

COUNTY FOREST COMPREHENSIVE LAND USE PLAN

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**CHAPTER 3000**

**ACCOMPLISHMENTS & MONITORING**

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### **3000 OBJECTIVE AND POLICY**

#### **OBJECTIVE**

To provide a quantifiable means of evaluating progress on both short and long term goals on the Polk County Forest.

#### **POLICY**

Annual accomplishments will be recorded as a historical record, to assist in future planning, and to provide documentation for both the County, and the County Forest system. This information is invaluable in addressing public, County Board, and other legislative inquiries on the operation of the Forest as well as assessing progress on goals.

### **3100 ANNUAL ACCOMPLISHMENT REPORTS**

A copy of an annual accomplishment report shall be prepared and provided to members of the County Board and to official copyholders of this Plan for inclusion into this chapter.

This report shall include, at a minimum, the following:

1. Timber sale accomplishments including gross and net sale receipts and harvest goals achieved.
2. Timber stand improvements accomplishments.
3. Recreation development and maintenance accomplishments including recreation revenues and expenses.
4. Wildlife management accomplishments including revenues and expenses.
5. Fisheries management accomplishments including revenues and expenses.
6. Other accomplishments identified as “needs” in Chapter 1000.

### 3200 PAST ACCOMPLISHMENTS

#### 3210 FOREST PRODUCTS

##### 3210.1 Timber

###### Polk County Forest Timber Sales

Year	# of Sales	Sawtimber MBF	Pulpwood Cords	Acres cut	Total Cord Equivalents	Sales value
1996	6	49.00	3,397	365	3,495	\$80,720.00
1997	6	18.00	3,373	343	3,409	\$78,154.00
1998	3	8.00	3,419	222	3,435	\$90,260.00
1999	4	18.00	4,723	324	4,759	\$129,782.00
2000	5	142.00	4,912	454	5,196	\$151,854.00
2001	4	27.00	4,254	305	4,308	\$124,481.00
2002	2	0.00	5,677	441	5,677	\$175,139.00
2003	9	213.00	7,257	716	7,683	\$275,856.00
2004	11	501.00	13,858	933	14,894	\$482,267.00
2005	7	131.97	4,802	612	5,093	\$180,011.35
2006	5	127.78	3,705	331	3,986	\$137,241.57
2007	6	853.01	7,528	615	9,404	\$523,855.88
2008	9	536.82	18,748	884	19,929	\$687,658.54
2009	3	31.80	2,947	176	3,017	\$90,920.25
2010	2	6.00	1,708	65	1,722	\$38,650.68
2011	6	12.00	6,856	369	6,883	\$201,368.93
2012	13	942.15	12,219	894	14,292	\$510,197.25
2013	8	0.00	6,379	512	6,379	\$115,112.96
2014	13	43.72	9,254	683	9,350	\$225,489.50
2015	8	40.00	4,093	414	4,181	\$146,115.03
TOTAL	130	3,701.25	129,109	9,658	137,092	\$4,445,134.94

##### 3210.2 Non-timber forest products

One permit was granted for big bluestem seed collection.

