

IDWR copy

Soils Map

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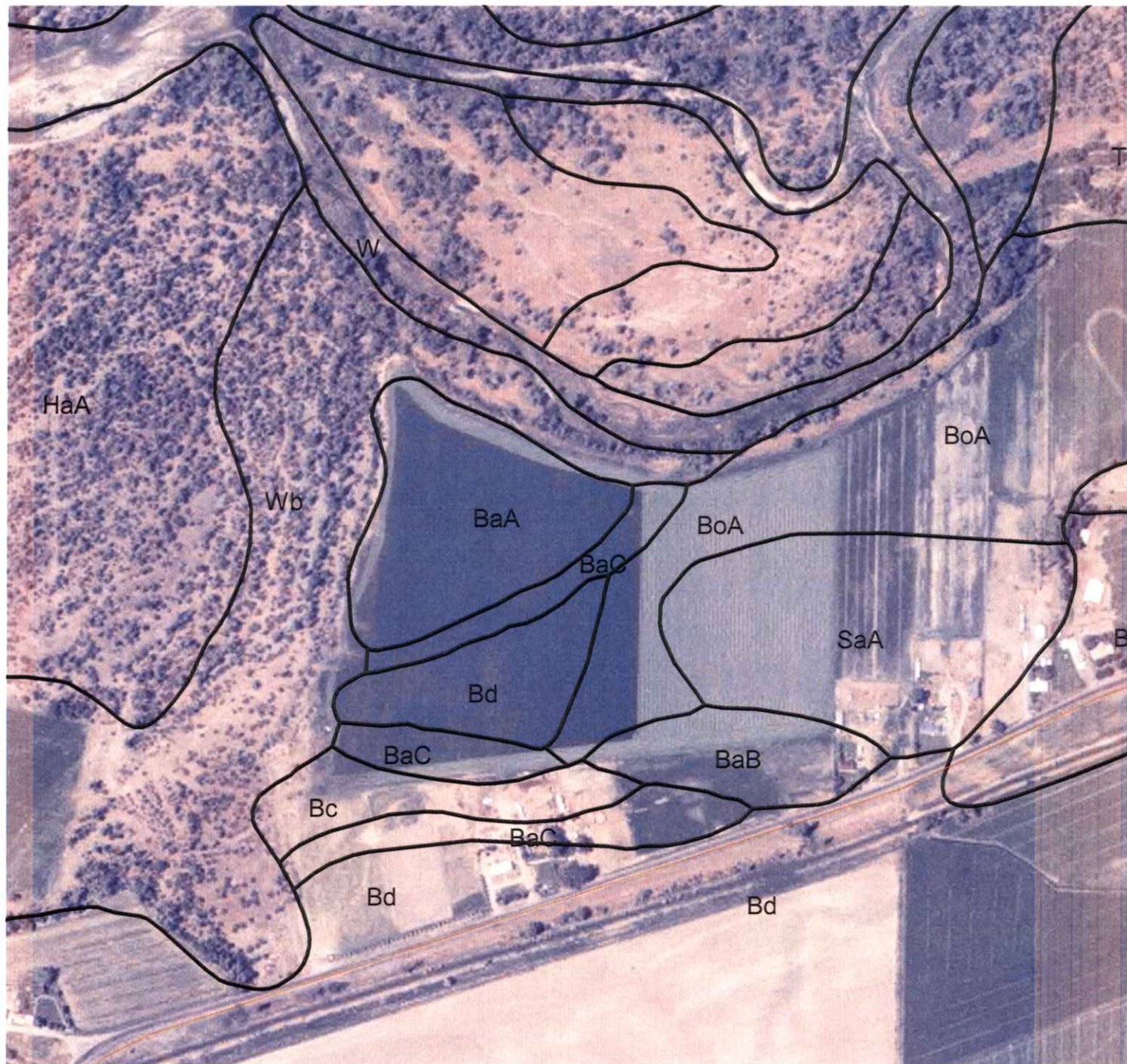
Central Bingham SCD

Blackfoot Service Center

Natural Resources Conservation Service

Assisted by Dean Smith

Date: 12/28/2004



Legend

- Ushwy_l_id011.shp
- Streetroads_l_id011.shp
- Sthwy_l_id011.shp
- Interstate_l_id011.shp
- 4wdtrail_l_id011.shp
- Soil_a_id770.shp



