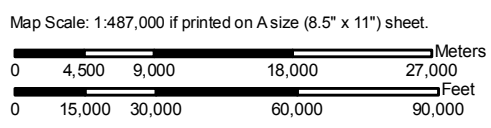
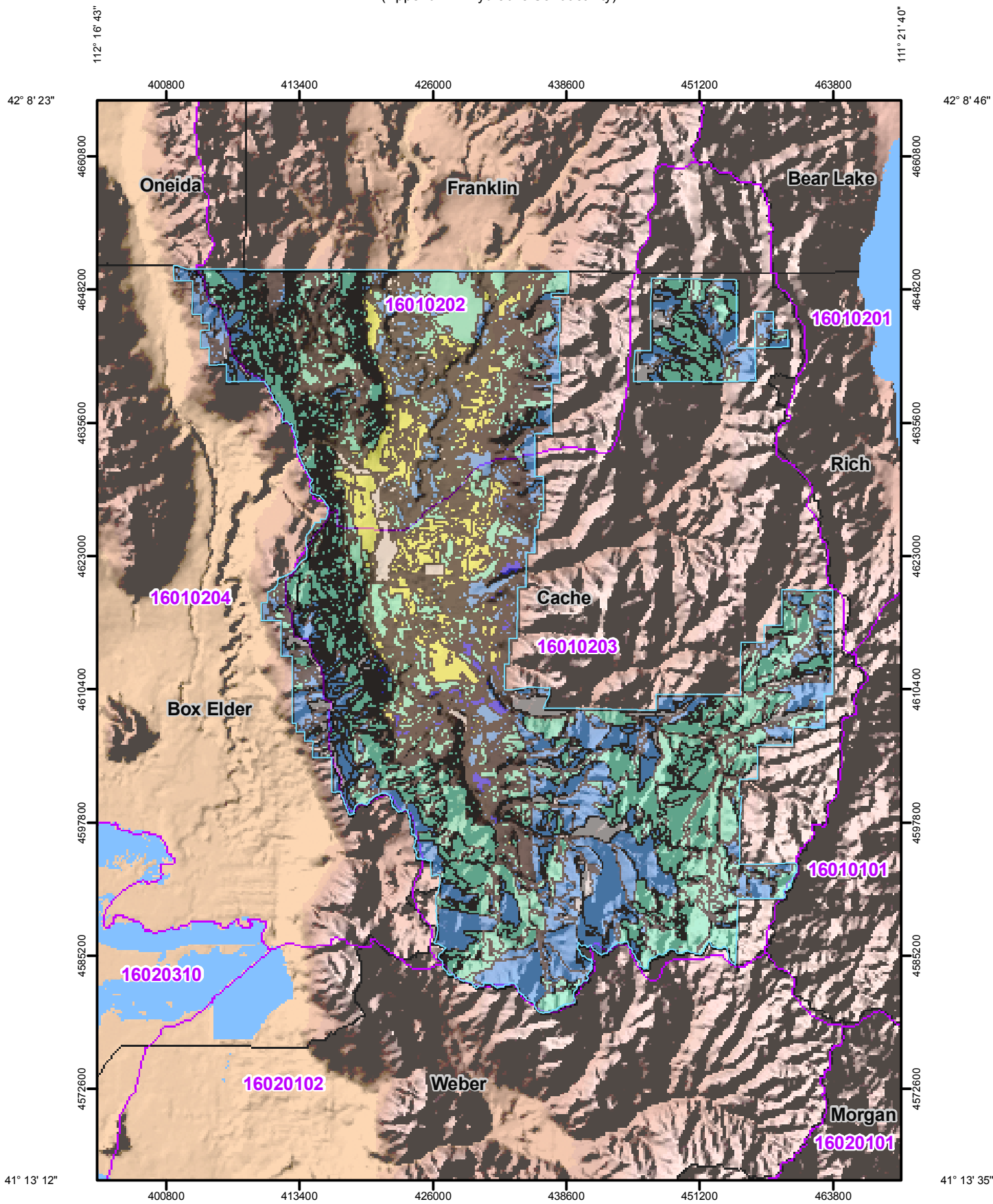



Saturated Hydraulic Conductivity (Ksat), Standard Classes—Cache Valley Area, Parts of Cache and Box Elder Counties, Utah  
(Appendix 2: Hydraulic Conductivity)










## MAP LEGEND

### Area of Interest (AOI)


 Area of Interest (AOI)

