

GREATER FAIRBANKS SOIL SURVEY AREA

'1990' Frozen HEL list for out-of-date Fairbanks Area soil survey

The ratings for permafrost soils are presented for the soil conditions as mapped. Projected ratings for soils that may thaw are presented in the list at the bottom.

MAP SYMBOL	SOIL MAP UNIT NAME	HEL CLASS		
		WIND	WATER	MAPUNIT
Ch	CHENA VERY FINE SANDY LOAM	HEL	NHEL	HEL
ERE	ESTER SILT LOAM, STEEP	NHEL	PHEL	PHEL
EsD	ESTER SILT LOAM, 12 TO 20 PERCENT SLOPES	NHEL	PHEL	PHEL
EsE	ESTER SILT LOAM, 20 TO 30 PERCENT SLOPES	NHEL	PHEL	PHEL
EsF	ESTER SILT LOAM, 30 TO 45 PERCENT SLOPES	NHEL	PHEL	PHEL
FBD	FAIRBANKS ASSOCIATION, MODERATELY SLOPING TO MODERATELY	NHEL	PHEL	PHEL
FEF	FAIRBANKS-ESTER ASSOCIATION, STEEP TO VERY STEEP (STEEPS	NHEL	PHEL	PHEL
FaD	FAIRBANKS SILT LOAM, 12 TO 20 PERCENT SLOPES	NHEL	PHEL	PHEL
FaE	FAIRBANKS SILT LOAM, 20 TO 30 PERCENT SLOPES	NHEL	PHEL	PHEL
FaF	FAIRBANKS SILT LOAM, 30 TO 45 PERCENT SLOPES	NHEL	HEL	HEL
FmC	FAIRBANKS SILT LOAM, MODERATELY DEEP, 7 TO 12 PERCENT S	NHEL	PHEL	PHEL
FmD	FAIRBANKS SILT LOAM, MODERATELY DEEP, 12 TO 20 PERCENT	NHEL	PHEL	PHEL
FmE	FAIRBANKS SILT LOAM, MODERATELY DEEP, 20 TO 30 PERCENT	NHEL	HEL	HEL
FmF	FAIRBANKS SILT LOAM, MODERATELY DEEP, 30 TO 45 PERCENT	NHEL	HEL	HEL
GEF	GILMORE-ESTER ASSOCIATION, MODERATELY STEEP TO VERY STEE	PHEL	PHEL	PHEL
GmB	GILMORE SILT LOAM, 3 TO 7 PERCENT SLOPES	HEL	PHEL	HEL
GmC	GILMORE SILT LOAM, 7 TO 12 PERCENT SLOPES	HEL	PHEL	HEL
GmD	GILMORE SILT LOAM, 12 TO 20 PERCENT SLOPES	HEL	HEL	HEL
GmE	GILMORE SILT LOAM, 20 TO 30 PERCENT SLOPES	HEL	HEL	HEL
GmF	GILMORE SILT LOAM, 30 TO 45 PERCENT SLOPES	HEL	HEL	HEL
GrB	GILMORE SILT LOAM, VERY SHALLOW, 3 TO 7 PERCENT SLOPES	HEL	PHEL	HEL
GrC	GILMORE SILT LOAM, VERY SHALLOW, 7 TO 12 PERCENT SLOPES	HEL	PHEL	HEL
GrD	GILMORE SILT LOAM, VERY SHALLOW, 12 TO 20 PERCENT SLOPE	HEL	HEL	HEL
GrE	GILMORE SILT LOAM, VERY SHALLOW, 20 TO 30 PERCENT SLOPE	HEL	HEL	HEL
GrF	GILMORE SILT LOAM, VERY SHALLOW, 30 TO 45 PERCENT SLOPE	HEL	HEL	HEL
SA	SALCHAKET ASSOCIATION (SALCHAKET-JARVIS TAXADJUNCT)	PHEL	NHEL	PHEL
Sm	SALCHAKET VERY FINE SANDY LOAM, MODERATELY DEEP (JARVIS	HEL	NHEL	HEL
Ss	SALCHAKET VERY FINE SANDY LOAM, SHALLOW (JARVIS TAXADJU	HEL	NHEL	HEL
SuD	SAULICH SILT LOAM, 12 TO 20 PERCENT SLOPES	NHEL	PHEL	PHEL

NHEL = not highly erodible

PHEL - potentially highly erodible

HEL - highly erodible

PROJECTED RATINGS FOR PERMAFROST SOILS IF ALLOWED TO THAW

'1990' Frozen HEL list for thawed soils of out-of-date Fairbanks Area soil survey

MAP SYMBOL	SOIL MAP UNIT NAME	HEL CLASS		
		WIND	WATER	MAPUNIT

ERE,t	ESTER SILT LOAM, STEEP	HEL	HEL	HEL
EsD,t	ESTER SILT LOAM, 12 TO 20 PERCENT SLOPES	HEL	HEL	HEL
EsE,t	ESTER SILT LOAM, 20 TO 30 PERCENT SLOPES	HEL	HEL	HEL
EsF,t	ESTER SILT LOAM, 30 TO 45 PERCENT SLOPES	HEL	HEL	HEL
FEF,t	FAIRBANKS-ESTER ASSOCIATION, STEEP TO VERY STEEP (STEES	PHEL	HEL	HEL
GEF,t	GILMORE-ESTER ASSOCIATION, MODERATELY STEEP TO VERY STE	HEL	HEL	HEL
GL,t	GOLDSTREAM-LEMETA ASSOCIATION	PHEL	PHEL	PHEL
GS,t	GOLDSTREAM-SAULICH ASSOCIATION	HEL	PHEL	HEL
GtA,t	GOLDSTREAM SILT LOAM, 0 TO 3 PERCENT SLOPES	HEL	NHEL	HEL
GtB,t	GOLDSTREAM SILT LOAM, 3 TO 7 PERCENT SLOPES	HEL	PHEL	HEL
GtC,t	GOLDSTREAM SILT LOAM, 7 TO 12 PERCENT SLOPES	HEL	PHEL	HEL
MS,t	MINTO-SAULICH ASSOCIATION	PHEL	PHEL	PHEL
SuB,t	SAULICH SILT LOAM, 3 TO 7 PERCENT SLOPES	HEL	PHEL	HEL
SuC,t	SAULICH SILT LOAM, 7 TO 12 PERCENT SLOPES	HEL	PHEL	HEL
SuD,t	SAULICH SILT LOAM, 12 TO 20 PERCENT SLOPES	HEL	HEL	HEL
TG,t	TANANA-GOLDSTREAM ASSOCIATION	PHEL	NHEL	PHEL

NOTE: This report assumes all soils are thawed below 40 inches and that the surface layers are drained (except Lemeta). T values must be determined by on-site investigation. T for frozen units were used.

NHEL = not highly erodible

PHEL = potentially highly erodible

HEL - highly erodible