municipal Airport	04Y	5,225	5,225	5,899	6,100	6,297	6,572	2020	X	X
Hector	Hector Municipal Airport	1D6	6,074	6,074	6,857	7,091	7,319	7,640	2020	2031	X
Herman	Herman Municipal Airport	06Y	2,006	2,006	2,264	2,342	2,417	2,523	2020	X	X
Jackson	Jackson Municipal Airport	MJQ	14,623	14,623	16,509	17,072	17,622	18,394	2020	2020	X
Le Sueur	Le Sueur Municipal Airport	12Y	1,614	1,614	1,822	1,884	1,945	2,030	2020	X	X
Long Prairie	Long Prairie Airport (Todd Field)	14Y	4,410	4,410	4,978	5,148	5,314	5,547	2020	X	X
Longville	Longville Municipal Airport	XVG	5,343	5,343	6,032	6,237	6,438	6,720	2020	X	X

ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					OPERATIONAL THRESHOLDS		
				2020	2025	2030	2035	2040	PAL 1 (LOW)	PAL 2 (MEDIUM)	PAL 3 (HIGH)
Madison	Madison-Lac Qui Parle Airport	DXX	2,340	2,340	2,642	2,732	2,820	2,943	2020	X	X
Mahnomen	Mahnomen County Airport	3N8	1,621	1,621	1,830	1,892	1,953	2,039	2020	X	X
Maple Lake	Maple Lake Municipal Airport & Seaplane Base	MGG	15,414	15,414	17,402	17,995	18,575	19,389	2020	2020	X
McGregor	McGregor-Isedor Iverson Airport	HZX	987	987	1,114	1,152	1,189	1,242	2020	X	X
Minneapolis	Minneapolis Crystal Airport	MIC	41,541	41,541	46,899	48,498	50,061	52,254	2020	2020	2020
Moose Lake	Moose Lake-Carlton County Airport	MZH	3,171	3,171	3,580	3,702	3,821	3,988	2020	X	X
Olivia	Olivia Regional Airport	OVL	4,688	4,688	5,293	5,474	5,650	5,898	2020	X	X
Ortonville	Ortonville Municipal Airport (Martinson Field)	VVV	3,221	3,221	3,636	3,760	3,881	4,051	2020	X	X
Paynesville	Paynesville Municipal Airport	PEX	2,984	2,984	3,368	3,483	3,596	3,753	2020	X	X
Pine River	Pine River Regional Airport	PWC	5,003	5,003	5,648	5,841	6,029	6,293	2020	2022	X
Pinecreek	Piney-Pinecreek Border Airport	48Y	431	431	486	503	519	542	2022	X	X
Red Lake Falls	Red Lake Falls Municipal Airport	D81	11,345	11,345	12,809	13,245	13,672	14,271	2020	2020	X
Rushford	Rushford Municipal Airport	55Y	1,374	1,374	1,552	1,604	1,656	1,729	2020	X	X
Sauk Centre	Sauk Centre Municipal Airport	D39	3,889	3,889	4,391	4,540	4,687	4,892	2020	X	X
Slayton	Slayton Municipal Airport	DVP	3,300	3,300	3,726	3,853	3,977	4,151	2020	X	X
Springfield	Springfield Municipal Airport	D42	2,142	2,142	2,418	2,501	2,581	2,695	2020	X	X
St. Paul	Saint Paul-Lake Elmo Airport	21D	16,421	16,421	18,539	19,171	19,789	20,656	2020	2020	X
Staples	Staples Municipal Airport	SAZ	7,207	7,207	8,136	8,414	8,685	9,066	2020	2020	X
Stephen	Stephen Municipal Airport	D41	12,023	12,023	13,573	14,036	14,489	15,123	2020	2020	X
Tower	Tower Municipal Airport	12D	3,517	3,517	3,971	4,106	4,239	4,424	2020	X	X
Tracy	Tracy Municipal Airport	TKC	1,217	1,217	1,374	1,421	1,467	1,531	2020	X	X
Walker	Walker Municipal Airport	Y49	5,152	5,152	5,816	6,014	6,208	6,480	2020	X	X
Warren	Warren Municipal Airport	D37	9,062	9,062	10,231	10,580	10,921	11,400	2020	2020	X
Waseca	Waseca Municipal Airport	ACQ	13,211	13,211	14,915	15,424	15,921	16,619	2020	2020	X
Wheaton	Wheaton Municipal Airport	ETH	3,056	3,056	3,451	3,568	3,683	3,845	2020	X	X
Windom	Windom Municipal Airport	MWM	5,496	5,496	6,205	6,416	6,623	6,913	2020	X	X
<b>Landing Strip Turf</b>											
Backus	Backus Municipal Airport	7Y3	4,017	4,017	4,382	4,614	4,822	5,036	2020	2020	2040
Big Falls	Big Falls Municipal Airport	7Y9	200	200	214	221	227	233	2021	X	X
Bowstring	Bowstring Airport	9Y0	323	323	348	363	376	390	2020	X	X
Clarissa	Clarissa Municipal Airport	8Y5	456	456	491	510	526	543	2020	X	X
East Gull Lake	East Gull Lake Airport	9Y2	198	198	216	228	238	248	2021	X	X
Grygla	Grygla Municipal Airport (Mel Wilkens Field)	3G2	200	200	213	220	226	232	2020	X	X
Henning	Henning Municipal Airport	05Y	1,517	1,517	1,637	1,707	1,768	1,832	2020	2020	X
Hill City	Hill City-Quadna Mountain Airport	07Y	560	560	608	637	661	687	2020	X	X
Karlstad	Karlstad Municipal Airport	23D	2,006	2,006	2,143	2,215	2,277	2,344	2020	2020	X



ASSOCIATED CITY	AIRPORT NAME	FAA ID	BASELINE OPERATIONS	OPERATIONS FORECASTS (NO.)					OPERATIONAL THRESHOLDS		
				2020	2025	2030	2035	2040	PAL 1 (LOW)	PAL 2 (MEDIUM)	PAL 3 (HIGH)
Littlefork	Littlefork Municipal Hanover Airport	13Y	700	700	748	774	794	815	2020	X	X
Milaca	Milaca Municipal Airport	18Y	5,006	5,006	5,439	5,705	5,939	6,179	2020	2020	2021
Northome	Northome Municipal Airport	43Y	311	311	333	344	353	362	2020	X	X
Pelican Rapids	Pelican Rapids Municipal Airport	47Y	1,664	1,664	1,796	1,873	1,939	2,009	2020	2020	X
Remer	Remer Municipal Airport	52Y	512	512	558	588	615	642	2020	X	X
Sleepy Eye	Sleepy Eye Municipal Airport	Y58	5,000	5,000	5,367	5,571	5,753	5,950	2020	2020	2021
Starbuck	Starbuck Municipal Airport	D32	1,172	1,172	1,265	1,321	1,373	1,430	2020	2022	X
Tyler	Tyler Municipal Airport	63Y	1,606	1,606	1,719	1,781	1,837	1,900	2020	2020	X
Waskish	Waskish Municipal Airport	VWU	1,006	1,006	1,095	1,151	1,200	1,252	2020	2037	2021
Waskish	Wells Municipal Airport	68Y	5,018	5,018	5,349	5,517	5,664	5,825	2020	2021	X
Winsted	Winsted Municipal Airport	10D	9,986	9,986	10,794	11,275	11,710	12,172	2020	2020	2020

Sources: W&P, 2021; FAA Aerospace Forecasts, 2021 – 2041; Kimley-Horn, 2022