Benton County, Arkansas

[Absence of an entry indicates that the feature is not a concern or that data were not estimated. Data applies to the entire extent of the map unit within the survey area. Map unit and soil properties for a specific parcel of land may vary somewhat and should be determined by onsite investigation]

### BtC--Britwater gravelly silt loam, 3 to 8 percent slopes

#### Composition

- Britwater and similar soils: 90 to 100 percent of the map unit (RV=95 percent)
- Clarksville and similar soils: 0 to 5 percent of the map unit (RV=3 percent)
- Razort and similar soils: 0 to 5 percent of the map unit (RV=2 percent)

#### Setting

Landform(s): stream terraces on river valleys	Slope gradient: 3 to 8 percent
Elevation: 1001 to 1401 feet	Air temperature: 45 to 70 °F
Precipitation: 35 to 52 inches	Frost-free period: 160 to 255 days

#### Characteristics of Britwater and similar soils

Average total avail. water in top five feet (in.): 9.4	Soil loss tolerance (T factor): 5
Available water capacity class: High	Wind erodibility group (WEG): 7
Parent material: loamy alluvium derived from cherty limestone	Wind erodibility index (WEI): 38
Restrictive feature(s): none	Land capability class, irrigated:
Depth to Water table: none within the soil profile	Land capability class, nonirrigated: 3e
Drainage class: well drained	Hydric soil: no
Flooding hazard: none	Hydrologic group: B
Ponding hazard: none	Runoff class: medium
	Potential frost action: moderate

#### Saturated hydraulic conductivity class: Moderately High

Representative soil profile:		Available water				
Horizon Depth (inches)	Texture	capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
Ap 0 to 6	Gravelly silt loam	0.6 to 0.9	4.5 to 6.5	0.0	0	
Bt1 6 to 22	Gravelly silty clay loam	1.9 to 2.9	4.5 to 6.0	0.0	0	
Bt2 22 to 60	Very gravelly silty clay loam	3.0 to 6.0	4.5 to 6.0	0.0	0	
Bt3 60 to 80	Very gravelly silty clay	1.4 to 3.2	4.5 to 6.0	0.0	0	

Ecological class(es): NRCS Forestland Site - Loamy Terrace Forest



Benton County, Arkansas

[BtD - Britwater gravelly silt loam, 8 to 12 percent slopes]

### BtD--Britwater gravelly silt loam, 8 to 12 percent slopes

#### Composition

- 。 Britwater and similar soils: 90 to 100 percent of the map unit (RV=95 percent)
- Noark and similar soils: 0 to 5 percent of the map unit (RV=3 percent)
- Elsah and similar soils: 0 to 5 percent of the map unit (RV=2 percent)

#### Setting

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Landform(s): stream terraces on river valleys	Slope gradient: 8 to 12 percent
Elevation: 1001 to 1401 feet	Air temperature: 47 to 70 °F
Precipitation: 35 to 51 inches	Frost-free period: 183 to 255 days

#### Characteristics of Britwater and similar soils

Average total avail. water in top five feet (in.): 9.4	Soil loss tolerance (T factor): 5
Available water capacity class: High	Wind erodibility group (WEG): 7
Parent material: loamy alluvium derived from cherty limestone	Wind erodibility index (WEI): 38
Restrictive feature(s): none	Land capability class, irrigated:
Depth to Water table: none within the soil profile	Land capability class, nonirrigated: 4e
Drainage class: well drained	Hydric soil: no
Flooding hazard: none	Hydrologic group: B
Ponding hazard: none	Runoff class: medium
	Potential frost action: moderate

### Saturated hydraulic conductivity class: Moderately High

		1	1		
Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR
Ap 0 to 6	Gravelly silt loam	0.6 to 0.9	4.5 to 6.5	0.0	0
Bt1 6 to 22	Gravelly silty clay loam	1.9 to 2.9	4.5 to 6.0	0.0	0
Bt2 22 to 60	Very gravelly silty clay loam	3.0 to 6.0	4.5 to 6.0	0.0	0
Bt3 60 to 80	Very gravelly silty clav	1.4 to 3.2	4.5 to 6.0	0.0	0

Ecological class(es): NRCS Forestland Site - Loamy Terrace Forest



Benton County, Arkansas

[CeC - Cane loam, 3 to 8 percent slopes]

### CeC--Cane loam, 3 to 8 percent slopes

### Composition

• Cane and similar soils: 100 percent of the unit

#### Setting

Landform(s): hills, stream terraces Elevation: 400 to 600 feet Precipitation: 42 to 51 inches

Slope gradient: 3 to 8 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

#### Characteristics of Cane and similar soils

Average total avail. water in top five feet (in.): 7.6	Soil loss tolerance (T factor): 4
Available water capacity class: Moderate	Wind erodibility group (WEG): 5
Parent material: loamy colluvium derived from sandstone and	Wind erodibility index (WEI): 56
shale	Land capability class, irrigated:
Restrictive feature(s): fragipan at 18 to 26 inches	Land capability class, nonirrigated: 3e
Depth to Water table: 24 inches	<i>Hydric soil:</i> no
Drainage class: moderately well drained	Hydrologic group: C
Flooding hazard: none	Runoff class: high
Ponding hazard: none	Potential frost action: none

Saturated hydraulic conductivity class: Moderately High

Representative soil profile:
------------------------------

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	pН	Salinity (mmhos/cm)	SAR	
Ap 0 to 5	Loam	0.5 to 0.9	4.5 to 6.0	0.0	0	
Bt 5 to 22	Loam	2.4 to 3.2	4.5 to 6.0	0.0	0	
Btx 22 to 79	Clay loam	2.8 to 4.5	4.5 to 6.0	0.0	0	



Benton County, Arkansas

[CnB - Captina silt loam, 1 to 3 percent slopes]

### CnB--Captina silt loam, 1 to 3 percent slopes

#### Composition

- Captina and similar soils: 85 to 96 percent of the map unit (RV=90 percent)
- Needleye and similar soils: 2 to 5 percent of the map unit (RV=5 percent) 0
- Nixa and similar soils: 2 to 10 percent of the map unit (RV=5 percent)

#### Setting

Landform(s): hills, interfluves	Slope gradient: 1 to 3 percent
Elevation: 801 to 1588 feet	Air temperature: 54 to 59 °F
Precipitation: 39 to 49 inches	Frost-free period: 172 to 232 days

#### Characteristics of Captina and similar soils

Average total avail. water in top five feet (in.): 7.2 Available water capacity class: Moderate Parent material: loess over pedisediment over residuum weathered from cherty limestone	Soil loss tolerance (T factor): 3 Wind erodibility group (WEG): 5 Wind erodibility index (WEI): 56 Land capability class, irrigated:
Restrictive feature(s): fragipan at 20 to 36 inches	Land capability class, nonirrigated: 3
Depth to Water table: 21 inches	Hydric soil: no
Drainage class: moderately well drained	Hydrologic group: C/D
Flooding hazard: none	Runoff class: very low
Ponding hazard: none	Potential frost action: high

Saturated hydraulic conductivity class: Moderately High

#### Representative soil profile:

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
Ap 0 to 5	Silt loam	1.1 to 1.2	4.5 to 6.5	0.1 to 2.0	0	
Bt1 5 to 25	Silty clay loam	3.4 to 4.4	4.5 to 5.5	0.1 to 2.0	0	
2Btx 25 to 50	Very gravelly silt loam	0.5 to 1.7	3.5 to 5.5	0.1 to 2.0	0	
3Bt2 50 to 79	Gravelly clay	1.1 to 3.7	3.5 to 5.5	0.1 to 2.0	0	

Ecological class(es): NRCS Forestland Site - Fragipan Upland Woodland

Missouri Vegetative Classes - Mixed/Transitional



Benton County, Arkansas

[Co - Carytown silt loam]

### **Co--Carytown silt loam**

### Composition

- o Carytown and similar soils: 90 percent of the unit
- · Aqualfs and similar soils: 5 percent of the unit
- Cherokee: 5 percent of the unit

#### Setting

Landform(s): hills, stream terraces Elevation: 699 to 1099 feet Precipitation: 42 to 51 inches

Slope gradient: 0 to 1 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

### Characteristics of Carytown and similar soils

Average total avail. water in top five feet (in.): 10.2 Available water capacity class: High Parent material: sodium rich clayey residuum weathered from shale	Soil loss tolerance (T factor): 2 Wind erodibility group (WEG): 5 Wind erodibility index (WEI): 56 Land capability class, irrigated:		
Restrictive feature(s): natric at 16 to 20 inches Depth to Water table: 6 inches	Land capability class, nonirrigated: Hydric soil: yes	3w	
Drainage class: poorly drained Flooding hazard: none Ponding hazard: none	Hydrologic group: D Runoff class: low Potential frost action: none		

Saturated hydraulic conductivity class: Moderately Low

### Representative soil profile:

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR
A 0 to 9	Silt loam	1.7 to 2.2	5.1 to 7.3	0.0	0
EBg 9 to 18	Silt loam	1.7 to 2.2	5.1 to 7.3	0.0	0
Btg 18 to 80	Clay	4.9 to 6.8	5.6 to 8.4	0.0	13 to 15



