

## **MAINE FOREST SOIL INTERPRETATIONS**

### **BRIGG'S PRODUCTIVITY SITE CLASS RATING FOR SPRUCE AND FIR**

This productivity site class rating is described in CFRU Technical Note 6, "Site Classification Field Guide", Maine Agricultural and Forest Experiment Station, Miscellaneous Publication 724. ISSN: 1070-1508.

This guide was designed for spruce and fir. Other species such as Red Pine and the hardwoods may respond differently. Currently, there are ongoing studies with other species.

Class 1 is the highest level of productivity; class 5 is lowest.

The number listed first is the most probable site class rating for a soil. The number shown in parenthesis ( ) is a strong second possibility depending on the thickness of the loamy cap or depth to bedrock, dense basal till, or water table.

Soils used in cryic map units (elevation greater than 2300 feet) are rated one class lower.

### **PERIOD OF OPTIMUM OPERABILITY FOR SKID TRAILS TO MINIMIZE RUTTING**

The period of optimum operability for skid trails to minimize rutting is based on the months of the year when a high water table is not present or is at its lowest level. This is meant to be used as a guide only. It assumes "typical" seasonal wetness. Climatic factors are variable and the water table data used for each soil is defined as what could be expected in 7 out of 10 years. Extremes in precipitation and location (latitude) may extend, shorten, or disrupt the period of operability.

Rutting is defined as the disturbance of the forest floor resulting in channels which redirect the flow of water causing erosion and sedimentation.

The optimum time for harvest on very poorly drained soils (and possibly even poorly drained soils) is when the ground is frozen. Operation is feasible on any soil when and if the surface is frozen enough to support equipment.

Even well drained to excessively drained soils are subject to rutting during the critical days when frost is dissipating from the soil during April and also during May in more northerly locations. Even the freezing and thawing cycles of late fall can be a concern but is not addressed in this guide.

SOIL NAME	DRAINAGE CLASS	SITE CLASS SPRUCE – FIR	PERIOD OF OPERABILITY
ABRAM	E	4	MAY THRU MARCH
ADAMS	SE	3	MAY THRU MARCH
ADAMS	W	2	MAY THRU MARCH
AGAWAM	W	1	MAY THRU MARCH
ALLAGASH	W	1	MAY THRU MARCH
ATHERTON	VP, P	5 (4)	ONLY WHEN FROZEN
AU GRES	SP	3	JUN THRU SEP
AURELIE	P	4	JUL THRU AUG
BANGOR	W	1	MAY THRU MAR
BEACHES	*	*	*
BECKET	W	1	MAY THRU FEB
BELGRADE	MW	2	JUN THRU OCT
BEMIS	P	5 (4)	JUL THRU AUG
BENSON	SE, E	2 (3)	MAY THRU MAR
BERKSHIRE	W	1	MAY THRU MAR
BESEMAN	VP	5	ONLY WHEN FROZEN
BIDDEFORD	VP	5	ONLY WHEN FROZEN
BOOTHBAY	MW	2	JUN THRU OCT
BOOTHBAY	SP	3	JUN THRU SEP
BOROSAPRISTS	VP	5	ONLY WHEN FROZEN
BORROW PITS	*	*	*
BRAYTON	P	4	JUL THRU SEP
BRAYTON VARIANT	P	4	JUL THRU SEP
BUCKSPORT	VP	5	ONLY WHEN FROZEN
BURNHAM	VP	5	ONLY WHEN FROZEN
BUXTON	MW	2	JUN THRU OCT
CANAAN	SE	2 (3)	MAY THRU MAR
CANANDAIGUA	P	4	JUL THRU SEP
CARIBOU	W	1	MAY THRU MAR
CATHRO	VP	5	ONLY WHEN FROZEN
CHARLES	P	4	JUL THRU SEP
CHARLTON	W	1	MAY THRU MAR
CHESUNCOOK	MW	2	JUN THRU OCT
CHOCORUA	VP	5	ONLY WHEN FROZEN
COASTAL BEACH	*	*	*
COASTAL BEACH	*	*	*
COLONEL	SP	3	JUN THRU SEP
COLTON	E	4 (3)	MAY THRU MAR
CONANT	MW	2	JUN THRU OCT
CONANT	SP	3	JUN THRU SEP
CORNISH	SP	3	JUN THRU OCT
CRARY	MW	2	JUN THRU OCT
CREASEY	SE	2 (3)	MAY THRU MAR
CROGHAN	MW	2	MAY THRU OCT
CUT AND FILL LAND	*	*	*
DAIGLE	SP	3	JUL THRU SEP
DANFORTH	W	1	MAY THRU MAR

