

CITY OF ST. JOSEPH WATER FILTRATION PLANT

OPERATIONAL REPORT

FEBRUARY 2021



Mission Statement

WSJOB- The City and Authority working together to provide safe drinking water of the highest quality to all of our customers at the lowest possible price.

WATER PLANT/DISTRIBUTION REPORT- FEBRUARY 2021

Water demand in February was down by 6,547,385 gallons representing a 7.9% decrease from 2021. This year 76,518,702 gallons were delivered which compares to 83,066,087 gallons in 2021. The February 2022 pumpage ranks 30th in the thirty-year tabulation dating back to 1993.

GENERAL ACTIVITIES

EGLE 2022 Monitoring Schedule

Monitoring schedules for both the SWMRSS&WA and the City of St. Joseph community water supplies were received from EGLE. The schedules outline required monitoring under the Safe Drinking Water Act. (PA 399 as amended). Of note this year Gross Alpha (Rad) is included which is required under the act to be sampled every nine years and Nitrites which are required every three years. Synthetic Organic Compounds are also on a three-year frequency. There are no changes in the Authority service area. UCMR 5 does not begin until 2023. The PFAS requirement is annual. The lead sampling is required an annual frequency from thirty homes in the Authority and twenty in the City and is based on population served. Plant staff is responsible for and collects all compliance samples for the city and authority water supplies.

SARA Title II Emergency and Hazardous Chemicals Inventory

The 2021 report was submitted to EGLE and copied to the St. Joseph fire chief and Berrien County LEPC. The due date is March 1st.

Lead Service Line Replacement-Ongoing

Staff continues to meet weekly with the lead service line replacement team to discuss lead service line identification, replacement, water sampling and planning.

Travel & Training

Greg attended the Infrastructure Finance Seminar at Expo in Lansing. Distribution staff attended CDL training.

TOC Analyzer

The new Shimadzu total organic carbon monitor was installed and calibrated by factory representatives. This instrument does not use chemicals and can be calibrated by WTP staff. The dramatic raw water TOC trends observed during the fall and winter measured with the old equipment were validated as a continuing trend with the Shimadzu.

SRF ITA

Staff continues to meet and assist in the loan application process under the SRF program. The project plan draft document is nearly complete. The SCIP (Strategic Capital Improvement Project) Phase II projects will be funded through this program.

SCIP Phase 1 Project Presentation at ACE 22

Staff and Jacobs submitted an abstract for the Michigan Section AWWA annual conference in Traverse City in September. The abstract was approved by the ACE Planning Committee.

Monthly Maintenance Notes

February 2022

Normal PM Maint. done Monthly	Check all High Service and Low Service Pumps, BPS pumps, Service BPS Chlorinators, Change out air filters on VFD Drives and Air Handlers. Grounds work at Plant, Booster Stations and Water Towers
2/7 to 2/8/22	Cleaned Clarifier # 2
02/10/22	Installed new distilled water unit
2/14 & 2/15/22	Installed New TOC Machine.
02/16/22	Andy Egan - Service call on South Boiler
02/18/22	Mead & White - Installed new contactor and overload for Reclaim Pump # 1 in P-7 panel
02/18/22	Andy Egan - CSD1 Boiler Inspections for North and South Plant Boilers
02/22/22	Installed new rear bearings in Rotor and Scraper Drives for Clarifier # 2

**ST. JOSEPH WATER FILTRATION PLANT
1701 LIONS PARK DRIVE
SAINT JOSEPH, MI. 49085**

**By: Greg Alimenti
St. Joseph Water Plant
700 Broad St.
Saint Joseph, MI. 49085-1276
(269) 983-1240**

FEBRUARY 2022

DISTRIBUTION:	
Total Gallons	76,518,702
Average Day	2,732,811
Maximum Day	3,089,366
Minimum Day	2,470,616

TREATMENT:	
Total Low Service	80,311,672
Wash Water Gals.	631,801
Wash Water %	0.76%
Plant Use Gals.	26,670
Plant Use %	0.03%

