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Federal agencies, State
agencies including the
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participants

Custom Soil Resource Report for Fort Greely and Donnelly Training Area, Alaska



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Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<http://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Soil Information for All Uses

Soil Reports

The Soil Reports section includes various formatted tabular and narrative reports (tables) containing data for each selected soil map unit and each component of each unit. No aggregation of data has occurred as is done in reports in the Soil Properties and Qualities and Suitabilities and Limitations sections.

The reports contain soil interpretive information as well as basic soil properties and qualities. A description of each report (table) is included.

Land Classifications

This folder contains a collection of tabular reports that present a variety of soil groupings. The reports (tables) include all selected map units and components for each map unit. Land classifications are specified land use and management groupings that are assigned to soil areas because combinations of soil have similar behavior for specified practices. Most are based on soil properties and other factors that directly influence the specific use of the soil. Example classifications include ecological site classification, farmland classification, irrigated and nonirrigated land capability classification, and hydric rating.

Hydric Soil List - All Components

This table lists the map unit components and their hydric status in the survey area. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; Hurt and others, 2002).

The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for all of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part

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(Federal Register, 1994). These soils, under natural conditions, are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units that are dominantly made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units dominantly made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

The criteria for hydric soils are represented by codes in the table (for example, 2). Definitions for the codes are as follows:

1. All Histels except for Folistels, and Histosols except for Folists.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
 - A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
 - B. Show evidence that the soil meets the definition of a hydric soil;
3. Soils that are frequently ponded for long or very long duration during the growing season.
 - A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
 - B. Show evidence that the soil meets the definition of a hydric soil;
4. Map unit components that are frequently flooded for long duration or very long duration during the growing season that:
 - A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
 - B. Show evidence that the soil meets the definition of a hydric soil;

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Hydric Condition: Food Security Act information regarding the ability to grow a commodity crop without removing woody vegetation or manipulating hydrology.

References:

- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. Doc. 2012-4733 Filed 2-28-12. February, 28, 2012. Hydric soils of the United States.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.
- Vasilas, L.M., G.W. Hurt, and C.V. Noble, editors. Version 7.0, 2010. Field indicators of hydric soils in the United States.

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Report—Hydric Soil List - All Components

Hydric Soil List - All Components—AK683-Fort Greely and Donnelly Training Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
601: Aquic Dystrocryepts-Typic Dystrocryepts-Histels complex	Aquic Dystrocryepts-High moraines	35-45	Depressions on moraines	No	—
	Typic Dystrocryepts-High moraines	25-45	Moraines	No	—
	Histels-High moraines	15-25	Depressions on moraines	Yes	1
	Water	5-15	Lakes	Unranked	—
602: Audrey-Butchlake-Typic Aquiturbels complex, 0 to 15 percent slopes	Audrey	20-50	Hills on moraines	No	—
	Typic Aquiturbels	20-50	Hills on moraines, depressions on moraines	Yes	2
	Butchlake-Gently sloping	20-40	Hills on moraines	No	—
	Butchlake-Steep	0-10	Hills on moraines	No	—
603: Audrey-Typic Aquiturbels complex, 0 to 7 percent slopes	Audrey	75-85	Hills on moraines	No	—
	Typic Aquiturbels	10-20	Hills on moraines, depressions on moraines	Yes	2
	Butchlake	0-10	Hills on moraines	No	—
604: Babel mucky silt loam, 0 to 15 percent slopes	Babel	80-90	Hills on moraines	No	—
	Butchlake	5-15	Hills on moraines	No	—
	Typic Aquiturbels	5-10	Hills on moraines, depressions on moraines	Yes	2
605: Babel-Butchlake complex, 10 to 20 percent slopes	Babel	80-90	Hills on moraines	No	—
	Butchlake	10-20	Hills on moraines	No	—
606: Babel-Butchlake complex, 20 to 30 percent slopes	Babel	75-85	Hills on moraines	No	—
	Butchlake	10-20	Hills on moraines	No	—
	Typic Aquiturbels	5-10	Hills on moraines, depressions on moraines	Yes	2
607: Butchlake silt loam, 20 to 30 percent slopes	Butchlake	85-95	Hills on moraines	No	—
	Typic Aquiturbels	5-15	Hills on moraines, depressions on moraines	Yes	2

