# **Abbreviated Narrative From Consultant's Report**

Bruse Estate Property – 280 Acres, m/l

Location: Section 26,27 Iowa Twp.

T.85N.-R.6E.

Jackson County, Iowa

This is a very unique farm located along the bluffs of the Mississippi River. The bluffs have outstanding panoramic views of the river valley. Steep bluffs, limestone rock outcrops and sinkholes are also located on the parcel. About 103 acres are currently in CRP program and planted with grasses. Most of the timber was located 30-40 years ago and the edges were cleared in the past. Most of the timber has very large oak sawtimber in the ravines and walnut and honeylocust along the field edges. Currently timber markets for oak are poor due to the housing slow down. When timber markets improve some of the larger trees could be harvested at any time. The timber has been divided into 3 stands as follows:

### Stand 1 (71 acres)

This stand is located along several very steep ravines that drain to the north. The field edges are dominated with honeylocust, elm and walnut. The ravines are dominated with large red oak, maple basswood and walnut sawtimber. This stand has excellent quality sawtimber with a total of 3,730 bdft/acre.

## Stand 2 (80 acres)

This stand is located along a series of ravines that drain to the northeast. Much of the stand has had trees cut many years ago but has scattered pockets of large sawtimber red oak, maple, walnut, ash, basswood, red elm and cherry. This stand has 3,367 bdft per acre.

#### Stand 3 (24 acres)

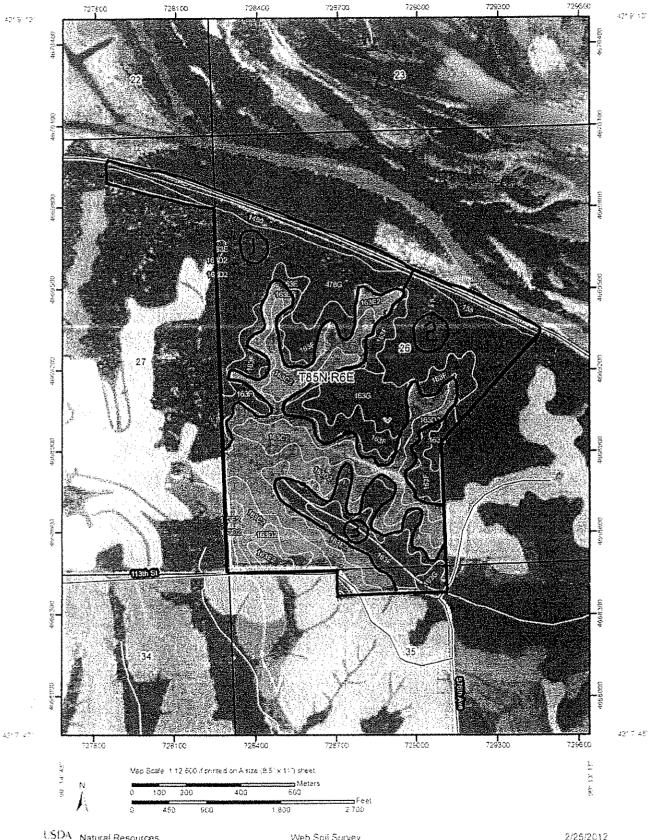
This stand is locate along a ravine that drains to the southeast. Most of this stand is dominated with walnut, red oak, elm, box elder, honeylocust, ash, cottonwood and basswood. The southeast portion of the stand has some large walnut sawtimber. This stand has 2,858 bdft per acre.

#### Summary

This is a one-of-a-kind very unique parcel with a 175 forested acres. With good management this property will provide sustainable long-term timber production.

### TIMBER STANDS 280 Acres, m/l, Bruse Estate

Soil Map – Jackson County, Iowa (Hazel Bruse)



Tract Name: Stand 1 – 71 Acres, m/l Farm Name: 280 Acres, m/l, Bruse Estate

Total Acres in Stand: 71 Year Data Collected: 2012 Age of Stand: years.