Benton County, Arkansas

[Cs - Cherokee silt loam]

### **Cs--Cherokee silt loam**

### Composition

- Cherokee and similar soils: 85 percent of the unit
- Aqualfs and similar soils: 5 percent of the unit
- Captina: 5 percent of the unit
- Carytown: 5 percent of the unit

#### Setting

Landform(s): depressions, hills, uplands Elevation: Precipitation: 42 to 51 inches Slope gradient: 0 to 1 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

#### Characteristics of Cherokee and similar soils

Average total avail. water in top five feet (in.): 12.6	Soil loss tolerance (T factor): 3
Available water capacity class: High	Wind erodibility group (WEG): 5
Parent material: silty and clayey pedisediment	Wind erodibility index (WEI): 56
Restrictive feature(s): abrupt textural change at 11 to 17 inches	Land capability class, irrigated:
Depth to Water table: 12 inches	Land capability class, nonirrigated:
Drainage class: somewhat poorly drained	Hydric soil: no
Flooding hazard: none	Hydrologic group: D
Ponding hazard: none	Runoff class: low
	Potential frost action: none

#### Saturated hydraulic conductivity class: Moderately Low

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 14	Silt loam	3.1 to 3.4	5.1 to 7.3	0.0	0	
Btg1 14 to 54	Clay	4.0 to 6.0	5.1 to 6.0	0.0	0	
Btg2 54 to 66	Silty clay loam	1.1 to 2.2	5.1 to 7.3	0.0	0	
BC 66 to 84	Clay	1.6 to 3.2	5.1 to 7.3	0.0	0	

Ecological class(es):



Зw

Benton County, Arkansas

[CvF - Clarksville extremely gravelly silt loam, 12 to 50 percent slopes]

### CvF--Clarksville extremely gravelly silt loam, 12 to 50 percent slopes

Composition

。 Clarksville and similar soils: 100 percent of the unit

	Setting
Landform(s): hills, hills	Slope gradient: 12 to 50 percent
Elevation: 699 to 1299 feet	Air temperature: 47 to 70 °F
Precipitation: 42 to 51 inches	Frost-free period: 183 to 239 days

#### Characteristics of Clarksville and similar soils

Average total avail. water in top five feet (in.): 6.2	Soil loss tolerance (T factor): 5
Available water capacity class: Moderate	Wind erodibility group (WEG): 8
Parent material: clayey residuum weathered from cherty	Wind erodibility index (WEI): 0
limestone	Land capability class, irrigated:
Restrictive feature(s): none	Land capability class, nonirrigated: 7s
Depth to Water table: none within the soil profile	Hydric soil: no
Drainage class: excessively drained	Hydrologic group: A
Flooding hazard: none	Runoff class: medium
Ponding hazard: none	Potential frost action: moderate
Saturated hydraulic conductivity class: High	

Representative soil	l profile:
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Representative soil profile	):	Available water	Available water apacity (inches) pH Salinity (mmhos/cm) SAF	Salinity (mmhos/cm)	CAD	
Horizon Depth (inches)	Texture	capacity (inches)			SAK	SAR
A 0 to 24	Extremely gravelly silt loam	1.7 to 2.9	4.5 to 6.0	0.0	0	
Bt 24 to 72	Extremely gravelly silt loam	2.9 to 4.8	4.5 to 5.5	0.0	0	

Ecological class(es): NRCS Forestland Site - Low-Base Chert Protected Backslope Woodland NRCS Forestland Site - Low-Base Chert Exposed Backslope Woodland



Benton County, Arkansas

[Eg - Elsah soils, occasionally and frequently flooded]

### Eg--Elsah soils, occasionally and frequently flooded

### Composition

- Elsah, occasional and similar soils: 70 percent of the unit
- 。 Elsah, frequent and similar soils: 25 percent of the unit
- Aquents and similar soils: 5 percent of the unit

#### Setting

Landform(s): flood plains, hills	Slope gradient: 0 to 3 percent
Elevation: 341 to 1499 feet	Air temperature: 47 to 70 °F
Precipitation: 42 to 51 inches	Frost-free period: 183 to 239 days

### Characteristics of Elsah, occasional and similar soils

Average total avail. water in top five feet (in.): 5.4	Soil loss tolerance (T factor): 5
Available water capacity class: Low	Wind erodibility group (WEG): 8
Parent material: gravelly alluvium	Wind erodibility index (WEI): 0
Restrictive feature(s): none	Land capability class, irrigated:
Depth to Water table: none within the soil profile	Land capability class, nonirrigated: 3s
Drainage class: somewhat excessively drained	Hydric soil: no
Flooding hazard: none	Hydrologic group: B
Ponding hazard: none	Runoff class: low
	Potential frost action: moderate

#### Saturated hydraulic conductivity class: Moderately High

Representative soil profile Horizon Depth (inches)	9: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 7	Extremely gravelly silt loam	0.9 to 1.3	5.6 to 7.3	0.0	0	
C 7 to 60	Extremely gravelly silt loam	2.6 to 5.3	6.6 to 7.3	0.0	0	

Ecological class(es): NRCS Forestland Site - Sandy/Gravelly Floodplain Forest



Benton County, Arkansas

[Eg - Elsah soils, occasionally and frequently flooded]

### Characteristics of Elsah, frequent and similar soils

Average total avail. water in top five feet (in.): 5.4
Available water capacity class: Low
Parent material: gravelly alluvium
Restrictive feature(s): none
Depth to Water table: none within the soil profile
Drainage class: somewhat excessively drained
Flooding hazard: none
Ponding hazard: none

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 8 Wind erodibility index (WEI): 0 Land capability class, irrigated: Land capability class, nonirrigated: 5w Hydric soil: no Hydrologic group: B Runoff class: low Potential frost action: moderate

Saturated hydraulic conductivity class: Moderately High

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR
A 0 to 7	Extremely gravelly silt loam	0.9 to 1.3	5.6 to 7.3	0.0	0
C 7 to 60	Extremely gravelly silt loam	2.6 to 5.3	6.6 to 7.3	0.0	0

Ecological class(es): NRCS Forestland Site - Sandy/Gravelly Floodplain Forest



Benton County, Arkansas

[EnD - Enders very gravelly loam, 3 to 12 percent slopes]

### EnD--Enders very gravelly loam, 3 to 12 percent slopes

Composition

• Enders and similar soils: 100 percent of the unit

Landform(s): hills, hills Elevation: 499 to 2500 feet Precipitation: 42 to 51 inches

### Setting

Slope gradient: 3 to 12 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

### Characteristics of Enders and similar soils

Average total avail. water in top five feet (in.): 6.6	Soil loss tolerance (T factor): 4	
Available water capacity class: Moderate	Wind erodibility group (WEG): 7	
Parent material: clayey residuum weathered from acid shale	Wind erodibility index (WEI): 38	
Restrictive feature(s): paralithic bedrock at 40 to 60 inches	Land capability class, irrigated:	
Depth to Water table: none within the soil profile	Land capability class, nonirrigated:	4
Drainage class: well drained	Hydric soil: no	
Flooding hazard: none	Hydrologic group: D	
Ponding hazard: none	Runoff class: very high	

Saturated hydraulic conductivity class: Moderately Low

le Potential frost action:

Representative soil profile	):	Available water			CAD	
Horizon Depth (inches)	Texture	capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 4	Very gravelly loam	0.3 to 0.4	4.5 to 5.5	0.0	0	
E 4 to 7	Gravelly loam	0.2 to 0.6	4.5 to 5.5	0.0	0	
BE 7 to 11	Silty clay loam	0.5 to 0.7	4.5 to 5.5	0.0	0	
Bt 11 to 33	Clay	2.6 to 4.0	4.5 to 5.5	0.0	0	
C 33 to 48	Extremely parachannery clay	1.2 to 2.5	4.5 to 5.5	0.0	0	
Cr 48 to 60	Weathered bedrock			0.0	0	



Benton County, Arkansas

[EoD - Enders very stony loam, 3 to 12 percent slopes]

### EoD--Enders very stony loam, 3 to 12 percent slopes

#### Composition

- Enders and similar soils: 80 percent of the unit
- Mountainburg and similar soils: 10 percent of the unit
- Nella and similar soils: 5 percent of the unit
- Rock outcrop: 5 percent of the unit

#### Setting

Landform(s): hillslopes on hills Elevation: 499 to 2500 feet Precipitation: 39 to 54 inches Slope gradient: 3 to 12 percent Air temperature: 48 to 71 °F Frost-free period: 205 to 255 days

### Characteristics of Enders and similar soils

Average total avail. water in top five feet (in.): 7.3
Available water capacity class: Moderate
Parent material: clayey residuum weathered from acid shale
Restrictive feature(s): paralithic bedrock at 44 to 59 inches
Depth to Water table: none within the soil profile
Drainage class: well drained
Flooding hazard: none
Ponding hazard: none