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Hydric Soil List - All Components--AK683-Fort Greely and Donnelly Training Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
608: Butchlake silt loam, 30 to 45 percent slopes	Butchlake	85-95	Hills on moraines	No	—
	Typic Aquiturbels-Gently sloping	0-10	Hills on moraines, depressions on moraines	Yes	2
	Typic Aquiturbels-Moderately steep	0-10	Hills on moraines, depressions on moraines	Yes	2
609: Butchlake-Nomercy Lake complex, 0 to 80 percent slopes	Butchlake-Moderately steep	35-60	Hills on moraines	No	—
	Nomercy Lake	30-40	Hills on moraines	No	—
	Typic Aquiturbels	0-10	Hills on moraines, depressions on moraines	Yes	2
	Typic Cryaquepts	0-10	Depressions on pitted outwash plains, depressions on moraines	Yes	2,3
	Butchlake-Very steep	0-10	Hills on moraines	No	—
610: Butchlake-Southpaw complex, 0 to 12 percent slopes	Butchlake-Gently sloping	40-60	Hills on moraines	No	—
	Southpaw	30-50	Hills on moraines	No	—
	Typic Aquiturbels	5-15	Hills on moraines, depressions on moraines	Yes	2
	Butchlake-Moderately steep	0-15	Hills on moraines	No	—
611: Butchlake-Southpaw complex, 0 to 35 percent slopes	Butchlake	50-70	Hills on moraines	No	—
	Southpaw	30-40	Hills on moraines	No	—
	Typic Aquiturbels	0-5	Hills on moraines, depressions on moraines	Yes	2
612: Butchlake-Southpaw complex, subalpine, 0 to 35 percent slopes	Butchlake-Strongly sloping	70-90	Hills on moraines	No	—
	Southpaw	10-30	Hills on moraines	No	—
	Butchlake-Steep	0-10	Hills on moraines	No	—
613: Chena very fine sandy loam	Chena	90-100	Stream terraces	No	—
	Jarvis	0-10	Flood plains	No	—
614: Chena very fine sandy loam, flooded	Chena	80-95	Stream terraces	No	—
	Jarvis	0-15	Flood plains	No	—
	Riverwash	0-10	Flood plains	Unranked	—

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Hydric Soil List - All Components—AK683-Fort Greely and Donnelly Training Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
615: Chetlake silt loam, 0 to 15 percent slopes	Chetlake	70-90	Hummocks on moraines	No	—
	Typic Aquiturbels	5-15	Hills on moraines, depressions on moraines	Yes	2
	Babel	0-5	Hills on moraines	No	—
	Terric Hemistels	0-10	Depressions on moraines	Yes	1,3
616: Donnelly silt loam, 0 to 3 percent slopes	Donnelly	80-100	Stream terraces	No	—
	Nenana	0-20	Stream terraces	No	—
617: Donnelly silt loam, 45 to 70 percent slopes	Donnelly-Very steep	80-90	Escarments on stream terraces	No	—
	Donnelly-Steep	10-20	Drainageways on escarpments on stream terraces	No	—
618: Donnelly-Nenana complex, 0 to 3 percent slopes	Donnelly	20-80	Stream terraces	No	—
	Nenana	20-80	Stream terraces	No	—
	Volkmar	0-5	Stream terraces	No	—
619: Gerstle-Moosehead complex, 0 to 3 percent slopes	29-Gerstle	60-70	Stream terraces	No	—
	29-Moosehead	25-35	Stream terraces	No	—
	29-Tanana	0-10	Flood plains	Yes	2,3
	29-Jarvis	0-10	Flood plains	No	—
620: Gerstle-Tanana complex, 0 to 3 percent slopes	Gerstle	80-90	Stream terraces	No	—
	Tanana	10-20	Terraces	Yes	2
621: Gravel pits	Pits-Gravel	100-100	—	Unranked	—
622: Histels, impact area	Histels-Outwash plains	100-100	Outwash plains	Yes	1
623: Histels-Orthels-Turbels association	Histels-Outwash plains	40-60	Outwash plains	Yes	1
	Orthels-Outwash plains	15-35	Outwash plains	No	—
	Turbels-Outwash plains	20-35	Outwash plains	No	—
	Typic Dystrocrepts-Outwash plains	5-10	Outwash plains	No	—
624: Histels-Orthels-Typic Dystrogelepts complex	Histels-Mountains	40-60	Mountains	Yes	1
	Orthels-Mountains	15-25	Mountains	No	—
	Typic Dystrogelepts-Mountains	15-25	Mountains	No	—
	Typic Histoturbels-Mountains	5-15	Mountains	Yes	2

