



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33085

Entry Year 2017

Acreage: 1,774

County Delta

Management Area: North Menominee Moraines

Revision Date: 2015-07-10

Stand Examiner: Dan Racine

Legal Description:

T41N, R24W Sections 3, 4, 9, 10, & 16

Identified Planning Goals:

The major cover types within this compartment are aspen, cedar, and tamarack. Several of the aspen stands will be available for treatment within the next 3 treatment periods. The stands prescribed for this treatment period include mixed upland stands prescribed for clearcut to regenerate the aspen, spruce, fir and mixed deciduous species. Tamarack and black spruce stands are prescribed with seed tree harvests and clearcuts in the smaller acreage stands. A northern hardwood stand is prescribed for a selection cut.

Soil and topography:

Major soil series found in this compartment include: Lupton, Cathro, Tawas, Emmet, Longrie, Onaway, Summerville, Tacoosh and Angelica.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

Private to the south, corporate lands to the east, State to the north and west.

Unique Natural Features:

N/A

Archeological, Historical, and Cultural Features:

N/A

Special Management Designations or Considerations:

The Hunters Brook habitat riparian corridor special Conservation Area in the northeast portion of the compartment.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is divided into two distinct blocks. The northern half is predominantly cedar swamp with scattered, aspen-dominated uplands. The best areas of lowland conifer will be retained to provide cover for white-tailed deer, snowshoe hare, and other non-game species. Much of the aspen habitat is less than 40 years old, but some stands of older aspen will be cut and regenerated which will provide early successional wildlife habitat. Forest stands adjacent to Hunter's Brook have been designated a "special conservation area" to protect riparian corridor and enhance wildlife habitat (development of cavity trees, snags, and woody debris on the forest floor). The southern half of this compartment consists of a large tamarack/treed bog complex on both sides of County Road 426. Some harvests of tamarack will be conducted along CR 426. In addition, stands of aspen and mixed conifer will be treated to create good early successional habitat. When feasible, pockets of spruce and balsam fir will be promoted within aspen and mixed conifer stands to promote stand cover type diversity.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of medium-textured till and medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River Formation underlies the glacial drift. The Black River is used for dolomite/stone. State land in Section 18 was previously leased for metallic mineral exploration. There may be some small gravel pits in Section 20, but potential appears to be limited within the compartment. No economic oil and gas production has been found in the UP.

Vehicle Access:

Most of this area is open to foot access with vehicle access being limited.

Survey Needs:

Private line boundaries will be required to establish the timber sale boundaries. Survey corner establishment may be required for these boundary lines.

Recreational Facilities and Opportunities:

Hunting, trapping and fishing. No designated recreational facilities within this compartment.

Fire Protection:

Vehicle access may be difficult to some portions of this compartment. There are water resources available and no significant threats for fire protection.

Additional Compartment Information:

∅ The following 5 reports from the Operations Inventory System (OIPC) are attached:

- " Cover Type by Age Class
- " Cover Type by Management Objective
- " Compartment Volume Summary
- " Proposed Treatments – No Limiting Factors
- " Proposed Treatments – With Limiting Factors

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

- " Base feature information, stand numbers, cover types
- " Proposed treatments
- " Proposed road access system
- " Suggested potential old growth

The following reports from the Inventory are attached:

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

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

Report 1 – Total Acres by Cover Type and Age Class

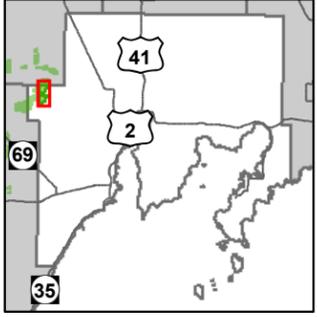


Age Class

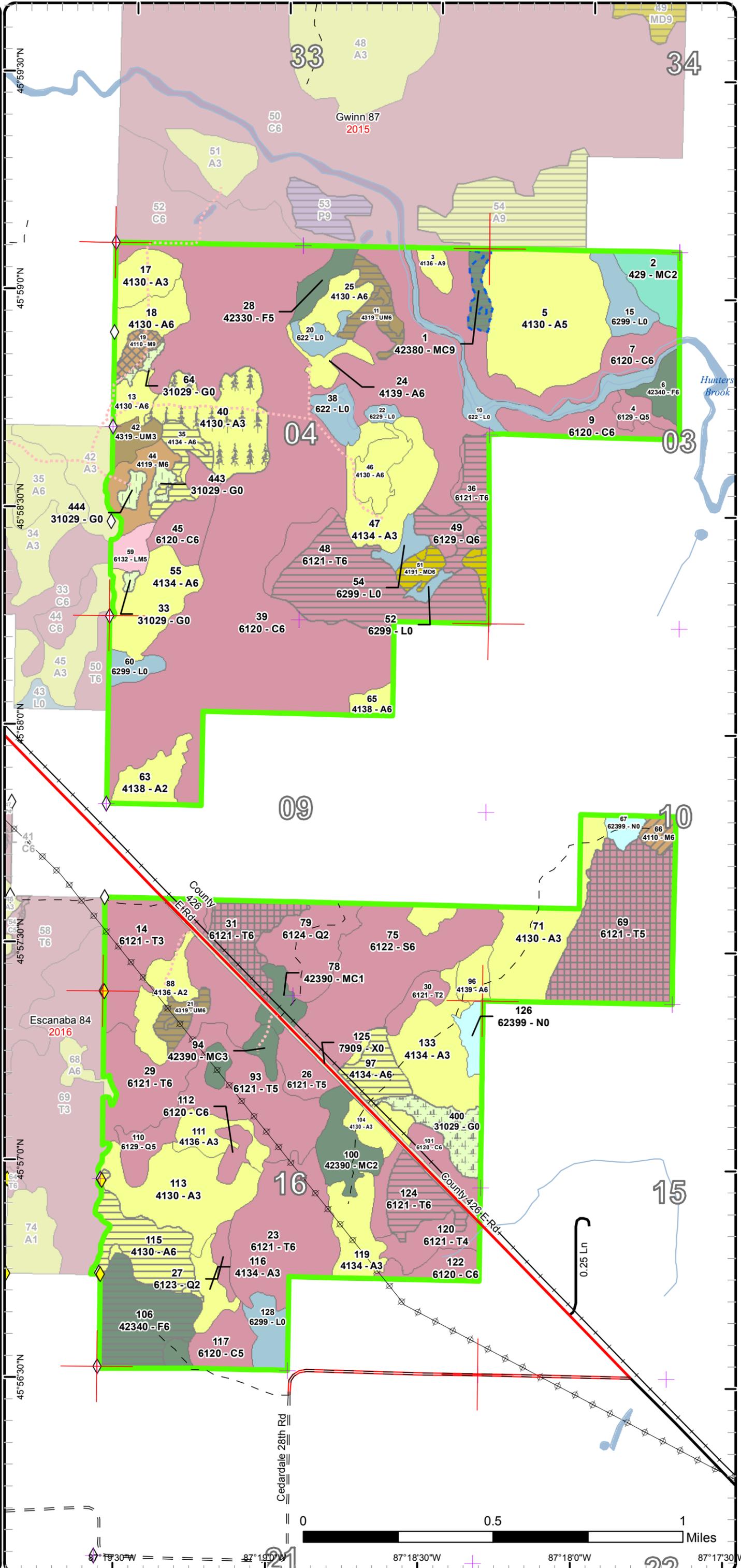
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	105	55	210	49	26	11	19	5	0	0	0	0	0	0	0	0	0	480
Bare/Sparsely Vegetated	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Cedar	0	0	0	0	0	0	0	0	14	0	11	452	0	0	0	0	0	0	477
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Conifers	0	0	5	27	0	0	10	0	0	0	0	19	0	0	0	0	0	0	61
Lowland Mixed Forest	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Lowland Spruce/Fir	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	0	0	0	66
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	0	0	0	0	0	0	0	12	10	0	0	0	0	0	0	0	0	22
Tamarack	0	0	0	0	7	0	189	21	85	96	0	0	0	0	0	0	0	0	398
Upland Conifers	0	7	0	40	0	0	0	0	0	0	0	0	6	0	0	0	0	0	53
Upland Mixed Forest	0	0	0	0	0	7	0	19	0	0	0	0	0	0	0	0	0	0	26
Upland Spruce/Fir	0	0	0	0	0	38	8	0	9	0	0	0	0	0	0	0	0	0	55
Total	120	112	60	277	56	71	218	135	132	106	11	471	6	0	0	0	0	0	1775

Cover Type & Treatments

Compartment: 85
 T 41N 24W 03,04,09,10,16
 County: Delta
 Unit: Escanaba
 Mgmt Area: North Menominee Moraines
 YOE: 2017
 Acres: 1774 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 7/7/2015
 Map Phase: Pre-Review



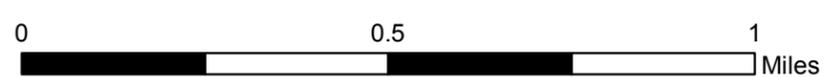
- ✦ Remonumented Section Corner
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Railroads
- Rivers
- Lakes
- Powerline
- ▨ Treatments with Site Conditions
- Treatments**
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Planting (tree species)
- ▨ Other Treatment - See Comments
- ▨ Opening Maintenance
- ▨ Thinning (Crown, Low, Systematic)
- ▨ Seed Tree (w/Reserves)
- Forest Covertypes**
- ▨ 411 - Northern Hardwood
- ▨ 413 - Aspen
- ▨ 419 - Mixed Upland Deciduous
- ▨ 423 - Other Upland Conifers
- ▨ 429 - Mixed Upland Conifers
- ▨ 430 - Upland Mixed Fores
- ▨ 612 - Lowland Coniferous Forest
- ▨ 613 - Lowland Mixed Forest
- Non-Forest Covertypes**
- ▨ 310 - Herbaceous Openland
- ▨ 622 - Lowland Shrub
- ▨ 623 - Emergent Wetland
- ▨ 790 - Other Bare/Sparsely Vegetated