FILTRATION:		
Ave. Filter Run	276.9	hours
Ave. Filter Rate	1.26	g/sqft/min
Filter Eff. Index	358.6	
Ave. Loss of Head	1.5	feet
Plant Sewer Usage 12/21-1/22	4763	cft ³

LABORATORY REPORT		
Average of	Raw	Tap
Chlorides mg/L	17.5	19.1
Fluoride mg/L	0.15	0.71
Alkalinity mg/L	126	111
Hardness mg/L	156	150
pH	8.1	7.4
Calcium mg/L	43	41
Magnesium mg/L	12	10
Turbidity NTU	1.00	0.04
Temperature °F	38	
Total Coliform		0.0
Chlorine Residual		mg/L Free
Mixing Basin		0.87
Applied		0.81
Tap		1.35
Distribution		1.25

TREATMENT CHEMICAL SUMMARY:					
	Applied mg/L	Total Lbs.	Cost	Inventory lbs.	Days Supply
		CHEMICAL			
Alum (Al ⁺³)	22.05	14,782	\$4,821.20	52,374	48
Chlorine (Cl ₂)	2.30	1,540	\$2,541.67	3,827	70
Fluoride (F ₂)	0.59	394	\$691.10	20,626	278

		REMARKS:			
Total Cost all Chemicals	\$8,053.97				
Chemical Cost per Mil. Gallon Treated	\$100.28				
Chemical Cost per Mil. Gallon Delivered	\$101.12				
PLANT UTILITIES SUMMARY					
Electric:					
Total KWH	175,800	***includes measure of melted snow			
Total Power Cost	\$ 12,306.00	visit the City of Saint Joseph's Home page at www.sjcity.com			
Power Cost per Million Gallon Treated	\$ 153.23	e-mail comments to either: operator@sjcity.com or galimenti@sjcity.com			
Power Cost per Million Gallon Delivered	\$ 185.80	WEATHER CONDITIONS AT THE PLANT			
Gallons Pumped per KWH	223	SJWW Weather Computer		Air Temp. °F	
		Rain Gauge, Inches	1.71	Avg.	29.1
		days it rained***	10	Max.	57
		Wind Speed, Avg	11.8	Min.	10.3
		Wind Speed, Max	56	Lake Temp. °F	
		Prevailing Wind Dir.	North	Avg.	37.9
		Lake Level (USACE)	579.13	Max.	43.4
				Min.	33.0