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Hydric Soil List - All Components--AK683-Fort Greely and Donnelly Training Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
625: Histels-Turbels association	Turbels-High moraines	35-55	Moraines	No	—
	Histels-High moraines	35-55	Till plains,moraines	Yes	1
	Orthels-High moraines	5-15	Moraines	No	—
626: Histels-Typic Cryaquepts-Typic Dystrocryepts complex	Histels-High moraines	50-65	Till plains,moraines	Yes	1
	Typic Cryaquepts-High moraines	15-25	Moraines	Yes	2
	Typic Dystrocryepts-High moraines	15-25	Moraines	No	—
	Typic Haplothels-High moraines	5-15	Moraines	No	—
627: Histels-Typic Histoturbels-Typic Historthels complex	Typic Histoturbels-River valleys	25-35	Terraces	Yes	2
	Histels-River valleys	25-35	Terraces	Yes	1
	Typic Historthels-River valleys	15-30	Alluvial fans,stream terraces	Yes	2
	Typic Aquiturbels-River valleys	5-10	Outwash plains	Yes	2
	Typic Dystrocryepts-River valleys	0-5	Outwash plains	No	—
	Typic Cryofluvents-River valleys	5-10	Terraces	No	—
628: Humic Dystrocryepts-Aquic Umbrorthels complex	Humic Dystrocryepts-High moraines	40-60	Moraines	No	—
	Aquic Umbrorthels-High moraines	30-50	Moraines	Yes	2
	Typic Dystrocryepts-High moraines	5-15	Moraines	No	—
629: Jarvis very fine sandy loam	Jarvis	70-95	Flood plains	No	—
	Salchaket	5-15	Flood plains	No	—
	Chena	0-10	Stream terraces	No	—
	Tanana	0-10	Terraces	Yes	2
630: Jarvis very fine sandy loam, flooded	29-Jarvis-Occasionally flooded	80-95	Flood plains	No	—
	29-Riverwash	0-20	Flood plains	Unranked	—
	29-Salchaket-Occasionally flooded	0-10	Flood plains on alluvial fans	No	—
631: Jarvis-Chena complex	Jarvis	50-60	Flood plains	No	—
	Chena	30-50	Stream terraces	No	—
	Salchaket	0-10	Flood plains	No	—
	Tanana	0-5	Terraces	Yes	2
632: Jarvis-Chena complex, flooded	Chena	45-55	Stream terraces	No	—
	Jarvis	40-50	Flood plains	No	—
	Riverwash	0-10	Flood plains	Unranked	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
633: Jarvis-Salchaket complex	Jarvis	45-65	Flood plains	No	—
	Salchaket	30-55	Flood plains	No	—
	Chena	3-5	Stream terraces	No	—
	Tanana	3-5	Terraces	Yes	2
634: Lithic Cryofolists-Typic Cryorthents-Typic Dystrogelepts complex	Typic Cryorthents-Mountains	25-35	Mountains	No	—
	Lithic Cryofolists-Mountains	25-50	Mountains	No	—
	Typic Dystrogelepts-Mountains	15-20	Mountains	No	—
	Typic Histoturbels-Mountains	20-30	Mountains	Yes	2
	Rock outcrop and Rubble land	0-25	Mountains	Unranked	—
635: McKinley stony mucky silt loam, 12 to 20 percent slopes	McKinley-Moderately steep	85-95	Hills	No	—
	McKinley-Steep	5-15	Hills	No	—
636: McKinley stony mucky silt loam, 40 to 70 percent slopes	McKinley-Very steep	80-95	Hills	No	—
	Typic Eutrocryepts	5-15	Hills	No	—
	McKinley-Steep	0-10	Hills	No	—
637: Moosehead fine sandy loam, 0 to 3 percent slopes	Moosehead	85-95	Stream terraces	No	—
	Gerstle	5-15	Stream terraces	No	—
638: Mosquito peat	Mosquito	70-90	Depressions on alluvial flats	Yes	2,3
	Tanana	5-10	Terraces	Yes	2
	Terric Hemistels	5-15	Depressions on moraines	Yes	1,3
639: Nenana silt loam, 0 to 3 percent slopes	Nenana	75-95	Stream terraces	No	—
	Donnelly	5-15	Stream terraces	No	—
	Volkmar	0-10	Stream terraces	No	—
640: Nenana-Donnelly complex, hilly	Nenana	55-85	Stream terraces	No	—
	Donnelly	10-20	Stream terraces	No	—
	Typic Aquiturbels	5-15	Hills on moraines, depressions on moraines	Yes	2
	Water	0-10	Lakes	Unranked	—
	Volkmar	0-10	Stream terraces	No	—

