

Revision Date: 7/15/2010

Stand Examiner: Adam Petrelius

Legal Description: T40N R18W, Sections 9, 10, 11, 12

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Compartment 89 lies within the Garden/Thompson Plains Management Area.

Management Goals: The main goal of this compartment is to conduct multiple resource management for current and future generations.

Soil and Topography: The topography within the compartment is mostly flat with a few steeper ridges. Elevation values range between 600-748 feet. Most of the compartment is forested with only a few stands classified as marsh or treed bog. Aspen is the dominant cover type. Other abundant cover types include lowland cedar, mixed northern hardwood, lowland aspen, and lowland deciduous forest. Numerous soil types are located in this compartment. A few of the most abundant soils are Roscommon Mucky Sand, Kalkaska Sand, and Carbondale/Rifle/Lupton Soils. Major habitat types within the compartment, in order of abundance, are Unclassified Lowland, ATFD, PVE, and PArV.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State land within this compartment was acquired between 1907 and 1970. Most of the land was acquired around 1940. The compartment boundary borders private and state land. The southern boundary and northern boundaries border state land. The eastern and western boundary borders private land. A few camps are located on the private parcels adjacent to the boundary. Permanent residences border the western edge. The compartment is used mostly by hunters, ORV users, and snowmobile riders.

Unique, Natural Features: Bald Eagle (*Haliaeetus leucocephalus*, state threatened) are known from the general area and there is potential for these raptors to occur within this compartment. In addition, **Osprey** (*Pandion haliaetus*, state threatened) are known from the general area and there is potential for these raptors to occur within this compartment. There is also potential for nesting <u>red-shouldered hawk</u> (*Buteo lineatus*, state threatened) to occur throughout this compartment in stands of northern hardwoods, mixed swamp conifer, and mature aspen.

Archeological, Historical, and Cultural Features: None.

Special Management Designations or Considerations: A large portion of the lowland cedar covertype in the west is classified as potential old growth. The small piece in the northeast is also classified as potential old growth.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: This compartment lies at the top of the Garden Peninsula within the Escanaba/Door Peninsula ecological sub-subsection. The growing season is approximately 140 days. Extreme minimum winter temperature is -30° F. Snowfall in this area is relatively light averaging about 60

inches/year. Prior to European settlement, the lowland forest cover was dominated by cedar, but also contained tamarack, red maple, paper birch, black spruce, aspen, balsam fir, and balsam poplar. Uplands were primarily covered with hemlock, white pine, or a mixture of the two. Due to the shallow soils and proximity to Lake Michigan, windthrow appeared to be the primary natural distrubance factor. Beaver ponding no doubt occurred along the Little Fishdam River and its tributaries, which run through this compartment. Current lowland forest composition appears to be similar to presettlement conditions with cedar being the dominant tree species. Upland forest composition has shifted heavily toward aspen. Wildlife habitat management objectives for this compartment are diverse. A large portion of the lowland forest has been designated as potential oldgrowth. Hemlock is being withheld from cutting to provide an upland conifer component. Aspen and white birch will be managed to maintain maximum mast production. Wildlife species of interest that inhabit this compartment include turkey, white-tailed deer, ruffed grouse, black bear, phoebe, and evening grosbeak.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. There is between 10 and 50 feet of glacial drift. The Silurian Cabothead Shale and Burnt Bluff subcrop below the glacial drift. The Burnt Bluff is used for stone. The nearest gravel pit is 3 miles to the northeast. There is limited gravel potential on State lands.

Vehicle Access: Except for the areas containing low ground, the compartment has a decent system of forest roads that can be driven during the snow free months. The Cooks/Garden grade is the main access road.

Survey Needs: No major survey projects will be needed. Some minor help may be requested if corners depicted in the records do not exist.