Site Index Species: Northern Red Oak Site Index of Site Species: 80 at 50 years.

Site tridex of site she		Cu.s.							
Average Trees per Acre: 97					DBH	Trees/Ac	Sq Ft/Ac	Sawlog BF/Ac	
Sampling Technique: Point with 10 baf prism.					4	16.4	1.4	0	
The following results are for the initial condition of the stand.					6	32.7	6.4	0	
				and.	8	8.2	2.9	0	
The basal area, volume, and value per acre of each species are:					10	5.2	2.9	0	
				s are:	1.2	13.6	10.7	359	
		1	- ·		14	2.7	2.9	116	
	Trees	Basal	Sawlog		16	7.7	10.7	763	
Species		area	volume		18	3.2	5.7	466	
		(Sq Ft/Ac)			20	2.0	4,3	321	
5 - Northern Red Oal		21.4	1918		22	2.4	6.4	636	
12 - White Oak	0.9	0.7	0		24	1.8	5.7	655	
13 - Bitternut Hickor	-	1.4	158		26	0.6	2.1	263	
20 - Sugar Maple	21.5	12.1	488		28	0.2	0.7	72	
21 - American Elm	23.1	4.3	0		>=29.0	0.1	0.7	78	
22 - Ślippery Elm	7.7	4.3	156						
25 - White Ash	4.1	1.4	59		Total	96.9	63.6	3730	
26 - American Bassw		5.0	293						
29 - Black Cheny	9.1	2.9	53		Diameter of tree of average basal area				
31 - Black Walnut	8.6	6,4	410		· · · · · · · · · · · · · · · · · · ·				
36 - Hackberry	2.0	2.1	125						
37 - Honeylocust	1.2	1.4	71						
Total	96.9	63.6	3730						
SUMMARY OF	Average	95% Con	f, Interval	SE of Ave.	SE of Ave.	Total	SE of Total		
VOLUMES	(Volume/Ac)	(Volume/Ac)		(Volume/Ac)	(%)				
Sawtimber (BF)	3730	2594 - 4867		526	14	264852	37364		
SUMMARY OF	Average	95% Conf. Interval		SE of Ave.	SE of Ave	. Total	SE of Tota	1	
VALUES	(\$/Ac)	(\$/Ac)		(\$/Ac)	(%)				
Sawtimber	1712	939	- 2485	358	21	121567	25402		

Tract Name: Stand 2 – 80 Acres, m/l Farm Name: 280 Acres, m/l, Bruse Estate

Total Acres in Stand: 80 Year Data Collected: 2012 Age of Stand: years.

Site Index Species: Northern Red Oak Site Index of Site Species: 80 at 50 years.

Average Trees per Acre: 124

Sampling Technique: Point with 10 baf prism.

The following results are for the initial condition of the stand.

The basal area, volume, and value per acre of each species are:

	·	•	•						
	Trees	Pacal	Chulaa		DBH	Trees/Ac	Sq Ft/Ac	Sawlog BF/Ac	
Species	nees	Basal	Sawlog volume		4	43.0	3.7	0	
Species	/#/A=\	area			. 6	22.3	4.4	0	
1 - Black Oak	(#/Ac) 0.2	(Sq Ft/Ac) 0.6	(BF/Ac) 70		8	21.5	7.5	0	
5 - Northern Red Oa		18.1	1383		10	10.3	5.6	0	
12 - White Oak	0.2	0.6	70		12	6.4	5.0	190	
13 - Bitternut Hickor		1.9	70 32		14	7.0	7.5	365	
16 - Shagbark Hicko	•	1.9	35		16	5.4	7.5	525	
17 - Boxelder	iy 7.3 1,1	0.6			18	1.4	2.5	198	
20 - Sugar Maple	30.2	10.0	0 <b>40</b> 2		20	<b>1</b> .7	3.7	322	
21 - American Elm	2.9	1.2	402		22	3.1	8.1	819	
22 - Slippery Elm	16.9		-		24	1.2	3.7	396	
25 - White Ash	8.3	3.1	98		26	0.5	1.9	168	
26 - American Bassw		3.7	93		28	0.1	0.6	46	
29 - Black Cherry	ood 2.0 9.0	2.5	174		·=29.0	0.6	3.1	338	
31 - Black Walnut		5.0	232			•			
36 - Hackberry	8.0	4.4	182		Total	124.4	65.0	3367	
37 - Honeylocust	14.1	3.7	95		•				
46 - Aspen	2.8	5.0	318		Diameter of tree of average basal area = 9.8				
47 - River Birch	0.4	0.6	52						
Total	2.5	2.5	131						
TOTAL	124.4	65.0	3367						
SUMMARY OF	Avaraga	OFO/ Comf		Cr -f t	cr	<b>m</b> . t			
VOLUMES	Average	95% Conf		SE of Ave.	SE of Ave	. Total	SE of Tota	1	
Sawtimber (BF)	(Volume/Ac) 3367	(Volum	*	(Volume/Ac)					
Sawtilliber (Br)	3367	2350 -	4384	477	14	269364	38190		
SUMMARY OF	Avomao	OE9/ Con	f Intonio	CC£ A	CC ( A.		( T		
VALUES	Average (\$/Ac)		f. Interval	SE of Ave.	SE of Av	e. Total	SE of Tot	aı	
Sawtimber			'Ac)	(\$/Ac)	(%)	******			
JOWERTEDE	1341	779 -	1903	264	20	107266	21105		

Tract Name: Stand 3 – 24 Acres, m/l Farm Name: 280 Acres, m/l, Bruse Estate

Total Acres in Stand: 24 Year Data Collected: 2012 Age of Stand: years.

Site Index Species: Northern Red Oak Site Index of Site Species: 80 at 50 years. DBH Trees/Ac Sq Ft/Ac Sawlog BF/Ac Average Trees per Acre: 151 4 91.7 0.8 0 Sampling Technique: Point with 10 baf prism. 6 10.2 2.0 0 8 11.5 4.0 0 The following results are for the initial condition of the stand. 10 14.7 0.8 0 12 5.1 4.0 148 The basal area, volume, and value per acre of each species are: 14 3.7 4.0 0 16 2.9 4.0 206 Basal Trees Sawlog 18 3.4 6.0 412 Species volume area 20 3.7 0.8 536 (#/Ac) (Sq Ft/Ac) (BF/Ac) 22 2.3 6.0 624 1 - Biack Oak 6.6 14.0 1218 24 1.3 4.0 422 17 - Boxelder 20.5 0 12.0 26 0.0 0.0 0 21 - American Elm 71.1 10.0 227 28 0.0 0.0 0 25 - White Ash 14.4 8.0 297 >=29.0 0.6 4.0 509 26 - American Basswood 0,9 2.0 206 31 - Black Walnut 4.1 6.0 434 Total 150.9 62.0 2858 35 - Eastern Cottonwood 0,2 2.0 299 36 - Hackberry 27.3 6.0 177 Diameter of tree of average basal area = 8.7 46 - aspen 5.7 2.0 0 Total 150.9 62.0 2858 SUMMARY OF 95% Conf. Interval SE of Ave. Average SE of Ave. SE of Total Total

VOLUMES Sawtimber (BF)	(Volume/Ac) 2858	(Volume/Ac) 630 - 5085	(Volume/Ac) 802	(%) 28	68591	19258
SUMMARY OF VALUES	Average (\$/Ac)	95% Conf. Interval (\$/Ac)	SE of Ave. (\$/Ac)	SE of Ave. (%)	Total	SE of Total
Sawtimber	1073	0 - 2166	394	37	25756	9451