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Hydric Soil List - All Components—AK683-Fort Greely and Donnelly Training Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
641: Nenana-Donnelly complex, rolling	Nenana	70-85	Stream terraces	No	—
	Donnelly	10-20	Stream terraces	No	—
	Volkmar	0-15	Stream terraces	No	—
642: Nenana-Urban Land complex, 0 to 3 percent slopes	Nenana	55-65	Stream terraces	No	—
	Urban land	25-35	—	Unranked	—
	Typic Cryorthents	5-15	Flood plains,terraces	No	—
643: Ninchuun silt loam, 0 to 15 percent slopes	Ninchuun	75-90	Moraines	Yes	2
	Audrey	5-20	Hills on moraines	No	—
	Typic Aquiturbels	5-10	Hills on moraines,depressions on moraines	Yes	2
	Typic Cryaquepts	0-5	Depressions on pitted outwash plains,depressions on moraines	Yes	2,3
	Ninchuun-Steep	0-5	Moraines	Yes	2
644: Ninchuun-Audrey complex, 0 to 7 percent slopes	Ninchuun	30-60	Moraines	Yes	2
	Audrey	30-60	Hills on moraines	No	—
	Typic Aquiturbels	5-10	Hills on moraines,depressions on moraines	Yes	2
	Southpaw	0-10	Hills on moraines	No	—
645: Ninchuun-Audrey complex, 0 to 35 percent slopes	Ninchuun	70-85	Moraines	Yes	2
	Audrey	10-20	Hills on moraines	No	—
	Typic Aquiturbels	5-15	Hills on moraines,depressions on moraines	Yes	2
	Nomercy Lake	30-40	Hills on moraines	No	—
646: Nomercy Lake-Butchlake-Water complex, 0 to 35 percent slopes	Butchlake	20-30	Hills on moraines	No	—
	Water	10-30	Lakes	Unranked	—
	Typic Cryaquepts	5-10	Depressions on pitted outwash plains,depressions on moraines	Yes	2,3
	Typic Aquiturbels	5-10	Hills on moraines,depressions on moraines	Yes	2
	Butchlake-Very steep	3-10	Hills on moraines	No	—
	Terric Hemistels	0-2	Depressions on moraines	Yes	1,3

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Hydric Soil List - All Components—AK683-Fort Greely and Donnelly Training Area, Alaska						
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)	
647: Riverwash	Riverwash	100-100	Flood plains	Unranked	—	
648: Salchaket very fine sandy loam	Salchaket	80-95	Flood plains	No	—	
	Jarvis	5-10	Flood plains	No	—	
	Chena	0-10	Stream terraces	No	—	
	Tanana	0-5	Terraces	Yes	2	
649: Salchaket very fine sandy loam, flooded	Salchaket	85-100	Flood plains	No	—	
	Riverwash	0-10	Flood plains	Unranked	—	
	Jarvis	0-10	Flood plains	No	—	
	Tanacross	80-95	Alluvial flats	Yes	2	
650: Tanacross peat	Jarvis	0-20	Flood plains	No	—	
	Tanana	0-10	Terraces	Yes	2	
	Tanana	80-95	Terraces	Yes	2	
	Jarvis	0-10	Flood plains	No	—	
651: Tanana silt loam	Tanacross	0-5	Alluvial flats	Yes	2	
	Salchaket	0-5	Flood plains	No	—	
	Terric Fibristels-Ruptic-Histic Aquiturbels-Typic Aquiturbels complex	Terric Fibristels-River valleys	35-45	Terraces	Yes	1
	Ruptic-Histic Aquiturbels-River valleys	35-45	Outwash plains	Yes	2	
652: Terric Fibristels-Ruptic-Histic Aquiturbels-Typic Aquiturbels complex	Typic Aquiturbels-River valleys	5-15	Outwash plains	Yes	2	
	Typic Histoturbels-River valleys	0-5	Outwash plains	Yes	2	
	Terric Fibristels-Moraines	50-70	Moraines	Yes	1	
	Typic Histoturbels-Moraines	15-30	Moraines	Yes	2	
653: Terric Fibristels-Typic Histoturbels, complex	Typic Aquiturbels-Moraines	5-20	Moraines	No	—	
	Terric Hemistels	90-100	Depressions on moraines	Yes	1,3	
	Typic Aquiturbels	0-10	Hills on moraines, depressions on moraines	Yes	2	
654: Terric Hemistels, 0 to 3 percent slopes	Terric Hemistels	30-85	Depressions on moraines	Yes	1,3	
	Water	0-80	Lakes	Unranked	—	
	Typic Aquiturbels	10-40	Hills on moraines, depressions on moraines	Yes	2	
	Audrey	0-10	Hills on moraines	No	—	

