

	A	B	C	D	E	F	G
1	Row	Name	Alias	Data Type (ESRI FGDB)	Width	Description	Source
2	1	OBJECTID	OBJECTID	OID	4	Internal feature number. Sequential unique whole numbers that are automatically generated.	ESRI
3	2	aws0_5	aws0_5	Single	4	Available water storage estimate (AWS) in a standard zone 1 (0-5 cm depth), expressed in mm. The volume of plant available water that the soil can store in this layer based on all map unit components (weighted average). NULL values are presented where data are incomplete or not available.	USDA-NRCS
4	3	aws5_20	aws5_20	Single	4	Available water storage estimate (AWS) in standard layer 2 (5-20 cm depth), expressed in mm. The volume of plant available water that the soil can store in this layer based on all map unit components (weighted average). NULL values are presented where data are incomplete or not available.	USDA-NRCS
5	4	aws20_50	aws20_50	Single	4	Available water storage estimate (AWS) in standard layer 3 (20-50 cm depth), expressed in mm. The volume of plant available water that the soil can store in this layer based on all map unit components (weighted average). NULL values are presented where data are incomplete or not available.	USDA-NRCS
6	5	aws50_100	aws50_100	Single	4	Available water storage estimate (AWS) in standard layer 3 (50-100 cm depth), expressed in mm. The volume of plant available water that the soil can store in this layer based on all map unit components (weighted average). NULL values are presented where data are incomplete or not available.	USDA-NRCS
7	6	aws100_150	aws100_150	Single	4	Available water storage estimate (AWS) in standard layer 5 (100-150 cm depth), expressed in mm. The volume of plant available water that the soil can store in this layer based on all map unit components (weighted average). NULL values are presented where data are incomplete or not available.	USDA-NRCS
8	7	aws150_999	aws150_999	Single	4	Available water storage estimate (AWS) in standard layer 6 (150 cm to the reported depth of the soil profile), expressed in mm. The volume of plant available water that the soil can store in this layer based on all map unit components (weighted average). NULL values are presented where data are incomplete or not available.	USDA-NRCS
9	8	aws0_20	aws0_20	Single	4	Available water storage estimate (AWS) in standard zone 2 (0-20 cm depth), expressed in mm. The volume of plant available water that the soil can store in this zone based on all map unit components (weighted average). NULL values are presented where data are incomplete or not available.	USDA-NRCS
10	9	aws0_30	aws0_30	Single	4	Available water storage estimate (AWS) in standard zone 3 (0-30 cm depth), expressed in mm. The volume of plant available water that the soil can store in this zone based on all map unit components (weighted average). NULL values are presented where data are incomplete or not available.	USDA-NRCS
11	10	aws0_100	aws0_100	Single	4	Available water storage estimate (AWS) in standard zone 4 (0-100 cm depth), expressed in mm. The volume of plant available water that the soil can store in this zone based on all map unit components (weighted average). NULL values are presented where data are incomplete or not available.	USDA-NRCS
12	11	aws0_150	aws0_150	Single	4	Available water storage estimate (AWS) in standard zone 5 (0-150 cm depth), expressed in mm. The volume of plant available water that the soil can store in this zone based on all map unit components (weighted average). NULL values are presented where data are incomplete or not available.	USDA-NRCS

	A	B	C	D	E	F	G
1	Row	Name	Alias	Data Type (ESRI FGDB)	Width	Description	Source
13	12	aws0_999	aws0_999	Single	4	Available water storage estimate (AWS) in total soil profile (0 cm to the reported depth of the soil profile), expressed in mm. The volume of plant available water that the soil can store in this layer based on all map unit components (weighted average). NULL values are presented where data are incomplete or not available.	USDA-NRCS
14	13	tk0_5a	tk0_5a	Single	4	Thickness of soil components used in standard layer 1 or standard zone 1 (0-5 cm) expressed in cm (weighted average) for the available water storage calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