### Soils

#### Soil Ratings

-  Very Low (0.0 - 0.01)
-  Low (0.01 - 0.1)
-  Moderately Low (0.1 - 1)
-  Moderately High (1 - 10)
-  High (10 - 100)
-  Very High (100 - 705)
-  Not rated or not available



### Political Features

 Counties

### Federal Land

 Forest Service

### Water Features

-  Water
-  8-Digit Hydrologic Units

### Transportation

 Interstate Highways

## MAP INFORMATION

Map Scale: 1:487,000 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: UTM Zone 12N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Cache Valley Area, Parts of Cache and Box Elder Counties, Utah  
Survey Area Data: Version 4, Nov 16, 2006

Date(s) aerial images were photographed: Data not available.

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Saturated Hydraulic Conductivity (Ksat), Standard Classes

Saturated Hydraulic Conductivity (Ksat), Standard Classes— Summary by Map Unit — Cache Valley Area, Parts of Cache and Box Elder Counties, Utah				
Map unit symbol	Map unit name	Rating (micrometers per second)	Acres in AOI	Percent of AOI
AAE	AGASSIZ VERY COBBLY SILT LOAM, 6 TO 30 PERCENT SLOPES	12.8182	2,929.0	0.6%
AAG2	AGASSIZ VERY COBBLY SILT LOAM, 30 TO 70 PERCENT SLOPES, ERODED	12.8182	1,818.2	0.3%
ABG2	AGASSIZ-BRADSHAW ASSOCIATION, ERODED	16.6954	9,515.2	1.8%
ADG2	AGASSIZ-DATEMAN ASSOCIATION, ERODED	12.8182	14,328.2	2.7%
AEG2	AGASSIZ-ELWOOD ASSOCIATION, ERODED	12.8182	2,719.3	0.5%
AGE	AGASSIZ-GORING ASSOCIATION	12.8182	1,548.7	0.3%
AGG2	AGASSIZ-GORING ASSOCIATION, ERODED	12.8182	1,444.9	0.3%
AhA	AIRPORT SILT LOAM, 0 TO 3 PERCENT SLOPES	0.9100	1,893.5	0.4%
Ak	AIRPORT SILTY CLAY LOAM	0.9100	1,474.8	0.3%
Am	AIRPORT-SALT LAKE COMPLEX	0.9100	1,488.5	0.3%
AND	ANT FLAT LOAM, 6 TO 20 PERCENT SLOPES	2.3566	7,385.2	1.4%
AOE2	ANT FLAT-DESPAIN ASSOCIATION, ERODED	9.0000	5,236.3	1.0%
ArA	AVON SILTY CLAY LOAM, 0 TO 3 PERCENT SLOPES	3.1783	3,385.2	0.6%
ArB	AVON SILTY CLAY LOAM, 3 TO 6 PERCENT SLOPES	3.1783	2,065.4	0.4%
ArC	AVON SILTY CLAY LOAM, 6 TO 10 PERCENT SLOPES	3.1783	1,000.2	0.2%
ArD	AVON SILTY CLAY LOAM, 10 TO 20 PERCENT SLOPES	3.1783	537.2	0.1%
AsC	AVON-COLLINSTON COMPLEX, 6 TO 10 PERCENT SLOPES	9.0000	1,272.9	0.2%
AsE	AVON-COLLINSTON COMPLEX, 10 TO 30 PERCENT SLOPES	9.0000	1,120.2	0.2%
BAF	BARFUSS-LEATHAM ASSOCIATION	9.0000	8,023.8	1.5%
BcA	BATTLE CREEK SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	0.9100	1,555.7	0.3%
BcD	BATTLE CREEK SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES	0.9100	573.4	0.1%
BGG	BICKMORE GRAVELLY SILT LOAM, 30 TO 70 PERCENT SLOPES	3.9858	747.6	0.1%