## 3220 REFORESTATION

### 3220.1 Hand Tree Planting Table

Year	Acres	Total Trees	Red Pine	Jack Pine	White Pine	Tamarack	Hardwoods	White Spruce
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	142	136,000	83,000	40,000	8,000	5,000	0	0
1999	28	25,000	8,000	9,000	0	8,000	0	0
2000	45	32,000	18,000	8,000	3,000	3,000	0	0
2001	163	147,000	108,000	29,000	10,000	0	0	0
2002	224	190,000	139,000	38,000	9,000	0	4,000	0
2003	254	246,000	195,000	34,000	17,000	0	0	0
2004	305	252,000	207,000	12,000	26,000	0	7,000	0
2005	204	140,000	130,000	0	10,000	0	0	0
2006	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0
2008	197	180,000	143,000	28,000	9,000	0	0	0
2009	128	103,000	89,000	14,000	0	0	0	0
2010	167	154,000	154,000	0	0	0	0	0
2011	59	36,000	0	36,000	0	0	0	0
2012	172	145,000	75,000	70,000	0	0	0	0
2013	51	45,000		30,000	0	3,000	0	12,000
2014	152	125,200	24,000	100,000	0	1,200	0	0
2015	0	0	0	0	0	0	0	0
2016	76	61,000	61,000	0	0	0	0	0
<b>Totals</b>	<b>2367</b>	<b>2,017,200</b>	<b>1,434,000</b>	<b>448,000</b>	<b>92,000</b>	<b>20,200</b>	<b>11,000</b>	<b>12,000</b>

### 3220.2 Aerial Seeding Table

YEAR	ACRES	SEED TYPE	AMOUNT (lbs)
1996-2003	None	-	-
2004	-	White Pine	2
2005			
2006			
2007	162	Jack Pine	40
2008			
2009	224	Jack Pine	61
2010	311	Jack Pine White Pine	92 4.25
2011	52	Jack Pine	15
2012	None	-	-
2013	None		
2014	None		
2015	None		
<b>TOTALS</b>			<b>214.25</b>

## 3230 TIMBER STAND IMPROVEMENT / RELEASE

<b>YEAR</b>	<b>ACRES</b>	<b>PRACTICE</b>	<b>METHOD</b>
1996-2001	0	-	-
2002	53	PLANTATION RELEASE	MECHANICAL/HAND
2003	16	PLANTATION RELEASE	MECHANICAL/HAND
2004	212	PLANTATION RELEASE	AERIAL HERBICIDE
2005	0	-	-
2006	49.8	PLANTATION RELEASE	MECHANICAL/HAND
2007	25.4	PLANTATION RELEASE	MECHANICAL/HAND
2008	0	NONE	-
2009	0	NONE	-
2010	0	NONE	-
2011	0	NONE	-
2012	0	NONE	-
2013	0	NONE	
2014	0	NONE	
2015	0	NONE	
<b>TOTAL</b>	<b>356.2</b>		

## 3300 MONITORING

### 3310 FOREST TYPES



#### Forest Structure - Past, Present, Future

Print Date: 1/23/2013  
Report 207

##### 4900 - POLK COUNTY FOREST

Timber Text	Acres Past (1977)	Acres Present (2013)	Acres Future
ASPEN	1,896	3,446	3,451
BLACK SPRUCE	0	2	2
JACK PINE	6,260	2,842	3,059
NORTHERN HARDWOODS	2,941	576	3,487
OAK	1,887	3,441	534
RED MAPLE	0	19	70
RED PINE	324	1,413	1,454
SCRUB OAK	877	3,967	3,598
SWAMP HARDWOODS	24	81	81
TAMARACK	97	66	66
WHITE BIRCH	0	15	6
WHITE PINE	0	130	217
WHITE SPRUCE	0	9	9
<b>Total :</b>	<b>14,306</b>	<b>16,007</b>	<b>16,034</b>



#### Forest Structure - Past, Present, Future

Print Date: 1/23/2013  
Report 207

##### 4900 - POLK COUNTY FOREST

EMERGENT VEGETATION	0	181	181
HERBACEOUS VEGETATION	0	33	24
LOWLAND BRUSH	0	38	38
LOWLAND BRUSH - ALDER	113	178	178
LOWLAND GRASS	0	19	19
LOWLAND HERBACEOUS VEGETATION	0	100	100
MARSH	297	51	51
MINOR LAKE	0	126	126
MINOR STREAM	0	58	58
MUSKEG BOG	0	45	45
RIGHT OF WAY	0	33	33
TRUE GRASSES	48	0	0
UPLAND BRUSH	314	29	23
UPLAND GRASS	6	46	34
WATER	0	70	70
<b>Total :</b>	<b>778</b>	<b>1,007</b>	<b>980</b>

Changes in forest type acreages are due to a number of different factors. Loss in jack pine acreage is due to difficulty in naturally regenerating this species. Gain in aspen and oak types is mainly due to retying the northern hardwood type to more accurately describe the forest cover.