Soil loss tolerance (T factor): 4 Wind erodibility group (WEG): 7 Wind erodibility index (WEI): 38 Land capability class, irrigated: Land capability class, nonirrigated: 5s Hydric soil: no Hydrologic group: D Runoff class: very high Potential frost action: none

### Saturated hydraulic conductivity class: Moderately Low

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 3	Very stony loam	0.2 to 0.3	4.5 to 5.5	0.0	0	
E 3 to 8	Gravelly silt loam	0.3 to 0.5	3.6 to 5.5	0.0	0	
Bt1 8 to 40	Clay	3.9 to 5.8	3.6 to 5.5	0.0	0	
Bt2 40 to 54	Clay	1.1 to 2.3	3.6 to 5.5	0.0	0	
Cr 54 to 58	Bedrock			0.0	0	



Benton County, Arkansas

[EoF - Enders very stony loam, 12 to 30 percent slopes]

### EoF--Enders very stony loam, 12 to 30 percent slopes

#### Composition

- Enders and similar soils: 80 percent of the unit
- Mountainburg and similar soils: 10 percent of the unit
- Nella and similar soils: 5 percent of the unit
- Rock outcrop: 5 percent of the unit

#### Setting

Landform(s): hillslopes on hills Elevation: 499 to 2500 feet Precipitation: 39 to 54 inches Slope gradient: 12 to 30 percent Air temperature: 48 to 71 °F Frost-free period: 205 to 255 days

#### Characteristics of Enders and similar soils

Soil loss tolerance (T factor): 4 Wind erodibility group (WEG): 7 Wind erodibility index (WEI): 38 Land capability class, irrigated: Land capability class, nonirrigated: 7s Hydric soil: no Hydrologic group: D Runoff class: very high Potential frost action: none

#### Saturated hydraulic conductivity class: Moderately Low

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 3	Very stony loam	0.2 to 0.3	4.5 to 5.5	0.0	0	
E 3 to 8	Gravelly silt loam	0.3 to 0.5	3.6 to 5.5	0.0	0	
Bt1 8 to 40	Clay	3.9 to 5.8	3.6 to 5.5	0.0	0	
Bt2 40 to 54	Clay	1.1 to 2.3	3.6 to 5.5	0.0	0	
Cr 54 to 58	Bedrock			0.0	0	



Benton County, Arkansas

[Ft - Fatima silt loam, occasionally flooded]

### Ft--Fatima silt loam, occasionally flooded

### Composition

。 Fatima and similar soils: 95 percent of the unit

o Aquents and similar soils: 5 percent of the unit

### Setting

Landform(s): flood plains, hills Elevation: 600 to 899 feet Precipitation: 42 to 51 inches

Slope gradient: 0 to 1 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

### Characteristics of Fatima and similar soils

Average total avail. water in top five feet (in.): 15.4	Soil loss tolerance (T factor): 5	
Available water capacity class: High	Wind erodibility group (WEG): 6	
Parent material: alluvium	Wind erodibility index (WEI): 48	
Restrictive feature(s): none	Land capability class, irrigated:	
Depth to Water table: 48 inches	Land capability class, nonirrigated: 2	N
Drainage class: moderately well drained	Hydric soil: no	
Flooding hazard: none	Hydrologic group: B	
Ponding hazard: none	Runoff class: negligible	
	Potential frost action: high	

### Saturated hydraulic conductivity class: Moderately High

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 12	Silt loam	2.6 to 2.8	6.1 to 7.3	0.0	0	
Btg 12 to 48	Silt loam	7.2 to 8.0	5.6 to 7.3	0.0	0	
Bt 48 to 72	Silt loam	4.8 to 5.3	6.1 to 7.3	0.0	0	



Benton County, Arkansas

[He - Healing silt loam, rarely flooded]

### He--Healing silt loam, rarely flooded

### Composition

· Healing and similar soils: 95 percent of the unit

o Aquents and similar soils: 5 percent of the unit

#### Setting

Landform(s): hills, stream terraces Elevation: 499 to 1001 feet Precipitation: 42 to 51 inches

Slope gradient: 0 to 2 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

### Characteristics of Healing and similar soils

Average total avail. water in top five feet (in.): 13.5	Soil loss tolerance (T factor): 5
Available water capacity class: High	Wind erodibility group (WEG): 5
Parent material: alluvium	Wind erodibility index (WEI): 56
Restrictive feature(s): none	Land capability class, irrigated:
Depth to Water table: none within the soil profile	Land capability class, nonirrigated: 2e
Drainage class: well drained	Hydric soil: no
Flooding hazard: none	Hydrologic group: B
Ponding hazard: none	Runoff class: low
	Potential frost action: none

### Saturated hydraulic conductivity class: Moderately High

	Representative soil profile	
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Pepresentative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 15	Silt loam	2.4 to 3.6	5.6 to 6.5	0.0	0	
Bt1 15 to 50	Silt loam	5.6 to 8.4	5.6 to 6.5	0.0	0	
Bt2 50 to 72	Gravelly silt loam	2.9 to 4.2	5.6 to 6.5	0.0	0	

Ecological class(es): NRCS Forestland Site - Loamy Terrace Forest



Benton County, Arkansas

[Hf - Healing silt loam, 0 to 3 percent slopes, occasionally flooded]

### Hf--Healing silt loam, 0 to 3 percent slopes, occasionally flooded

#### Composition

• Healing and similar soils: 90 to 100 percent of the map unit (RV=95 percent)

Unnamed, hydric and similar soils: 0 to 10 percent of the map unit (RV=5 percent)

#### Setting

Landform(s): flood plains on river valleys Elevation: 499 to 1001 feet Precipitation: 40 to 51 inches

Slope gradient: 0 to 3 percent Air temperature: 46 to 71 °F Frost-free period: 179 to 232 days

#### Characteristics of Healing and similar soils

Average total avail. water in top five feet (in.): 13.6	Soil loss tolerance (T factor): 5
Available water capacity class: High	Wind erodibility group (WEG): 5
Parent material: silty alluvium	Wind erodibility index (WEI): 56
Restrictive feature(s): none	Land capability class, irrigated:
Depth to Water table: none within the soil profile	Land capability class, nonirrigated: 2v
Drainage class: well drained	Hydric soil: no
Flooding hazard: none	Hydrologic group: B
Ponding hazard: none	Runoff class: low
	Potential frost action: high

### Saturated hydraulic conductivity class: Moderately High

Representative soil	profile:
1 100100011101100 0011	promo.

Pepresentative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
Ap 0 to 14	Silt loam	2.3 to 3.4	5.6 to 6.5	0.0	0	
Bt1 14 to 50	Silt loam	5.7 to 8.6	5.6 to 6.5	0.0	0	
Bt2 50 to 80	Gravelly silt loam	2.4 to 5.4	5.6 to 6.5	0.0	0	

Ecological class(es): NRCS Forestland Site - Loamy Terrace Forest



Benton County, Arkansas

[JaB - Jay silt loam, 1 to 3 percent slopes]

### JaB--Jay silt loam, 1 to 3 percent slopes

### Composition

- $_{\circ}~$  Jay and similar soils: 80 to 100 percent of the map unit (RV=90 percent)
- Taloka and similar soils: 0 to 10 percent of the map unit (RV=5 percent)
- Captina and similar soils: 0 to 5 percent of the map unit (RV=2 percent)
- Pickwick and similar soils: 0 to 5 percent of the map unit (RV=2 percent)
- Mayes and similar soils: 0 to 2 percent of the map unit (RV=1 percent)

#### Setting

Landform(s): hillslopes on hills	Slope gradient: 1 to 3 percent
Elevation: 554 to 1404 feet	Air temperature: 55 to 59 °F
Precipitation: 41 to 53 inches	Frost-free period: 180 to 210 days

#### Characteristics of Jay and similar soils

Average total avail. water in top five feet (in.): 12.4
Available water capacity class: High
Parent material: fine-silty loess over silty pedisediment
Restrictive feature(s): fragipan at 18 to 30 inches
Depth to Water table: 29 inches
Drainage class: moderately well drained
Flooding hazard: none
Ponding hazard: none

### Soil loss tolerance (T factor): 4 Wind erodibility group (WEG): 5 Wind erodibility index (WEI): 56 Land capability class, irrigated: Land capability class, nonirrigated: 2e Hydric soil: no Hydrologic group: C Runoff class: low Potential frost action: none

### Saturated hydraulic conductivity class: Moderately Low

Representative soil profile	<i>):</i>	Available water			SAR
Horizon Depth (inches)	Texture	capacity (inches)	рн	Salinity (mmnos/cm)	0/11
Ap 0 to 9	Silt loam	1.7 to 2.2	5.1 to 6.5	0.1 to 0.4	0
A 9 to 16	Silt loam	1.3 to 1.7	5.1 to 6.5	0.1 to 0.4	0
Bt 16 to 25	Silt loam	1.6 to 1.9	4.5 to 6.0	0.1 to 0.4	0
2Btx1 25 to 29	Silt loam	0.5 to 0.7	4.5 to 6.0	0.1 to 0.4	0
2Btx2 29 to 46	Silt loam	2.0 to 3.0	4.5 to 6.0	0.1 to 0.4	0
2Btx3 46 to 80	Silty clay loam	3.4 to 5.4	5.1 to 6.5	0.1 to 0.4	0