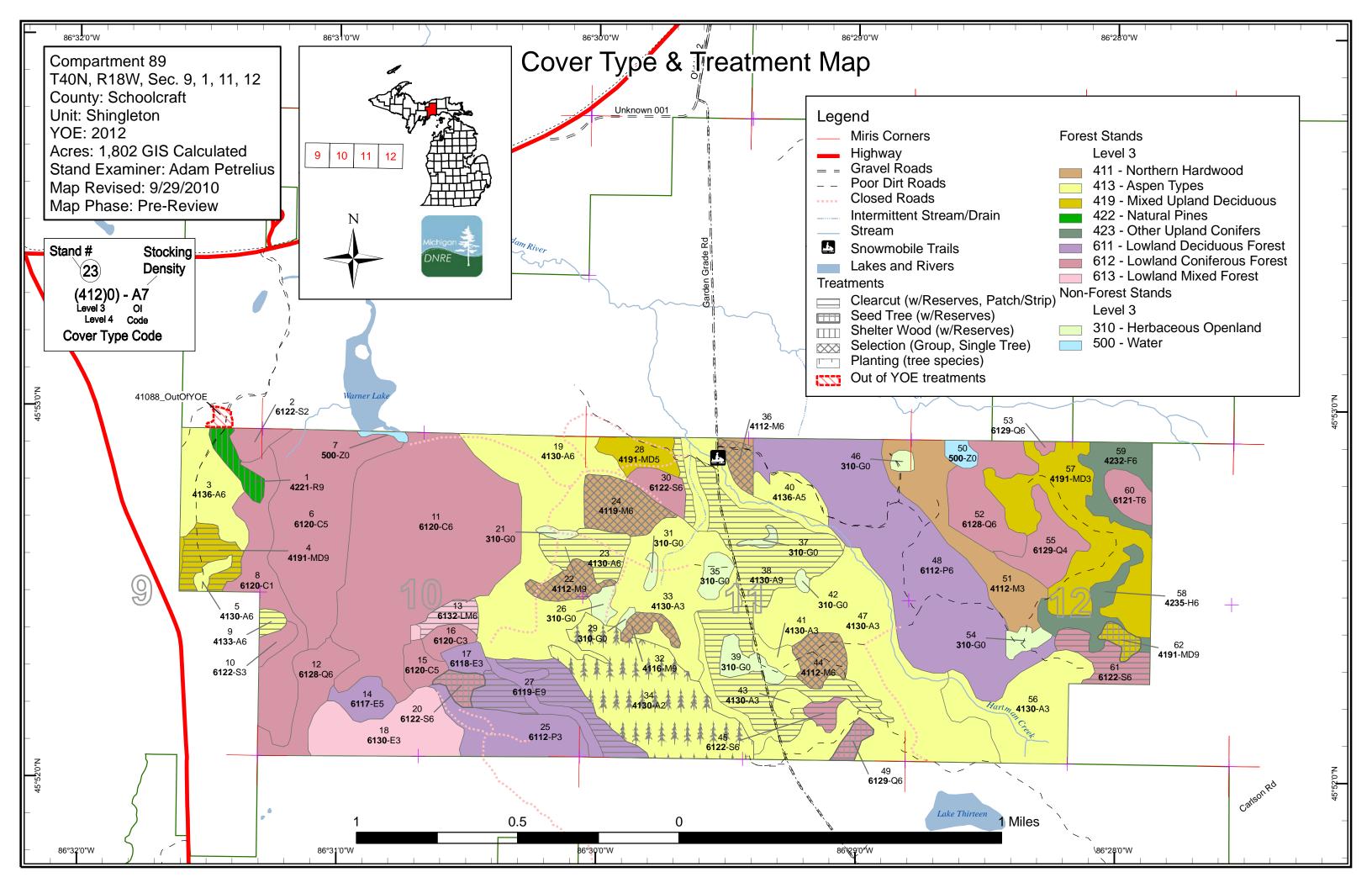
Recreational Facilities and Opportunities: The Cooks/Garden grade snowmobile trail travels through the middle of the compartment and receives moderate use by ORV riders also.

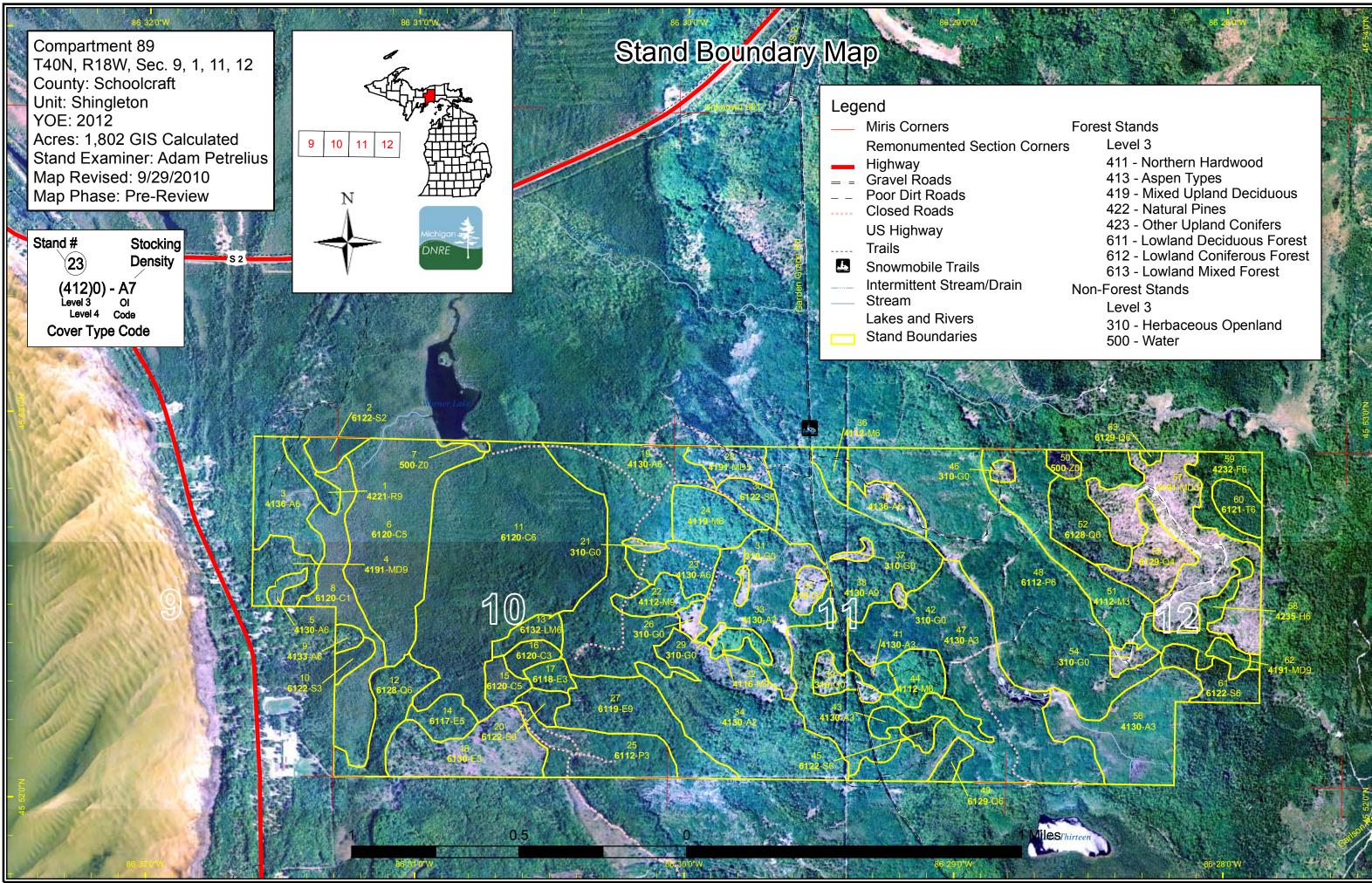
Fire Protection: Response time to fires within this compartment from the Thompson field office will be moderate to fast. The fire office is located 8 miles to the east, and travel would be along US-2. The compartment receives moderate use throughout fire season and human caused fires are a concern. Both spring and summer fires are likely to occur here. Mixed fuel types and higher humidity values make this area less conducive to a large wildfire. Water sources are abundant and include Lake Michigan, Little Fishdam River, and a small lake adjacent to the MDOT rest area. In 2007 a 41 acre fire burned in this compartment through a recently harvested aspen stand.