# POLK COUNTY FOREST

## ASPEN



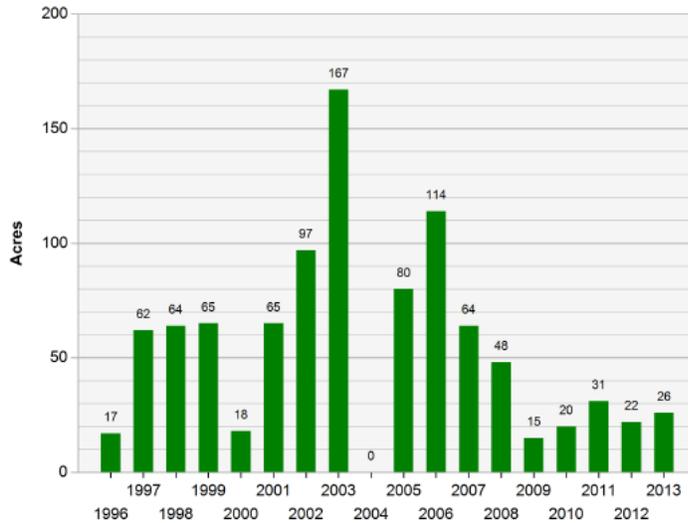
### Harvest Establishment by Forest Type

Print Date: 1/23/2013  
Report 302

4900 - POLK COUNTY FOREST

ASPEN

Calendar Year	Acres
1996	17
1997	62
1998	64
1999	65
2000	18
2001	65
2002	97
2003	167
2004	0
2005	80
2006	114
2007	64
2008	48
2009	15
2010	20
2011	31
2012	22
2013	26
<b>Total:</b>	<b>975</b>



## NORTHERN HARDWOOD



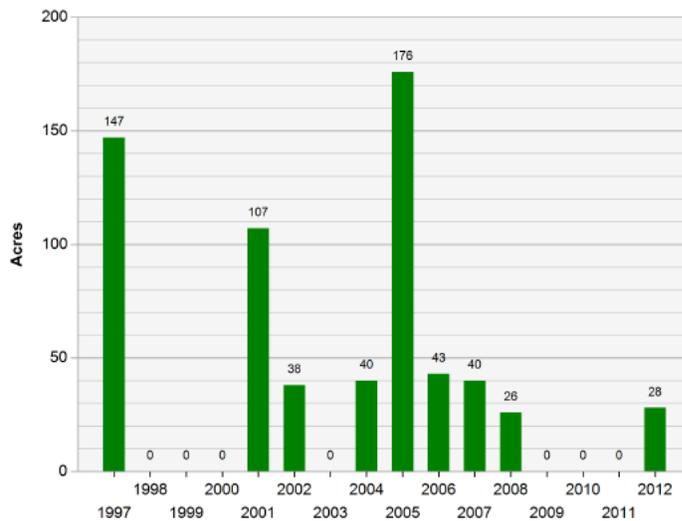
### Harvest Establishment by Forest Type

Print Date: 1/23/2013  
Report 302

4900 - POLK COUNTY FOREST

NORTHERN HARDWOODS

Calendar Year	Acres
1997	147
1998	0
1999	0
2000	0
2001	107
2002	38
2003	0
2004	40
2005	176
2006	43
2007	40
2008	26
2009	0
2010	0
2011	0
2012	28
<b>Total:</b>	<b>645</b>