Benton County, Arkansas

[Jo - Johnsburg silt loam, 0 to 2 percent slopes]

### Jo--Johnsburg silt loam, 0 to 2 percent slopes

#### Composition

- Johnsburg and similar soils: 80 to 100 percent of the map unit (RV=81 percent)
- $_{\circ}~$  Aquults and similar soils: 0 to 5 percent of the map unit (RV=5 percent)
- Cherokee and similar soils: 0 to 5 percent of the map unit (RV=5 percent)
- Leaf and similar soils: 0 to 5 percent of the map unit (RV=5 percent)
- $_{\circ}$  Captina and similar soils: 0 to 3 percent of the map unit (RV=3 percent)
- Mayes and similar soils: 0 to 2 percent of the map unit (RV=1 percent)

#### Setting

Landform(s): hillslopes on hills	Slope gradient: 0 to 2 percent
Elevation: 919 to 2287 feet	Air temperature: 55 to 59 °F
Precipitation: 43 to 53 inches	Frost-free period: 180 to 210 days

#### Characteristics of Johnsburg and similar soils

Average total avail. water in top five feet (in.): 9.8 Available water capacity class: High Parent material: fine-silty loess over silty and clayey pedisediment over silty and clayey residuum

weathered from sedimentary rock

Restrictive feature(s): fragipan at 18 to 28 inches Depth to Water table: 14 inches Drainage class: somewhat poorly drained

Flooding hazard: none

Ponding hazard: none

Saturated hydraulic conductivity class: Moderately High

Soil loss tolerance (T factor): 4 Wind erodibility group (WEG): 5 Wind erodibility index (WEI): 56 Land capability class, irrigated: Land capability class, nonirrigated: 2w Hydric soil: no Hydrologic group: D Runoff class: medium Potential frost action: high

Representative soil profile	<i>Э:</i>	Available water			CAD
Horizon Depth (inches)	Texture	capacity (inches)	рН	Salinity (mmhos/cm)	SAR
Ap 0 to 8	Silt loam	1.5 to 1.7	4.5 to 5.5	0.1 to 0.4	0
Bt 8 to 22	Silty clay loam	2.7 to 3.0	4.5 to 5.5	0.1 to 0.4	0
2Btgx1 22 to 31	Silty clay loam	0.6 to 1.4	4.2 to 5.5	0.1 to 0.4	0
2Btgx2 31 to 43	Silty clay loam	0.6 to 1.9	4.2 to 5.5	0.1 to 0.4	0
2Btgx3 43 to 56	Silty clay loam	0.6 to 1.9	4.2 to 5.5	0.1 to 0.4	0
3Bt 56 to 80	Gravelly silty clay loam	2.4 to 2.9	4.2 to 5.5	0.2 to 0.6	0

Ecological class(es): NRCS Forestland Site - Fragipan Upland Woodland



Benton County, Arkansas

[Lm - Rock outcrop, limestone]

### Lm--Rock outcrop, limestone

Composition

• Rock outcrop: 100 percent of the unit

Landform(s): hills Elevation: Precipitation: 42 to 51 inches Setting

Slope gradient: 12 to 40 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

### Characteristics of Rock outcrop

Average total avail. water in top five feet (in.): Available water capacity class: NA Parent material: Restrictive feature(s): Depth to Water table: Drainage class: Flooding hazard: Ponding hazard:

Saturated hydraulic conductivity class: NA

Ecological class(es):

Soil loss tolerance (T factor): Wind erodibility group (WEG): Wind erodibility index (WEI): Land capability class, irrigated: Land capability class, nonirrigated: Hydric soil: no Hydrologic group: Runoff class: Potential frost action:



Benton County, Arkansas

[LrC - Linker fine sandy loam, 3 to 8 percent slopes]

### LrC--Linker fine sandy loam, 3 to 8 percent slopes

Composition

。 Linker and similar soils: 100 percent of the unit

### Setting

Landform(s): hills, hillsides or mountainsides Elevation: 499 to 2799 feet Precipitation: 42 to 51 inches

Slope gradient: 3 to 8 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

### Characteristics of Linker and similar soils

Average total avail. water in top five feet (in.): 3.5	Soil loss tolerance (T factor): 2
Available water capacity class: Low	Wind erodibility group (WEG): 3
Parent material: loamy residuum weathered from sandstone	Wind erodibility index (WEI): 86
and siltstone	Land capability class, irrigated:
Restrictive feature(s): lithic bedrock at 20 to 40 inches	Land capability class, nonirrigated: 3e
Depth to Water table: none within the soil profile	Hydric soil: no
Drainage class: well drained	Hydrologic group: C
Flooding hazard: none	Runoff class: high
Ponding hazard: none	Potential frost action: none

Saturated hydraulic conductivity class: Moderately High

#### R

Pepresentative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	pН	Salinity (mmhos/cm)	SAR	
Ap 0 to 6	Fine sandy loam	0.6 to 0.7	4.5 to 6.0	0.0	0	
Bt 6 to 19	Loam	1.3 to 2.3	4.5 to 5.5	0.0	0	
BCt 19 to 26	Very gravelly sandy clay loam	0.7 to 1.3	4.5 to 5.5	0.0	0	
R 26 to 30	Unweathered bedrock			0.0	0	



Benton County, Arkansas

[Me - Mayes silty clay loam]

### Me--Mayes silty clay loam

### Composition

• Mayes and similar soils: 95 percent of the unit

· Aquents and similar soils: 5 percent of the unit

#### Setting

Landform(s): hills, stream terraces Elevation: Precipitation: 42 to 51 inches Slope gradient: 0 to 1 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

Soil loss tolerance (T factor): 5

### Characteristics of Mayes and similar soils

Average total avail. water in top five feet (in.): 11.2
Available water capacity class: High
Parent material: clayey pedisediment
Restrictive feature(s): none
Depth to Water table: 18 inches
Drainage class: somewhat poorly drained
Flooding hazard: none
Ponding hazard: none

### Saturated hydraulic conductivity class: Moderately Low

Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48 Land capability class, irrigated: Land capability class, nonirrigated: 2w Hydric soil: no Hydrologic group: D Runoff class: Iow Potential frost action: none

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
Ap 0 to 11	Silty clay loam	1.7 to 2.4	5.1 to 7.3	0.0	0	
Bt 11 to 19	Clay	0.8 to 1.6	5.6 to 7.8	0.0	0	
Btg 19 to 72	Clay	5.3 to 10.6	5.6 to 7.8	0.0	0	



Benton County, Arkansas

[MPI - Pits, mine]

### MPI--Pits, mine

• Pits: 100 percent of the unit

Landform(s): hills Elevation: Precipitation: 42 to 51 inches Composition

### Setting

Slope gradient: 3 to 60 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

### **Characteristics of Pits**

Average total avail. water in top five feet (in.): Available water capacity class: NA Parent material: Restrictive feature(s): Depth to Water table: Drainage class: Flooding hazard: Ponding hazard:

Saturated hydraulic conductivity class: NA

Ecological class(es):

Soil loss tolerance (T factor): Wind erodibility group (WEG): Wind erodibility index (WEI): Land capability class, irrigated: Land capability class, nonirrigated: 7e Hydric soil: Hydrologic group: Runoff class: Potential frost action:



Benton County, Arkansas

[MuD - Mountainburg very stony sandy loam, 3 to 12 percent slopes]

### MuD--Mountainburg very stony sandy loam, 3 to 12 percent slopes

Composition

• Mountainburg and similar soils: 100 percent of the unit

	Setting
<i>Landform(s):</i> hills, hills	Slope gradient: 3 to 12 percent
Elevation: 499 to 2799 feet	Air temperature: 47 to 70 °F
Precipitation: 42 to 51 inches	Frost-free period: 183 to 239 days

#### Characteristics of Mountainburg and similar soils

Average total avail. water in top five feet (in.): 1.5	Soil loss tolerance (T factor): 1	
Available water capacity class: Very low	Wind erodibility group (WEG): 6	
Parent material: stony loamy residuum weathered from	Wind erodibility index (WEI): 48	
sandstone	Land capability class, irrigated:	
Restrictive feature(s): lithic bedrock at 12 to 20 inches	Land capability class, nonirrigated: 6	s
Depth to Water table: none within the soil profile	Hydric soil: no	
Drainage class: well drained	Hydrologic group: D	
Flooding hazard: none	Runoff class: high	
Ponding hazard: none	Potential frost action:	

i.