15	14	tk5_20a	tk5_20a	Single	4	Thickness of soil components used in standard layer 2 (5-20 cm) expressed in cm (weighted average) for the available water storage calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
16	15	tk20_50a	tk20_50a	Single	4	Thickness of soil components used in standard layer 3 (20-50 cm) expressed in cm (weighted average) for the available water storage calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
17	16	tk50_100a	tk50_100a	Single	4	Thickness of soil components used in standard layer 4 (50-100 cm) expressed in cm (weighted average) for the available water storage calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
18	17	tk100_150a	tk100_150a	Single	4	Thickness of soil components used in standard layer 5 (100-150 cm) expressed in cm (weighted average) for the available water storage calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
19	18	tk150_999a	tk150_999a	Single	4	Thickness of soil components used in standard layer 6 (150 cm to the reported depth of the soil profile) expressed in cm (weighted average) for the available water storage calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
20	19	tk0_20a	tk0_20a	Single	4	Thickness of soil components used in standard zone 2 (0-20 cm) expressed in cm (weighted average) for the available water storage calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
21	20	tk0_30a	tk0_30a	Single	4	Thickness of soil components used in standard zone 3 (0-30 cm) expressed in cm (weighted average) for the available water storage calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
22	21	tk0_100a	tk0_100a	Single	4	Thickness of soil components used in standard zone 4 (0-100 cm) expressed in cm (weighted average) for the available water storage calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
23	22	tk0_150a	tk0_150a	Single	4	Thickness of soil components used in standard zone 5 (0-150 cm) expressed in cm (weighted average) for the available water storage calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS

	A	B	C	D	E	F	G
1	Row	Name	Alias	Data Type (ESRI FGDB)	Width	Description	Source
24	23	tk0_999a	tk0_999a	Single	4	Thickness of soil components used in total soil profile (0 cm to the reported depth of the soil profile) expressed in cm (weighted average) for the available water storage calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
25	24	musumcpcta	musumcpcta	SmallInteger	2	The sum of the compct_r (SSURGO component table) values used in the available water storage calculation for the map unit. Useful metadata information. NULL values are presented where data are incomplete or not available.	USDA-NRCS
26	25	soc0_5	soc0_5	Single	4	Soil organic carbon stock estimate (SOC) in standard layer 1 or standard zone 1 (0-5 cm depth). The concentration of organic carbon present in the soil expressed in grams C per square meter to a depth of 5 cm. NULL values are presented where data are incomplete or not available.	USDA-NRCS
27	26	soc5_20	soc5_20	Single	4	Soil organic carbon stock estimate (SOC) in standard layer 2 (5-20 cm depth). The concentration of organic carbon present in the soil expressed in grams C per square meter for the 5-20 cm layer. NULL values are presented where data are incomplete or not available.	USDA-NRCS
28	27	soc20_50	soc20_50	Single	4	Soil organic carbon stock estimate (SOC) in standard layer 3 (20-50 cm depth). The concentration of organic carbon present in the soil expressed in grams C per square meter for the 20-50 cm layer. NULL values are presented where data are incomplete or not available.	USDA-NRCS
29	28	soc50_100	soc50_100	Single	4	Soil organic carbon stock estimate (SOC) in standard layer 4 (50-100 cm depth). The concentration of organic carbon present in the soil expressed in grams C per square meter for the 50-100 cm layer. NULL values are presented where data are incomplete or not available.	USDA-NRCS
30	29	soc100_150	soc100_150	Single	4	Soil organic carbon stock estimate (SOC) in standard layer 5 (100-150 cm depth). The concentration of organic carbon present in the soil expressed in grams C per square meter for the 100-150 cm layer. NULL values are presented where data are incomplete or not available.	USDA-NRCS