February

2022

SOUTHWEST MICHIGAN REGIONAL SANITARY SEWER & WATER AUTHORITY
CLEVELAND BOOSTER STATION

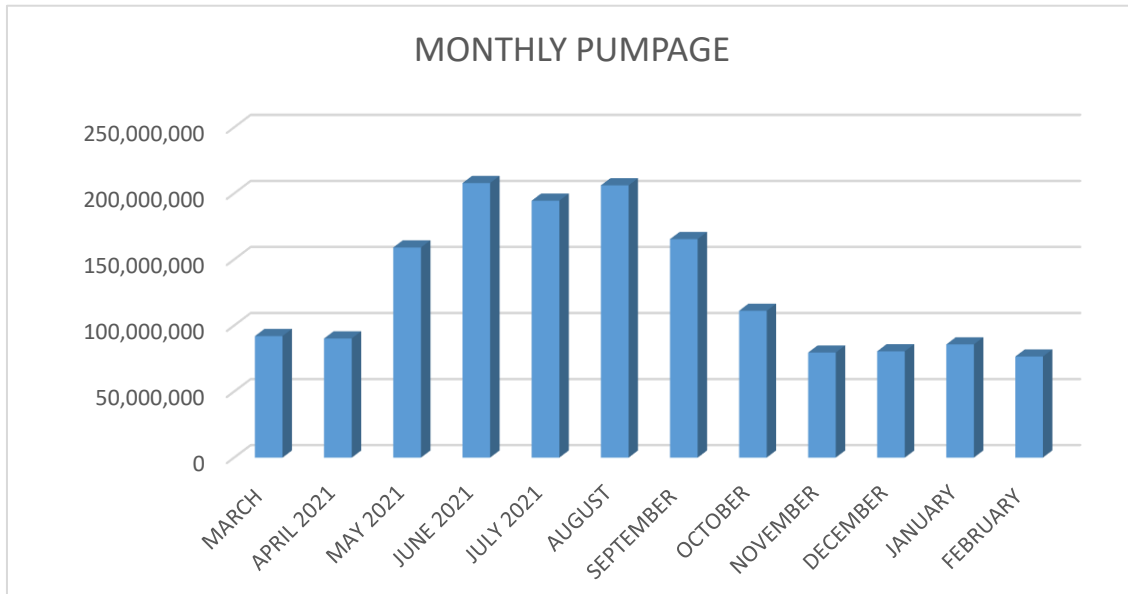
WSSN 3726

HILLTOP BOOSTER STATION

DATE	FLOW MGD	FEED GAL	CHL LBS/DAY	CHLORINE APPLIED mg/l	Cl ₂ PRE mg/l	Cl ₂ POST mg/l	Cl ₂ MON mg/l	FLOW MGD	FEED GAL	CHL LBS/DAY	CHLORINE APPLIED mg/l	Cl ₂ PRE mg/l	Cl ₂ POST mg/l	Cl ₂ MON mg/l	BOOSTER MGD
1-Feb	1.995	242	34.31	2.06	1.33	1.22	1.25	0.002	0	0.00	0.00	1.63	1.05	1.27	1.996
2-Feb	0.000	0	0.00	0.00	1.33	1.28	1.36	1.937	0	0.00	0.00	1.20	1.25	1.24	1.937
3-Feb	1.852	0	0.00	0.00	1.29	1.29	1.25	0.000	0	0.00	0.00	1.12	1.20	1.15	1.852
4-Feb	0.000	0	0.00	0.00	1.11	1.14	1.15	1.960	103	14.60	0.89	1.35	1.26	1.28	1.960
5-Feb	1.290	160	22.68	2.11				0.652	36	5.10	0.94				1.942
6-Feb	1.290	160	22.68	2.11				0.652	36	5.10	0.94				1.942
7-Feb	1.290	160	22.68	2.11	1.54	1.35	1.27	0.652	36	5.10	0.94	1.17	1.78	1.77	1.942
8-Feb	0.000	0	0.00	0.00	1.23	1.18	1.19	1.900	100	14.18	0.89	1.38	1.27	1.30	1.900
9-Feb	1.883	214	30.34	1.93	1.45	1.31	1.28	0.000	0	0.00	0.00	1.30	1.53	1.50	1.883
10-Feb	0.000	0	0.00	0.00	1.25	1.19	1.22	1.988	103	14.60	0.88	1.89	1.56	1.50	1.988
11-Feb	1.905	227	32.18	2.03	1.50	1.32	1.40	0.005	0	0.00	0.00	1.63	1.48	1.60	1.909
12-Feb	0.632	75	10.63	2.02				1.312	70	9.92	0.91				1.944
13-Feb	0.632	75	10.63	2.02				1.312	70	9.92	0.91				1.944
14-Feb	0.632	75	10.63	2.02	1.31	1.26	1.28	1.312	70	9.92	0.91	1.81	1.63	1.56	1.944
15-Feb	1.883	233	33.03	2.10	1.48	1.45	1.45	0.010	0	0.00	0.00	1.87	1.77	1.87	1.893
16-Feb	0.005	0	0.00	0.00	1.12	1.33	1.41	1.843	100	14.18	0.92	1.50	1.52	1.55	1.848