<b>Saturated Hydraulic Conductivity (Ksat), Standard Classes— Summary by Map Unit — Cache Valley Area, Parts of Cache and Box Elder Counties, Utah</b>				
<b>Map unit symbol</b>	<b>Map unit name</b>	<b>Rating (micrometers per second)</b>	<b>Acres in AOI</b>	<b>Percent of AOI</b>
BKG2	BICKMORE-AGASSIZ ASSOCIATION, ERODED	12.8182	1,338.6	0.3%
BLG2	BICKMORE-SHEEP CREEK ASSOCIATION, ERODED	12.8182	8,403.4	1.6%
BmB	BLACKROCK GRAVELLY LOAM, 3 TO 6 PERCENT SLOPES	9.0000	223.5	0.0%
BmC	BLACKROCK GRAVELLY LOAM, 6 TO 10 PERCENT SLOPES	9.0000	394.9	0.1%
BmD	BLACKROCK GRAVELLY LOAM, 10 TO 20 PERCENT SLOPES	9.0000	469.0	0.1%
BnD	BLACKROCK STONY LOAM, 10 TO 20 PERCENT SLOPES	6.8238	393.1	0.1%
BSG2	BRADSHAW-AGASSIZ ASSOCIATION, ERODED	16.6954	4,965.9	1.0%
Ca	CACHE SILTY CLAY	0.9100	1,614.2	0.3%
Cd	CARDON SILTY CLAY	0.2857	2,186.9	0.4%
CE	CENTER CREEK SILT LOAM	3.9637	336.8	0.1%
CFE	CLEGG SILT LOAM, 20 TO 30 PERCENT SLOPES	21.7086	805.7	0.2%
CGE	CLUFF SILT LOAM, 6 TO 30 PERCENT SLOPES	4.1473	1,091.4	0.2%
CHE	CLUFF-LUCKY STAR ASSOCIATION	9.0000	1,969.0	0.4%
CIE	CLUFF-SCOUT ASSOCIATION	24.7115	3,832.8	0.7%
Ck	COLLETT SILTY CLAY LOAM	0.9100	5,877.9	1.1%
CIA	COLLINSTON LOAMY FINE SAND, 0 TO 3 PERCENT SLOPES	19.4437	467.8	0.1%
CmC	COLLINSTON LOAM, 1 TO 6 PERCENT SLOPES	9.0000	814.1	0.2%
CmD	COLLINSTON LOAM, 6 TO 10 PERCENT SLOPES	9.0000	854.9	0.2%
CmE2	COLLINSTON LOAM, 10 TO 30 PERCENT SLOPES, ERODED	9.0000	1,304.8	0.3%
CoA	CROOKSTON LOAM, 0 TO 3 PERCENT SLOPES	9.0000	3,247.4	0.6%
CoB	CROOKSTON LOAM, 3 TO 6 PERCENT SLOPES	9.0000	401.4	0.1%
CoC	CROOKSTON LOAM, 6 TO 10 PERCENT SLOPES	9.0000	295.0	0.1%
CrB	CROSHAW GRAVELLY LOAM, 3 TO 6 PERCENT SLOPES	9.0000	316.4	0.1%
CrC	CROSHAW GRAVELLY LOAM, 6 TO 10 PERCENT SLOPES	9.0000	1,048.2	0.2%
CrD	CROSHAW GRAVELLY LOAM, 10 TO 20 PERCENT SLOPES	9.0000	673.1	0.1%

