

Yavapai County Soil Analysis

Soil samples were taken throughout Yavapai County to a depth of 12 inches wherever possible. All analyses were performed by atomic absorption methods, except iron and sulfur, which were volumetric and gravimetric procedures. Phosphates were determined by colorimetric procedure. Analyses were performed for pH, dissolved solids, ortho-phosphate, iron (Fe), sulphur (S), calcium (Ca), magnesium (Mg), cobalt (Co), copper (Cu), manganese (Mn), and zinc (Zn). See Yavapai County Bulletin: A Guide for Making Recommendations for Garden Soils for an explanation of how to use these numbers in your garden or landscape. The numbers on the table are in parts per million (ppm). To convert ppm to percent, divide by 10,000. Note that the amount of iron found in the soil samples is high. These numbers indicate total iron. A small percent age of this iron is actually available for plant use. Data collected in 1996.

Soil Type per UA tech bul 171	Sample Location	pH	Dissolved Solids PPM	Ortho Phosphate PPM	Fe PPM	S PPM	Ca PPM	Mg PPM	Co PPM	Cu PPM	Mn PPM	Zn PPM
A-1	Black Canyon City	9.6	50	0.50	4550 0	2400	1146	386	30	54	504	120
A-2	Yarnell	7.9	20	0.75	4080 0	800	2859	639	<1	53	662	93
A-3	I17/Sedona Intersection	9.6	25	0.70	3660 0	Trace	1195	394	275	34	415	76
A-4	H89 SW of Prescott near Pines	7.3	12	0.50	3660 0	Trace	1762	396	25	56	395	72
A-7	89A W of Black Hills in Foothills	8.0	28	1.20	6690 0	Trace	925	400	39	70	498	104
B-1	Camp Verde – Flood Plains	8.4	35	1.00	3920 0	Trace	1182	466	30	53	466	85
C-1	Hwy 93/71 NW Corner of Intersection	9.2	21	1.50	2610 0	1000	695	288	9	19	328	47
C-2	Congress E of Hwy 89	9.2	30	0.60	2070 0	900	633	284	7	17	201	39
D-1	I40/89 Intersection ¼ mi SW	8.7	28	1.30	3500 0	Trace	774	413	28	32	657	83
D-2	Chino Valley	9.1	28	0.45	2300 0	1000	2485	560	<1	58	344	55
D-2(a)	Dewey – W of Hwy 69 Robert Stanley Property	7.4	41	1.45	3260 0	800	1199	512	<1	21	643	63
D-3	Paulden – E Side of Hwy 89	8.6	29	0.60	2610 0	1600	815	445	20	29	597	79
D-4	Hwy 89 W Side Hells Canyon	8.8	30	0.70	3820 0	Trace	797	421	27	31	633	72
D-5	Skull Valley / Bebee Ranch N or RR E of Store	8.3	20	2.10	2250 0	1000	4783	603	<1	23	306	57
D-5(a)	Wilhoit E of Hwy 89 / Toombs	8.0	17.5	0.85	2670 0	Trace	715	384	16	26	357	56
F	Hwy 89 E of Rd – 6 Mi N of Little Hells Canyon	9.1	27.5	0.40	2460 0	1700	822	416	22	26	518	73

Thanks to Paul Diemer, Master Gardener for collecting and analyzing the samples and to Joe Scotto, Laboratory Specialist, Ironite Corp, Dewey, AZ, for performing the atomic absorption analyses.