17-Feb	1.869	223	31.62	2.03	1.62	1.46	1.30	0.004	0	0.00	0.00	1.61	1.70	1.58	1.873
18-Feb	0.000	0	0.00	0.00	1.41	1.96	1.67	1.889	97	13.75	0.87	1.54	1.41	1.37	1.889
19-Feb	0.972	119	16.87	2.08				1.008	51	7.23	0.86				1.980
20-Feb	0.972	119	16.87	2.08				1.008	51	7.23	0.86				1.980
21-Feb	0.972	119	16.87	2.08				1.008	51	7.23	0.86				1.980
22-Feb	0.972	119	16.87	2.08	1.12	1.30	1.25	1.008	51	7.23	0.86	1.38	1.38	1.38	1.980
23-Feb	1.722	216	30.62	2.13	1.44	1.33	1.37	0.001	0	0.00	0.00	1.76	1.31	1.73	1.722
24-Feb	0.002	0	0.00	0.00	1.50	1.29	1.32	2.058	103	14.60	0.85	1.28	1.42	1.32	2.060
25-Feb	1.864	239	33.89	2.18	1.53	1.25	1.25	0.002	2	0.28	21.25	1.78	2.09	1.56	1.866
26-Feb	0.648	81	11.48	2.13				1.305	71	10.07	0.92				1.953
27-Feb	0.648	81	11.48	2.13				1.305	71	10.07	0.92				1.953
28-Feb	0.648	81	11.48	2.13	1.00	1.05	1.05	1.305	71	10.07	0.92	1.26	1.31	1.21	1.953
TOTAL	26.575	3,018	427.9					27.438	1,343	190.41					54.013
AVE DAY	0.949		15.3	1.48	1.3	1.3	1.3	0.9799		6.8	1.37	1.50	1.47	1.46	1.929
MAX	1.995		34.3	2.18	1.6	2.0	1.7	2.0584		14.6	21.25	1.89	2.09	1.87	2.060
MIN	0.000		0.0	0.00	1.0	1.1	1.1	0.0000		0.0	0.00	1.12	1.05	1.15	1.722
MONTHLY TOTALS:	Cleveland Total MG			SJCT EAST				Hilltop Total MG			Cleveland Pump Station:			26.575	
Average Day	1.742	Chl Add	24.716	Average Day			0.151	Chl Add		25.479	Hilltop Pump Station:			27.438	
Max Day (Est)	2.221	No Chl Add	1.859	Max Day (Est)			0.161	No Chl Add		1.958	TOTAL AUTHORITY (Trted.)			54.013	
Total Authority Flow:	54.013			Month Total			4.225								

