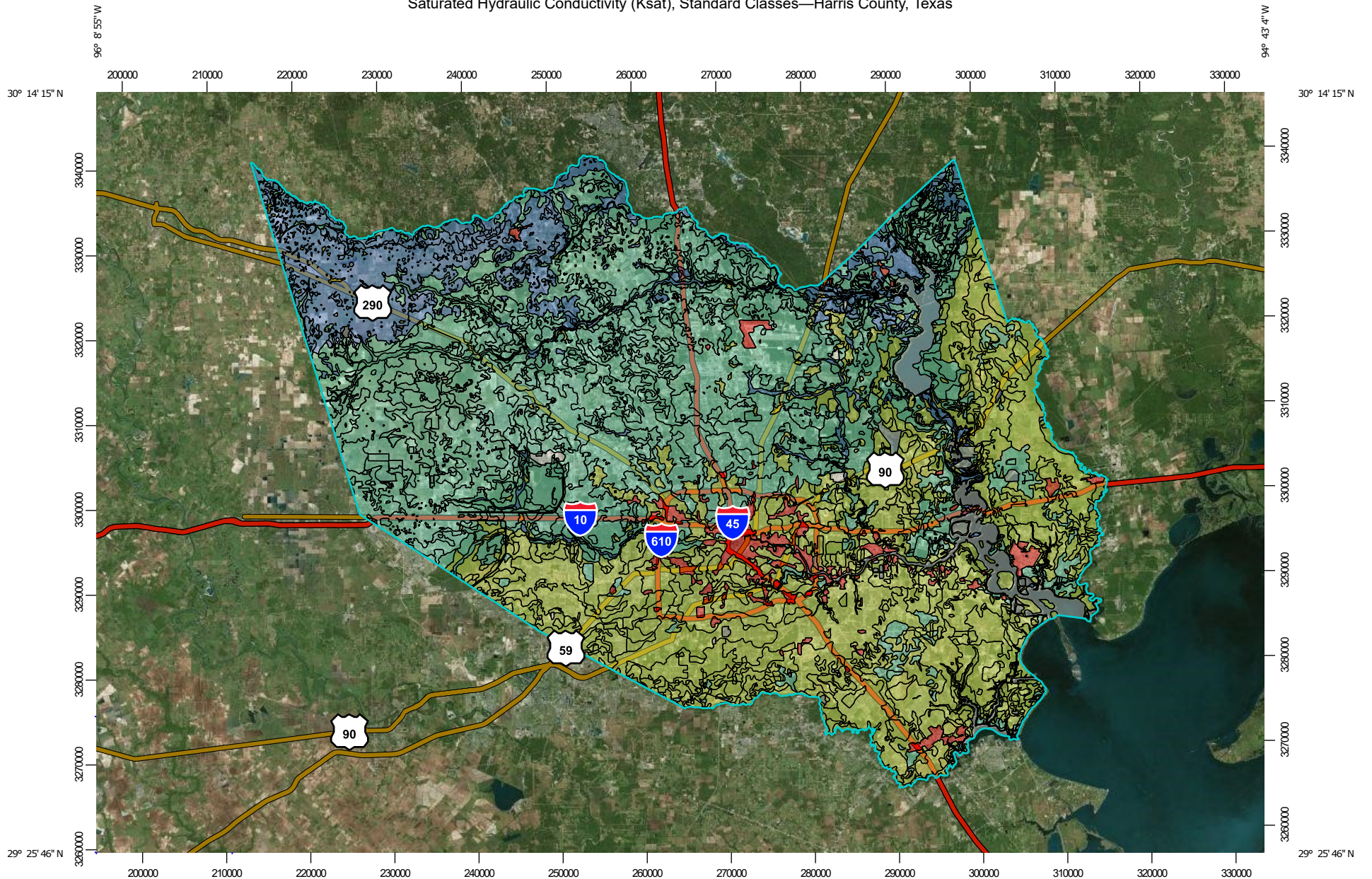


Saturated Hydraulic Conductivity (Ksat), Standard Classes—Harris County, Texas



Map Scale: 1:632,000 if printed on A landscape (11" x 8.5") sheet.






