- > The following reports from the Inventory are attached:
 - Total Acres by Cover Type and Age Class
 - Proposed Treatment Summary
 - Proposed Treatments No Limiting Factors
 - Proposed Treatments With Limiting Factors
 - Stand Details (Forested and Nonforested)
 - Dedicated and Proposed Special Conservation Areas

> The following information is displayed, where pertinent, on the attached compartment maps:

- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Details on the road access system





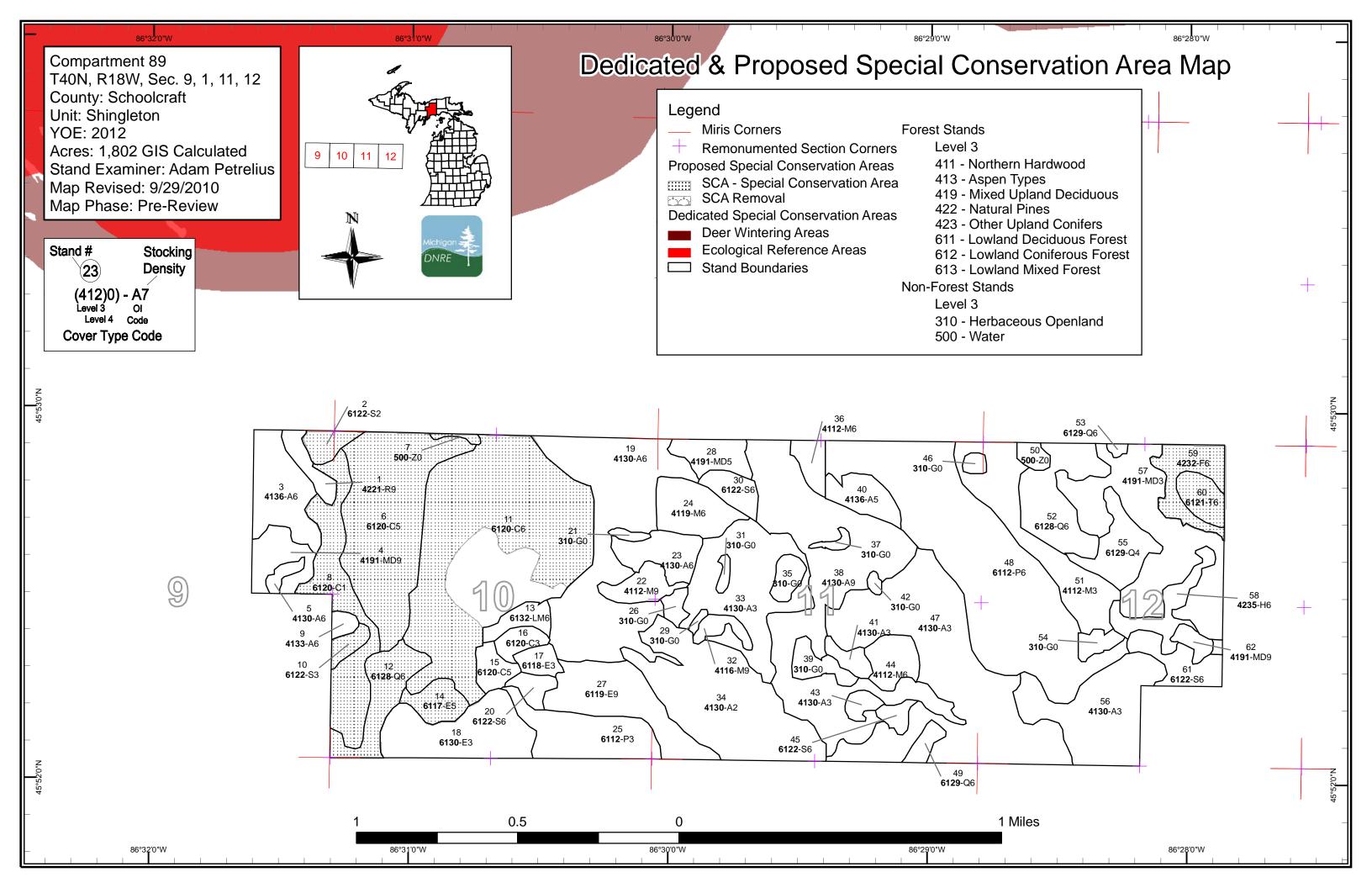


Table 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit

Data updated before 2:00 PM

Compartment 089 Year of Entry 2012



							Age										
	Hou	Asis and a supervised	6.z	6 ^{7,0}	6 ² ,0	67. 129	00-00-00-00-00-00-00-00-00-00-00-00-00-		69.00	R. P.	99-92- 99-92-	66:0	00 ⁻¹⁰⁰	611.021	AD X IN	es A	100
Aspen	0	96	62	215	36	105	0	152	0	0	0	0	0	0	0	666	
Cedar	0	0	0	7	0	49	0	0	0	0	103	0	0	0	190	350	
Hemlock	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	17	
Herbaceous Openland	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	1
Lowland Aspen/Balsam Poplar	0	0	0	196	0	0	0	0	0	0	0	0	0	0	0	196	
Lowland Conifers	0	0	0	0	0	0	23	27	0	5	36	0	0	0	0	91	
Lowland Deciduous	0	0	0	0	7	0	0	12	43	0	0	0	0	0	0	62	
Lowland Mixed Forest	0	0	45	0	0	0	0	9	0	0	0	0	0	0	0	54	
Lowland Spruce/Fir	0	0	0	0	0	13	0	10	0	11	17	0	0	0	0	52	
Mixed Upland Deciduous	0	81	0	0	14	0	0	22	0	0	0	0	0	0	0	117	
Northern Hardwood	0	0	0	48	0	0	0	0	18	46	0	0	0	0	0	112	
Red Pine	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9	
Tamarack	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11	
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	20	
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1
Total	45	177	107	466	57	167	23	232	70	94	174	0	0	0	190	1802	

Table 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit

Data	updated	before	2:00	PΜ
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Compartment 089 Total Compartment Acres: 1802

Year of Entry 2012	2									Total Compartment Acres:	
			A	Acres b	y Treatn	nent Ty	pe				
Commercial Harve	est - 291 Site	e Prep - 0		Tre	e Planting	g - 90		Presc	cribed Burn - 0	Other - 0	
Habitat Cut - 0	Op	ening Maintena	nce - 0	Tre	e Seeding	g - 0		Pestic	cide - 0		
				Cover	Type by	Harves	st Meth	nod			
	Aspen Herbaceous Or Lowland Conif Lowland Decid	ers luous		0 0 0	x b b b c c c c c c c c	0	0 0 0 0	122 2 32 32	See.		
	Lowland Mixed		8		0 C	0	0	8			
	Lowland Spruc			0	7 0	0	0	28			
	Mixed Upland		17	0	5 0	0	0	22			
	Northern Hardy	wood	0	63	0 C	0	0	63			
	Red Pine		0	0	9	0	0	9	[
		Total	202	63 ⁻	79	0	0	291			