600 0 600 1200 Feet



Mapunit Descriptions

Bingham Area, Idaho

BaA - BANNOCK LOAM, 0 TO 2 PERCENT SLOPES

Mean annual precipitation: 8 to 13 inches

Frost-free period: 90 to 130 days

Mean annual temperature: 39 to 46 degrees F

Farmland class: Prime farmland if irrigated

BANNOCK and similar soils

Extent: about 100 percent of the unit

Landform(s): river terraces

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): strongly contrasting textural stratification

Seasonal high water table: greater than 60 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Land capability class, non-irrigated:

Land capability class, irrigated: 2s

Drainage class: well drained

Hydric soil class: no

Hydrologic group: B

Representative soil profile:			Texture	Permeability	Available Water Capacity	pH	Kw	Kf
A --	0 to 6 in	loam		moderate	* 0.9 to 1.1 in	7.4 to 8.4	.32	.37
Bw --	6 to 32 in	loam		moderate	3.6 to 4.2 in	7.4 to 8.4	.32	.43
2Ck --	32 to 60 in	very gravelly coarse sand		very rapid	0.8 to 1.4 in	7.4 to 8.4	.10	.15

Ecological Site / Plant Association:

inch of water per inches of
soil in the profile layer

Mapunit Descriptions - Continued

Bingham Area, Idaho

BaB - BANNOCK LOAM, 2 TO 4 PERCENT SLOPES

Mean annual precipitation: 8 to 13 inches

Frost-free period: 90 to 130 days

Mean annual temperature: 39 to 46 degrees F

Farmland class: Prime farmland if irrigated

BANNOCK and similar soils

Extent: about 100 percent of the unit

Landform(s): river terraces

Slope gradient: 2 to 4 percent

Parent material: alluvium

Restrictive feature(s): strongly contrasting textural stratification

Seasonal high water table: greater than 60 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Land capability class, non-irrigated:

Land capability class, irrigated: 2e

Drainage class: well drained

Hydric soil class: no

Hydrologic group: B

Representative soil profile:			Texture	Permeability	Available Water Capacity	pH	Kw	Kf
A --	0 to 6 in	loam		moderate	0.9 to 1.1 in	7.4 to 8.4	.32	.37
Bw --	6 to 32 in	loam		moderate	3.6 to 4.2 in	7.4 to 8.4	.32	.43
2Ck --	32 to 60 in	very gravelly coarse sand		very rapid	0.8 to 1.4 in	7.4 to 8.4	.10	.15

Ecological Site / Plant Association:

Mapunit Descriptions - Continued

Bingham Area, Idaho

BaC - BANNOCK LOAM, 4 TO 8 PERCENT SLOPES

Mean annual precipitation: 8 to 13 inches

Frost-free period: 90 to 130 days

Mean annual temperature: 39 to 46 degrees F

Farmland class: Prime farmland if irrigated

BANNOCK and similar soils

Extent: about 100 percent of the unit

Landform(s): river terraces

Slope gradient: 4 to 8 percent

Parent material: alluvium

Restrictive feature(s): strongly contrasting textural stratification

Seasonal high water table: greater than 60 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Land capability class, non-irrigated:

Land capability class, irrigated: 3e

Drainage class: well drained

Hydric soil class: no

Hydrologic group: B

Representative soil profile:			Texture	Permeability	Available Water Capacity	pH	Kw	Kf
A --	0 to 6 in	loam		moderate	0.9 to 1.1 in	7.4 to 8.4	.32	.37
Bw --	6 to 32 in	loam		moderate	3.6 to 4.2 in	7.4 to 8.4	.32	.43
2Ck --	32 to 60 in	very gravelly coarse sand		very rapid	0.8 to 1.4 in	7.4 to 8.4	.10	.15

Ecological Site / Plant Association:

Mapunit Descriptions - Continued

Bingham Area, Idaho

Bc - BLACKFOOT LOAM

Mean annual precipitation: 9 to 12 inches

Frost-free period: 95 to 126 days

Mean annual temperature: 43 to 45 degrees F

Farmland class: Prime farmland if irrigated

BLACKFOOT and similar soils

Extent: about 100 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): river terraces