Saturated hydraulic conductivity class: Moderately High

### Representative soil profile:

Horizon Depth (inches)	e <i>:</i>  Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 3	Very stony sandy loam	0.2 to 0.3	4.5 to 6.0	0.0	0	
E 3 to 6	Very cobbly sandy loam	0.1 to 0.3	4.5 to 6.0	0.0	0	
Bt 6 to 19	Very cobbly sandy loam	0.6 to 1.3	4.5 to 5.5	0.0	0	
R 19 to 20	Unweathered bedrock			0.0	0	

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Ecological class(es): NRCS Rangeland Site - Sandstone Ledge



Benton County, Arkansas

[MuE - Mountainburg very stony sandy loam, 12 to 40 percent slopes]

### MuE--Mountainburg very stony sandy loam, 12 to 40 percent slopes

Composition

· Mountainburg and similar soils: 100 percent of the unit

### Setting

Landform(s): hills, hillsides or mountainsides Elevation: 499 to 2799 feet Precipitation: 42 to 51 inches

Slope gradient: 12 to 40 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

#### Characteristics of Mountainburg and similar soils

Average total avail. water in top five feet (in.): 1.5	Soil loss tolerance (T factor): 1
Available water capacity class: Very low	Wind erodibility group (WEG): 6
Parent material: stony loamy residuum weathered from	Wind erodibility index (WEI): 48
sandstone	Land capability class, irrigated:
Restrictive feature(s): lithic bedrock at 12 to 20 inches	Land capability class, nonirrigated: 7s
Depth to Water table: none within the soil profile	Hydric soil: no
Drainage class: well drained	Hydrologic group: D
Flooding hazard: none	Runoff class: very high
Ponding hazard: none	Potential frost action:

Saturated hydraulic conductivity class: Moderately High

Re

presentative soil profile	e:	Available water			045	
Horizon Depth (inches)	Texture	capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 3	Very stony sandy loam	0.2 to 0.3	4.5 to 6.0	0.0	0	
E 3 to 6	Very cobbly sandy loam	0.1 to 0.3	4.5 to 6.0	0.0	0	
Bt 6 to 19	Very cobbly sandy Ioam	0.6 to 1.3	4.5 to 5.5	0.0	0	
R 19 to 20	Unweathered bedrock			0.0	0	

Ecological class(es): NRCS Rangeland Site - Sandstone Ridge



Benton County, Arkansas

[NeB - Newtonia silt loam, 1 to 3 percent slopes]

### NeB--Newtonia silt loam, 1 to 3 percent slopes

#### Composition

- Newtonia and similar soils: 85 to 100 percent of the map unit (RV=92 percent)
- Dennis and similar soils: 0 to 5 percent of the map unit (RV=3 percent)
- Peridge and similar soils: 0 to 5 percent of the map unit (RV=3 percent)
- Okemah and similar soils: 0 to 5 percent of the map unit (RV=2 percent)

#### Setting

Landform(s): hillslopes on hills, hillslopes, hillslopes Elevation: 499 to 1201 feet Precipitation: 41 to 51 inches Slope gradient: 1 to 3 percent Air temperature: 50 to 61 °F Frost-free period: 183 to 239 days

#### Characteristics of Newtonia and similar soils

Average total avail. water in top five feet (in.): 13.8	Soil loss tolerance (T factor): 5
Available water capacity class: High	Wind erodibility group (WEG): 5
Parent material: loess over residuum weathered from cherty	Wind erodibility index (WEI): 56
limestone	Land capability class, irrigated:
Restrictive feature(s): none	Land capability class, nonirrigated: 2e
Depth to Water table: none within the soil profile	Hydric soil: no
Drainage class: well drained	Hydrologic group: B
Flooding hazard: none	Runoff class: low
Ponding hazard: none	Potential frost action: none

Saturated hydraulic conductivity class: Moderately Low

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
Ap 0 to 12	Silt loam	1.8 to 2.8	5.6 to 6.5	0.0 to 2.0	0	
BA 12 to 16	Silt loam	0.7 to 1.0	5.1 to 6.5	0.0 to 2.0	0	
Bt1 16 to 26	Silty clay loam	1.8 to 2.2	5.1 to 6.0	0.0 to 2.0	0	
Bt2 26 to 54	Silty clay loam	3.4 to 5.6	5.1 to 6.0	0.0	0	
2Bt3 54 to 80	Silty clay	3.1 to 5.2	5.1 to 7.3	0.0 to 2.0	0	

Ecological class(es): Missouri Vegetative Classes - Grass/Prairie



Benton County, Arkansas

[NfC - Nixa very gravelly silt loam, 3 to 8 percent slopes]

### NfC--Nixa very gravelly silt loam, 3 to 8 percent slopes

#### Composition

• Nixa and similar soils: 85 to 95 percent of the map unit (RV=90 percent)

Bendavis and similar soils: 5 to 15 percent of the map unit (RV=10 percent)

#### Setting

Landform(s): hills, hillslopes Elevation: 919 to 1532 feet Precipitation: 39 to 49 inches Slope gradient: 3 to 8 percent Air temperature: 54 to 59 °F Frost-free period: 172 to 232 days

#### Characteristics of Nixa and similar soils

Average total avail. water in top five feet (in.): 4.6
Available water capacity class: Low
Parent material: slope alluvium over pedisediment over residuum weathered from limestone
Restrictive feature(s): fragipan at 11 to 30 inches
Depth to Water table: 19 inches
Drainage class: moderately well drained

Flooding hazard: none

Ponding hazard: none

Saturated hydraulic conductivity class: Moderately Low

Soil loss tolerance (T factor): 4 Wind erodibility group (WEG): 7 Wind erodibility index (WEI): 38 Land capability class, irrigated: Land capability class, nonirrigated: 4s Hydric soil: no Hydrologic group: D Runoff class: very high Potential frost action: moderate

#### Representative soil profile: Available water SAR pН Salinity (mmhos/cm) Horizon -- Depth (inches) Texture capacity (inches) Oi --0 to 1 Slightly decomposed 0.0 to 0.0 0.1 to 2.0 0 plant material A --1 to 3 Very gravelly silt loam 0.2 to 0.3 3.9 to 6.0 0.1 to 2.0 0 E ---3 to 10 Very gravelly silt loam 0.5 to 1.1 4.5 to 6.0 0.1 to 2.0 0 BE -- 10 to 20 Very gravelly silt loam 0.1 to 2.0 0 0.7 to 1.2 4.2 to 5.5 2Btx -- 20 to 43 Very gravelly silt loam 0.7 to 1.9 4.3 to 5.5 0.1 to 2.0 0 3Bt -- 43 to 80 Very gravelly clay 1.1 to 3.7 4.1 to 5.0 0.1 to 2.0 0

Ecological class(es): NRCS Forestland Site - Low-Base Chert Upland Woodland

NRCS Forestland Site - Low-Base Chert Upland Woodland

Missouri Vegetative Classes - Trees/Timber



Benton County, Arkansas

[NfD - Nixa very gravelly silt loam, 8 to 12 percent slopes]

### NfD--Nixa very gravelly silt loam, 8 to 12 percent slopes

Composition

· Nixa and similar soils: 100 percent of the unit

### Setting

Landform(s): hills, hills Elevation: 801 to 1499 feet Precipitation: 42 to 51 inches Slope gradient: 8 to 12 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

#### Characteristics of Nixa and similar soils

Average total avail. water in top five feet (in.): 6.1	Soil loss tolerance (T factor): 3
Available water capacity class: Moderate	Wind erodibility group (WEG): 7
Parent material: loamy residuum weathered from cherty	Wind erodibility index (WEI): 38
limestone	Land capability class, irrigated:
Restrictive feature(s): fragipan at 13 to 21 inches	Land capability class, nonirrigated: 4s
Depth to Water table: none within the soil profile	Hydric soil: no
Drainage class: moderately well drained	Hydrologic group: D
Flooding hazard: none	Runoff class: very high
Ponding hazard: none	Potential frost action: none

Saturated hydraulic conductivity class: Moderately Low

R

epresentative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 3	Very gravelly silt loam	0.3 to 0.5	4.5 to 5.5	0.0	0	
BE 3 to 17	Very gravelly silt loam	1.0 to 1.7	4.5 to 5.5	0.0	0	
Btx 17 to 30	Extremely gravelly silt loam	0.9 to 1.6	4.5 to 5.5	0.0	0	
C/Bt 30 to 60	Mixed extremely gravelly clay	2.1 to 3.6	4.5 to 5.5	0.0	0	

Ecological class(es): NRCS Forestland Site - Low-Base Chert Upland Woodland



Benton County, Arkansas

[NoD - Noark very gravelly silt loam, 8 to 12 percent slopes]

### NoD--Noark very gravelly silt loam, 8 to 12 percent slopes

#### Composition

Noark and similar soils: 90 to 97 percent of the map unit (RV=95 percent)

Bendavis and similar soils: 3 to 10 percent of the map unit (RV=5 percent)

#### Setting

Landform(s): hills, hillslopes Elevation: 328 to 1640 feet Precipitation: 39 to 49 inches Slope gradient: 8 to 12 percent Air temperature: 55 to 59 °F Frost-free period: 172 to 232 days

