

Physical Soil Properties

Washington County, Arkansas

[Entries under "Erosion Factors--T" apply to the entire profile. Entries under "Wind Erodibility Group" and "Wind Erodibility Index" apply only to the surface layer. Absence of an entry indicates that data were not estimated]

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
ToA:														
Taloka	0-12	5-35	50-75	15-25	1.25-1.50	4.23-14.11	0.16-0.24	1.1-2.4	0.5-4.0	.37	.37	4	6	48
	12-22	0-52	28-85	15-25	1.30-1.65	4.23-14.11	0.16-0.24	1.1-2.4	0.5-1.0	.49	.49			
	22-38	0-45	0-64	35-60	1.30-1.75	0.01-0.42	0.09-0.22	3.8-8.5	0.5-1.0	.28	.28			
	38-49	0-45	12-65	35-60	1.30-1.75	0.01-0.42	0.09-0.22	3.8-8.5	0.5-1.0	.37	.37			
	49-79	0-45	12-65	35-60	1.30-1.75	0.01-0.42	0.09-0.22	3.8-8.5	0.5-1.0	.37	.37			
Parsons	0-10	0-50	25-84	15-25	1.25-1.50	4.23-14.11	0.16-0.24	0.0-2.9	0.5-4.0	.43	.43	3	6	48
	10-12	0-53	22-85	15-25	1.30-1.65	4.23-14.11	0.16-0.24	0.0-2.9	0.5-1.0	.49	.49			
	12-39	0-45	0-64	35-60	1.30-1.75	0.01-0.42	0.09-0.22	6.0-8.9	0.5-1.0	.28	.28			
	39-79	0-45	12-65	35-60	1.30-1.75	0.01-0.42	0.12-0.22	6.0-8.9	0.5-1.0	.37	.37			
Aquolls	0-8	1-10	62-81	18-28	1.16-1.44	1.41-4.23	0.21-0.24	1.9-3.8	1.0-4.0	.49	.49	---	---	---
	8-14	1-10	30-59	40-60	1.30-1.45	0.01-0.42	0.08-0.12	6.0-14.9	1.0-3.0	.32	.32			
	14-31	1-10	30-59	40-60	1.30-1.45	0.01-0.42	0.08-0.12	6.0-14.9	1.0-3.0	.32	.32			
	31-43	1-10	30-59	40-60	1.30-1.45	0.01-0.42	0.08-0.20	6.0-11.9	0.5-1.5	.32	.32			
	43-79	1-12	38-60	30-50	1.35-1.55	0.42-1.41	0.09-0.13	3.7-9.9	0.3-1.0	.37	.37			
Okemah	0-11	0-20	45-73	27-35	1.45-1.70	1.41-4.23	0.16-0.22	2.7-3.9	1.0-3.0	.37	.37	5	6	48
	11-20	0-32	40-80	20-35	1.40-1.70	1.41-4.23	0.16-0.24	1.7-3.9	1.0-3.0	.43	.43			
	20-40	0-45	0-65	35-55	1.35-1.70	0.42-1.41	0.12-0.22	3.9-7.5	0.5-1.0	.32	.32			
	40-62	0-45	0-65	35-55	1.35-1.70	0.42-1.41	0.12-0.22	3.9-7.5	0.5-1.0	.32	.32			
Carytown	0-9	10-30	50-65	12-25	1.20-1.40	4.23-14.11	0.19-0.21	0.0-2.9	0.5-2.0	.55	.55	---	---	---
	9-15	10-35	50-65	12-27	1.20-1.40	4.23-14.11	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	15-48	10-35	25-45	40-60	1.45-1.65	0.01-0.42	0.08-0.11	9.0-14.0	0.0-0.5	.24	.24			
	48-80	5-25	45-60	30-55	1.40-1.60	0.40-1.40	0.16-0.18	6.0-8.9	0.0-0.5	.37	.37			

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										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
ToA:														
Jay	0-9	0-40	50-88	10-27	1.30-1.45	4.00-14.00	0.19-0.24	0.7-2.7	1.0-4.0	.43	.43	4	5	56
	9-16	0-40	50-88	10-27	1.30-1.45	4.00-14.00	0.19-0.24	0.5-1.9	1.0-4.0	.55	.55			
	16-25	0-30	45-85	15-35	1.30-1.50	4.00-14.00	0.18-0.21	0.8-3.4	0.2-1.0	.55	.55			
	25-29	0-30	45-85	15-35	1.55-1.75	0.42-1.41	0.13-0.19	0.0	0.0-0.7	.55	.55			
	29-46	0-30	45-85	15-35	1.60-1.80	0.42-1.41	0.12-0.18	0.0	0.0-0.5	.55	.55			
	46-80	0-30	45-80	20-35	1.60-1.80	0.42-1.41	0.10-0.16	0.0	0.0-0.5	.49	.49			