

CITY OF NEEDLES
WATER ACCOUNTING
MONTHLY CALCULATION SHEET
CALENDAR YEAR 2025

Diversions - Pumped from Wells	Pumped (Acre-Feet)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Well #8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Well # 15 (formerly #10)	92.79	77.97	95.62	108.15	124.34	131.11	59.93	52.00	1.51	0.28	0.00	0.00	743.70
Well #11	0.00	0.00	0.00	0.00	0.00	0.00	83.48	102.56	122.38	112.39	116.72	25.10	537.53
Well #12	26.95	31.32	42.93	54.47	51.12	71.70	76.98	69.73	71.47	53.02	25.10	0.00	574.79
Sub-Total	119.74	109.29	138.55	162.62	175.46	202.81	220.39	224.29	195.36	165.69	141.82	0.00	1,856.02
Delivered to Ft. Mojave Indian Tribe (AZ)	11.04	0.00	0.00	0.00	0.01	0.10	0.07	1.00	0.00	0.00	0.00	10.55	22.77
Delivered to Ft. Mojave Indian Tribe (CA)	4.19	7.72	2.84	3.34	4.51	4.81	4.97	5.57	4.46	3.59	3.98	0.00	49.98
Sub-Total	15.23	7.72	2.84	3.34	4.52	4.91	5.04	6.57	4.46	3.59	14.53	0.00	72.75
City of Needles' Net Diversion	104.51	101.57	135.71	159.28	170.94	197.90	215.35	217.72	190.90	162.10	127.29	0.00	1,783.27
Uses of Water													
Commercial Accounts	19.24	38.81	26.97	49.08	52.58	61.18	60.22	62.72	56.27	41.44	43.36	0.00	511.87
Residential Accounts	33.12	28.35	35.60	50.75	57.50	54.26	58.70	70.74	49.07	51.82	54.20	0.00	544.11
Golf Course	17.76	31.32	42.93	54.47	51.12	71.70	76.98	69.73	71.47	53.02	25.10	0.00	565.60
Parks, Ballparks, Cemetery	5.38	3.09	4.64	4.97	9.73	10.76	19.45	14.54	14.09	15.81	4.63	0.00	107.09
Total	75.50	101.57	110.14	159.27	170.93	197.90	215.35	217.73	190.90	162.09	127.29	0.00	1,728.67

**CALENDAR YEAR 2025
WASTEWATER TREATMENT PLANT**

	Mean Flow	# Days	A/F	A/F Return
Jan	0.419	31	39.86	38.67
Feb	0.424	28	36.44	35.34
Mar	0.421	31	40.05	38.85
Apr	0.457	30	42.08	40.81
May	0.439	31	41.77	40.51
Jun	0.461	30	42.45	41.17
Jul	0.499	31	47.48	46.05
Aug	0.502	31	47.76	46.33
Sep	0.494	30	45.48	44.12
Oct	0.503	31	47.86	46.42
Nov	0.456	30	41.99	40.73
Dec		31	0.00	0.00
TOTAL	5.075	365	473.21	459.00

Daily mean flow x #days mo X 1,000,000 = gal/mo
divided by 7.48 divided by 43560 = A/F mo

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Well #12	26.95	31.32	42.93	54.47	51.12	71.70	76.98	69.73	71.47	53.02	25.10	0.00	574.79
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City of Needles' Net Diversion	104.51	101.57	135.71	159.28	170.94	197.90	215.35	217.72	190.90	162.10	127.29	0.00	1,783.27

Return and Other Credits													
Measured Returns													
Sewer Plant's Rapid Infiltration Ponds ¹	38.67	35.34	38.85	40.81	40.51	41.17	46.05	46.33	44.12	46.42	40.73	0.00	459.00
Unmeasured Returns													
Percolation from Golf Course ²	0.17	12.65	16.49	33.22	7.09	22.57	30.76	27.24	38.17	35.39	7.00	0.00	230.73
Percolation from Parks ³	2.15	1.24	1.86	1.99	3.89	4.30	7.78	5.82	5.64	6.32	1.85	0.00	42.84
Percolation from Large Commercial Users ⁴	0.46	0.93	0.65	1.18	1.26	1.47	1.45	1.51	1.35	0.99	1.04	0.00	12.28
System Losses ⁵	29.01	0.00	25.57	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	54.61
Septic Tank Returns ⁶	4.12	3.84	4.41	4.22	4.12	3.96	4.54	4.48	4.16	4.16	3.98	0.00	46.01
Total Unmeasured Returns	35.91	18.66	48.98	40.61	16.37	32.30	44.53	39.04	49.32	46.87	13.86	0.00	386.47
Total Returns	74.58	54.00	87.83	81.42	56.88	73.47	90.58	85.37	93.44	93.29	54.59	0.00	845.47

Footnotes:
1/ Calculated as WWTP Total Discharge*0.97.
2/ Calculated as Monthly Delivery to Golf Course*Efficiency-Monthly ET. Efficiency =0.9
3/ Calculated as Delivery to Parks, Ballparks, Cemetry*0.40.
4/ Calculated as 24% of Deliveries to Commercial Accounts*0.10.
5/ Calculated as City of Needles' Net Diversions- Total Uses.
6/ Total Annual UMRF from septic tanks = 50. assumes 210 septic units*0.6 AF/yr*0.40 (where 0.40 = UMRF Factor). Annual volume is distributed monthly using a monthly distribution factor.

Consumptive Use													
Diversion	104.51	101.57	135.71	159.28	170.94	197.90	215.35	217.72	190.90	162.10	127.29	0.00	1,783.27
Measured Returns	38.67	35.34	38.85	40.81	40.51	41.17	46.05	46.33	44.12	46.42	40.73	0.00	459.00
Unmeasured Returns	35.91	18.66	48.98	40.61	16.37	32.30	44.53	39.04	49.32	46.87	13.86	0.00	386.47
Consumptive Use	29.93	47.57	47.88	77.86	114.06	124.43	124.77	132.35	97.46	68.81	72.70	0.00	937.80