# OAK



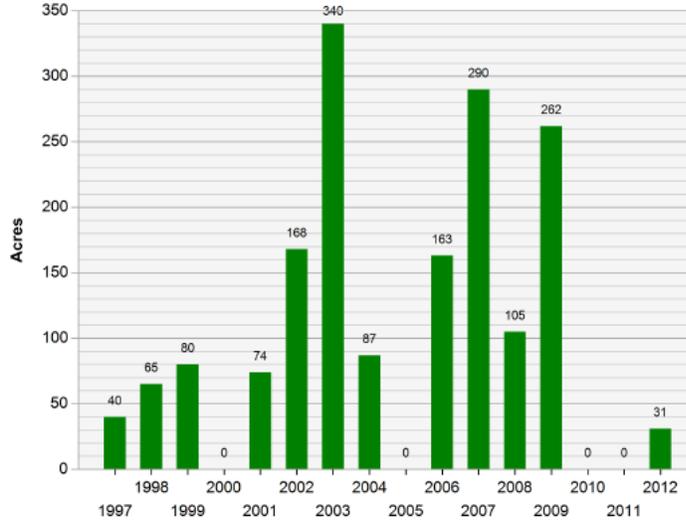
## Harvest Establishment by Forest Type

Print Date: 1/23/2013  
Report 302

4900 - POLK COUNTY FOREST

OAK

Calendar Year	Acres
1997	40
1998	65
1999	80
2000	0
2001	74
2002	168
2003	340
2004	87
2005	0
2006	163
2007	290
2008	105
2009	262
2010	0
2011	0
2012	31
<b>Total:</b>	<b>1,705</b>



# SCRUB OAK



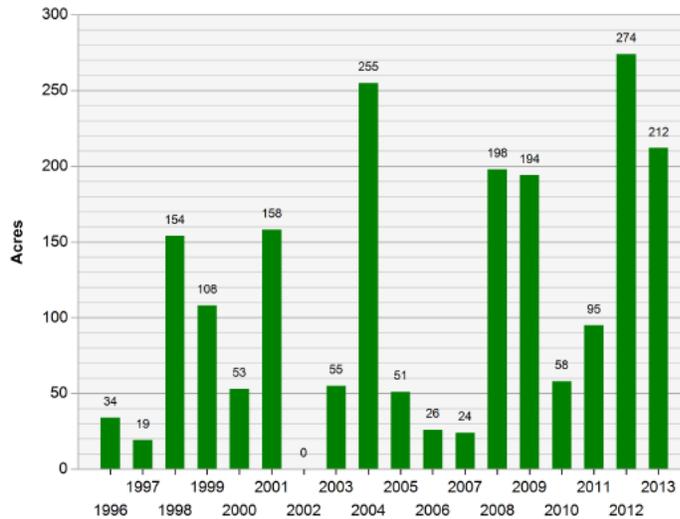
## Harvest Establishment by Forest Type

Print Date: 1/23/2013  
Report 302

4900 - POLK COUNTY FOREST

SCRUB OAK

Calendar Year	Acres
1996	34
1997	19
1998	154
1999	108
2000	53
2001	158
2002	0
2003	55
2004	255
2005	51
2006	26
2007	24
2008	198
2009	194
2010	58
2011	95
2012	274
2013	212
<b>Total:</b>	<b>1,968</b>