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Hydric Soil List - All Components—AK683-Fort Greely and Donnelly Training Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
656: Tetlin silt loam, 12 to 20 percent slopes	Tetlin-Moderately steep	95-100	Hills	Yes	2
	Tetlin-Steep	0-10	Hills	Yes	2
657: Tetlin silt loam, hilly	Tetlin	95-100	Hills	Yes	2
	Richardson	0-5	Escarpments on stream terraces	No	—
658: Tetlin silt loam, steep	Tetlin	95-100	Hills	Yes	2
	Richardson	0-5	Escarpments on stream terraces	No	—
659: Trident Glacier	Glacier	100-100	Mountains	Unranked	—
660: Turbels-Tetlin complex, 7 to 12 percent slopes	Turbels	80-90	Hills	No	—
	Tetlin	10-20	Hills	Yes	2
661: Turbels silt loam, 12 to 20 percent slopes	Turbels-Moderately steep	75-95	Hills	No	—
	Typic Eutrocryepts	5-15	Hills	No	—
	Turbels-Steep	5-15	Hills	No	—
662: Turbels silt loam, 20 to 30 percent slopes	Turbels-Steep	80-95	Hills	No	—
	Turbels-Moderately steep	5-15	Hills	No	—
	Typic Eutrocryepts	0-5	Hills	No	—
663: Turbels silt loam, 30 to 45 percent slopes	Turbels-Very steep	80-95	Hills	No	—
	Turbels-Steep	5-15	Hills	No	—
	Typic Eutrocryepts	0-5	Hills	No	—
664: Turbels-Aquic Dystrocryepts-Water association	Turbels-Mountains	50-80	Moraines	No	—
	Aquic Dystrocryepts-Mountains	10-25	Moraines	No	—
	Water	10-20	Lakes	Unranked	—
	Humic Dystrocryepts-Mountains	0-10	Mountains	No	—
665: Turbels-Typic Dystrogelepts-Ruptic-Histic Aquiturbels complex	Turbels-Mountains	50-65	Moraines	No	—
	Typic Dystrogelepts-Mountains	15-30	Mountains	No	—
	Ruptic-Histic Aquiturbels-Mountains	10-20	Mountains	Yes	2
	Lithic Cryofolists-Mountains	0-10	Mountains	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
666: Typic Aquiturbels, 0 to 7 percent slopes	Typic Aquiturbels	85-95	Hills on moraines, depressions on moraines	Yes	2
	Audrey	0-10	Hills on moraines	No	—
	Terric Hemistels	0-5	Depressions on moraines	Yes	1,3
667: Typic Aquiturbels, 0 to 20 percent slopes	Typic Aquiturbels	85-95	Hills on moraines, depressions on moraines	Yes	2
	Butchlake	5-15	Hills on moraines	No	—
668: Typic Aquiturbels, subalpine, 0 to 7 percent slopes	Typic Aquiturbels-Gently sloping	90-100	Hills on moraines, depressions on moraines	Yes	2
	Terric Hemistels	0-10	Depressions on moraines	Yes	1,3
	Typic Aquiturbels-Strongly sloping	0-10	Hills on moraines, depressions on moraines	Yes	2
669: Typic Aquiturbels-Butchlake-Southpaw complex, 0 to 35 percent slopes	Typic Aquiturbels	30-50	Hills on moraines, depressions on moraines	Yes	2
	Butchlake	20-45	Hills on moraines	No	—
	Southpaw	15-30	Hills on moraines	No	—
	Water	5-10	Lakes	Unranked	—
670: Typic Aquiturbels-Terric Hemistels complex, 0 to 3 percent slopes	Typic Aquiturbels	75-85	Hills on moraines, depressions on moraines	Yes	2
	Terric Hemistels	15-25	Depressions on moraines	Yes	1,3
671: Typic Aquiturbels-Terric Hemistels complex, 0 to 20 percent slopes	Typic Aquiturbels	80-100	Hills on moraines, depressions on moraines	Yes	2
	Terric Hemistels	0-20	Depressions on moraines	Yes	1,3
	Water	0-20	Lakes	Unranked	—
	Typic Cryaquepts	0-10	Depressions on pitted outwash plains, depressions on moraines	Yes	2,3
	Southpaw	0-10	Hills on moraines	No	—
672: Typic Aquiturbels-Typic Dystrocryepts complex	Typic Aquiturbels-Ridges	60-80	Flood plains	Yes	2
	Typic Dystrocryepts-Ridges	10-25	Outwash plains	No	—
	Typic Histoturbels-Ridges	5-10	Hills	Yes	2