**ST. JOSEPH WATER PLANT-YEAR TO DATE PUMPAGE
FEBRUARY 2022**

	Pumpage Month	Pumpage FISCAL YTD	By Quarter
MARCH	92,000,552	92,000,552	92,000,552
APRIL 2021	90,196,764	182,197,316	
MAY 2021	159,086,815	341,284,131	
JUNE 2021	207,863,490	549,147,621	457,147,069
JULY 2021	194,516,481	194,516,481	
AUGUST	206,106,524	400,623,005	
SEPTEMBER	165,413,457	566,036,462	566,036,462
OCTOBER	111,150,956	677,187,418	
NOVEMBER	79,512,900	756,700,318	
DECEMBER	80,497,727	837,198,045	271,161,583
JANUARY	85,696,372	922,894,416	
FEBRUARY	76,518,702	999,413,119	
TOTAL	1,548,560,739		



DISTRIBUTION REPORT

For the Month of February 2022

Activity	Number/Description
Water Main Breaks	11
MISS DIGS	208
Delinquent Shut Off	0
Hydrants (Repaired/Replaced)	0
Valve Turning	0
Valves	1 Kingsley & Lake Shore Dr. (City) Tighten bonnet bolts
Taps (1")	6136 Comiskey Rd (LCT) Old development, new house
	1646 Prairie Dr. (LCT) Old development, new house
	1720 Carlisle (RCT), Old development, new house.
	1556 Hadley Rd (SJCTE), Failed well, Connected to existing tap
	6067 Longhorn, (LCT), Old development, new house
	4990 Boulder Ridge (LCT), Old development, new house
Cross Connection Control	
Service Retirement	
Service Replacement (Lead)	510 Granada Copper on private side. Leaking
Service Repair	0
Repair of Curb box/Shut-Off Valves	6 Various; froze up, bent curb box, rod broken, adjust.
Replace Curb box	6
Meter pit/service replacement	0
Water Quality complaints	6 Water quality/pressure
Hydrant flushing to maintain water quality	2
Service line complaints (customer side)	6 leaks, high water use, misreported stormwater, snowbirds, low pressure
Private Service break	4
Staff Education/Training	6 CDL training
Overtime-Total	133.3
Turn Off	
	Defective meter
Turn On	
	Sensors bad
Finals	
	Downsize meter
Meter Repair/Replacement	
	TRT missing
Meter Repair	Audit Meter
Per detail	Verify Read
Meter leaking	Move Mxu Box
Stopped Meter	New Installation
Faulty Register	
Frozen Meter	Replaced/various reasons (e.g.,downsize, defective)
Move Meter Inside	Rockwell Replacement
Hard to read	Mxu Replaced
Replace/Adding Sprinkler Meter	Sprinkler meter removed/line capped
Damage to Meter/TRT/wire damaged	Removals/demo
New Plumbing	Curb box location
New siding	Broken Remote
Lead services	Noisy Meter
	Upgrade 5/8" to 3/4" (upgrade to 1")

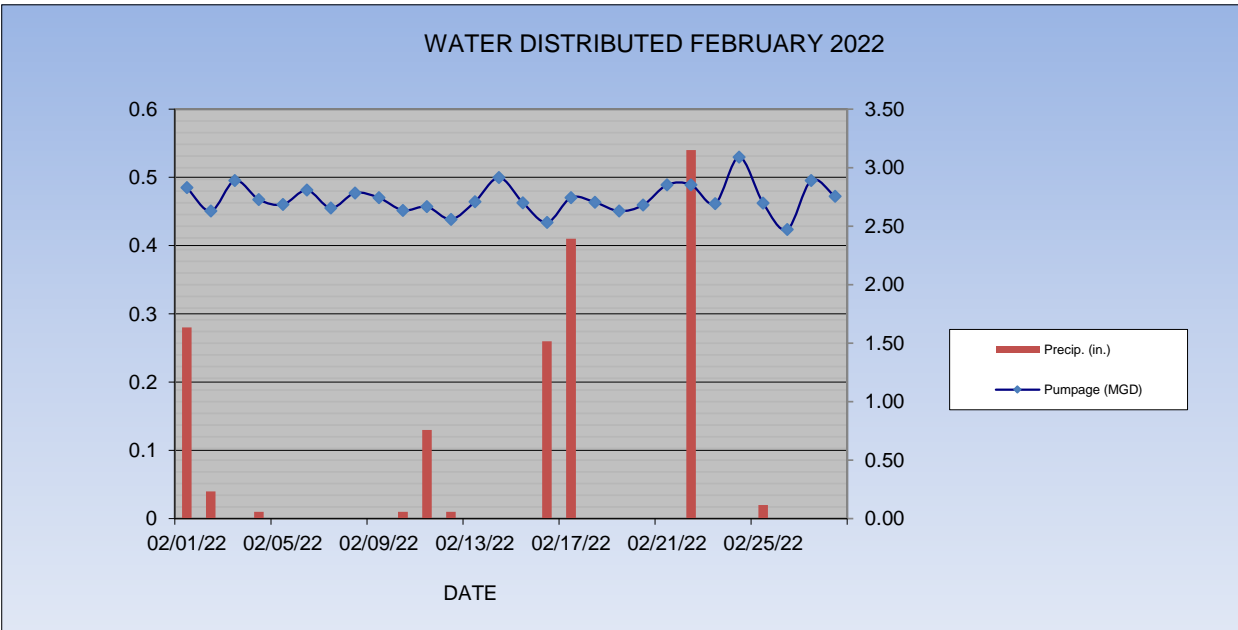
CITY OF ST. JOSEPH WATER MAIN BREAK REPORT- February 2022