<b>Saturated Hydraulic Conductivity (Ksat), Standard Classes— Summary by Map Unit — Cache Valley Area, Parts of Cache and Box Elder Counties, Utah</b>				
<b>Map unit symbol</b>	<b>Map unit name</b>	<b>Rating (micrometers per second)</b>	<b>Acres in AOI</b>	<b>Percent of AOI</b>
CSE	CURTIS CREEK-GORING ASSOCIATION, HILLY	8.5357	2,387.7	0.5%
CSG	CURTIS CREEK-GORING ASSOCIATION, STEEP	9.0000	1,688.7	0.3%
DaC	DAGOR SILT LOAM, 4 TO 8 PERCENT SLOPES	9.0000	274.9	0.1%
DaD	DAGOR SILT LOAM, 10 TO 20 PERCENT SLOPES	9.0000	433.1	0.1%
DEG	DATEMAN EXTREMELY ROCKY SILT LOAM, 40 TO 80 PERCENT SLOPES	7.9693	7,805.4	1.5%
DHG	DATEMAN-BRADSHAW ASSOCIATION	16.6954	3,260.4	0.6%
DLG	DATWYLER COBBLY SILTY CLAY LOAM, 30 TO 60 PERCENT SLOPES	2.1886	670.1	0.1%
DNG	DATWYLER-ELZINGA-MAUGHAN ASSOCIATION	8.8143	6,320.3	1.2%
DPG	DESPAIN-BICKMORE ASSOCIATION	9.0000	1,773.2	0.3%
DSG	DESPAIN-LUCKY STAR ASSOCIATION	9.0000	814.7	0.2%
EDG	ELWOOD SILT LOAM, 30 TO 60 PERCENT SLOPES	8.3396	688.1	0.1%
EGE	ELWOOD-AGASSIZ ASSOCIATION	12.8182	999.3	0.2%
EME	ELWOOD-MULT ASSOCIATION, HILLY	8.3396	1,183.3	0.2%
EMG	ELWOOD-MULT ASSOCIATION, STEEP	8.3396	4,561.4	0.9%
FGD	FITZGERALD STONY LOAM, 10 TO 20 PERCENT SLOPES	16.2980	2,732.3	0.5%
FLD	FLYGARE SILT LOAM, 3 TO 20 PERCENT SLOPES	17.8049	1,597.9	0.3%
FOG	FOXOL ROCKY LOAM, 30 TO 60 PERCENT SLOPES	75.0981	4,910.8	0.9%
GGE	GORING SILT LOAM, 6 TO 30 PERCENT SLOPES	1.8208	5,882.8	1.1%
GOE2	GORING-OBRAV ASSOCIATION, ERODED	1.5227	8,243.3	1.6%
Gp	GRAVEL PIT		355.8	0.1%
GrA	GREEN CANYON GRAVELLY LOAM, 0 TO 3 PERCENT SLOPES	65.0728	1,641.6	0.3%
GrB	GREEN CANYON GRAVELLY LOAM, 3 TO 7 PERCENT SLOPES	65.0728	422.8	0.1%
GsA	GREENSON LOAM, 0 TO 3 PERCENT SLOPES	9.0000	12,269.6	2.4%
GsB	GREENSON LOAM, 3 TO 6 PERCENT SLOPES	9.0000	699.6	0.1%
GsC	GREENSON LOAM, 6 TO 10 PERCENT SLOPES	9.0000	250.7	0.0%
GuA	GREENSON LOAM, DEEP OVER CLAY, 0 TO 1 PERCENT SLOPES	9.0000	626.1	0.1%

<b>Saturated Hydraulic Conductivity (Ksat), Standard Classes— Summary by Map Unit — Cache Valley Area, Parts of Cache and Box Elder Counties, Utah</b>				
<b>Map unit symbol</b>	<b>Map unit name</b>	<b>Rating (micrometers per second)</b>	<b>Acres in AOI</b>	<b>Percent of AOI</b>
GvA	GREENSON LOAM, DEEP OVER GRAVEL, 0 TO 1 PERCENT SLOPES	9.0000	237.8	0.0%
HdA	HENDRICKS SILT LOAM, 1 TO 3 PERCENT SLOPES	3.7144	507.8	0.1%
HdB	HENDRICKS SILT LOAM, 3 TO 6 PERCENT SLOPES	3.7144	660.3	0.1%
HdC	HENDRICKS SILT LOAM, 6 TO 10 PERCENT SLOPES	3.7144	1,545.6	0.3%
HdD	HENDRICKS SILT LOAM, 10 TO 20 PERCENT SLOPES	3.7144	2,440.4	0.5%
HeC	HIIBNER GRAVELLY CLAY LOAM, 3 TO 10 PERCENT SLOPES	1.0305	228.1	0.0%
HeD	HIIBNER GRAVELLY CLAY LOAM, 10 TO 30 PERCENT SLOPES	1.0305	263.7	0.1%
HeE	HIIBNER GRAVELLY CLAY LOAM, 20 TO 30 PERCENT SLOPES	1.0305	201.3	0.0%
HfE	HIIBNER EXTREMELY STONY CLAY LOAM, 1 TO 30 PERCENT SLOPES	1.0305	1,902.8	0.4%
HgE2	HILLFIELD SILT LOAM, 20 TO 30 PERCENT SLOPES, ERODED	8.6212	301.1	0.1%
HhE2	HILLFIELD-TIMPANOGOS SILT LOAMS, 10 TO 30 PERCENT SLOPES, ERODED	14.6622	1,250.6	0.2%
HIB	HOSKIN GRAVELLY LOAM, THICK SURFACE, 1 TO 6 PERCENT SLOPES	5.3294	755.9	0.1%
HKG2	HOSKIN COBBLY LOAM, 30 TO 70 PERCENT SLOPES, ERODED	5.3294	1,718.1	0.3%
HLG2	HOSKIN-DATWYLER ASSOCIATION, ERODED	5.3294	600.2	0.1%
HMG2	HOSKIN-ELZINGA ASSOCIATION, ERODED	12.8182	1,510.8	0.3%
HNG	HOSKIN-SCAVE ASSOCIATION	5.4640	3,142.0	0.6%
HOG2	HOSKIN-SCOUT ASSOCIATION, ERODED	24.7115	4,665.6	0.9%
HSG2	HOSKIN-SMARTS ASSOCIATION, ERODED	9.0000	931.1	0.2%
HuC	HYRUM GRAVELLY LOAM, 4 TO 8 PERCENT SLOPES	6.1221	562.4	0.1%
HuE	HYRUM GRAVELLY LOAM, 10 TO 25 PERCENT SLOPES	6.1221	668.6	0.1%
HyC	HYRUM COBBLY LOAM, 4 TO 8 PERCENT SLOPES	6.1221	428.6	0.1%
Jo	JORDAN SILTY CLAY LOAM	0.9581	995.3	0.2%
Jr	JORDAN-LASIL SILTY CLAY LOAMS	0.9581	1,248.3	0.2%
KdA	KIDMAN FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	14.4106	2,860.1	0.5%