Meters
0 5000 10000 20000 30000

Feet
0 30000 60000 120000 180000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84



MAP LEGEND

Area of Interest (AOI)	 Not rated or not available
 Area of Interest (AOI)	
Soils	Water Features
Soil Rating Polygons	 Streams and Canals
 Very Low (0.0 - 0.01)	Transportation
 Low (0.01 - 0.1)	 Rails
 Moderately Low (0.1 - 1)	 Interstate Highways
 Moderately High (1 - 10)	 US Routes
 High (10 - 100)	 Major Roads
 Very High (100 - 705)	 Local Roads
 Not rated or not available	Background
Soil Rating Lines	 Aerial Photography
 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	
Soil Rating Points	
 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)	

MAP INFORMATION

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

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

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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

Soil Survey Area: Harris County, Texas
 Survey Area Data: Version 22, Jun 11, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

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

Map unit symbol	Map unit name	Rating (micrometers per second)	Acres in AOI	Percent of AOI
Ad	Addicks loam, 0 to 1 percent slopes	9.0000	9,757.4	0.9%
Ak	Addicks-Urban land complex, 0 to 1 percent slopes	9.0000	49,400.4	4.3%
An	Aldine-Urban land complex	9.0000	4,833.8	0.4%
AnhA	Anahuac-Aris complex, 0 to 1 percent slopes	2.0000	2,388.4	0.2%
Ap	Cyfair fine sandy loam, 0 to 1 percent slopes	6.0000	2,898.2	0.3%
Ar	Cyfair-Katy complex, 0 to 1 percent slopes	6.0000	14,797.2	1.3%
ArlA	Aris loam, 0 to 1 percent slopes	0.2000	917.5	0.1%
As	Aris-Urban land complex, 0 to 1 percent slopes	0.2000	18,274.4	1.6%
AtaC	Atasco fine sandy loam, 2 to 5 percent slopes	9.0000	9,219.3	0.8%
AtuC	Atasco-Urban land complex, 2 to 5 percent slopes	9.0000	1,639.7	0.1%
BacA	Bacliff clay, 0 to 1 percent slopes	1.0000	10,450.0	0.9%
BadA	Bacliff-Urban land complex, 0 to 1 percent slopes	1.0000	15,372.1	1.4%
BatA	Batson very fine sandy loam, 0 to 1 percent slopes	20.0000	143.9	0.0%
Bd	Bernard clay loam, 0 to 1 percent slopes	0.2000	32,919.8	2.9%
Be	Bernard-Edna complex, 0 to 1 percent slopes	0.2000	34,601.2	3.0%
BeaA	Beaumont clay, 0 to 1 percent slopes	0.2000	16,607.7	1.5%
BecA	Beaumont-Urban land complex, 0 to 1 percent slopes	0.2000	5,972.6	0.5%
BelB	Belrose loamy fine sand, 0 to 3 percent slopes	56.0000	29.2	0.0%

Map unit symbol	Map unit name	Rating (micrometers per second)	Acres in AOI	Percent of AOI
BemA	Belrose-Caneyhead frequently ponded complex, 0 to 1 percent slopes	56.0000	470.7	0.0%
BeuB	Belrose-Urban land complex, 0 to 3 percent slopes	56.0000	85.1	0.0%
BevA	Bevil clay, 0 to 1 percent slopes	0.4000	2,204.9	0.2%
Bg	Bernard-Urban land complex	1.0000	32,560.6	2.9%
BisA	Bissonnet loam, 0 to 1 percent slopes	9.0000	10,105.3	0.9%
BitA	Bissonnet-Aldine complex, 0 to 1 percent slopes	9.0000	1,901.6	0.2%
BiuA	Bissonnet-Urban land complex, 0 to 1 percent slopes	9.0000	826.3	0.1%
BoyC	Boy loamy fine sand, 1 to 5 percent slopes	42.0000	3,816.3	0.3%
BozA	Boy-Urban land complex, 0 to 1 percent slopes	42.0000	649.9	0.1%
CamA	Camptown silt loam, 0 to 1 percent slopes, frequently ponded	0.4200	20.6	0.0%
Cd	Clodine fine sandy loam, 0 to 1 percent slopes	4.0000	15,556.2	1.4%
Ce	Clodine-Urban land complex, 0 to 1 percent slopes	4.0000	94,216.6	8.3%
CP	Pits, clay		20.4	0.0%
CyuA	Cyfair-Urban land complex, 0 to 1 percent slopes	6.0000	60,097.9	5.3%
DAM	Dams		1,585.1	0.1%
DyIC	Dylan clay, 3 to 5 percent slopes	0.2100	5,063.0	0.4%
DynC	Dylan-Urban land complex, 3 to 5 percent slopes	0.2100	96.7	0.0%
Ed	Edna loam, 0 to 1 percent slopes	0.6000	3,903.4	0.3%
GarA	Garwood fine sandy loam, 0 to 1 percent slopes	8.0000	91.2	0.0%