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
673: Typic Aquiturbels-Typic Dystrocryepts-Typic Haploturbels complex	Typic Aquiturbels-Moraines	30-50	Moraines	No	—
	Typic Dystrocryepts-Moraines	25-35	Moraines	No	—
	Typic Haploturbels-Moraines	15-25	Moraines	No	—
	Typic Histoturbels-Moraines	0-5	Moraines	Yes	2
	Terric Fibristels-Moraines	0-5	Moraines	Yes	1
674: Typic Aquiturbels-Typic Histoturbels association	Typic Aquiturbels-River valleys	35-55	Outwash plains	Yes	2
	Typic Histoturbels-River valleys	30-50	Outwash plains	Yes	2
	Ruptic-Histic Aquiturbels-River valleys	10-15	Outwash plains	Yes	2
675: Typic Aquorthels-Typic Histoturbels complex	Typic Aquorthels-Mountains	20-40	Mountains	Yes	2
	Typic Histoturbels-Mountains	20-40	Till plains,outwash plains	Yes	2
	Typic Cryofluvents-Mountains	5-15	Flood plains	No	—
	Histels-Mountains	5-10	Mountains	Yes	1
	Typic Haploorthels-Mountains	10-15	Mountains	No	—
676: Typic Cryaquepts, 0 to 3 percent slopes	Typic Cryaquepts	60-95	Depressions on pitted outwash plains,depressions on moraines	Yes	2,3
	Water	0-40	Lakes	Unranked	—
	Typic Aquiturbels	0-15	Hills on moraines,depressions on moraines	Yes	2
677: Typic Cryofluvents	Typic Cryofluvents-River valleys	100-100	Terraces	No	—
678: Typic Cryofluvents-Histels-Typic Haploturbels association	Typic Cryofluvents-River valleys	30-50	Flood plains	No	—
	Typic Haploturbels-River valleys	20-40	Hills	No	—
	Histels-River valleys	20-40	Terraces	Yes	1
679: Typic Cryofluvents-Typic Dystrocryepts complex	Typic Cryofluvents-River valleys	30-50	Flood plains	No	—
	Typic Dystrocryepts-River valleys	30-50	Flood plains	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Typic Historthels-River valleys	5-15	Alluvial fans,stream terraces	Yes	2
	Histels-River valleys	0-5	Terraces	Yes	1
680: Typic Cryofluvents-Typic Dystrocryepts-Typic Histoturbels complex	Typic Cryofluvents-River valleys	30-55	Flood plains	No	—
	Typic Dystrocryepts-River valleys	40-60	Flood plains	No	—
	Typic Histoturbels-River valleys	5-10	Flood plains	Yes	2
681: Typic Dystrocryepts-Ruptic-Histic Aquiturbels complex	Typic Dystrocryepts-Ridges	45-65	Ridges	No	—
	Ruptic-Histic Aquiturbels-Ridges	30-45	Hills,ridges	Yes	2
	Typic Historthels-Ridges	5-10	Ridges	Yes	2
	Aquic Dystrocryepts-Ridges	0-5	Moraines	No	—
682: Typic Dystrocryepts-Turbels-Water complex, high moraines	Typic Dystrocryepts-High moraines	35-45	Moraines	No	—
	Turbels-High moraines	15-30	Moraines	No	—
	Water	15-40	Lakes	Unranked	—
	Typic Cryaquepts-High moraines	0-10	Drainageways on moraines,depressions on moraines	Yes	2
	Histels-High moraines	0-10	Till plains,moraines	Yes	1
683: Typic Dystrocryepts-Turbels-Water complex, moraines	Typic Dystrocryepts-Moraines	50-65	Moraines	No	—
	Turbels-Moraines	15-25	Depressions on moraines	No	—
	Water	15-25	Lakes	Unranked	—
	Histels-Moraines	5-15	Moraines	Yes	1
684: Typic Dystrocryepts-Typic Aquiturbels-Typic Haploorthels complex	Typic Dystrocryepts-Outwash plains	55-75	Hills on outwash plains	No	—
	Typic Aquiturbels-Outwash plains	15-25	Outwash plains	Yes	2
	Typic Haploorthels-Outwash plains	10-25	Outwash plains	No	—
	Histels-Outwash plains	0-5	Outwash plains	Yes	1
685: Typic Dystrocryepts-Typic Cryaquepts-Aquic Dystrocryepts complex	Typic Dystrocryepts-High moraines	25-40	Moraines	No	—
	Typic Cryaquepts-High moraines	20-30	Drainageways on moraines,depressions on moraines	Yes	2

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Ruptic Histoturbels-High moraines	15-25	Moraines	Yes	2
	Aquic Dystrocryepts-High moraines	0-20	Depressions on moraines	No	—
	Water	5-15	Lakes	Unranked	—
	Terric Hemistels-High moraines	0-5	Depressions on moraines	Yes	1
686: Typic Dystrocryepts-Typic Cryaquepts-Typic Histoturbels complex	Typic Dystrocryepts-Moraines	25-40	Moraines	No	—
	Typic Cryaquepts-Moraines	20-35	Depressions on moraines	Yes	2
	Typic Histoturbels-Moraines	25-30	Moraines	Yes	2
	Aquic Dystrocryepts-Moraines	5-15	Hills on moraines	No	—
687: Typic Dystrocryepts-Typic Haplocryands-Typic Histoturbels complex	Typic Dystrocryepts-Ridges	40-60	Ridges	No	—
	Typic Haplocryands-Ridges	30-40	Mountains	No	—
	Typic Histoturbels-Ridges	10-20	Mountains	Yes	2
688: Typic Dystrocryepts-Typic Haploturbels-Typic Aquiturbels complex	Typic Dystrocryepts-Moraines	35-45	Moraines	No	—
	Typic Haploturbels-Moraines	25-35	Moraines	No	—
	Typic Histoturbels-Moraines	10-15	Moraines	Yes	2
	Typic Aquiturbels-Moraines	10-15	Moraines	No	—
689: Typic Dystrocryepts-Typic Histoturbels complex, moraines	Typic Histoturbels-Moraines	30-50	Moraines	Yes	2
	Typic Dystrocryepts-Moraines	30-50	Moraines	No	—
	Typic Aquiturbels-Moraines	5-20	Moraines	No	—
690: Typic Dystrocryepts-Typic Histoturbels complex, ridges	Typic Dystrocryepts-Ridges	60-70	Ridges	No	—
	Typic Histoturbels-Ridges	30-40	Mountains,ridges on hills	Yes	2
691: Typic Dystrocryepts-Typic Histoturbels-Folists association	Typic Histoturbels-High moraines	20-40	Moraines	Yes	2
	Typic Dystrocryepts-High moraines	20-40	Moraines	No	—
	Folists-High moraines	15-25	Moraines	No	—
	Histels-High moraines	10-25	Till plains,moraines	Yes	1