<b>Saturated Hydraulic Conductivity (Ksat), Standard Classes— Summary by Map Unit — Cache Valley Area, Parts of Cache and Box Elder Counties, Utah</b>				
<b>Map unit symbol</b>	<b>Map unit name</b>	<b>Rating (micrometers per second)</b>	<b>Acres in AOI</b>	<b>Percent of AOI</b>
KdD	KIDMAN FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES	14.4106	143.5	0.0%
KfA	KIDMAN FINE SANDY LOAM, DEEP WATER TABLE, 0 TO 2 PERCENT SLOPES	14.4106	7,892.9	1.5%
KfB	KIDMAN FINE SANDY LOAM, DEEP WATER TABLE, 2 TO 4 PERCENT SLOPES	14.4106	362.0	0.1%
KfC	KIDMAN FINE SANDY LOAM, DEEP WATER TABLE, 4 TO 8 PERCENT SLOPES	14.4106	581.5	0.1%
Ks	KIRKHAM-SHAY COMPLEX	22.9103	1,187.8	0.2%
Kt	KIRKHAM-SHAY COMPLEX, STRONGLY ALKALI	22.9103	688.9	0.1%
La	LAKEWIN GRAVELLY COARSE SANDY LOAM	236.6755	423.5	0.1%
LCG	LAPLATTA SILTY CLAY LOAM, 30 TO 50 PERCENT SLOPES	1.3319	257.7	0.0%
LGE	LAPLATTA-OBRAV ASSOCIATION	9.0000	5,003.0	1.0%
Lh	LAYTON LOAMY FINE SAND	76.9454	1,967.1	0.4%
LMG2	LEATHAM-BARFUSS ASSOCIATION, ERODED	9.0000	1,998.7	0.4%
Ln	LEWISTON FINE SANDY LOAM	9.0000	9,070.4	1.7%
Lo	LEWISTON FINE SANDY LOAM, STRONGLY ALKALI	9.0000	498.2	0.1%
Lr	LOGAN SILTY CLAY LOAM	1.5308	2,587.1	0.5%
LSE	LUCKY STAR SILT LOAM, 6 TO 30 PERCENT SLOPES	9.0000	5,537.8	1.1%
LTG	LUCKY STAR GRAVELLY SILT LOAM, 30 TO 60 PERCENT SLOPES	9.0000	14,364.0	2.8%
LUE	LUCKY STAR-GORING ASSOCIATION	9.0000	4,742.2	0.9%
LVE	LUCKY STAR-HOSKIN ASSOCIATION	9.0000	2,253.0	0.4%
LWE	LUCKY STAR-RED SPUR COMPLEX, 6 TO 30 PERCENT SLOPES	12.8182	1,123.4	0.2%
LXE	LUCKY STAR-SCOUT ASSOCIATION	24.7115	2,470.1	0.5%
M-W	MISCELLANEOUS WATER		495.8	0.1%
MAG	MAUGHAN-DATWYLER ASSOCIATION	5.4627	758.2	0.1%
McA	MCMURDIE SILT LOAM, 0 TO 3 PERCENT SLOPES	7.2893	793.9	0.2%
McB	MCMURDIE SILT LOAM, 3 TO 6 PERCENT SLOPES	7.2893	1,655.6	0.3%
McC	MCMURDIE SILT LOAM, 6 TO 10 PERCENT SLOPES	7.2893	1,006.9	0.2%
MdE2	MCMURDIE-HILLFIELD SILT LOAMS, 10 TO 30 PERCENT SLOPES, ERODED	8.6212	639.3	0.1%