31	30	soc150_999	soc150_999	Single	4	Soil organic carbon stock estimate (SOC) in standard layer 6 (150 cm to the reported depth of the soil profile). The concentration of organic carbon present in the soil expressed in grams C per square meter for the 150 cm and greater depth layer. NULL values are presented where data are incomplete or not available.	USDA-NRCS
32	31	soc0_20	soc0_20	Single	4	Soil organic carbon stock estimate (SOC) in standard zone 2 (0-20 cm depth). The concentration of organic carbon present in the soil expressed in grams C per square meter to a depth of 20 cm. NULL values are presented where data are incomplete or not available.	USDA-NRCS
33	32	soc0_30	soc0_30	Single	4	Soil organic carbon stock estimate (SOC) in standard zone 3 (0-30 cm depth). The concentration of organic carbon present in the soil expressed in grams C per square meter to a depth of 30 cm. NULL values are presented where data are incomplete or not available.	USDA-NRCS

	A	B	C	D	E	F	G
1	Row	Name	Alias	Data Type (ESRI FGDB)	Width	Description	Source
34	33	soc0_100	soc0_100	Single	4	Soil organic carbon stock estimate (SOC) in standard zone 4 (0-100 cm depth). The concentration of organic carbon present in the soil expressed in grams C per square meter to a depth of 100 cm. NULL values are presented where data are incomplete or not available.	USDA-NRCS
35	34	soc0_150	soc0_150	Single	4	Soil organic carbon stock estimate (SOC) in standard zone 5 (0-150 cm depth). The concentration of organic carbon present in the soil expressed in grams C per square meter to a depth of 150 cm. NULL values are presented where data are incomplete or not available.	USDA-NRCS
36	35	soc0_999	soc0_999	Single	4	Soil organic carbon stock estimate (SOC) in total soil profile (0 cm to the reported depth of the soil profile). The concentration of organic carbon present in the soil expressed in grams C per square meter for the total reported soil profile depth. NULL values are presented where data are incomplete or not available.	USDA-NRCS
37	36	tk0_5s	tk0_5s	Single	4	Thickness of soil components used in standard layer 1 or standard zone 1 (0-5 cm) expressed in cm (weighted average) for the Soil Organic Carbon calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
38	37	tk5_20s	tk5_20s	Single	4	Thickness of soil components used in standard layer 2 (5-20 cm) expressed in cm (weighted average) for the Soil Organic Carbon calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
39	38	tk20_50s	tk20_50s	Single	4	Thickness of soil components used in standard layer 3 (20-50 cm) expressed in cm (weighted average) for the Soil Organic Carbon calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
40	39	tk50_100s	tk50_100s	Single	4	Thickness of soil components used in standard layer 4 (50-100 cm) expressed in cm (weighted average) for the Soil Organic Carbon calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
41	40	tk100_150s	tk100_150s	Single	4	Thickness of soil components used in standard layer 5 (100-150 cm) expressed in cm (weighted average) for the Soil Organic Carbon calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
42	41	tk150_999s	tk150_999s	Single	4	Thickness of soil components used in standard layer 6 (150 cm to the reported depth of the soil profile) expressed in cm (weighted average) for the Soil Organic Carbon calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
43	42	tk0_20s	tk0_20s	Single	4	Thickness of soil components used in standard zone 2 (0-20 cm) expressed in cm (weighted average) for the Soil Organic Carbon calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
44	43	tk0_30s	tk0_30s	Single	4	Thickness of soil components used in standard zone 3 (0-30 cm) expressed in cm (weighted average) for the Soil Organic Carbon calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS

	A	B	C	D	E	F	G
1	Row	Name	Alias	Data Type (ESRI FGDB)	Width	Description	Source
45	44	tk0_100s	tk0_100s	Single	4	Thickness of soil components used in standard zone 4 (0-100 cm) expressed in cm (weighted average) for the Soil Organic Carbon calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
46	45	tk0_150s	tk0_150s	Single	4	Thickness of soil components used in standard zone 5 (0-150 cm) expressed in cm (weighted average) for the Soil Organic Carbon calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
47	46	tk0_999s	tk0_999s	Single	4	Thickness of soil components used in total soil profile (0 cm to the reported depth of the soil profile) expressed in cm (weighted average) for the Soil Organic Carbon calculation. NULL values are presented where data are incomplete or not available.	USDA-NRCS