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: alluvium

Land capability class, non-irrigated: 3w

Restrictive feature(s): none

Land capability class, irrigated: 2w

Seasonal high water table: approximately 27 inches

Drainage class: somewhat poorly drained

Flooding frequency: none

Hydric soil class: no

Ponding frequency: none

Hydrologic group: C

Representative soil profile:			Texture	Permeability	Available Water Capacity	pH	Kw	Kf
Ap --	0 to 8 in	loam		moderate	1.3 to 1.4 in	7.4 to 8.4	.32	.32
C1 --	8 to 18 in	loam		moderate	1.6 to 1.8 in	7.4 to 8.4	.37	.37
C2 --	18 to 25 in	silty clay loam		moderately slow	1.3 to 1.5 in	6.6 to 8.4	.43	.43
C3 --	25 to 60 in	stratified fine sandy loam to silty clay loam		moderate	5.5 to 6.6 in	7.4 to 8.4	.32	.32
C4 --	60 to 84 in	extremely gravelly coarse sand		very rapid	0.2 to 0.7 in	6.6 to 7.3	.10	.15

Ecological Site / Plant Association:

Mapunit Descriptions - Continued

Bingham Area, Idaho

Bd - BLACKFOOT LOAM, DRAINED

Mean annual precipitation: 9 to 12 inches

Frost-free period: 80 to 125 days

Mean annual temperature: 43 to 45 degrees F

Farmland class: Prime farmland if irrigated

BLACKFOOT and similar soils

Extent: about 100 percent of the unit

Landform(s): river terraces

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): none

Seasonal high water table: approximately 60 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Land capability class, non-irrigated: 6c

Land capability class, irrigated: 2c

Drainage class: moderately well drained

Hydric soil class: no

Hydrologic group: B

Representative soil profile:

	Texture	Permeability	Available Water Capacity	pH	Kw	Kf
Ap -- 0 to 8 in	loam	moderate	1.3 to 1.4 in	7.4 to 8.4	.32	.32
C1 -- 8 to 18 in	loam	moderate	1.6 to 1.8 in	7.4 to 8.4	.37	.37
C2 -- 18 to 25 in	loam	moderately slow	1.3 to 1.5 in	6.6 to 8.4	.43	.43
C3 -- 25 to 60 in	loam	moderate	5.5 to 6.6 in	7.4 to 8.4	.32	.32
C4 -- 60 to 84 in	loam	very rapid	0.2 to 0.7 in	6.6 to 7.3	.10	.15

Ecological Site / Plant Association:

Mapunit Descriptions - Continued

Bingham Area, Idaho

BoA - BOCK LOAM, 0 TO 2 PERCNT SLOPES

Mean annual precipitation: 8 to 13 inches

Frost-free period: 70 to 126 days

Mean annual temperature: 39 to 45 degrees F

Farmland class: Prime farmland if irrigated

BOCK and similar soils

Extent: about 100 percent of the unit

Landform(s): terraces

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): strongly contrasting textural stratification

Seasonal high water table: greater than 60 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Land capability class, non-irrigated: 6c

Land capability class, irrigated: 2c

Drainage class: well drained

Hydric soil class: no

Hydrologic group: B

Representative soil profile:			Texture	Permeability	Available Water Capacity	pH	Kw	Kf
A --	0 to 10 in	loam		moderate	1.4 to 2.0 in	6.6 to 8.4	.32	.32
Bk --	10 to 47 in	loam		moderate	5.2 to 7.4 in	7.4 to 8.4	.32	.43
2C --	47 to 60 in	very gravelly loamy sand		very rapid	0.4 to 0.6 in	7.4 to 8.4	.05	.15

Ecological Site / Plant Association:

Mapunit Descriptions

Bingham Area, Idaho

SaA - SASSER FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES

Mean annual precipitation: 10 to 13 inches

Frost-free period: 110 to 130 days

Mean annual temperature: 39 to 46 degrees F

Farmland class: Prime farmland if irrigated

SASSER and similar soils

Extent: about 100 percent of the unit

Landform(s): river terraces

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): strongly contrasting textural stratification

Seasonal high water table: greater than 60 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Land capability class, non-irrigated: 6c

Land capability class, irrigated: 2c

Drainage class: well drained

Hydric soil class: no

Hydrologic group: B

Representative soil profile:		Texture	Permeability	Available Water Capacity	pH	Kw	Kf
Ap --	0 to 14 in	fine sandy loam	moderately rapid	1.8 to 2.3 in	6.6 to 8.4	.32	.32
Bk --	14 to 38 in	fine sandy loam	moderately rapid	3.1 to 3.8 in	7.4 to 8.4	.37	.43
2C --	38 to 60 in	extremely gravelly coarse sand	very rapid	0.2 to 0.9 in	7.4 to 8.4	.10	.20