Map unit symbol	Map unit name	Rating (micrometers per second)	Acres in AOI	Percent of AOI
Ge	Gessner loam, 0 to 1 percent slopes, frequently ponded	2.7000	594.0	0.1%
GP	Pits, gravel		90.9	0.0%
Gs	Clodine-Warrenlake complex, 0 to 1 percent slopes	4.0000	9,330.9	0.8%
Gu	Gessner occasionally ponded-Urban land complex, 0 to 1 percent slopes	9.0000	22,915.9	2.0%
HarA	Harris clay, 0 to 1 percent slopes, frequently flooded, tidal	0.0200	697.8	0.1%
HatA	Hatliff-Pluck-Kian complex, 0 to 1 percent slopes, frequently flooded	28.0000	14,010.5	1.2%
HoA	Hockley fine sandy loam, 0 to 1 percent slopes	28.0000	7,666.6	0.7%
HoB	Hockley loamy fine sand, 1 to 3 percent slopes	28.0000	8,926.8	0.8%
ljmB	ljam clay, 0 to 2 percent slopes, frequently flooded, tidal	0.2100	8,239.3	0.7%
IND	Urban land, industrial dump		506.2	0.0%
KanA	Kaman clay, 0 to 1 percent slopes, frequently flooded	0.2100	3,045.0	0.3%
KauA	Katy-Urban land complex, 0 to 1 percent slopes	9.0000	34,601.6	3.0%
KefB	Kenefick very fine sandy loam, 0 to 3 percent slopes	10.0000	1,680.3	0.1%
KenA	Kenefick-Caneyhead frequently ponded complex, 0 to 1 percent slopes	10.0000	758.9	0.1%
KeuA	Kenefick-Urban land complex, 0 to 1 percent slopes	10.0000	916.6	0.1%
Kf	Katy fine sandy loam, 0 to 1 percent slopes	9.0000	24,410.8	2.1%
Kn	Kenney loamy fine sand, 0 to 2 percent slopes	92.0000	8,090.4	0.7%

Map unit symbol	Map unit name	Rating (micrometers per second)	Acres in AOI	Percent of AOI
Ku	Kenney-Urban land complex	92.0000	1,050.4	0.1%
LabA	Labelle clay loam, 0 to 1 percent slopes	0.2000	8,855.1	0.8%
LAFX	Landfill		690.6	0.1%
LalA	Labelle-Levac complex, 0 to 1 percent slopes	0.6000	2,892.5	0.3%
LauA	Labelle-Urban land complex, 0 to 1 percent slopes	0.2000	8,861.2	0.8%
LcA	Lake Charles clay, 0 to 1 percent slopes	0.5000	62,435.6	5.5%
LeaA	League clay, 0 to 1 percent slopes	0.2100	30,902.1	2.7%
LehA	League-Urban land complex, 0 to 1 percent slopes	0.2100	2,896.1	0.3%
LelA	Lelavale silt loam, 0 to 1 percent slopes, frequently ponded	4.0000	13.6	0.0%
LetA	Leton loam, 0 to 1 percent slopes, occasionally flooded, frequently ponded	0.2000	791.4	0.1%
Lu	Lake Charles-Urban land complex	0.2100	59,469.5	5.2%
Md	Verland silty clay loam	1.0000	15,145.5	1.3%
MoaA	Mocarey-Algoa complex, 0 to 1 percent slopes	2.0000	7,651.5	0.7%
ModA	Mocarey-Urban land complex, 0 to 1 percent slopes	2.0000	14,705.2	1.3%
MofA	Mocarey-Yeaton complex, 0 to 1 percent slopes	2.0000	5,113.5	0.4%
Mu	Verland-Urban land complex, 0 to 1 percent slopes	1.0000	14,595.8	1.3%
OrcB	Orcadia silt loam, 0 to 2 percent slopes	0.6000	430.2	0.0%
OWLX	Oil waste land	71.0000	131.0	0.0%
PITX	Pits		1,660.3	0.1%
SeB	Mockley fine sandy loam, 1 to 3 percent slopes	28.0000	5,077.8	0.4%
SegB	Segno fine sandy loam, 1 to 3 percent slopes	9.0000	2,448.7	0.2%