S t		Data	-	leton Mgt. Unit ed before 2:00 F			atments Pres imiting Fact		Compartment: 089 Year of Entry 2012	
a n d		tment ame	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	41089	001-Cut	8.8	42210 - Natural Red Pine	High Density Log	77	Harvest	Shelterwood	Natural Red Pine	Cmpt. Review Proposal
Presci Specs	•		•	d white pine to 50 sq emlock and oak.	. ft. basal area to thi	cken crov	vns and prepare	for regeneration harve	est next year of entry. Cu	t all other
<u>Other</u> Comm	-								ment as soon as it is app nal retention, small stand	
<u>Next</u> Steps:	<u>:</u>	Evaluate	stand ne	ext year of entry for p	oossible regeneration	n havest.	Try to maintain i	nanagement objective	of natural red pine.	
4	41089	004-Cut		4191 - Mixed Upland Deciduous with Conifer	High Density Log	62	Harvest	Clearcut with Reserves	Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
Presci Specs									smaller diameter red pin daries in the west and so	
<u>Other</u> Comm									kept on top of ridge. Star artment 88 (2011 YOE) s	
<u>Next</u> Steps:	<u>:</u>	Acceptal	ble regen	eration includes any	mixture of species of	currently f	found onsite.			
9	41089	009-Cut	3.6	4133 - Aspen, Mixed Pine	High Density Pole	e 60	Harvest	Clearcut with Reserves	Aspen, Mixed Pine	Cmpt. Review Proposal
Presci Specs	•	Cut all s	pecies ex	cept hemlock, oak,	red pine, and white p	oine.				
<u>Other</u> Comm	- nents:	possible at compa	access is artment re	s through private. Do eview and combined	o not allow access of I into the same timbe	n state laı ersale as	nd through old g compartment 88	rowth SCA. Stand sho	eded from 1 or possibly and be set up as soon as . No additional retention, anteed.	it is approved
<u>Next</u> Steps:	<u>:</u>	Acceptal	hle regen		o of oppoing ourrant	ly found c	onsite.			
			ole regen	eration is any mixtur	e of species current	-				
13	41089	013-Cut	8.1	eration is any mixtur 6132 - Mixed Lowland Forest with Cedar	High Density Pole	-	Harvest	Clearcut with Reserves	Mixed Lowland Forest with Cedar	Cmpt. Review Proposal
Presci	ription		8.1 I	6132 - Mixed Lowland Forest with Cedar	High Density Pole	65	Harvest	Reserves		Proposal
<u>Presci Specs</u> <u>Other</u>	ription S:	Cut all s	8.1 I pecies ex	6132 - Mixed Lowland Forest with Cedar accept hemlock and o	High Density Pole ak. Leave some ced	e 65 lar for see	Harvest ed. These can be	Reserves	Forest with Cedar o patches, or adjacent to	Proposal
Presci Specs Other Comm Next	ription <u>s:</u> _ nents:	Cut all s Possible	8.1 L pecies ex creeks k	6132 - Mixed Lowland Forest with Cedar accept hemlock and o pocated in stand. Visi	High Density Pole ak. Leave some ced t on bare ground to o	e 65 lar for see determine	Harvest ed. These can be e locations. No ad	Reserves individual trees, grou dditional retention, sm	Forest with Cedar o patches, or adjacent to	Proposal
Presci Specs Other Comm Next Steps:	ription 3: - nents: :	Cut all s Possible	8.1 L pecies ex creeks k	6132 - Mixed Lowland Forest with Cedar accept hemlock and o pocated in stand. Visi	High Density Pole ak. Leave some ced t on bare ground to o ea following past har	e 65 lar for see determine vests. Ac	Harvest ed. These can be e locations. No ad	Reserves individual trees, grou dditional retention, sm	Forest with Cedar o patches, or adjacent to all stand.	Proposal
Presci Specs Other Comm Next Steps: 20 Presci	ription inents: 41089 ription	Cut all s Possible Cedar ha	8.1 L pecies ex creeks k as regene 6.6	6132 - Mixed Lowland Forest with Cedar accept hemlock and o pocated in stand. Visi erated well in this are	High Density Pole ak. Leave some ced t on bare ground to o ea following past har High Density Pole	e 65 lar for see determine vests. Ac	Harvest ed. These can be locations. No a ceptable regene	Reserves individual trees, grou dditional retention, sm ration includes any sp Seed Tree with	Forest with Cedar o patches, or adjacent to all stand. ecies mixture currently fo	Proposal o sale boundary. ound onsite. Cmpt. Review
Presci Specs Other Comm Next Steps: 20	ription 41089 	Cut all s Possible Cedar ha 020-Cut Cut all s	8.1 pecies ex creeks k as regene 6.6	6132 - Mixed Lowland Forest with Cedar accept hemlock and o pocated in stand. Visi erated well in this are 6122 - Black Spruce	High Density Pole ak. Leave some ced t on bare ground to o ea following past har High Density Pole and cedar.	e 65 lar for see determine vests. Ac e 82	Harvest ed. These can be e locations. No ac ceptable regene Harvest	Reserves individual trees, grou dditional retention, sm ration includes any sp Seed Tree with Reserves	Forest with Cedar o patches, or adjacent to all stand. ecies mixture currently fo	Proposal o sale boundary. ound onsite. Cmpt. Review

S t	D		ngleton Mgt. Unit ated before 2:00 F			atments Pre _imiting Fac		Compartment: 089 Year of Entry 2012	
a n d	Treatment Name	Acres	s Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	41089022-Ci	ı t 12.0	4112 - Maple, Beech, Cherry Association	High Density Log	70	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
Presc Specs		/ Complet	e Marker standards.						
<u>Other</u> Comm		nent trans	itions into aspen in the	e north. Keep this tra	insition z	one as hardwo	od management objective	e where possible.	
<u>Next</u> <u>Steps</u>		table rege	eneration includes any	species mixture cur	rently for	und onsite.			
23	41089023-Ci	it 18.6	4130 - Aspen	High Density Pole	60	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
Presc Specs		l species e	except hemlock and o	ak. No retention, sma	all stand				
<u>Other</u> Comm		nent trans	itions into hardwood i	n the north and south	n. Keep t	his transition zo	one as hardwood manage	ment objective where	possible.
<u>Next</u> Steps		table rege	eneration includes any	species mixture cur	rently for	und onsite.			
24	41089024-Ci	ıt 23.3	4119 - Mixed Northern Hardwoods	High Density Pole	85	Harvest	Single Tree Selection	Mixed Northern Hardwoods	Cmpt. Review Proposal
Presc Specs		/ Complete	e Marker Standards. [Do not cut hemlock a	nd oak.				
<u>Other</u> Comm	nents: Treatr	nent trans					ridge. Do not mark trees ood management objectiv		
<u>Next</u> Steps		table rege	eneration includes any	species mixture cur	rently for	und onsite.			
27	41089027-Ci	ıt 32.2	6119 - Mixed Lowland Deciduous Forest	High Density Log	75	Harvest	Clearcut with Reserves	Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<u>Presc</u> Specs		l species e	except hemlock and o	ak.					
<u>Other</u> Comm	-	creek 100) feet. Cut ridge in nor	theast if possible. Re	etention	lies in creek bu	ffers.		
<u>Next</u> Steps		table rege	eneration includes any	species mixture cur	rently for	und onsite.			
32	41089032-Cı	ı t 6.2	4116 - Mixed N. Hardwood - Aspen	High Density Log	76	Harvest	Single Tree Selection	Mixed N. Hardwood - Aspen	Cmpt. Review Proposal
Presc Specs		/ Complete	e Marker standards ar	nd beech bark guidel	ines.				
<u>Other</u> Comm		was left fo	or beech mast produc	tion 20 years ago.					
<u>Next</u> Steps		table rege	eneration includes any	species mixture cur	rently for	und onsite.			