48	47	musumcpcts	musumcpcts	SmallInteger	2	The sum of the compct_r (SSURGO component table) values used in the soil organic carbon calculation for the map unit. Useful metadata information. NULL values are presented where data are incomplete or not available.	USDA-NRCS
49	48	nccpi3corn	nccpi3corn	Single	4	National Commodity Crop Productivity Index for Corn (weighted average) for major earthy components. Values range from .01 (low productivity) to .99 (high productivity). Earthy components are those soil series or higher level taxa components that can support crop growth (Dobos et al., 2012). Major components are those soil components where the majorcompflag = 'Yes' (SSURGO component table). NULL values are presented where data are incomplete or not available.	USDA-NRCS
50	49	nccpi3soy	nccpi3soy	Single	4	National Commodity Crop Productivity Index for Soybeans (weighted average) for major earthy components. Values range from .01 (low productivity) to .99 (high productivity). Earthy components are those soil series or higher level taxa components that can support crop growth (Dobos et al., 2012). Major components are those soil components where the majorcompflag = 'Yes' (SSURGO component table). NULL values are presented where data are incomplete or not available.	USDA-NRCS
51	50	nccpi3cot	nccpi3cot	Single	4	National Commodity Crop Productivity Index for Cotton (weighted average) for major earthy components. Values range from .01 (low productivity) to .99 (high productivity). Earthy components are those soil series or higher level taxa components that can support crop growth (Dobos et al., 2012). Major components are those soil components where the majorcompflag = 'Yes' (SSURGO component table). NULL values are presented where data are incomplete or not available.	USDA-NRCS
52	51	nccpi3sg	nccpi3sg	Single	4	National Commodity Crop Productivity Index for Small Grains (weighted average) for major earthy components. Values range from .01 (low productivity) to .99 (high productivity). Earthy components are those soil series or higher level taxa components that can support crop growth (Dobos et al., 2012). Major components are those soil components where the majorcompflag = 'Yes' (SSURGO component table). NULL values are presented where data are incomplete or not available.	USDA-NRCS

	A	B	C	D	E	F	G
1	Row	Name	Alias	Data Type (ESRI FGDB)	Width	Description	Source
53	52	nccpi3all	nccpi3all	Single	4	National Commodity Crop Productivity Index that has the highest value among Corn and Soybeans, Small Grains, or Cotton (weighted average) for major earthy components. Values range from .01 (low productivity) to .99 (high productivity). Earthy components are those soil series or higher level taxa components that can support crop growth (Dobos et al., 2012). Major components are those soil components where the majorcompflag = 'Yes' (SSURGO component table). NULL values are presented where data are incomplete or not available.	USDA-NRCS
54	53	pctearthmc	pctearthmc	SmallInteger	2	The National Commodity Crop Productivity Index map unit percent earthy is the map unit summed comppct_r for major earthy components. Earthy components are those soil series or higher level taxa components that can support crop growth (Dobos et al., 2012). Major components are those soil components where the majorcompflag = 'Yes' (SSURGO component table). Useful metadata information. NULL values are presented where data are incomplete or not available.	2012. National Commodity Crop Productivity Index (NCCPI) User Guide, Version 2. USDA-NRCS. Available at: http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_050734.pdf