Map unit symbol	Map unit name	Rating (micrometers per second)	Acres in AOI	Percent of AOI
SegC	Segno fine sandy loam, 3 to 5 percent slopes	9.0000	213.7	0.0%
SeuB	Segno-Urban land complex, 1 to 3 percent slopes	9.0000	10,584.9	0.9%
SnkA	Snakecreek fine sandy loam, 0 to 1 percent slopes, frequently flooded	5.0000	3,960.2	0.3%
SnlA	Snakecreek fine sandy loam, 0 to 1 percent slopes, occasionally flooded	5.0000	1,884.7	0.2%
SolA	Sorter silt loam, 0 to 1 percent slopes	10.0000	8,791.1	0.8%
SosA	Sorter-Tarkington complex, 0 to 1 percent slopes	42.0000	2,655.9	0.2%
SouA	Sorter-Urban land complex, 0 to 1 percent slopes	42.0000	6,554.3	0.6%
SplB	Splendora fine sandy loam, 0 to 2 percent slopes	9.0000	1,239.8	0.1%
SpmA	Splendora-Urban land complex, 0 to 2 percent slopes	9.0000	26,370.9	2.3%
TelB	Texla silt loam, 0 to 2 percent slopes	9.0000	17,648.3	1.6%
TeuB	Texla-Urban land complex, 0 to 2 percent slopes	9.0000	20,204.4	1.8%
TomA	Tomball loam, 0 to 1 percent slopes, frequently ponded	0.4200	4,428.7	0.4%
URLX	Urban land	0.0050	29,300.0	2.6%
VamA	Vamont clay, 0 to 1 percent slopes	0.4000	2,707.9	0.2%
VauA	Vamont-Urban land complex, 0 to 1 percent slopes	0.4000	5,806.8	0.5%
VirA	Viterbo silty clay loam, 0 to 1 percent slopes	0.2000	8,119.1	0.7%
VorA	Voss sand, 0 to 1 percent slopes, occasionally flooded	100.0000	3,930.2	0.3%
VosA	Voss sand, 0 to 1 percent slopes, rarely flooded	100.0000	172.1	0.0%
W	Water		37,837.8	3.3%

Map unit symbol	Map unit name	Rating (micrometers per second)	Acres in AOI	Percent of AOI
WalA	Waller silt loam, 0 to 1 percent slopes	3.0000	21.3	0.0%
WarA	Waller-Dallardsville complex, 0 to 1 percent slopes	3.0000	5.1	0.0%
WatA	Waller-Tarkington complex, 0 to 1 percent slopes	3.0000	966.9	0.1%
WauA	Waller-Urban land complex, 0 to 1 percent slopes	3.0000	1,192.8	0.1%
WesA	Westcott very fine sandy loam, 0 to 1 percent slopes	25.0000	767.3	0.1%
WetA	Westcott-Plumgrove complex, 0 to 1 percent slopes	10.0000	443.8	0.0%
WeuA	Westcott-Urban land complex, 0 to 1 percent slopes	25.0000	637.6	0.1%
Wo	Wockley fine sandy loam, 0 to 1 percent slopes	2.7000	22,636.3	2.0%
Wy	Wockley-Urban land complex	28.0000	62,014.0	5.5%
Totals for Area of Interest			1,136,890.8	100.0%

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: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Fastest

Interpret Nulls as Zero: No

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)