<b>Saturated Hydraulic Conductivity (Ksat), Standard Classes— Summary by Map Unit — Cache Valley Area, Parts of Cache and Box Elder Counties, Utah</b>				
<b>Map unit symbol</b>	<b>Map unit name</b>	<b>Rating (micrometers per second)</b>	<b>Acres in AOI</b>	<b>Percent of AOI</b>
MeA	MENDON SILT LOAM, 0 TO 3 PERCENT SLOPES	9.0000	9,506.3	1.8%
MeB	MENDON SILT LOAM, 3 TO 6 PERCENT SLOPES	2.9744	5,162.9	1.0%
MeC	MENDON SILT LOAM, 6 TO 10 PERCENT SLOPES	2.9744	2,090.5	0.4%
MfB	MENDON-COLLINSTON COMPLEX, 1 TO 6 PERCENT SLOPES	9.0000	1,407.0	0.3%
MfE2	MENDON-COLLINSTON COMPLEX, 6 TO 30 PERCENT SLOPES, ERODED	9.0000	4,858.1	0.9%
MIA	MILLVILLE SILT LOAM, 0 TO 2 PERCENT SLOPES	9.0000	1,664.6	0.3%
MIB	MILLVILLE SILT LOAM, 2 TO 4 PERCENT SLOPES	9.0000	788.8	0.2%
Mm	MIXED ALLUVIAL LAND		5,233.6	1.0%
MNE	MULT-AGASSIZ ASSOCIATION	12.8182	3,719.3	0.7%
MNG2	MULT-AGASSIZ ASSOCIATION, ERODED	12.8182	1,081.8	0.2%
MoG2	MUNK-BLACKROCK GRAVELLY LOAMS, 30 TO 70 PERCENT SLOPES, ERODED	9.0000	2,656.0	0.5%
MSE	MULT-LUCKY STAR ASSOCIATION	12.8182	668.9	0.1%
NbB	NEBEKER SILT LOAM, 3 TO 6 PERCENT SLOPES	2.5318	388.0	0.1%
NbC	NEBEKER SILT LOAM, 6 TO 10 PERCENT SLOPES	2.5318	1,509.0	0.3%
NbE	NEBEKER SILT LOAM, 10 TO 25 PERCENT SLOPES	2.5318	5,157.2	1.0%
NcA	NIBLEY SILTY CLAY LOAM, 0 TO 3 PERCENT SLOPES	0.9100	7,377.9	1.4%
NcB	NIBLEY SILTY CLAY LOAM, 3 TO 6 PERCENT SLOPES	0.9100	992.5	0.2%
ObB	OBRAY SILTY CLAY, 1 TO 6 PERCENT SLOPES	0.3071	199.4	0.0%
PaA	PARLEYS SILT LOAM, 0 TO 3 PERCENT SLOPES	6.3552	1,424.2	0.3%
PaB	PARLEYS SILT LOAM, 3 TO 6 PERCENT SLOPES	6.3552	951.9	0.2%
PaC	PARLEYS SILT LOAM, 6 TO 10 PERCENT SLOPES	6.3552	469.4	0.1%
PIA	PARLO SILT LOAM, 0 TO 3 PERCENT SLOPES	48.6164	2,465.1	0.5%
PIB	PARLO SILT LOAM, 3 TO 6 PERCENT SLOPES	48.6164	472.7	0.1%
PIC	PARLO SILT LOAM, 6 TO 10 PERCENT SLOPES	48.6164	172.9	0.0%