### Characteristics of Noark and similar soils

Average total avail. water in top five feet (in.): 5.8	Soil loss tolerance (T factor): 5
Available water capacity class: Low	Wind erodibility group (WEG): 7
Parent material: slope alluvium over residuum weathered from	Wind erodibility index (WEI): 38
limestone	Land capability class, irrigated:
Restrictive feature(s): none	Land capability class, nonirrigated: 4e
Depth to Water table: none within the soil profile	Hydric soil: no
Drainage class: well drained	Hydrologic group: C
Flooding hazard: none	Runoff class: medium
Ponding hazard: none	Potential frost action: moderate

Saturated hydraulic conductivity class: Moderately Low

### Representative soil profile:

epresentative soil profile Horizon Depth (inches)	e:  Texture	Available water capacity (inches)	pН	Salinity (mmhos/cm)	SAR	
Oi 0 to 1	Slightly decomposed plant material	0.0 to 0.0		0.1 to 2.0	0	
A 1 to 4	Very gravelly silt loam	0.3 to 0.5	4.5 to 5.5	0.1 to 2.0	0	
E 4 to 12	Very gravelly silt loam	0.6 to 1.5	4.5 to 5.5	0.1 to 2.0	0	
BE 12 to 22	Very gravelly silty clay loam	0.7 to 1.5	4.5 to 5.5	0.1 to 2.0	0	
2Bt 22 to 80	Very gravelly silty clay	1.7 to 5.2	4.5 to 5.5	0.1 to 2.0	0	

Ecological class(es): NRCS Forestland Site - Low-Base Chert Protected Backslope Woodland NRCS Forestland Site - Low-Base Chert Upland Woodland NRCS Forestland Site - Low-Base Chert Exposed Backslope Woodland Missouri Vegetative Classes - Trees/Timber



Benton County, Arkansas

[NoE - Noark very gravelly silt loam, 12 to 20 percent slopes]

### NoE--Noark very gravelly silt loam, 12 to 20 percent slopes

Composition

· Noark and similar soils: 100 percent of the unit

## Setting

Landform(s): hills, hills Elevation: 801 to 1499 feet Precipitation: 42 to 51 inches Slope gradient: 12 to 20 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

#### Characteristics of Noark and similar soils

Average total avail. water in top five feet (in.): 7.1	Soil loss tolerance (T factor): 5
Available water capacity class: Moderate	Wind erodibility group (WEG): 7
Parent material: clayey residuum weathered from cherty	Wind erodibility index (WEI): 38
limestone	Land capability class, irrigated:
Restrictive feature(s): none	Land capability class, nonirrigated:
Depth to Water table: none within the soil profile	Hydric soil: no
Drainage class: well drained	Hydrologic group: B
Flooding hazard: none	Runoff class: high
Ponding hazard: none	Potential frost action: none

Saturated hydraulic conductivity class: Moderately High

R

epresentative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 2	Very gravelly silt loam	0.2 to 0.2	4.5 to 6.0	0.0	0	
E 2 to 10	Very gravelly silt loam	0.8 to 1.3	4.5 to 6.0	0.0	0	
BE 10 to 17	Very gravelly silty clay loam	0.7 to 0.9	4.5 to 5.5	0.0	0	
Bt1 17 to 30	Very gravelly clay	1.0 to 1.6	4.5 to 5.5	0.0	0	
Bt2 30 to 72	Extremely gravelly clay	2.5 to 5.1	4.5 to 5.5	0.0	0	

Ecological class(es): NRCS Forestland Site - Chert Protected Backslope Forest NRCS Forestland Site - Chert Exposed Backslope Woodland



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Benton County, Arkansas

[NoF - Noark very gravelly silt loam, 20 to 40 percent slopes]

### NoF--Noark very gravelly silt loam, 20 to 40 percent slopes

### Composition

- Noark and similar soils: 88 to 98 percent of the map unit (RV=90 percent)
- Bendavis and similar soils: 2 to 12 percent of the map unit (RV=10 percent)

#### Setting

Landform(s): hills, hillslopes Elevation: 479 to 1680 feet Precipitation: 39 to 49 inches Slope gradient: 20 to 40 percent Air temperature: 54 to 59 °F Frost-free period: 172 to 232 days

#### Characteristics of Noark and similar soils

Average total avail. water in top five feet (in.): 5.8	Soil loss tolerance (T factor):
Available water capacity class: Low	Wind erodibility group (WEG)
Parent material: slope alluvium over residuum weathered from	Wind erodibility index (WEI):
limestone	Land capability class, irrigated
Restrictive feature(s): none	Land capability class, nonirrig
Depth to Water table: none within the soil profile	Hydric soil: no
Drainage class: well drained	Hydrologic group: C
Flooding hazard: none	Runoff class: high
Ponding hazard: none	Potential frost action: modera

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Saturated hydraulic conductivity class: Moderately Low

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#### Representative soil profile:

Horizon Depth (inches)	Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
Oi 0 to 1	Slightly decomposed plant material	0.0 to 0.0		0.1 to 2.0	0	
A 1 to 4	Very gravelly silt loam	0.3 to 0.5	4.5 to 5.5	0.1 to 2.0	0	
E 4 to 12	Very gravelly silt loam	0.6 to 1.5	4.5 to 5.5	0.1 to 2.0	0	
BE 12 to 22	Very gravelly silty clay loam	0.7 to 1.5	4.5 to 5.5	0.1 to 2.0	0	
2Bt 22 to 80	Very gravelly silty clay	1.7 to 5.2	4.5 to 5.5	0.1 to 2.0	0	

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Ecological class(es): NRCS Forestland Site - Low-Base Chert Protected Backslope Woodland NRCS Forestland Site - Low-Base Chert Protected Backslope Woodland NRCS Forestland Site - Low-Base Chert Exposed Backslope Woodland NRCS Forestland Site - Low-Base Chert Exposed Backslope Woodland Missouri Vegetative Classes - Trees/Timber



Benton County, Arkansas

[PeB - Peridge silt loam, 1 to 3 percent slopes]

### PeB--Peridge silt loam, 1 to 3 percent slopes

### Composition

· Peridge and similar soils: 100 percent of the unit

### Setting

Landform(s): hills, stream terraces, uplands Elevation: 1001 to 1499 feet Precipitation: 42 to 51 inches

Slope gradient: 1 to 3 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

#### Characteristics of Peridge and similar soils

Average total avail. water in top five feet (in.): 12.4	Soil loss tolerance (T factor): 5	
Available water capacity class: High	Wind erodibility group (WEG): 5	
Parent material: residuum weathered from limestone,	Wind erodibility index (WEI): 56	
sandstone, and shale	Land capability class, irrigated:	
Restrictive feature(s): none	Land capability class, nonirrigated:	2e
Depth to Water table: none within the soil profile	Hydric soil: no	
Drainage class: well drained	Hydrologic group: B	
Flooding hazard: none	Runoff class: low	
Ponding hazard: none	Potential frost action: none	

Saturated hydraulic conductivity class: Moderately High

Re

epresentative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
Ap 0 to 9	Silt loam	1.4 to 1.8	4.5 to 6.0	0.0	0	
Bt1 9 to 42	Silty clay loam	5.3 to 6.6	4.5 to 6.0	0.0	0	
Bt2 42 to 54	Gravelly silty clay loam	1.2 to 2.4	4.5 to 6.0	0.0	0	
Bt3 54 to 60	Gravelly silty clay	0.5 to 1.2	4.5 to 6.0	0.0	0	
Bt4 60 to 74	Silty clay	1.3 to 2.8	4.5 to 6.0	0.0	0	

Ecological class(es): NRCS Forestland Site - Loamy Footslope Forest



Benton County, Arkansas

[PeC - Peridge silt loam, 3 to 8 percent slopes]

### PeC--Peridge silt loam, 3 to 8 percent slopes

### Composition

• Peridge and similar soils: 100 percent of the unit

### Setting

Landform(s): hills, stream terraces, uplands Elevation: 1001 to 1499 feet Precipitation: 42 to 51 inches

Slope gradient: 3 to 8 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

#### Characteristics of Peridge and similar soils

Average total avail. water in top five feet (in.): 12.4	Soil loss tolerance (T factor): 5
Available water capacity class: High	Wind erodibility group (WEG): 5
Parent material: residuum weathered from limestone,	Wind erodibility index (WEI): 56
sandstone, and shale	Land capability class, irrigated:
Restrictive feature(s): none	Land capability class, nonirrigated: 3e
Depth to Water table: none within the soil profile	Hydric soil: no
Drainage class: well drained	Hydrologic group: B
Flooding hazard: none	Runoff class: low
Ponding hazard: none	Potential frost action: none

Saturated hydraulic conductivity class: Moderately High

R

epresentative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
Ap 0 to 9	Silt loam	1.4 to 1.8	4.5 to 6.0	0.0	0	
Bt1 9 to 42	Silty clay loam	5.3 to 6.6	4.5 to 6.0	0.0	0	
Bt2 42 to 54	Gravelly silty clay loam	1.2 to 2.4	4.5 to 6.0	0.0	0	
Bt3 54 to 60	Gravelly silty clay	0.5 to 1.2	4.5 to 6.0	0.0	0	
Bt4 60 to 74	Silty clay	1.3 to 2.8	4.5 to 6.0	0.0	0	

