

Engineering Properties

Benton County, Arkansas

[Absence of an entry indicates that the data were not estimated]

| Map symbol and soil name | Depth | USDA texture | Classification | | Fragments | | Percent passing sieve number-- | | | | Liquid limit | Plasticity index |
|--------------------------|-----------|---|--------------------------------|-----------------------------|------------|-------------|--------------------------------|-------|-------|-------|--------------|------------------|
| | | | Unified | AASHTO | >10 Inches | 3-10 Inches | 4 | 10 | 40 | 200 | | |
| | <i>In</i> | | | | <i>Pct</i> | <i>Pct</i> | | | | | <i>Pct</i> | |
| BtD: | | | | | | | | | | | | |
| Britwater | 0-6 | Gravelly silt loam | CL, CL-ML, GC | A-4, A-6 | 0 | 0 | 67-76 | 54-76 | 46-76 | 37-69 | 26-39 | 9-17 |
| | 6-22 | Gravelly clay loam, gravelly silty clay loam, gravelly silt loam, silty clay loam | CL, GC, SC | A-2-6, A-6, A-7-6 | 0 | 0 | 68-91 | 39-91 | 34-91 | 27-91 | 28-45 | 12-25 |
| | 22-60 | Gravelly clay loam, gravelly silty clay loam, very gravelly clay loam, very gravelly silty clay, very gravelly silty clay loam | CH, CL, GC | A-2-6, A-6, A-7-6 | 0 | 0-3 | 57-79 | 27-76 | 23-76 | 19-75 | 36-59 | 19-36 |
| | 60-80 | Gravelly clay loam, gravelly silty clay, very gravelly clay, very gravelly clay loam, very gravelly silty clay, very gravelly silty clay loam | CH, CL, GC | A-2-6, A-6, A-7-6 | 0 | 0-3 | 54-77 | 23-76 | 20-76 | 17-76 | 36-59 | 19-36 |
| Noark | | | | | | | | | | | | |
| | 0-4 | Very gravelly silt loam | GC, GC- GM, GM | A-1, A-2, A-4, A-6 | 0-5 | 0-10 | 30-50 | 25-50 | 25-50 | 20-45 | 15-30 | 3-11 |
| | 4-18 | Gravelly silt loam, very gravelly silt loam | CL, GC- GM, GM, ML | A-1, A-2, A-4, A-6 | 0-5 | 0-10 | 30-75 | 25-75 | 25-70 | 20-60 | 15-30 | 3-11 |
| | 18-24 | Very gravelly silty clay loam, very gravelly silt loam | GC | A-2, A-4, A-6 | 0-5 | 0-10 | 30-50 | 25-50 | 25-50 | 20-45 | 25-40 | 8-18 |
| | 24-40 | Very gravelly clay, very gravelly silty clay | GC, GM | A-2, A-7 | 0-5 | 0-10 | 30-50 | 25-50 | 25-50 | 25-45 | 41-70 | 18-33 |
| | 40-72 | Very gravelly clay, very gravelly silty clay, extremely gravelly clay | GC, GP-GC | A-2, A-7 | 0-5 | 0-15 | 20-65 | 15-60 | 15-60 | 5-40 | 45-70 | 20-38 |

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|-----------------------------|-------|--|----------------------------|---------------------------------|---------------|----------------|--------------------------------|-------|-------|-------|-----------------|---------------------|
| | | | Unified | AASHTO | >10 Inches | 3-10 Inches | 4 | 10 | 40 | 200 | | |
| | | | | | <i>Pct</i> | <i>Pct</i> | | | | | <i>Pct</i> | |
| BtD: Elsah | 0-15 | Very gravelly loam | GC, GM, SC-SM, SM | A-2-4, A-2-6, A-4, A-6 | 0-3 | 20-30 | 50-75 | 35-50 | 30-45 | 25-40 | 15-30 | 3-15 |
| | 15-22 | Gravelly silt loam, very gravelly loam, loam | CL, ML, SC, SM | A-4, A-6 | 0-5 | 10-30 | 50-90 | 35-70 | 35-65 | 35-60 | 15-30 | 3-15 |
| | 22-62 | Very cobbly silt loam, very gravelly loam, extremely gravelly loam | CL, ML, SC, SM | A-2-4, A-2-6, A-4, A-6 | 0-10 | 10-65 | 45-85 | 30-70 | 25-65 | 20-60 | 0-25 | NP-15 |