# JACK PINE



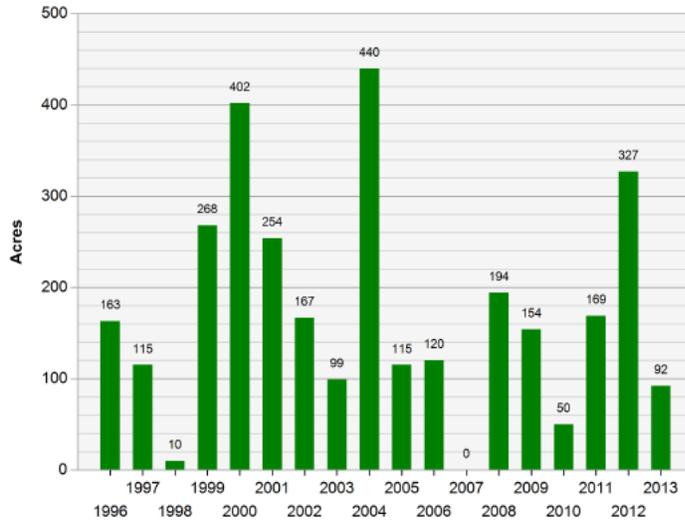
## Harvest Establishment by Forest Type

Print Date: 1/23/2013  
Report 302

4900 - POLK COUNTY FOREST

JACK PINE

Calendar Year	Acres
1996	163
1997	115
1998	10
1999	268
2000	402
2001	254
2002	167
2003	99
2004	440
2005	115
2006	120
2007	0
2008	194
2009	154
2010	50
2011	169
2012	327
2013	92
<b>Total:</b>	<b>3,139</b>



# RED PINE



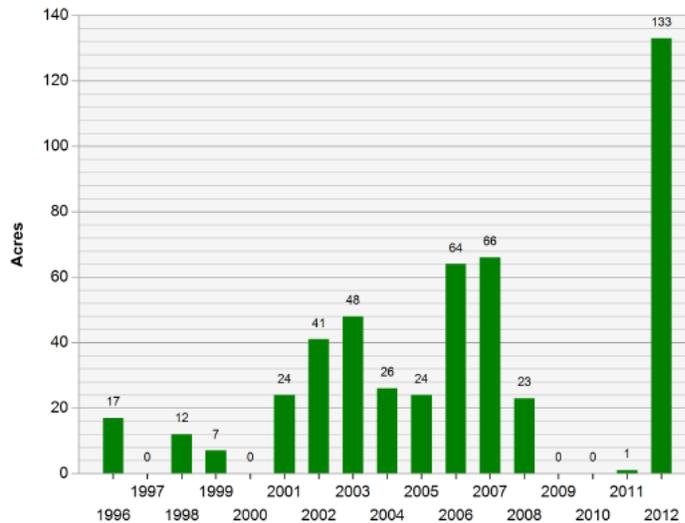
## Harvest Establishment by Forest Type

Print Date: 1/23/2013  
Report 302

4900 - POLK COUNTY FOREST

RED PINE

Calendar Year	Acres
1996	17
1997	0
1998	12
1999	7
2000	0
2001	24
2002	41
2003	48
2004	26
2005	24
2006	64
2007	66
2008	23
2009	0
2010	0
2011	1
2012	133
<b>Total:</b>	<b>486</b>



# ALL SALES

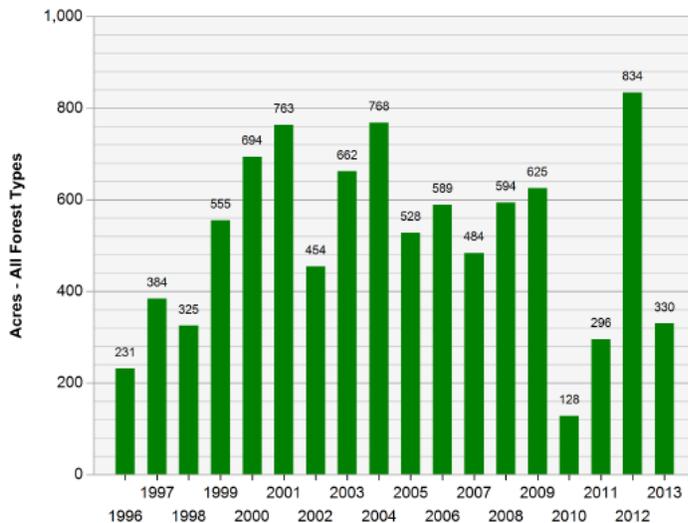


## Harvest Establishment History

Print Date: 1/23/2013  
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### 4900 - POLK COUNTY FOREST