Ecological class(es): NRCS Forestland Site - Loamy Footslope Forest



Benton County, Arkansas

[Se - Secesh gravelly silt loam, occasionally flooded]

### Se--Secesh gravelly silt loam, occasionally flooded

### Composition

- Secesh and similar soils: 95 percent of the unit
- Aqualfs and similar soils: 5 percent of the unit

#### Setting

Landform(s): flood plains, hills Elevation: Precipitation: 42 to 51 inches

### Slope gradient: 0 to 2 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

Soil loss tolerance (T factor): 4

### Characteristics of Secesh and similar soils

Average total avail. water in top five feet (in.): 8.9
Available water capacity class: Moderate
Parent material: gravelly loamy alluvium
Restrictive feature(s): none
Depth to Water table: none within the soil profile
Drainage class: well drained
Flooding hazard: none
Ponding hazard: none

Saturated hydraulic conductivity class: Moderately High

Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48 Land capability class, irrigated: Land capability class, nonirrigated: 2w Hydric soil: no Hydrologic group: B Runoff class: low Potential frost action: moderate

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	pН	Salinity (mmhos/cm)	SAR	
A 0 to 10	Silt loam	1.6 to 2.0	4.5 to 6.0	0.0	0	
Bt1 10 to 24	Gravelly silt loam	1.8 to 2.7	4.5 to 6.0	0.0	0	
Bt2 24 to 55	Very gravelly silt loam	2.8 to 4.4	4.5 to 6.0	0.0	0	
Bt3 55 to 74	Extremely gravelly silt loam	0.6 to 1.5	4.5 to 6.0	0.0	0	

Ecological class(es): NRCS Forestland Site - Loamy Terrace Forest



Benton County, Arkansas

[SoF - Sogn very cobbly silt loam, 12 to 40 percent slopes, very rocky (moko)]

### SoF--Sogn very cobbly silt loam, 12 to 40 percent slopes, very rocky (moko)

Composition

。 Sogn and similar soils: 100 percent of the unit

	Setting
<i>Landform(s):</i> hills, hills	Slope gradient: 12 to 40 percent
Elevation: 499 to 1499 feet	Air temperature: 47 to 70 °F
Precipitation: 42 to 51 inches	Frost-free period: 183 to 239 days

#### Characteristics of Sogn and similar soils

Average total avail. water in top five feet (in.): 0.9	Soil loss tolerance (T factor): 1
Available water capacity class: Very low	Wind erodibility group (WEG): 8
Parent material: loamy residuum weathered from limestone and	Wind erodibility index (WEI): 0
dolomite	Land capability class, irrigated:
Restrictive feature(s): lithic bedrock at 6 to 20 inches	Land capability class, nonirrigated: 7s
Depth to Water table: none within the soil profile	Hydric soil: no
Drainage class: well drained	Hydrologic group: D
Flooding hazard: none	Runoff class: very high
Ponding hazard: none	Potential frost action: none

Saturated hydraulic conductivity class: Moderately High

Representative soil profile Horizon Depth (inches)	9: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR
A1 0 to 2	Very cobbly silt loam	0.2 to 0.3	6.6 to 7.8	0.0	0
A2 2 to 8	Very cobbly silt loam	0.5 to 0.8	6.6 to 7.8	0.0	0
R 8 to 10	Unweathered bedrock			0.0	0

Ecological class(es): NRCS Rangeland Site - Shallow Dolomite Upland Glade/Woodland



Benton County, Arkansas

[SrE - Sogn-Clareson complex, 8 to 20 percent slopes, rubbly (moko, arkana)]

### SrE--Sogn-Clareson complex, 8 to 20 percent slopes, rubbly (moko, arkana)

Composition

- Sogn and similar soils: 65 percent of the unit
- Clareson and similar soils: 35 percent of the unit

#### Setting

Landform(s): hills, hills Elevation: 499 to 1499 feet Precipitation: 42 to 51 inches Slope gradient: 8 to 20 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

### Characteristics of Sogn and similar soils

Average total avail. water in top five feet (in.): 0.9	Soil loss tolerance (T factor): 1
Available water capacity class: Very low	Wind erodibility group (WEG): 8
Parent material: loamy residuum weathered from limestone and	Wind erodibility index (WEI): 0
dolomite	Land capability class, irrigated:
Restrictive feature(s): lithic bedrock at 6 to 20 inches	Land capability class, nonirrigated: 7s
Depth to Water table: none within the soil profile	Hydric soil: no
Drainage class: well drained	Hydrologic group: D
Flooding hazard: none	Runoff class: high
Ponding hazard: none	Potential frost action: none

Saturated hydraulic conductivity class: Moderately High

Representative soil profile:

epresentative soil profile:		Available water				
Horizon Depth (inches)	Texture	capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A1 0 to 2	Very stony silt loam	0.2 to 0.3	6.6 to 7.8	0.0	0	
A2 2 to 8	Very stony silt loam	0.5 to 0.8	6.6 to 7.8	0.0	0	
R 8 to 12	Unweathered bedrock			0.0	0	

Ecological class(es): NRCS Rangeland Site - Shallow Dolomite Upland Glade/Woodland



Benton County, Arkansas

[SrE - Sogn-Clareson complex, 8 to 20 percent slopes, rubbly (moko, arkana)]

### Characteristics of Clareson and similar soils

Average total avail. water in top five feet (in.): 2.6	Soil loss tolerance (T factor): 2	
Available water capacity class: Very low	Wind erodibility group (WEG): 8	
Parent material: loamy residuum weathered from limestone and	Wind erodibility index (WEI): 0	
dolomite	Land capability class, irrigated:	
Restrictive feature(s): lithic bedrock at 20 to 40 inches	Land capability class, nonirrigated:	66
Depth to Water table: none within the soil profile	Hydric soil: no	
Drainage class: well drained	Hydrologic group: D	
Flooding hazard: none	Runoff class: very high	
Ponding hazard: none	Potential frost action: moderate	

Saturated hydraulic conductivity class: Moderately Low

Rer	presentat	ive so	il profile	•-
nop	ncocinai	100 301		

presentative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 9	Very stony silt loam	0.7 to 1.1	5.6 to 7.3	0.0	0	
Bt 9 to 26	Very stony clay	1.2 to 2.0	4.5 to 7.3	0.0	0	
R 26 to 30	Unweathered bedrock			0.0	0	

Ecological class(es): NRCS Forestland Site - Calcareous Dolomite Upland Woodland



Benton County, Arkansas

[SsD2 - Summit silty clay, 3 to 15 percent slopes, eroded]

### SsD2--Summit silty clay, 3 to 15 percent slopes, eroded

Composition

· Summit and similar soils: 100 percent of the unit

Setting

Landform(s): hills, hills Elevation: 1001 to 2001 feet Precipitation: 42 to 51 inches Slope gradient: 3 to 15 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

#### Characteristics of Summit and similar soils

Average total avail. water in top five feet (in.): 10.5	Soil loss tolerance (T factor): 5	
Available water capacity class: High	Wind erodibility group (WEG): 4	
Parent material: clayey residuum weathered from limestone and	Wind erodibility index (WEI): 86	
shale	Land capability class, irrigated:	
Restrictive feature(s): none	Land capability class, nonirrigated:	4e
Depth to Water table: none within the soil profile	Hydric soil: no	
Drainage class: moderately well drained	Hydrologic group: C	
Flooding hazard: none	Runoff class: high	
Ponding hazard: none	Potential frost action: none	

Saturated hydraulic conductivity class: Moderately High

#### Representative soil profile:

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 11	Silty clay	1.8 to 2.2	5.6 to 7.3	0.0	0	
Bt1 11 to 26	Silty clay	1.5 to 2.7	5.6 to 7.3	0.0	0	
Bt2 26 to 72	Clay	4.6 to 8.3	5.6 to 8.4	0.0	0	



Benton County, Arkansas

[ToA - Taloka silt loam, 0 to 1 percent slopes]

### ToA--Taloka silt loam, 0 to 1 percent slopes

#### Composition

- $_{\circ}$  Taloka and similar soils: 84 to 100 percent of the map unit (RV=89 percent)
- Parsons and similar soils: 0 to 5 percent of the map unit (RV=4 percent)
- $_{\circ}~$  Aquolls and similar soils: 0 to 4 percent of the map unit (RV=3 percent)
- Okemah and similar soils: 0 to 3 percent of the map unit (RV=2 percent)
- Carytown and similar soils: 0 to 2 percent of the map unit (RV=1 percent)
- · Jay and similar soils: 0 to 2 percent of the map unit (RV=1 percent)

#### Setting

Landform(s): paleoterraces on plains
Elevation: 499 to 1201 feet
Precipitation: 42 to 46 inches

Slope gradient: 0 to 1 percent
Air temperature: 58 to 60 °F
Frost-free period: 190 to 220 days