Date	Location	Main Size	Gallons Lost	Break Type	Valves Turned	City Twp	Labor	Remarks
2/1/2022	5766 Ridge Road	6	29,126	Circumferential	5	LCT	27	Bad valve at George and Kimmel. From corp hole. 6.5 ft deep, sand
2/10/2022	Wedgewood & Cary Lane	6	29,126	Hole	4	SJCT	19.5	Near old repair band. Sand, 5.5 ft deep.
2/2/2021	Bryan & Kingsley	6	55,922	Hole	1	City	15	Clay, 6 ft deep
2/18/2022	5475 Ridge Road	6	23,301	Circumferential	3	LCT	26	Sand. 6.5 ft
2/22/2022	1916 Sunset Dr.	6	72,293	Hole/crack	3	City	17	Used 2 bands, Clay, 5 ft. deep
2/23/2022	2617 S. State Dr.	6	26,588	Circumferential	2	City	24	Clay, 5 ft. deep
2/3/2022	329 Kingsley	4	14,180	Circumferential	2	City	12	Clay, 6 ft deep
2/3/2022	321 Kingsley	4	14,180	Circumferential	2	City	16	Clay, 5 ft. Bonnet bolts bad on Lake Shore Dr valve
2/5/2022	721 Petrie	6	100,407	Circumferential	2	City	15.5	Clay, 6 ft deep
2/8/2022	2805 Sunnysdale Dr.	6	15,953	Circumferential	2	City	22	Clay, 5 ft. deep
2/9/2022	1915 Langley Ave.	6	29,126	Circumferential	1	City	26.25	Clay, 5 ft. deep
TOTALS			410,202				47	

**ST JOSEPH WATER PLANT PUMPAGE-WATER DELIVERED/RAINFALL
FEBRUARY 2022**

DATE	PUMPAGE (gallons)	PUMPAGE (MGD)	Rainfall (in)	Day to Day Comparison 2022/2021	
				2022	2021
02/01/22	2,828,474	2.83	0.28	2,828,474	2,594,201
02/02/22	2,628,624	2.63	0.04	2,628,624	2,806,624
02/03/22	2,889,565	2.89	0	2,889,565	2,698,542
02/04/22	2,727,403	2.73	0.01	2,727,403	2,791,769
02/05/22	2,684,502	2.68	0	2,684,502	2,914,619
02/06/22	2,807,891	2.81	0	2,807,891	2,680,046
02/07/22	2,654,543	2.65	0	2,654,543	3,209,042
02/08/22	2,783,284	2.78	0	2,783,284	2,690,849
02/09/22	2,742,684	2.74	0	2,742,684	2,878,690
02/10/22	2,635,222	2.64	0.01	2,635,222	2,694,555
02/11/22	2,665,704	2.67	0.13	2,665,704	2,828,454
02/12/22	2,558,417	2.56	0.01	2,558,417	3,062,283
02/13/22	2,709,187	2.71	0	2,709,187	2,612,624
02/14/22	2,915,001	2.92	0	2,915,001	2,813,122
02/15/22	2,699,868	2.70	0	2,699,868	2,946,147
02/16/22	2,531,518	2.53	0.26	2,531,518	2,911,237
02/17/22	2,743,641	2.74	0.41	2,743,641	3,296,397
02/18/22	2,704,241	2.70	0	2,704,241	2,939,806
02/19/22	2,628,767	2.63	0	2,628,767	3,032,821
02/20/22	2,679,838	2.68	0	2,679,838	3,171,732
02/21/22	2,852,994	2.85	0	2,852,994	3,194,586
02/22/22	2,853,322	2.85	0.54	2,853,322	3,180,463
02/23/22	2,691,909	2.69	0	2,691,909	3,215,764
02/24/22	3,089,366	3.09	0	3,089,366	3,057,639
02/25/22	2,696,913	2.70	0.02	2,696,913	3,293,359
02/26/22	2,470,616	2.47	0	2,470,616	3,193,330
02/27/22	2,890,189	2.89	0	2,890,189	3,278,807
02/28/22	2,755,021	2.76	0	2,755,021	3,078,579
		0.00			
TOTAL	76,518,702	76.52	1.71	76,518,702	83,066,087