<b>Saturated Hydraulic Conductivity (Ksat), Standard Classes— Summary by Map Unit — Cache Valley Area, Parts of Cache and Box Elder Counties, Utah</b>				
<b>Map unit symbol</b>	<b>Map unit name</b>	<b>Rating (micrometers per second)</b>	<b>Acres in AOI</b>	<b>Percent of AOI</b>
Pn	PAYSON SILT LOAM	0.2794	1,302.1	0.2%
POG2	PICAYUNE-AGASSIZ ASSOCIATION, ERODED	12.8182	2,555.4	0.5%
PRG	PICAYUNE-SMARTS ASSOCIATION	9.0000	877.2	0.2%
PSG2	POLELINE-AGASSIZ ASSOCIATION, ERODED	21.7086	1,672.4	0.3%
PtC	PRESTON FINE SAND, 0 TO 10 PERCENT SLOPES	92.0000	313.0	0.1%
Pu	PROVO LOAM	23.9735	1,397.2	0.3%
Pv	PROVO GRAVELLY LOAM	23.9735	712.7	0.1%
Qu	QUINNEY SILT LOAM	2.6081	2,670.0	0.5%
RCG2	RICHMOND VERY STONY LOAM, 30 TO 70 PERCENT SLOPES, ERODED	19.5109	2,655.4	0.5%
RDG2	RICHMOND-MIDDLE ASSOCIATION, ERODED	19.5109	5,612.3	1.1%
REG2	RICHMOND-MUNK ASSOCIATION, ERODED	19.5109	961.7	0.2%
RFG2	RICHMOND-NEBEKER ASSOCIATION, ERODED	60.4106	4,087.5	0.8%
RGG2	RICHMOND-STERLING ASSOCIATION, ERODED	60.4106	2,158.7	0.4%
RhA	RICKS GRAVELLY LOAM, 0 TO 3 PERCENT SLOPES	299.6225	4,982.0	1.0%
RhB	RICKS GRAVELLY LOAM, 3 TO 6 PERCENT SLOPES	299.6225	1,493.6	0.3%
RhC	RICKS GRAVELLY LOAM, 6 TO 10 PERCENT SLOPES	299.6225	965.6	0.2%
Rk	RIVERWASH		225.8	0.0%
RO	ROCK LAND		14,685.6	2.8%
Rs	ROSHE SPRINGS SILT LOAM	9.0000	2,756.2	0.5%
Rt	ROUGH BROKEN LAND		3,187.0	0.6%
SAG	ST. MARYS GRAVELLY VERY FINE SANDY LOAM, 30 TO 60 PERCENT SLOPES	28.0000	631.8	0.1%
SCG	ST. MARYS-CURTIS CREEK ASSOCIATION	28.0000	2,052.0	0.4%
Sd	SALT LAKE SILTY CLAY LOAM	1.1093	734.7	0.1%
Se	SALT LAKE SILTY CLAY	0.2857	2,162.1	0.4%
Sf	SALT LAKE-LOGAN COMPLEX	1.5308	300.0	0.1%
Sg	SALT LAKE-ROSHE SPRINGS COMPLEX	9.0000	2,956.0	0.6%
Sh	SALT LAKE-TRENTON COMPLEX	0.2876	407.8	0.1%
SIE	SCAVE SILT LOAM, 10 TO 30 PERCENT SLOPES	5.4640	2,021.4	0.4%

<b>Saturated Hydraulic Conductivity (Ksat), Standard Classes— Summary by Map Unit — Cache Valley Area, Parts of Cache and Box Elder Counties, Utah</b>				
<b>Map unit symbol</b>	<b>Map unit name</b>	<b>Rating (micrometers per second)</b>	<b>Acres in AOI</b>	<b>Percent of AOI</b>
SKE	SCAVE COBBLY SILT LOAM, 10 TO 30 PERCENT SLOPES	5.4640	866.2	0.2%
SLG	SCOUT GRAVELLY LOAM, 40 TO 70 PERCENT SLOPES	24.7115	1,052.2	0.2%
Sm	SHAY SILTY CLAY LOAM	22.9103	382.1	0.1%
SNG2	SHEEP CREEK COBBLY LOAM, 30 TO 70 PERCENT SLOPES, ERODED	8.1250	4,323.1	0.8%
SOG2	SHEEP CREEK-AGASSIZ ASSOCIATION, ERODED	12.8182	6,162.9	1.2%
SPG2	SHEEP CREEK-DESPAIN ASSOCIATION, ERODED	9.0000	2,016.6	0.4%
SRG2	SHEEP CREEK-MAUGHAN ASSOCIATION, ERODED	8.1250	2,855.3	0.5%
SSE	SMARTS SILT LOAM, 10 TO 30 PERCENT SLOPES	9.0000	1,152.3	0.2%
STG2	SMARTS-HOSKIN ASSOCIATION, ERODED	9.0000	4,161.0	0.8%
SUG	SMARTS-LUCKY STAR-POLELINE ASSOCIATION	21.7086	5,944.1	1.1%
SvA	STEED GRAVELLY LOAM, 0 TO 3 PERCENT SLOPES	70.8013	2,638.0	0.5%
SvB	STEED GRAVELLY LOAM, 3 TO 6 PERCENT SLOPES	70.8013	733.6	0.1%
SvC	STEED GRAVELLY LOAM, 6 TO 10 PERCENT SLOPES	70.8013	1,061.8	0.2%
SwC	STERLING GRAVELLY LOAM, 6 TO 10 PERCENT SLOPES	63.1788	545.0	0.1%
SwD	STERLING GRAVELLY LOAM, 10 TO 20 PERCENT SLOPES	63.1788	2,868.7	0.6%
SwF2	STERLING GRAVELLY LOAM, 20 TO 50 PERCENT SLOPES, ERODED	63.1788	4,398.0	0.8%
Sy	STONY ALLUVIAL LAND		1,060.4	0.2%
TmA	TIMPANOGOS SILT LOAM, 0 TO 3 PERCENT SLOPES	14.6622	1,928.9	0.4%
TmB	TIMPANOGOS SILT LOAM, 3 TO 6 PERCENT SLOPES	14.6622	1,033.4	0.2%
TmC	TIMPANOGOS SILT LOAM, 6 TO 10 PERCENT SLOPES	14.6622	814.5	0.2%
TmD2	TIMPANOGOS SILT LOAM, 10 TO 20 PERCENT SLOPES, ERODED	14.6622	328.6	0.1%
TnA	TIMPANOGOS SILT LOAM, DEEP WATER TABLE, 0 TO 3 PERCENT SLOPES	14.6622	1,851.4	0.4%
TrA	TRENTON SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	0.9100	13,077.6	2.5%