55	54	rootznemc	rootznemc	SmallInteger	2	Root zone depth is the depth within the soil profile that commodity crop (cc) roots can effectively extract water and nutrients for growth. Root zone depth influences soil productivity significantly. Soil component horizon criteria for root-limiting depth include: presence of hard bedrock, soft bedrock, a fragipan, a duripan, sulfuric material, a dense layer, a layer having a pH of less than 3.5, or a layer having an electrical conductivity of more than 12 within the component soil profile. If no root-restricting zone is identified, a depth of 150 cm is used to approximate the root zone depth (Dobos et al., 2012). Root zone depth is computed for all map unit major earthy components (weighted average). Earthy components are those soil series or higher level taxa components that can support crop growth (Dobos et al., 2012). Major components are those soil components where the majorcompflag = 'Yes' (SSURGO component table). NULL values are presented where data are incomplete or not available.	Dobos, R. R., H. R. Sinclair, Jr, and M. P. Robotham. 2012. National Commodity Crop Productivity Index (NCCPI) User Guide, Version 2. USDA-NRCS. Available at: http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_050734.pdf
56	55	rootznaws	rootznaws	SmallInteger	2	Root zone (commodity crop) available water storage estimate (RZAWS) , expressed in mm, is the volume of plant available water that the soil can store within the root zone based on all map unit earthy major components (weighted average). Earthy components are those soil series or higher level taxa components that can support crop growth (Dobos et al., 2012). Major components are those soil components where the majorcompflag = 'Yes' (SSURGO component table). NULL values are presented where data are incomplete or not available.	Dobos, R. R., H. R. Sinclair, Jr, and M. P. Robotham. 2012. National Commodity Crop Productivity Index (NCCPI) User Guide, Version 2. USDA-NRCS. Available at: http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_050734.pdf
57	56	droughty	droughty	SmallInteger	2	zone for commodity crops that is less than or equal to 6 inches (152 mm) expressed as "1" for a drought vulnerable soil landscape map unit or "0" for a non-droughty soil landscape map unit or NULL for miscellaneous areas (includes water bodies) or where data were not available. It is computed as a weighted average for major earthy components. Earthy components are those soil series or higher level taxa components that can support crop growth (Dobos et al., 2012). Major components are those soil components where the majorcompflag = 'Yes'	2012. National Commodity Crop Productivity Index (NCCPI) User Guide, Version 2. USDA-NRCS. Available at: http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_050734.pdf

	A	B	C	D	E	F	G
1	Row	Name	Alias	Data Type (ESRI FGDB)	Width	Description	Source
58	57	pws1pomu	pws1pomu	SmallInteger	2	Potential Wetland Soil Landscapes (PWSL) is expressed as the percentage of the map unit that meets the PWSL criteria. The hydric rating (soil component variable "hydricrating") is an indicator of wet soils. For version 1 (pws1), those soil components that meet the following criteria are tagged as PWSL and their compct_r values are summed for each map unit. Soil components with hydricrating = 'YES' are considered PWSL. Soil components with hydricrating = "NO" are not PWSL. Soil components with hydricrating = 'UNRANKED' are tested using other attributes, and will be considered PWSL if any of the following conditions are met: drainagecl = 'Poorly drained' or 'Very poorly drained' or the localphase or the otherph data fields contain any of the phrases "drained" or "undrained" or "channeled" or "protected" or "ponded" or "flooded". If these criteria do not determine the PWSL for a component and hydricrating = 'UNRANKED', then the map unit will be classified as PWSL if the map unit name contains any of the phrases "drained" or "undrained" or "channeled" or "protected" or "ponded" or "flooded". For version 1 (pws1), waterbodies are identified as "999" when map unit names match a list of terms that identify water or intermittent water or map units have a sum of the compct_r for "Water" that is 80% or greater. NULL values are presented where data are incomplete or not available.	USDA-NRCS
59	58	musumcpct	musumcpct	SmallInteger	2	The sum of the compct_r (SSURGO component table) values for all listed components in the map unit. Useful metadata information. NULL values are presented where data are incomplete or not available.	USDA-NRCS
60	59	mukey	mukey	String	30	Map unit key is the unique identifier of a record in the Mapunit table. Use this column to join the Component table to the Mapunit table and the valu1 table to the MapUnitRaster_10m raster map layer to map valu1 themes.	USDA-NRCS