



N 47° 30.5' W 114° 54.7'

NE Sec 16 T20N R26W  
Sandy loam

N 47 degrees 30.5', W 114 degrees  
54.7'

NE Sec 16 T20N R26W

Sandy Loam

12/15/1994

JAN 25, 1995

Skip Barndt.

Skip. I took this samples in mid Nov. They were taken from the WL early selection trial (EST). The trial was planted in June 1994. In late summer we started seeing areas that were dying. This seemed to occur in pockets. After our first year survival we had higher mortality than we wanted. The WL were one year old container stock. We decided to take a soil sample to see if we could see any differences between the mortality areas and good growth areas. I took 6 samples from each of the mortality + Good Growth areas and then combined them into one sample for each. I only sampled the top 12" next to the tree. Skip if you could take a look at the results and see if you see any differences. I'll send along a map with mortality areas marked. I'll talk to you later.

Brian Dreisbach plains.-

# Stukenholtz Laboratory, Inc.

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## SOIL ANALYSIS REPORT

Report For:

**United States Forest Service**  
**P.O. Box 429**  
**Plains, MT 59859**

**99297/99298** Report No.  
**12-15-94** Date Received  
**12-16-1994** Date Reported

Grower Name: **BRIAN DREISBACH**

SOIL TEST DATA	Sample 1	Sample 2	Sample 1		Sample 2	SAMPLE IDENTITY		
			A	GOOD GROWTH	B		TREE MRTLY	
pH	6.30 M	6.35 M				CROP		
SALTS, mmhos/cm	0.7 L	1.1 L				YIELD GOAL		
SODIUM, meq/100g	0.2 VL	0.2 VL				ACRES		
CEC, meq/100g	15 M	17 M				PAST CROP, T/Acre		
EXCESS Lime, %	0 VL	0 VL				MANURE, Tons/Acre		
ORGANIC Matter, %	1.85 H	1.80 H				NUTRIENTS Previously Applied		
ORGANIC N, lb/A	70 M	70 M	RECOMMENDATIONS, lbs. or Units Actual Nutrient Per Acre					
NITRATE-N, ppm	3 VL	18 M				*	*	NITROGEN
PHOSPHORUS, ppm	20 M	27 M						P <sub>2</sub> O <sub>5</sub>
POTASSIUM, ppm	390 H	620 VH						K <sub>2</sub> O
CALCIUM, meq/100g	8.2 L	9.7 L						CALCIUM
MAGNESIUM, meq/100g	3.5 VH	3.5 VH						MAGNESIUM
SULFUR, ppm	8 L	22 H						SULFATE-SULFUR
ZINC, ppm	1.9 M	3.2 H						ZINC
IRON, ppm	27.9 H	36.2 H						IRON
MANGANESE, ppm	4.4 M	6.4 H						MANGANESE
COPPER, ppm	1.3 H	1.6 H						COPPER
BORON, ppm	0.55 L	0.60 L						BORON
SOIL TEXTURE from CEC	SNDY LDAM	SNDY LOAM						ELEMENTAL SULFUR

RATINGS	ACTUAL AND RECOMMENDED PERCENT OF CEC								RELATION OF CEC TO SOIL TEXTURE	
	Actual % Potassium	Recommended Potassium	Actual % Calcium	Recommended Calcium	Actual % Magnesium	Recommended Magnesium	Actual % Sodium	Recommended Sodium		
VL—Very Low									0-6	Sand
L—Low									5-12	Loamy Sand
M—Medium	8.7		55		23		1.3		10-18	Sandy Loam
H—High		2.0-5.0 %		65-80 %		10-20 %		<3.0 %	16-21	Silt Loam
VH—Very High	12.2		57		21		1.2		20-36	Clay Loam
									36+	Clay

**R** Both : THE B SOIL SAMPLE IS ACTUALLY MORE FERTILE THAN THE A SAMPLE.  
**E** Both : GROWTH PROBLEMS COULD BE CAUSED BY TOO MUCH NITRATE AND POTASSIUM IN THE PAST.  
**M**  
**A**  
**R**  
**K**  
**S**

Dr. Stukenholtz & Buhidar - Chemist

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