Calendar Year	Acres
1996	231
1997	384
1998	325
1999	555
2000	694
2001	763
2002	454
2003	662
2004	768
2005	528
2006	589
2007	484
2008	594
2009	625
2010	128
2011	296
2012	834
2013	330
<b>Total:</b>	<b>9,244</b>



## Harvest Establishment Monitoring

Print Date: 1/23/2013  
Report 303

### 4900 - POLK COUNTY FOREST

Year	Forest Type	Established (acres)	*Deferred (acres)	Accomplishment	Annual Goal (acres)	Annual Difference	Annual Percentage	Long Term Goal (acres)	Long Term Difference	Long Term Percentage
2013	A	26	0	26	171	-145	15	26	0	100
2013	BW	0	0	0	0	0	0	1	-1	0
2013	NH	0	0	0	0	0	0	30	-30	0
2013	O	0	0	0	235	-235	0	218	-218	0
2013	OX	212	0	212	93	119	228	81	131	262
2013	PJ	92	0	92	60	32	153	80	12	115
2013	PR	0	0	0	3	-3	0	43	-43	0
2013	PW	0	0	0	0	0	0	8	-8	0
2013	SW	0	0	0	0	0	0	1	-1	0
<b>Total:</b>		<b>330</b>	<b>0</b>	<b>330</b>	<b>562</b>	<b>-232</b>	<b>58.72 %</b>	<b>488</b>	<b>-158</b>	<b>67.62 %</b>
2012	A	22	0	22	185	-163	12	26	-4	85
2012	BW	0	0	0	0	0	0	1	-1	0
2012	NH	28	0	28	64	-36	44	31	-3	90
2012	O	31	0	31	208	-177	15	178	-147	17
2012	OX	274	0	274	71	203	386	84	190	326
2012	PJ	327	0	327	222	105	147	89	238	367
2012	PR	133	40	173	25	148	692	42	131	412
2012	PW	0	0	0	0	0	0	8	-8	0
2012	SW	0	0	0	0	0	0	1	-1	0
<b>Total:</b>		<b>815</b>	<b>40</b>	<b>855</b>	<b>775</b>	<b>80</b>	<b>110.32 %</b>	<b>460</b>	<b>395</b>	<b>185.87 %</b>



# Harvest Establishment Monitoring

Print Date: 1/23/2013  
Report 303

## 4900 - POLK COUNTY FOREST

Year	Forest Type	Established (acres)	*Deferred (acres)	Accomplishment	Annual Goal (acres)	Annual Difference	Annual Percentage	Long Term Goal (acres)	Long Term Difference	Long Term Percentage
2011	A	31	0	31	166	-135	19	29	2	107
2011	BW	0	0	0	0	0	0	1	-1	0
2011	MR	0	0	0	19	-19	0	1	-1	0
2011	NH	0	0	0	0	0	0	27	-27	0
2011	O	0	0	0	58	-58	0	163	-163	0
2011	OX	95	0	95	114	-19	83	97	-2	98
2011	PJ	169	0	169	99	70	171	95	74	178
2011	PR	1	0	1	35	-34	3	40	-39	2
2011	PW	0	0	0	0	0	0	8	-8	0
2011	SW	0	0	0	0	0	0	1	-1	0
<b>Total:</b>		<b>296</b>	<b>0</b>	<b>296</b>	<b>491</b>	<b>-195</b>	<b>60.29 %</b>	<b>462</b>	<b>-166</b>	<b>64.07 %</b>
2010	A	20	0	20	127	-107	16	29	-9	69
2010	MR	0	0	0	0	0	0	1	-1	0
2010	NH	0	0	0	13	-13	0	27	-27	0
2010	O	0	0	0	173	-173	0	202	-202	0
2010	OX	58	0	58	120	-62	48	74	-16	78
2010	PJ	50	0	50	54	-4	93	106	-56	47
2010	PR	0	0	0	0	0	0	32	-32	0
2010	PW	0	0	0	0	0	0	6	-6	0
2010	SW	0	0	0	0	0	0	1	-1	0
<b>Total:</b>		<b>128</b>	<b>0</b>	<b>128</b>	<b>487</b>	<b>-359</b>	<b>26.28 %</b>	<b>478</b>	<b>-350</b>	<b>26.78 %</b>