<b>SOIL NAME</b>	<b>DRAINAGE CLASS</b>	<b>SITE CLASS SPRUCE – FIR</b>	<b>PERIOD OF OPERABILITY</b>
DEERFIELD	MW	2	MAY THRU OCT
DIXFIELD	MW	2 (1)	JUN THRU OCT
DIXMONT	MW	2	JUN THRU OCT
DIXMONT	SP	3	JUN THRU SEP
DUANE	MW	2	JUN THRU OCT
DUMPS	*	*	*
DUNE LAND	*	*	*
DUNELAND	*	*	*
EASTON	P	4	JUL THRU SEP
ELDRIDGE	MW	2	JUN THRU OCT
ELLIOTTSVILLE	W	1	MAY THRU MAR
ELMWOOD	MW	2	JUN THRU OCT
ENCHANTED	W	2	JUN THRU MAR
FINCH	SP	3	JUN THRU SEP
FREDON	SP	3	JUN THRU SEP
FRYEBURG	W	1	MAY THRU MAR
GOULDSBORO	VP	5	ONLY WHEN FROZEN
GRAVEL PITS	*	*	*
GREENWOOD	VP	5	ONLY WHEN FROZEN
HADLEY	W	1	MAY THRU MAR
HALSEY	VP	5	ONLY WHEN FROZEN
HARTLAND	W	1	MAY THRU MAR
HERMON	SE	2	MAY THRU MAR
HINCKLEY	E	4 (3)	MAY THRU MAR
HOGBACK	W	2	JUN THRU SEP
HOLLIS	SE	2 (3)	MAY THRU MAR
HOWLAND	MW	2	JUN THRU OCT
IPSWICH	VP	5	ONLY WHEN FROZEN
KINSMAN	P	4	JUL THRU SEP
LAMOINE	SP	3	JUN THRU SEP
LEICESTER	P	4	JUN THRU SEP
LILLE	W	1	MAY THRU MAR
LIMERICK	P	4	JUL THRU SEP
LINNEUS	W	1	MAY THRU MAR
LOVEWELL	MW	2	JUN THRU OCT
LOXLEY	VP	5	ONLY WHEN FROZEN
LUPTON	VP	5	ONLY WHEN FROZEN
LYMAN	SE	2 (3)	MAY THRU MAR
LYME	P	4	JUL THRU SEP
MACHIAS	MW	2	JUN THRU OCT
MADAWASKA	MW	2	JUN THRU OCT
MADAWASKA	SP	3	JUN THRU SEP
MADE LAND	*	*	*
MADELAND	*	*	*
MAHOOSUC	SE	4 (5)	JUN THRU MAR
MAPLETON	W	1	MAY THRU MAR
MARKEY	VP	5	ONLY WHEN FROZEN

<b>SOIL NAME</b>	<b>DRAINAGE CLASS</b>	<b>SITE CLASS SPRUCE – FIR</b>	<b>PERIOD OF OPERABILITY</b>
MARLOW	W	1	MAY THRU FEB
MASARDIS	SE	2	MAY THRU MAR
MASARDIS VARIANT	SE	2	MAY THRU MAR
MEDOMAK	VP	5	ONLY WHEN FROZEN
MELROSE	W	1	MAY THRU MAR
MERRIMAC	W	1	MAY THRU MAR
MIXED ALLUVIAL LAND	VP	5	ONLY WHEN FROZEN
MIXED ALLUVIAL LAND	MWD	2	JUN THRU OCT
	MW		
MIXED ALLUVIAL LAND	PD	4	JUL THRU SEP
	P		
MIXED ALLUVIAL LAND	VPD	5	ONLY WHEN FROZEN
	VP		
MONADNOCK	W	1	MAY THRU MAR
MONARDA	P	4	JUL THRU SEP
MONSON	SE	2 (3)	MAY THRU MAR
MOOSILAUKE	P, SP	4	JUN THRU SEP
MUCK	VP	5	ONLY WHEN FROZEN
NASKEAG	SP, P	3 (4)	JUN THRU SEP
NAUMBURG	P	4	JUL THRU SEP
NICHOLVILLE	MW	2	JUN THRU OCT
NINIGRET	MW	2 (3)	JUN THRU OCT
ONDAWA	W	1	MAY THRU OCT
OSSIPEE	VP	5	ONLY WHEN FROZEN
PAWCATUCK	VP	5	ONLY WHEN FROZEN
PAXTON	W	1	MAY THRU FEB
PEACHAM	VP	5	ONLY WHEN FROZEN
PEAT	VP	5	ONLY WHEN FROZEN
PENQUIS	W	1	MAY THRU MAR
PERHAM	MW	2	JUN THRU OCT
PERU	MW	2 (3)	JUN THRU OCT
PILLSBURY	P	4	JUL THRU SEP
PITS	*	*	*
PITS, SAND AND GRAVEL	*	*	*
PLAISTED	W	1	MAY THRU MAR
PODUNK	MW	2	JUN THRU OCT
POTSDAM	W	1	MAY THRU MAR
QUARRIES	*	*	*
RAWSONVILLE	W	1	JUN THRU SEP
RAYNHAM	P	4	JUL THRU SEP
RED HOOK	SP	3	JUN THRU OCT
RICKER	W, SE, E	4 (5)	MAY THRU MAR
RIDGEBURY	P	4	JUL THRU SEP
RIFLE	VP	5	ONLY WHEN FROZEN
RIVERWASH	*	*	*
ROCK LAND	E	5	JAN THRU DEC
ROCK OUTCROP	E	5	JAN THRU DEC