S t		Data	-	leton Mgt. Unit ed before 2:00 F			atments Pre _imiting Fac		Compartment: 089 Year of Entry 2012	
a n d		tment ame	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36	41089	036-Cut	7.6	4112 - Maple, Beech, Cherry Association	High Density Pole	85	Harvest	Group Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
Presc Spece		Mark sor	ne group	s of trees to create r	egeneration holes. T	hicker a	reas can be thir	nned.		
<u>Other</u> Comr								ssues. Not many trees wi eate a few regen holes.	ill be marked since it w	as recently cut.
<u>Next</u> Steps	<u>):</u>				in regeneration gaps g. Mixed hardwood re			e based on deer densitie ptable.	s and wildlife division	
38	41089	038-Cut	99.5	4130 - Aspen	High Density Log	60	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
Presc Spece		Cut all sp	oecies ex	cept red pine, white	pine, hemlock, and o	oak.				
<u>Other</u> Comr								reatment should be looke its in northwest that need		
<u>Next</u> <u>Steps</u>	<u>):</u>	Acceptat	ole regen	eration includes any	species mixture cur	rently for	und onsite.			
44	41089	044-Cut	14.1	4112 - Maple, Beech, Cherry Association	High Density Pole	85	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
Presc Spece		Follow C	omplete	Marker standards.						
<u>Other</u> Comr	<u>.</u> nents:	Stand wa	as not ma	arked heavy enough	last year of entry. Ne	eeds sor	ne regeneration	holes.		
<u>Next</u> Steps	<u>):</u>	Acceptat	ole regen	eration includes any	species mixture cur	rently for	und onsite.			
45	41089	045-Cut	4.8 6	6122 - Black Spruce	High Density Pole	81	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal
Presc Spece		Do not c	ut hemloo	ck and oak. Cut all o	ther species.					
<u>Other</u> Comr	<u>_</u> nents:	No additi	onal rete	ntion, small stand.						
<u>Next</u> Steps	<u>):</u>	Acceptat	ole regen	eration includes any	species mixture curr	rently for	und onsite.			
49	41089	049-Cut	5.3 (6129 - Mixed Coniferous Lowland Forest	High Density Pole	84	Harvest	Seed Tree with Reserves	Mixed Coniferous Lowland Forest	Cmpt. Review Proposal
Presc Specs		Cut all sp	oecies ex	cept hemlock and oa	ak. Leave some large	e crown	red pine and wh	nite pine for seed.		
<u>Other</u> Comr	_			e some trees along s No additional retenti		f stand to	o satisfy green-u	up requirements. Lake 13	sale is adjacent to tre	atment and has
<u>Next</u> Steps	<u>):</u>	Acceptat	ole regen	eration includes any	species mixture cur	rently for	und onsite.			

S t						atments Pres .imiting Fact		Compartment: 089 Year of Entry 2012	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61	41089061-Cut	16.9	6122 - Black Spruce	High Density Pole	90	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal
Preso Spec		ut hemlo	ck, cedar, oak. Leave	some pine on high	er groun	d for seed.			
<u>Othe</u> Com								nt route into this portion of additional retention, sma	
<u>Next</u> Steps		ole regen	eration includes any s	pecies mixture cur	rently fou	und onsite.			
62	41089062-Cut	5.1	4191 - Mixed Upland Deciduous with Conifer	High Density Log	65	Harvest	Seed Tree with Reserves	Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
Preso Spec		oecies ex	ccept hemlock, cedar,	oak. Leave some l	arge pine	e trees for seed.			
<u>Othe</u> Com								nt route into this portion of additional retention, small	
<u>Next</u> Steps		0		re of species curre	ntly foun	d onsite. Pine se	ed trees are being left	in hopes of maintaining	a pine
37	NF_41089037- Cut	2.3	Non-Forested		0	Harvest	Clearcut with Reserves	Mixed Upland Herbaceous	Cmpt. Review Proposal
Prese Spec		ut hemlo	ck, oak, red pine, and	white pine.					
<u>Othe</u> Com	<u>r</u> Small gra <u>ments:</u>	ass stand	d surrounded by an as	pen forest type wh	ich is goi	ng to be harveste	ed. No additional reter	ition, small stand.	
<u>Next</u> Steps		jective is	acceptable.						
34	41089034- Plant	90.1	4130 - Aspen	Medium Density Saplin	4	Tree Planting	Hand Plant	Aspen	Cmpt. Review Proposal
Preso Spec			oak, or white spruce w dlife division recomme				of the listed species de	pending on availability o	f trees, deer
<u>Othe</u> Com	rStand bu ments: fill in emp			en flushed back, b	ut there a	are empty holes t	that woud be suitable t	or planting to add divers	ity to stand and
<u>Next</u> Steps									
	Total Treatmen	t							

Total Treatment Acreage Proposed: 381.5

S t	Data	•	eton Mgt. Unit d before 2:00 PM	Table 4		ents Prescrib ng Factor	ed with	Compartment: 089 Year of Entry 2012	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Presc Specs	ription <u>s:</u>								
<u>Other</u> Comn									
<u>Next</u> <u>Steps</u>	<u>:</u>								
	ng Factor and N ment Reason	<u>0</u>							
Ac	Total Treatmer reage Propose		0						

