

CITY OF NEEDLES
WATER ACCOUNTING
MONTHLY CALCULATION SHEET
CALENDAR YEAR 2025

Diversion - 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
Well # 15 (formerly #10)	92.79	77.97	95.62										266.38
Well #11	0.00	0.00	0.00										0.00
Well #12	26.95	31.32	42.93										101.20
Sub-Total	119.74	109.29	138.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	367.58
Delivered to Ft. Mojave Indian Tribe (AZ)	11.04	0.00	0.00										11.04
Delivered to Ft. Mojave Indian Tribe (CA)	33.20	7.72	28.41										69.33
Sub-Total	44.24	7.72	28.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.37
City of Needles' Net Diversion	75.50	101.57	110.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	287.21
Uses of Water													
Commercial Accounts	19.24	38.81	26.97										85.02
Residential Accounts	33.12	28.35	35.60										97.07
Golf Course	17.76	31.32	42.93										92.01
Parks, Ballparks, Cemetery	5.38	3.09	4.64										13.11
Total	75.50	101.57	110.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	287.21

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		30	0.00	0.00
May		31	0.00	0.00
Jun		30	0.00	0.00
Jul		31	0.00	0.00
Aug		31	0.00	0.00
Sep		30	0.00	0.00
Oct		31	0.00	0.00
Nov		30	0.00	0.00
Dec		31	0.00	0.00
TOTAL	1.264	365	116.36	112.86

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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CALENDAR YEAR 2025

Diversions													
	Pumped (Acre-Feet)												
Pumped from Wells	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
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 (FKA #10)	92.79	77.97	95.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	266.38
Well #11	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 #12	26.95	31.32	42.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	101.20
Sub-Total	119.74	109.29	138.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	367.58
Delivered to Ft. Mojave Indian Tribe (AZ)	11.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.04
Delivered to Ft. Mojave Indian Tribe (CA)	33.20	7.72	28.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.33
Sub-Total	44.24	7.72	28.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.37
City of Needles' Net Diversion	75.50	101.57	110.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	287.21

Return and Other Credits												
Measured Returns												
Sewer Plant's Rapid Infiltration Ponds ¹	38.67	35.34	38.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.86
Unmeasured Returns												
Percolation from Golf Course ²	0.17	12.65	16.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.31
Percolation from Parks ³	2.15	1.24	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.24
Percolation from Large Commercial Users ⁴	0.46	0.93	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04
System Losses ⁵	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Septic Tank Returns ⁶	4.12	3.84	4.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.38
Total Unmeasured Returns	6.90	18.66	23.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.97
Total Returns	45.57	54.00	62.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	161.83

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,Cemetery*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	75.50	101.57	110.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	287.21
Measured Returns	38.67	35.34	38.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.86
Unmeasured Returns	6.90	18.66	23.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.97
Consumptive Use	29.93	47.57	47.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.38