Average Day	2,732,811
Maximum Day	3,089,366
Minimum Day	2,470,616



	TOC Compliance							
	Treated	Source	Formula		Req. TOC	Actual	Alternative	Compl. Perf.
	Tap	Tap	Ratio	Alka- linity	Removal	Ratio/ Remov	Criteria Complied Y/N	
February	1.40	1.80	22.2	112	25	0.89	Yes	1.00
March	2.15	2.71	20.7	130	15	1.38	N(Removal)	1.38
						1.13		
April	1.59	2.14	25.7	112	25	1.03	N(Removal)	1.03
May	1.54	1.90	18.9	115	25	0.76	Yes	1.00
June	1.51	1.86	18.8	111	25	0.75	Yes	1.00
						0.85		
July	1.61	1.98	18.7	111	25	0.75	Yes	1.00
August	1.47	1.92	23.4	112	25	0.94	Yes	1.00
September	1.60	1.90	15.8	112	25	0.63	Yes	1.00
						0.77	Yes	1.00
October	1.75	2.61	33.0	122	15	2.20	N(Removal)	2.20
November	1.49	1.85	19.5	121	15	1.30	N(Removal)	1.30
December	2.72	2.98	8.7	130	15	0.58	Yes	1.00
						1.36		
January	1.60	1.95	17.9	118	25	0.72	Yes	1.00
February	1.49	1.89	21.2	133	15	1.41	N(Removal)	1.41
Qtr Average						1.03	N(Removal)	
Annual Avg.	1.69	2.11				1.03		1.17