<b>SOIL NAME</b>	<b>DRAINAGE CLASS</b>	<b>SITE CLASS SPRUCE – FIR</b>	<b>PERIOD OF OPERABILITY</b>
ROCKLAND	E	5	JAN THRU DEC
ROUNDAABOUT	P	4	JUL THRU SEP
ROUNDAABOUT	SP	3	JUN THRU SEP
RUBBLELAND	E	5	JAN THRU DEC
RUMNEY	P	4 (3)	JUL THRU SEP
SACO	VP	5	ONLY WHEN FROZEN
SADDLEBACK	W	3 (4)	JUN THRU MAR
SALMON	W	1	MAY THRU MAR
SAND AND GRAVEL PITS	*	*	*
SAUGATUCK	P	4	JUN THRU SEP
SCANTIC	P	4	JUL THRU SEP
SCARBORO	VP	5	ONLY WHEN FROZEN
SCHOODIC	E	4	MAY THRU MAR
SCIO	MW	2	JUN THRU OCT
SEARSPORT	VP	5	ONLY WHEN FROZEN
SEBAGO	VP	5	ONLY WHEN FROZEN
SHEEPSCOT	MW	3	JUN THRU MAR
SHIRLEY	SP, MW	3 (2)	JUN THRU FEB
SISK	W	2	JUN THRU MAR
SKERRY	MW	2 (1)	JUN THRU OCT
SKOWHEGAN	SP, MW	3 (4)	JUN THRU OCT
STETSON	W, SE	1	MAY THRU MAR
STRIPPED LAND	*	*	*
SUFFIELD	W	1	MAY THRU MAR
SULFAQUENTS	VP	5	ONLY WHEN FROZEN
SULFIHEMISTS	VP	5	ONLY WHEN FROZEN
SUNAPEE	MW	2	JUN THRU OCT
SUNDAY	E	4	MAY THRU MAR
SURPLUS	MW	3	JUN THRU MAR
SURPLUS	SP	4	JUL THRU SEP
SUTTON	MW	2	JUN THRU OCT
SWANTON	P, SP	4 (3)	JUL THRU SEP
SWANVILLE	P	4	JUL THRU SEP
TELOS	SP	3	JULY THRU SEP
THORNDIKE	SE	2 (3)	MAY THRU MAR
TIDAL MARSH	*	*	*
TOGUS	VP	5	ONLY WHEN FROZEN
TUNBRIDGE	W	1	MAY THRU MAR
UDIPSAMMENTS	*	*	*
UDORTHENTS	*	*	*
URBAN LAND	*	*	*
URBANLAND	*	*	*
VASSALBORO	VP	5	ONLY WHEN FROZEN
WALPOLE	P	4	JUL THRU SEP
WASHBURN	VP	5	ONLY WHEN FROZEN
WASKISH	VP	5	ONLY WHEN FROZEN

<b>SOIL NAME</b>	<b>DRAINAGE CLASS</b>	<b>SITE CLASS SPRUCE – FIR</b>	<b>PERIOD OF OPERABILITY</b>
WAUMBEEK	MW	3 (4)	JUN THRU FEB
WESTBURY	SP	3	JUN THRU SEP
WHATELY	VP	5	ONLY WHEN FROZEN
WHITMAN	VP	5	ONLY WHEN FROZEN
WINDSOR	SE	3	MAY THRU MAR
WINNECOOK	W	1	MAY THRU MAR
WINOOSKI	MW	2	JUN THRU OCT
WONSQUEAK	VP	5	ONLY WHEN FROZEN
WOODBIDGE	MW	2	JUN THRU OCT

\* Needs an onsite evaluation

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