# Harvest Establishment Monitoring

Print Date: 1/23/2013  
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## 4900 - POLK COUNTY FOREST

Year	Forest Type	Established (acres)	*Deferred (acres)	Accomplishment	Annual Goal (acres)	Annual Difference	Annual Percentage	Long Term Goal (acres)	Long Term Difference	Long Term Percentage
2009	A	15	0	15	127	-112	12	30	-15	50
2009	MR	0	0	0	0	0	0	1	-1	0
2009	NH	0	0	0	67	-67	0	36	-36	0
2009	O	262	0	262	55	207	476	203	59	129
2009	OX	194	16	210	74	136	284	79	131	266
2009	PJ	154	0	154	81	73	190	114	40	135
2009	PR	0	0	0	0	0	0	32	-32	0
2009	PW	0	0	0	0	0	0	4	-4	0
2009	SH	0	0	0	0	0	0	4	-4	0
2009	SW	0	0	0	0	0	0	1	-1	0
<b>Total:</b>		<b>625</b>	<b>16</b>	<b>641</b>	<b>404</b>	<b>237</b>	<b>158.66 %</b>	<b>504</b>	<b>137</b>	<b>127.18 %</b>
2008	A	48	0	48	220	-172	22	43	5	112
2008	NH	26	0	26	65	-39	40	42	-16	62
2008	O	105	0	105	456	-351	23	182	-77	58
2008	OX	198	0	198	240	-42	82	104	94	190
2008	PJ	194	0	194	92	102	211	104	90	187
2008	PR	23	0	23	89	-66	26	30	-7	77
2008	PW	0	0	0	0	0	0	5	-5	0
2008	SH	0	0	0	59	-59	0	4	-4	0
2008	SW	0	0	0	0	0	0	1	-1	0
2008	T	0	0	0	41	-41	0	3	-3	0
<b>Total:</b>		<b>594</b>	<b>0</b>	<b>594</b>	<b>1,262</b>	<b>-668</b>	<b>47.07 %</b>	<b>518</b>	<b>76</b>	<b>114.67 %</b>

### 3330 FLORA/FAUNA

There are a few notable and distinct changes in the forest species composition as detailed in 3310 page 3000-5. Jack pine acreage is declining due primarily to four factors: succession to scrub oak with the aid of selective harvests, regeneration difficulties, forced conversion to red pine plantations, and the ease of converting to aspen when aspen exists in jack pine stands. The red oak type shows an increase of acres due to recon updates and inconsistencies on how stands were classified in the past. The northern hardwood type decreased for the same reason. The red pine type increased due to increased planting efforts.

A few notable wildlife species have experienced obvious population increases in and around the County Forest over the past decade. They are Turkey, bear, and wolves. Deer have maintained a high population level and is of concern due to the negative impact that high deer populations have on pine regeneration efforts in Sterling Township.

### 3340 RECREATIONAL USE

Hunting probably is the most extensive form of recreation on the Forest. Incidents of unauthorized ATV use have increased steadily over the course of the previous 10 years.

### 3360 ROADS AND ACCESS

The previous plan identified the need for a half mile of new County Forest certified road. That road was built and certified. The other roads built during the previous plan period had specific one time uses intended for timber removal. Many of these roads are naturally reclaimed, bermed or left to grow over. Some of these roads have been left open for public use, for future silvicultural activities (planting, TSI, etc) and for access to future sales.