

30" x 30" Test Plot Schematic

Every 2 Days (15 waterings/month)

LOW NO₃ HIGH

DRY

↓
H₂O
↓
WET

		0.1 ppm	3.0 ppm	6.0 ppm
22.5 L/mo	1	1.5 L H ₂ O = 1.53"/mo = 36% of normal June	2	3
			1.5 L H ₂ O + 0.075 ml HNO ₃	1.5 L H ₂ O + 0.15 ml HNO ₃
		NO ₃ 0.0389 kg/ha = 1.4% of normal June	1.17 kg/ha = 40.6% of normal June	2.33 kg/ha = 80.9% of normal June
62.1 L/mo	4	4.14 L H ₂ O = 4.22"/mo = 100% of normal June	5	6
			4.14 L H ₂ O + 0.207 ml HNO ₃	4.14 L H ₂ O + 0.414 ml HNO ₃
		NO ₃ 0.1072 kg/ha = 3.7% of normal June	3.22 kg/ha = 112% of normal June	6.43 kg/ha = 223% of normal June
156.4 L/mo	7	10.43 L H ₂ O = 10.6"/mo = 251% of normal June	8	9
			10.43 L H ₂ O + 0.522 ml HNO ₃	10.43 L H ₂ O + 1.043 ml HNO ₃
		NO ₃ 0.269 kg/ha = 9.3% of normal June	8.08 kg/ha = 280% of normal June	16.15 kg/ha = 561% of normal June

Normal June deposition on Middle Mountain - 2.88 kg/ha a NO₃

3.0 ppm = 0.05 ml of 1 M HNO₃/liter distilled water

6.0 ppm = 0.10 ml of 1 M HNO₃/liter distilled water

For entire plot need 48.21 liters every 2nd day

1986 - 2001 June Low precip @ Gypsum Crk NADP = 0.680 cm

1986 - 2001 June Ave precip @ Gypsum Crk NADP = 3.96 cm

1986 - 2001 June High precip @ Gypsum Crk NADP = 9.98 cm

Use snow melt estimated at 0.1 ppm NO₃ as low

Use high NO₃ observed in 2001 on Middle Mountain from spectrophotometer of 6 ppm NO₃