Out of VOE Troatmonte

Year of Entry: 2012



-			Dr		YOE Tre	eatments miting Factor	Year of Entry: 2	012
Ľ	Data upda	ated before 2:00 PM	FI	escriber		initing racio		DNRE
Treatmer Name	nt Acre	s Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41039_Out OE-Cut					Harvest	Clearcut with Reserves	Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
Prescription Specs:	Cut all tree	s except hemlock and oa	k. Leave a few	red pine an	d white pine fo	r seed.		
Comments:	havest may feet. Buffer	his stand will involve the / be needed. Survey work Smith creek 100 feet. Th lude the very dense patch	a may be neede lese will be the	d. There is	a creek / drain	age located in southern p	art of stand, it runs ea	st/west. Buffer 50
		ine on ridges to maintain s mixture currently found		w ground s	hould regenera	te to mixed species. Acce	eptable management c	bjectives includes
41049_Out OE-Cut					Harvest	Single Tree Selection	Natural Red Pine	Cmpt. Review Proposal
		cies except red pine ,oak, nd thin thicker areas of po		d hemlock.	Red pine and	white pine should be mar	ked. Create regenerati	on holes where
		comments. Winter harve poils. Protect existing rec				nto treatment area. Buffe	r on Walsh Ditch shoul	d be placed at the
<u>Next</u> Steps:	Natural ree	generation of red pine, jac	k pine, and wh	ite pine is a	cceptable. Pla	nt red pine if regeneration	ı fails.	
41088_Out OE-Cut					Harvest	Shelterwood	Natural Red Pine	Cmpt. Review Proposal
		ine and white pine to 50 s cept hemlock and oak.	q. ft. basal area	a to thicken	crowns and pr	epare for regeneration ha	rvest next year of entr	y. Cut all other
		tment as soon as it is app etention, small stand.	proved at comp	artment rev	view in order to	combine it into one timbe	ersale with Comparmer	nt 88, stand 43. No
<u>Next</u> <u>Steps:</u>	Evaluate st	and next year of entry for	possible regen	eration hav	est. Try to mai	ntain management object	tive of natural red pine.	
41118_Out OE_1-Cu					Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal
Prescription Specs:	Cut all Jacl	< Pine and mark Red and	White Pine to 9	90 BA				
<u>Other</u> Comments:	Cut with sta	and 34 comp 117						
<u>Next</u> Steps:								
41179_Out OE-Cut					Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
Specs:	species va	F using selection system riation across it, thin to im as of less shade tolerant	prove diversity	favor reten	tion of mesic c	onfers. In areas of beech	use beach bark marki	ng guidelines. Place
Comments:		regeneration is a mix of lock and White Pine	hardwood spec	ies includin	g Sugar maple	, Red maple, Basswood,	Black Cherry, Yellow E	Birch, Aspen, White
<u>Next</u> <u>Steps:</u>								
	reatment Proposed:	45.1						

45.1 Acreage Proposed:

S t	Shingleton Mgt. Unit			5 – For Data update	ested Stan		Compartment: 089 Year of Entry: 2012		
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:		
1	42210 - Natural Red Pine	High Density Log	8.8	77	111-140				
2	6122 - Black Spruce	Medium Density	7.7	45		роо	r site, stunted trees		
3	4136 - Aspen, Mixed Conifer	High Density Pole	32.9	33					
4	4191 - Mixed Upland Deciduous with Conifer	High Density Log	17.2	62					
5	4130 - Aspen	High Density Pole	3.6	32		Ne	ew stand added.		
6	6120 - Lowland Cedar	Medium Density Pole	94.2	90		floode	d, a lot of dead cedar		
8	6120 - Lowland Cedar	Low Density Sapling	49.2	40		dead cedar poles throu	ghout. sparse cedar sapling	gs. flooded	
9	4133 - Aspen, Mixed Pine	High Density Pole	3.6	60					
10	6122 - Black Spruce	High Density Sapling	5.3	45					
11	6120 - Lowland Cedar	High Density Pole	190.2	Uneven Age		small strip cuts and par	rch cuts scattered throughou harvests vary.	ut. ages of	
12	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	25.3	60					
13	6132 - Mixed Lowland Forest with Cedar	High Density Pole	9.0	65					
14	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	11.9	60					
15	6120 - Lowland Cedar	Medium Density Pole	8.7	90					
16	6120 - Lowland Cedar	High Density Sapling	7.3	22					
17	6118 - Lowland Deciduous with Cedar	High Density Sapling	6.8	33					
18	6130 - Fir, Aspen, Maple	High Density Sapling	45.2	14					
19	4130 - Aspen	High Density Pole	104.6	40					