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
692: Typic Dystrocryepts-Typic Histoturbels-Typic Aquiturbels complex	Typic Dystrocryepts-Ridges	50-70	Ridges	No	—
	Typic Histoturbels-Ridges	20-40	Alluvial fans,ridges on hills	Yes	2
	Typic Aquiturbels-Ridges	10-20	Hills	Yes	2
693: Typic Dystrocryepts-Typic Histoturbels-Typic Cryofluvents complex	Typic Dystrocryepts-Ridges	60-75	Ridges	No	—
	Typic Histoturbels-Ridges	15-30	Mountains,ridges on hills	Yes	2
	Typic Cryofluvents-Ridges	10-15	Drainageways on mountains	No	—
694: Typic Dystrogelepts-Aquic Dystrocryepts-Orthels complex	Typic Dystrogelepts-Mountains	50-60	Moraines,hills	No	—
	Aquic Dystrocryepts-Mountains	15-25	Moraines	No	—
	Orthels-Mountains	15-25	Mountains	No	—
	Histels-Mountains	5-10	Moraines	Yes	1
695: Typic Dystrogelepts-Aquic Dystrocryepts-Typic Haplorthels complex	Typic Dystrogelepts-Mountains	25-40	Moraines,hills	No	—
	Aquic Dystrocryepts-Mountains	20-30	Moraines	No	—
	Typic Haplorthels-Mountains	20-30	Mountains	No	—
	Ruptic Histoturbels-Mountains	15-30	Hills	Yes	2
696: Typic Dystrogelepts-Lithic Cryofolists complex	Typic Dystrogelepts-Mountains	75-85	Mountains	No	—
	Lithic Cryofolists-Mountains	15-25	Mountains	No	—
	Aquic Dystrocryepts-Mountains	0-10	Moraines	No	—
	Lithic Dystrocryepts-Mountains	0-10	Mountains	No	—
697: Typic Dystrogelepts-Typic Cryaquepts-Humic Dystrocryepts complex	Typic Dystrogelepts-Mountains	30-50	Mountains	No	—
	Typic Cryaquepts-Mountains	25-40	Mountains	Yes	2
	Humic Dystrocryepts-Mountains	15-25	Mountains	No	—
	Typic Histoturbels-Mountains	0-10	Mountains	Yes	2

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
698: Typic Haplothels-Typic Aquiturbels-Ruptic Histoturbels complex	Typic Haplothels-High moraines	35-45	Moraines	No	—
	Typic Aquiturbels-High moraines	20-40	Drainageways on moraines	Yes	2
	Ruptic Histoturbels-High moraines	15-25	Moraines	Yes	2
	Typic Dystrocrypts-High moraines	5-10	Moraines	No	—
	Histels-High moraines	5-10	Till plains,moraines	Yes	1
699: Typic Haploturbels-Typic Cryaquepts-Typic Dystrogelepts complex	Typic Haploturbels-Mountains	30-40	Mountains	No	—
	Typic Cryaquepts-Mountains	20-30	Mountains	Yes	2
	Typic Dystrogelepts-Mountains	20-30	Mountains	No	—
	Lithic Dystrocrypts-Mountains	15-20	Mountains	No	—
700: Typic Haploturbels-Typic Histoturbels-Histels complex	Typic Haploturbels-Outwash plains	35-50	Outwash plains	No	—
	Typic Histoturbels-Outwash plains	30-40	Outwash plains	Yes	2
	Histels-Outwash plains	20-40	Outwash plains	Yes	1
	Typic Aquiturbels-Outwash plains	0-5	Outwash plains	Yes	2
701: Typic Historthels-Typic Histoturbels-Terric Fibristsels, complex	Typic Historthels-Outwash plains	30-50	Outwash plains	Yes	2
	Typic Histoturbels-Outwash plains	25-45	Outwash plains	Yes	2
	Terric Fibristsels-Outwash plains	10-25	Outwash plains	Yes	1
	Typic Aquiturbels-Outwash plains	5-15	Outwash plains	Yes	2
702: Typic Histoturbels	Typic Histoturbels-River valleys	60-80	Outwash plains	Yes	2
	Histels-River valleys	10-15	Terraces	Yes	1
	Aquic Dystrocrypts-River valleys	10-15	Terraces	No	—
	Typic Dystrocrypts-River valleys	0-5	Outwash plains	No	—
703: Typic Histoturbels-Glacic Aquiturbels-Histels association	Typic Histoturbels-High moraines	50-70	Moraines	Yes	2
	Glacic Aquiturbels-High moraines	15-30	Till plains	Yes	2
	Histels-High moraines	10-20	Till plains,moraines	Yes	1