Ecological Site / Plant Association:

Table J1b. - Physical Properties of the Soils

Bingham Area, Idaho

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	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index			
										In	Pct	Pct			Kw	Kf	T
BaA: BANNOCK	0-6 6-32 32-60	--- --- ---	--- --- ---	10-20 10-18 0-10	1.40-1.50 1.40-1.50 1.65-1.80	0.6-2 0.6-2 20	0.16-0.18 0.14-0.16 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	1.0-3.0 1.0-3.0 0.0-0.5	.32 .32 .10	.37 .43 .15	3	5	56			
BaB: BANNOCK	0-6 6-32 32-60	--- --- ---	--- --- ---	10-20 10-18 0-10	1.40-1.50 1.40-1.50 1.65-1.80	0.6-2 0.6-2 20	0.16-0.18 0.14-0.16 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	1.0-3.0 1.0-3.0 0.0-0.5	.32 .32 .10	.37 .43 .15	3	5	56			
BaC: BANNOCK	0-6 6-32 32-60	--- --- ---	--- --- ---	10-20 10-18 0-10	1.40-1.50 1.40-1.50 1.65-1.80	0.6-2 0.6-2 20	0.16-0.18 0.14-0.16 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	1.0-3.0 1.0-3.0 0.0-0.5	.32 .32 .10	.37 .43 .15	3	5	56			
Bc: BLACKFOOT	0-8 8-18 18-25 25-60 60-84	--- --- --- --- ---	--- --- --- --- ---	16-22 18-26 15-32 16-40 0-5	1.20-1.40 1.30-1.50 1.40-1.60 1.30-1.50 1.60-1.75	0.6-2 0.6-2 0.2-0.6 0.6-2 20	0.16-0.18 0.16-0.18 0.19-0.21 0.16-0.19 0.01-0.03	0.0-2.9 0.0-2.9 3.0-5.9 0.0-2.9 0.0-2.9	1.0-3.0 0.5-2.0 0.5-1.0 0.5-1.0 0.0-0.5	.32 .37 .43 .32 .10	.32 .37 .43 .32 .15	5	4L	86			
Bd: BLACKFOOT	0-8 8-18 18-25 25-60 60-84	--- --- --- --- ---	--- --- --- --- ---	16-22 18-26 15-32 16-40 0-5	1.20-1.40 1.30-1.50 1.40-1.60 1.30-1.50 1.60-1.75	0.6-2 0.6-2 0.2-0.6 0.6-2 20	0.16-0.18 0.16-0.18 0.19-0.21 0.16-0.19 0.01-0.03	0.0-2.9 0.0-2.9 3.0-5.9 0.0-2.9 0.0-2.9	1.0-3.0 0.5-2.0 0.5-1.0 0.5-1.0 0.0-0.5	.32 .37 .43 .32 .10	.32 .37 .43 .32 .15	5	4L	86			

Table J1b. - Physical Properties of the Soils - Continued

Bingham Area, Idaho

Map Symbol and Soil Name	Depth In	Sand Pct	Silt Pct	Clay Pct	Moist Bulk Density g/cc	Permeability (Ksat) In/Hr	Available Water Capacity In/In	Linear Extensi- bility Pct	Organic Matter Pct	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw	Kf	T		
BoA:														
BOCK	0-10	---	---	14-18	1.20-1.40	0.6-2	0.14-0.20	0.0-2.9	1.0-3.0	.32	.32	4	5	56
	10-47	---	---	14-18	1.40-1.60	0.6-2	0.14-0.20	0.0-2.9	0.5-2.0	.32	.43			
	47-60	---	---	3-10	1.60-1.70	20	0.03-0.05	0.0-2.9	0.5-1.0	.05	.15			

Table J1b. - Physical Properties of the Soils

Bingham Area, Idaho

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 In	Sand Pct	Silt Pct	Clay Pct	Moist Bulk Density g/cc	Permeability (Ksat) In/Hr	Available Water Capacity In/In	Linear Extensi- bility Pct	Organic Matter Pct			Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
												Kw	Kf	T		
SaA: SASSER	0-14	---	---	8-15	1.40-1.55	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.32	.32	.32	.43	.20	3	86
	14-38	---	---	8-15	1.45-1.60	2-6	0.13-0.16	0.0-2.9	0.5-1.0	.37	.43					
	38-60	---	---	0-5	1.55-1.75	20	0.01-0.04	0.0-2.9	0.0-0.5	.10	.20					