Shingletor	n Mgt. Unit				
Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6122 - Black Spruce	High Density Pole	6.6	82		
4112 - Maple, Beech, Cherry Association	High Density Log	12.0	70	111-140	
4130 - Aspen	High Density Pole	18.6	60		
4119 - Mixed Northern Hardwoods	High Density Pole	23.3	85	111-140	quality white ash in sw corner
6112 - Lowland Aspen	High Density Sapling	36.2	25		
6119 - Mixed Lowland Deciduous Forest	High Density Log	43.3	75		
4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	14.1	33		
6122 - Black Spruce	High Density Pole	10.3	68		
4116 - Mixed N. Hardwood - Aspen	High Density Log	6.2	76	111-140	small hardwood ridge surrounded by young aspen
4130 - Aspen	High Density Sapling	61.7	15		Northern portion of stand blew over in 1997. Oak was planted by WLD in this area.
4130 - Aspen	Medium Density	90.1	4		Last Shot Aspen (2005) .TSI in 2005. most of stand burned shortly after harvest
4112 - Maple, Beech, Cherry Association	High Density Pole	8.4	85	81-110	Last Shot Aspen (2005).
4130 - Aspen	High Density Log	129.8	60		pockets of younger (25 to 35 year old) aspen exist in stand. southern portion of stand was saved last yoe for age class distribution
4136 - Aspen, Mixed Conifer	Medium Density Pole	14.8	23		sparse with grass pockets
4130 - Aspen	High Density Sapling	6.1	4		Last Shot Aspen (2005). TSI in 2005. Regen is good.
4130 - Aspen	High Density Sapling	4.8	23		
4112 - Maple, Beech, Cherry Association	High Density Pole	14.1	85	1-50	Last Shot Aspen (2005) . basal area points- 13,10,10,15,15. Stand was not marked heavy enough and is lacking regeneration
6122 - Black Spruce	High Density Pole	4.8	81		
	Level 4 Cover Type 6122 - Black Spruce 4112 - Maple, Beech, Cherry Association 4130 - Aspen 4119 - Mixed Northern Hardwoods 6112 - Lowland Aspen 6119 - Mixed Lowland Deciduous Forest 4191 - Mixed Upland Deciduous with Conifer 6122 - Black Spruce 6122 - Black Spruce 4130 - Aspen 4130 - Aspen	Cover TypeDensity6122 - Black SpruceHigh Density Pole4112 - Maple, Beech, Cherry AssociationHigh Density Log4130 - AspenHigh Density Pole6112 - Lowland AspenHigh Density Sapling6112 - Lowland AspenHigh Density Log6119 - Mixed Lowland Deciduous ForestMedium Density Pole6122 - Black SpruceHigh Density Pole6122 - Black SpruceHigh Density Log4130 - AspenHigh Density Log4130 - AspenMedium Density Sapling4130 - AspenHigh Density Log4130 - AspenHigh Density Log4130 - AspenHigh Density Sapling4130 - AspenHigh Density Pole4130 - AspenHigh Density Sapling4130 - AspenHigh Density Pole4130 - Aspen <td>Level 4 Cover TypeSize DensityAcres6122 - Black SpruceHigh Density Pole6.64112 - Maple, Beech, Cherry AssociationHigh Density Log12.04130 - AspenHigh Density Pole23.36112 - Lowland AspenHigh Density Sapling36.26112 - Lowland AspenHigh Density Log36.26119 - Mixed Lowland Deciduous ForestHigh Density Log36.26119 - Mixed Lowland Deciduous ForestHigh Density Density Pole14.16122 - Black SpruceHigh Density Pole10.34116 - Mixed N. 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S t	Shingleton	Mgt. Unit			orested Sta		Compartment: 089 Year of Entry: 2012
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:
47	4130 - Aspen	High Density Sapling	138.8	23		ridgetop	os have some older trees that were left
48	6112 - Lowland Aspen	High Density Pole	159.5	26		Stand was cut be	etween 1982 and 1987. Mixture of lowland and upland ridges.
49	6129 - Mixed Coniferous Lowland Forest	High Density Pole	5.3	84			
51	4112 - Maple, Beech, Cherry Association	High Density Sapling	48.0	29			
52	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	36.5	90			
53	6129 - Mixed Coniferous Lowland Forest	High Density Pole	1.4	60			
55	6129 - Mixed Coniferous Lowland Forest	Low Density Pole	22.6	56		white pine 6ft, c harvest is nov regeneration on h	ch Sale (2004) - Residual values - hemlock 32f herry 2 ft.regen good. Residual hemlock from v canopy. regeneration is subcanopy. Good higher ground with many species. Lower ground spruce and regeneration is a little more sparse but should fill in.
56	4130 - Aspen	High Density Sapling	57.0	23			
57	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	80.9	5		white pine 1 ft, ch	ch Sale (2004) - Residual values - hemlock 5ft herry 2 ft. TSI completed in 2005. Alot of cherry d mix of other species beneath cherry canopy.
58	42350 - Upland Hemlock	High Density Pole	17.5	95			
59	42320 - Upland Spruce	High Density Pole	20.4	85			
60	6121 - Tamarack	High Density Pole	11.4	85			
61	6122 - Black Spruce	High Density Pole	16.9	90			
62	4191 - Mixed Upland Deciduous with Conifer	High Density Log	5.1	65			New stand added.

Shingleton Mgt. Unit

6 – Nonforested Stands

Compartment: 089 Year of Entry: 2012



Data updated before 2:00 PM

Stand	Cover Type	Acres	Gen Cmts:
7	50 - Water	1.6	
21	310 - Herbaceous Openland	2.1	
26	310 - Herbaceous Openland	4.3	
29	310 - Herbaceous Openland	1.2	
31	310 - Herbaceous Openland	2.2	
35	310 - Herbaceous Openland	7.0	
37	310 - Herbaceous Openland	2.3	
39	310 - Herbaceous Openland	9.4	
42	310 - Herbaceous Openland	1.6	
46	310 - Herbaceous Openland	2.7	
50	50 - Water	4.5	Stand swapped from Forested to Non-Forested.
54	310 - Herbaceous Openland	5.7	



7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Data updated before 2:00 PM

Stand	SCA Type	SCA Name	Acres	Comments
multiple - see	Unique Site - SCA	41089_SCA_east	31.9	Stands were previously designated by wildlife division as potential old growth. These stands form a dense conifer habitat corridor in close proximatey to the deer wintering complex. Management goals are to maintain dense cover and mature trees in these stands.
multiple - see	Unique Site - SCA	41089_SCA_west	345.4	Stands were previously designated by wildlife division as potential old growth. These stands form a dense conifer habitat corridor in close proximatey to the deer wintering complex. Management goals are to maintain dense cover and mature trees in these stands.



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservation Area	Туре	Description	Data updated before 2:00 PM	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area