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
704: Typic Histoturbels-Histels-Typic Dystrogelepts complex	Typic Histoturbels-Mountains	40-60	V-shaped valleys, moraines	Yes	2
	Histels-Mountains	20-40	Mountains	Yes	1
	Typic Dystrogelepts-Mountains	20-30	Mountains	No	—
705: Typic Histoturbels-Typic Aquiturbels-Terric Fibristels complex	Typic Aquiturbels-Mountains	0-5	Hills	Yes	2
	Typic Histoturbels-Ridges	45-55	Terraces, hills	Yes	2
	Typic Aquiturbels-Ridges	15-30	Alluvial fans	Yes	2
	Terric Fibristels-Ridges	15-25	Terraces	Yes	1
706: Typic Histoturbels-Typic Dystrocryepts complex	Typic Dystrocryepts-Ridges	5-10	Outwash plains	No	—
	Typic Histoturbels-River valleys	60-90	Alluvial fans	Yes	2
	Typic Dystrocryepts-River valleys	10-40	Drainageways on alluvial fans	No	—
707: Typic Histoturbels-Typic Dystrocryepts complex, hills	Typic Histoturbels-Hills	50-65	Hills	No	—
	Typic Dystrocryepts-Hills	25-35	Hills	No	—
	Typic Haploturbels-Hills	10-15	Hills	No	—
708: Typic Histoturbels-Typic Dystrocryepts complex, ridges	Typic Histoturbels-Ridges	75-85	Terraces, ridges on hills, ridges on mountains	Yes	2
	Typic Dystrocryepts-Ridges	15-25	Ridges	No	—
709: Typic Histoturbels-Typic Dystrocryepts-Terric Fibristels complex	Typic Histoturbels-Ridges	55-70	Mountains	Yes	2
	Typic Dystrocryepts-Ridges	20-40	Outwash plains	No	—
	Terric Fibristels-Ridges	5-20	Terraces	Yes	1
710: Typic Histoturbels-Typic Dystrocryepts-Typic Historthels complex	Typic Histoturbels-Ridges	45-55	Mountains, ridges on hills	Yes	2
	Typic Dystrocryepts-Ridges	15-30	Ridges	No	—
	Typic Historthels-Ridges	15-25	Ridges	Yes	2
	Histels-Ridges	5-15	Ridges	Yes	1
	Typic Aquiturbels-Ridges	0-5	Ridges	Yes	2

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
711: Typic Histoturbels-Typic Dystrogelepts complex	Typic Histoturbels-Mountains	50-70	U-shaped valleys	Yes	2
	Typic Dystrogelepts-Mountains	15-25	Mountains	No	—
	Aquic Dystrocryepts-Mountains	5-15	Mountain slopes	No	—
	Ruptic Histoturbels-Mountains	0-10	Mountain valleys	Yes	2
712: Typic Histoturbels-Typic Dystrocryepts-Water complex	Typic Histoturbels-Moraines	40-60	Moraines	Yes	2
	Typic Dystrocryepts-Moraines	25-50	Moraines	No	—
	Water	15-25	Lakes	Unranked	—
	Terric Fibristels-Moraines	0-5	Moraines	Yes	1
	Typic Aquiturbels-Moraines	0-5	Moraines	No	—
713: Typic Histoturbels-Typic Haplorthels-Terric Hemistels complex	Typic Histoturbels-Outwash plains	35-60	Outwash plains	Yes	2
	Typic Haplorthels-Outwash plains	20-40	Outwash plains	No	—
	Terric Hemistels-Outwash plains	20-40	Outwash plains	Yes	1
714: Typic Histoturbels-Typic Haploturbels-Typic Dystrogelepts association	Typic Histoturbels-Mountains	30-60	Till plains,outwash plains	Yes	2
	Typic Haploturbels-Mountains	10-40	Till plains,moraines,out wash plains	No	—
	Typic Dystrogelepts-Mountains	10-25	Moraines,hills	No	—
	Ruptic Histoturbels-Mountains	0-15	Till plains,outwash plains	Yes	2
	Orthels-Mountains	10-15	Mountains	No	—
	Histels-Mountains	0-10	Till plains	Yes	1
715: Volkmar silt loam, undulating	29-Volkmar	80-95	Stream terraces	No	—
	29-Tanana	0-10	Flood plains	Yes	2,3
	29-Richardson	0-10	Stream terraces	No	—
716: Volkmar-Nenana complex, 0 to 3 percent slopes	Volkmar	70-90	Stream terraces	No	—
	Nenana	10-20	Stream terraces	No	—
	Tanana	0-15	Terraces	Yes	2
717: Water	Water	100-100	Lakes	Unranked	—