2/22/2021

3/17/2021

4/12/2021

5/13/2021

6/15/2021

7/12/2021

8/18/2021

9/9/2021

10/24/2021

11/9/2021

12/15/2021

1/12/2022

2/17/2022

MONTHLY CLIMATOLOGICAL SUMMARY

February 2022

NAME: sjwwweather

St. Joseph Water Plant - 1701 Lions Park Drive - St. Joseph, MI

DAY	MEAN TEMP	NORM MEAN TEMP	HIGH TEMP	TIME	NORM HIGH TEMP	REC HIGH TEMP	YEAR	LOW TEMP	TIME	NORM LOW TEMP	REC LOW TEMP	YEAR	HEAT DEG DAYS	COOL DEG DAYS	RAIN	AVG WIND SPEED	HIGH	TIME	DOM DIR
1	38.9	25	50.6	1:00p	32	64	1989	29.9	12:30a	16	-3	1996	26.1	0	0.28	8.6	26	2:30p	SSE
2	27.4	25	35.6	12:30a	32	50	1968	22.6	12:00m	16	-12	1951	37.6	0	0.04	12.2	30	11:00p	NNE
3	20.1	25	22.6	12:30a	32	56	1991	16.3	12:00m	17	-10	1996	44.9	0	0	7.8	23	1:30a	NNE
4	17.3	25	24.1	11:30p	32	52	1991	10.3	9:00a	17	-6	1985	47.7	0	0.01	7.5	31	11:30p	N
5	21	25	25.4	3:00p	33	50	1964	15.6	8:00p	17	-7	1996	44	0	0	10.1	34	12:30a	N
6	26	25	34.1	5:00p	33	55	2017	18	2:30a	17	-6	1979	39	0	0	8.7	21	12:30a	N
7	28	26	32.5	4:00a	33	55	2017	25.1	5:30p	17	-13	1978	37	0	0	14.6	29	6:30a	N
8	27.7	26	40.6	11:30p	33	60	1990	16.8	6:00a	17	-8	1978	37.3	0	0	8.7	27	12:00m	SSE
9	35.6	26	39.4	12:30a	33	58	1990	34.5	9:30a	17	-12	1985	29.4	0	0	13	31	12:00m	N
10	30.8	26	35.1	12:30a	34	56	1999	27	9:30p	17	-12	1994	34.2	0	0.01	14.7	31	3:00a	N
11	35.4	26	38	10:00a	34	70	1999	29.2	12:30a	18	-4	1994	29.6	0	0.13	15.3	41	8:00p	N
12	22.4	26	29.8	12:30a	34	70	1999	19.8	9:30p	18	2	1967	42.6	0	0.01	16.8	35	4:30a	N
13	19.1	27	20.9	3:30a	34	56	1984	16.2	8:30a	18	-8	1955	45.9	0	0	12.5	34	3:30p	N
14	18.3	27	22.8	6:30p	35	58	1954	13.2	7:00a	18	3	1970	46.7	0	0	6.4	18	10:00a	N
15	26.4	27	36.6	12:00m	35	65	1954	16.8	8:30a	18	2	1963	38.6	0	0	5.9	24	10:30p	N
16	48.7	27	52.9	9:00p	35	64	1954	36.6	12:30a	19	-4	1985	16.3	0	0.26	14.5	40	3:30p	N
17	31.3	28	44.7	12:30a	35	61	2017	25.1	10:00p	19	-8	1979	33.7	0	0.41	21.1	39	11:30a	N
18	25.9	28	33.8	12:00m	36	63	1961	21.8	10:00a	19	0	1978	39.1	0	0	18.8	55	11:30p	N
19	19.7	28	33	1:00a	36	63	1994	14.6	11:30p	19	-1	1993	45.3	0	0	20.3	56	2:30a	N
20	34.9	29	46.8	2:00p	36	67	2017	14.8	12:30a	20	-5	1979	30.1	0	0	12.8	40	2:30p	S
21	47	29	57	4:30p	37	61	1983	35.3	7:30a	20	1	1963	18	0	0	4.1	19	12:30a	N
22	42	29	53.1	9:30a	37	62	2017	26.6	12:00m	20	-4	1963	23	0	0.54	9.3	35	7:00p	SSE
23	24.7	29	27.9	3:00a	37	65	1984	22.5	9:30a	20	-1	1989	40.3	0	0	15.6	41	5:00a	N
24	24.8	30	31	1:30p	38	64	1984	20.5	8:30a	21	1	1989	40.2	0	0	3.9	16	10:00a	NE
25	24.3	30	27.4	4:00p	38	64	1976	20.8	5:30a	21	-2	1993	40.7	0	0.02	5.6	25	12:00m	N
26	27.7	30	31.7	6:30p	38	60	1996	24.2	9:00a	21	-5	1963	37.3	0	0	19.4	36	11:00p	N
27	33.3	31	37.2	4:30p	39	71	1976	27.9	12:00m	22	-6	1994	31.7	0	0	14.4	38	2:30a	N
28	36.3	31	50.1	4:00p	39	63	1976	26.8	4:00a	22	2	1989	28.7	0	0	7	29	4:00p	N
29																			
30																			
31																			
AVE	29.1	27.4											35.9	0.0	0.1	11.8	32.3		N
MAX	48.7	31	57			71		36.6		22	3		47.7	0	0.54	21.1	56.0		
MIN	17.3	25	20.9					10.3		16	-13		16.3	0	0	3.9	16		
TOTAL															1.71				

Max Rain: 0.54 ON 02/22/22
 Days of Rain: 7 (>.01 in) 5 (>.1 in) 0 (>1 in)