<b>Saturated Hydraulic Conductivity (Ksat), Standard Classes— Summary by Map Unit — Cache Valley Area, Parts of Cache and Box Elder Counties, Utah</b>				
<b>Map unit symbol</b>	<b>Map unit name</b>	<b>Rating (micrometers per second)</b>	<b>Acres in AOI</b>	<b>Percent of AOI</b>
TrB	TRENTON SILTY CLAY LOAM, 2 TO 4 PERCENT SLOPES	0.2876	324.6	0.1%
TrC	TRENTON SILTY CLAY LOAM, 4 TO 8 PERCENT SLOPES	0.2876	528.0	0.1%
TrD2	TRENTON SILTY CLAY LOAM, 8 TO 20 PERCENT SLOPES, ERODED	0.2876	706.4	0.1%
TtA	TRENTON SILTY CLAY LOAM, MODERATELY DEEP WATER TABLE, 0 TO 2 PERCENT SLOPES	0.9100	3,674.5	0.7%
W	WATER		7,211.4	1.4%
WhE	WHEELON SILT LOAM, 10 TO 30 PERCENT SLOPES	9.0000	1,415.0	0.3%
WhF2	WHEELON SILT LOAM, 30 TO 50 PERCENT SLOPES, ERODED	9.0000	3,494.3	0.7%
WIE2	WHEELON-COLLINSTON COMPLEX, 10 TO 30 PERCENT SLOPES, ERODED	9.0000	8,906.9	1.7%
Wn	WINN SILT LOAM	9.0000	2,174.0	0.4%
Wp	WINN-PROVO COMPLEX	23.9735	1,003.2	0.2%
Wr	WOODS CROSS SILTY CLAY LOAM	4.7894	226.1	0.0%
YHE	YEATES HOLLOW COBBLY SILT LOAM, 6 TO 30 PERCENT SLOPES	1.8013	5,332.2	1.0%
YHG	YEATES HOLLOW COBBLY SILT LOAM, 30 TO 70 PERCENT SLOPES	1.8013	4,375.3	0.8%
YLE2	YEATES HOLLOW COBBLY SILTY CLAY LOAM, 3 TO 30 PERCENT SLOPES, ERODED	1.5227	7,963.7	1.5%
<b>Totals for Area of Interest</b>			<b>521,558.9</b>	<b>100.0%</b>

## Description

Saturated hydraulic conductivity (Ksat) refers to the ease with which pores in a saturated soil transmit water. The estimates are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity is considered in the design of soil drainage systems and septic tank absorption fields.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

The numeric Ksat values have been grouped according to standard Ksat class limits. The classes are:

Very low: 0.00 to 0.01

Low: 0.01 to 0.1

Moderately low: 0.1 to 1.0

Moderately high: 1 to 10

High: 10 to 100

Very high: 100 to 705

## Rating Options

*Units of Measure:* micrometers per second

*Aggregation Method:* All Components

*Component Percent Cutoff:* 5

*Tie-break Rule:* Fastest

*Interpret Nulls as Zero:* No

*Layer Options:* Depth Range

*Top Depth:* 1

*Bottom Depth:* 1000

*Units of Measure:* Centimeters