#### Characteristics of Taloka and similar soils

Average total avail. water in top five feet (in.): 12.4
Available water capacity class: High
Parent material: loamy and clayey alluvium and/or colluvium derived from sandstone and shale
Restrictive feature(s): none
Depth to Water table: 15 inches
Drainage class: somewhat poorly drained
Flooding hazard: none
Ponding hazard: none

Soil loss tolerance (T factor): 4 Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48 Land capability class, irrigated: Land capability class, nonirrigated: 3w Hydric soil: no Hydrologic group: D Runoff class: very high Potential frost action: none

Saturated hydraulic conductivity class: Moderately Low

Representative soil profile Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
Ap 0 to 12	Silt loam	1.9 to 2.8	5.1 to 6.5	0.0	0	
E 12 to 22	Silt loam	1.6 to 2.5	5.1 to 6.5	0.0	0	
Bt1 22 to 38	Clay	1.4 to 3.5	5.1 to 7.8	0.0	0	
Bt2 38 to 49	Silty clay loam	1.0 to 2.4	5.1 to 7.8	0.0	0	
BC 49 to 79	Silty clay loam	2.7 to 6.6	5.1 to 7.8	0.0	0	

Ecological class(es): NRCS Rangeland Site - Loamy prairie (Northeast) PE 62-80

Forage Suitability Groups - Unnamed



Benton County, Arkansas

[TsC - Tonti gravelly silt loam, 3 to 8 percent slopes]

### TsC--Tonti gravelly silt loam, 3 to 8 percent slopes

Composition

• Tonti and similar soils: 100 percent of the unit

Landform(s): hills, hills Elevation: Precipitation: 42 to 51 inches

. .: .. ..

### Setting

Slope gradient: 3 to 8 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

#### Characteristics of Tonti and similar soils

Average total avail. water in top five feet (in.): 4.6				
Available water capacity class: Low				
Parent material: loamy residuum weathered from cherty limestone				
Restrictive feature(s): fragipan at 15 to 23 inches				
lithic bedrock at 40 to 60 inches				
Depth to Water table: none within the soil profile				
Drainage class: moderately well drained				
Flooding hazard: none				
Ponding hazard: none				
Saturated hydraulic conductivity class: Moderately High				

Soil loss tolerance (T factor): 3 Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48 Land capability class, irrigated: Land capability class, nonirrigated: 3e Hydric soil: no Hydrologic group: D Runoff class: high Potential frost action: none

.

Representative soil profile	<u>):</u>	Available water			SVD	
Horizon Depth (inches)	Texture	capacity (inches)	рН	Salinity (mmhos/cm)	SAK	
Ap 0 to 6	Gravelly silt loam	0.9 to 1.2	4.5 to 6.0	0.0	0	
Bt 6 to 19	Gravelly silty clay loam	1.8 to 2.5	4.5 to 5.5	0.0	0	
Btx1 19 to 29	Gravelly silty clay loam	0.5 to 1.0	4.5 to 5.5	0.0	0	
Btx2 29 to 42	Extremely gravelly silty clay loam	0.3 to 0.8	4.5 to 5.5	0.0	0	
R 42 to 44	Unweathered bedrock			0.0	0	

Ecological class(es): NRCS Forestland Site - Fragipan Upland Woodland



Benton County, Arkansas

[VsF - Ventris very gravelly silt loam, 15 to 40 percent slopes, rubbly]

### VsF--Ventris very gravelly silt loam, 15 to 40 percent slopes, rubbly

Composition

· Ventris and similar soils: 100 percent of the unit

# Setting

Landform(s): hills, hills Elevation: 801 to 1299 feet Precipitation: 42 to 51 inches Slope gradient: 15 to 40 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

### Characteristics of Ventris and similar soils

Average total avail. water in top five feet (in.): 5.1	Soil loss tolerance (T factor): 2
Available water capacity class: Low	Wind erodibility group (WEG): 8
Parent material: residuum weathered from limestone and shale	Wind erodibility index (WEI): 0
Restrictive feature(s): lithic bedrock at 24 to 40 inches	Land capability class, irrigated:
Depth to Water table: none within the soil profile	Land capability class, nonirrigated: 7s
Drainage class: moderately well drained	<i>Hydric soil:</i> no
Flooding hazard: none	Hydrologic group: D
Ponding hazard: none	Runoff class: very high

Saturated hydraulic conductivity class: Moderately Low

Potential frost action: none

Representative soil profile: Horizon Depth (inches)   Texture		Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 4	Very gravelly silt loam	0.4 to 0.8	5.6 to 7.3	0.0	0	
Bt 4 to 14	Gravelly clay	1.0 to 1.8	6.1 to 7.8	0.0	0	
Btss 14 to 36	Silty clay	2.2 to 3.9	6.1 to 7.8	0.0	0	
R 36 to 40	Unweathered bedrock			0.0	0	

Ecological class(es): NRCS Forestland Site - Chert Dolomite Protected Backslope Forest NRCS Forestland Site - Chert Dolomite Exposed Backslope Woodland



Benton County, Arkansas

[W - Water]

### **W--Water**

• Water: 100 percent of the unit

Landform(s): hills Elevation: Precipitation:

### Composition

### Setting

Slope gradient: Air temperature: Frost-free period:

### Characteristics of Water

Average total avail. water in top five feet (in.): Available water capacity class: NA Parent material: Restrictive feature(s): Depth to Water table: Drainage class: Flooding hazard: Ponding hazard:

Saturated hydraulic conductivity class: NA

Ecological class(es):

Soil loss tolerance (T factor): Wind erodibility group (WEG): Wind erodibility index (WEI): Land capability class, irrigated: Land capability class, nonirrigated: Hydric soil: Hydrologic group: Runoff class: Potential frost action:



Benton County, Arkansas

[WeC - Waben very gravelly silt loam, 3 to 8 percent slopes]

### WeC--Waben very gravelly silt loam, 3 to 8 percent slopes

Composition

· Waben and similar soils: 100 percent of the unit

### Setting

Landform(s): alluvial fans, hills Elevation: 1001 to 1401 feet Precipitation: 42 to 51 inches

Slope gradient: 3 to 8 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

#### Characteristics of Waben and similar soils

Average total avail. water in top five feet (in.): 6.6	Soil loss tolerance (T factor): 5
Available water capacity class: Moderate	Wind erodibility group (WEG): 7
Parent material: very cherty alluvium and/or colluvium	Wind erodibility index (WEI): 38
Restrictive feature(s): none	Land capability class, irrigated:
Depth to Water table: none within the soil profile	Land capability class, nonirrigated: 4s
Drainage class: well drained	Hydric soil: no
Flooding hazard: none	Hydrologic group: A
Ponding hazard: none	Runoff class: very low
	Potential frost action:

Saturated hydraulic conductivity class: High

#### Representative soil profile:

epresentative soil profil Horizon Depth (inches)	e: Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 5	Very gravelly silt loam	0.5 to 0.7	5.1 to 6.5	0.0	0	
E 5 to 15	Very gravelly silt loam	0.5 to 1.3	5.1 to 6.5	0.0	0	
Bt 15 to 40	Very gravelly silt loam	1.3 to 3.8	5.1 to 6.5	0.0	0	
BCt 40 to 66	Extremely gravelly silt loam	1.3 to 3.9	5.1 to 6.5	0.0	0	

Ecological class(es): NRCS Forestland Site - Dry Footslope Forest



Benton County, Arkansas

[WeD - Waben very gravelly silt loam, 8 to 12 percent slopes]

### WeD--Waben very gravelly silt loam, 8 to 12 percent slopes

Composition

· Waben and similar soils: 100 percent of the unit

### Setting

Landform(s): alluvial fans, hills Elevation: 1001 to 1401 feet Precipitation: 42 to 51 inches

Slope gradient: 8 to 12 percent Air temperature: 47 to 70 °F Frost-free period: 183 to 239 days

#### Characteristics of Waben and similar soils

Average total avail. water in top five feet (in.): 6.6	Soil loss tolerance (T factor): 5
Available water capacity class: Moderate	Wind erodibility group (WEG): 7
Parent material: very cherty alluvium and/or colluvium	Wind erodibility index (WEI): 38
Restrictive feature(s): none	Land capability class, irrigated:
Depth to Water table: none within the soil profile	Land capability class, nonirrigated: 4s
Drainage class: well drained	Hydric soil: no
Flooding hazard: none	Hydrologic group: A
Ponding hazard: none	Runoff class: low
	Potential frost action:

Saturated hydraulic conductivity class: High

#### Representative soil profile:

epresentative soil profile Horizon Depth (inches)	e:  Texture	Available water capacity (inches)	рН	Salinity (mmhos/cm)	SAR	
A 0 to 5	Very gravelly silt loam	0.5 to 0.7	5.1 to 6.5	0.0	0	
E 5 to 15	Very gravelly silt loam	0.5 to 1.3	5.1 to 6.5	0.0	0	
Bt 15 to 40	Very gravelly silt loam	1.3 to 3.8	5.1 to 6.5	0.0	0	
BCt 40 to 66	Extremely gravelly silt loam	1.3 to 3.9	5.1 to 6.5	0.0	0	

Ecological class(es): NRCS Forestland Site - Dry Footslope Forest