Cedardale 28th Rd

County 426 E Rd

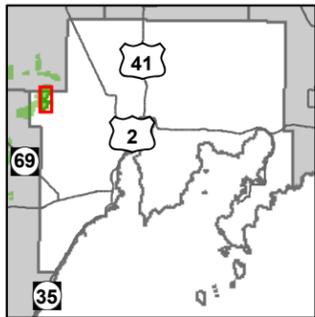
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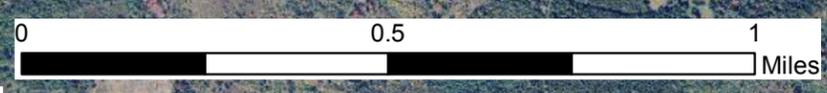
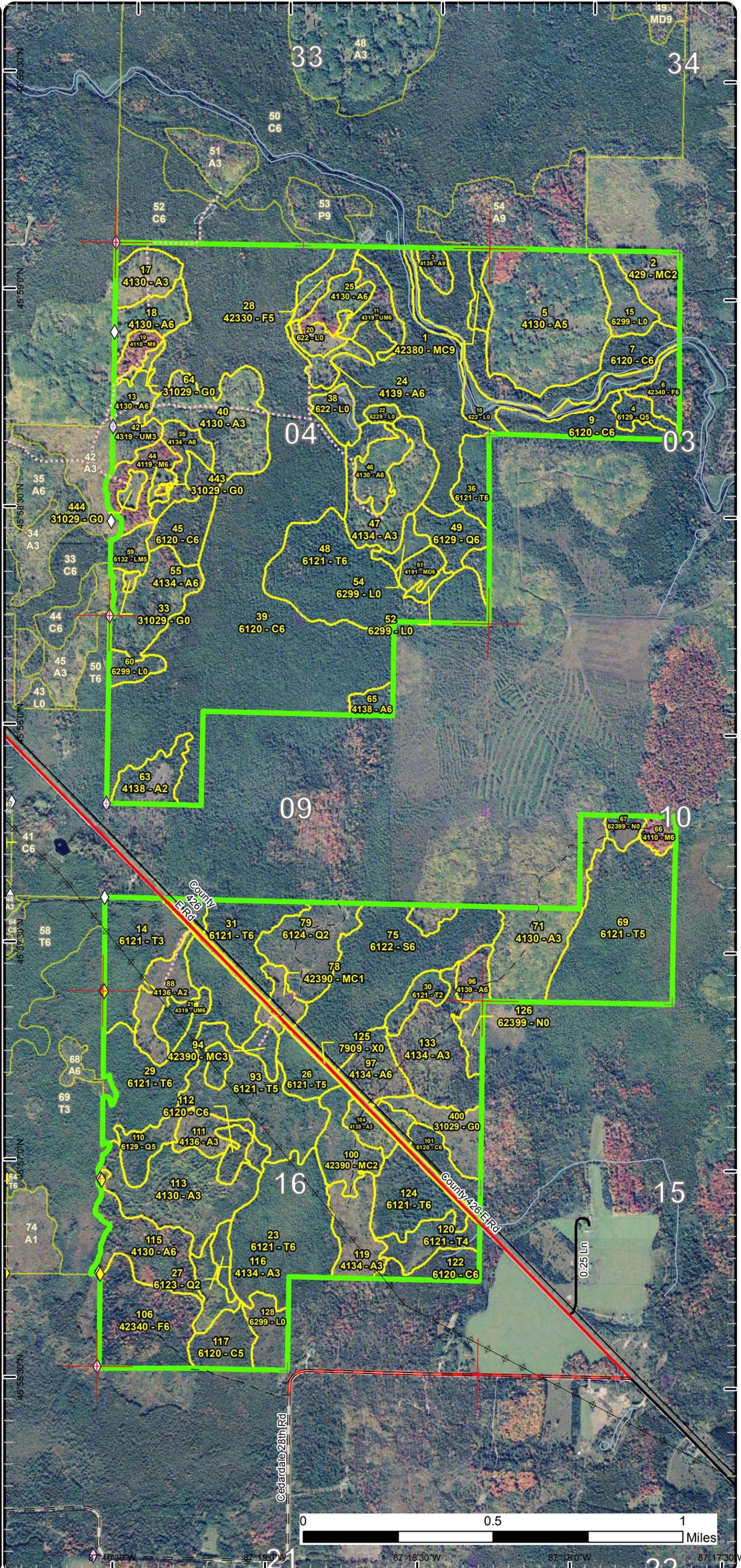
87°19'30"W 87°18'30"W 87°18'0"W 87°17'30"W

Stand Boundary Map

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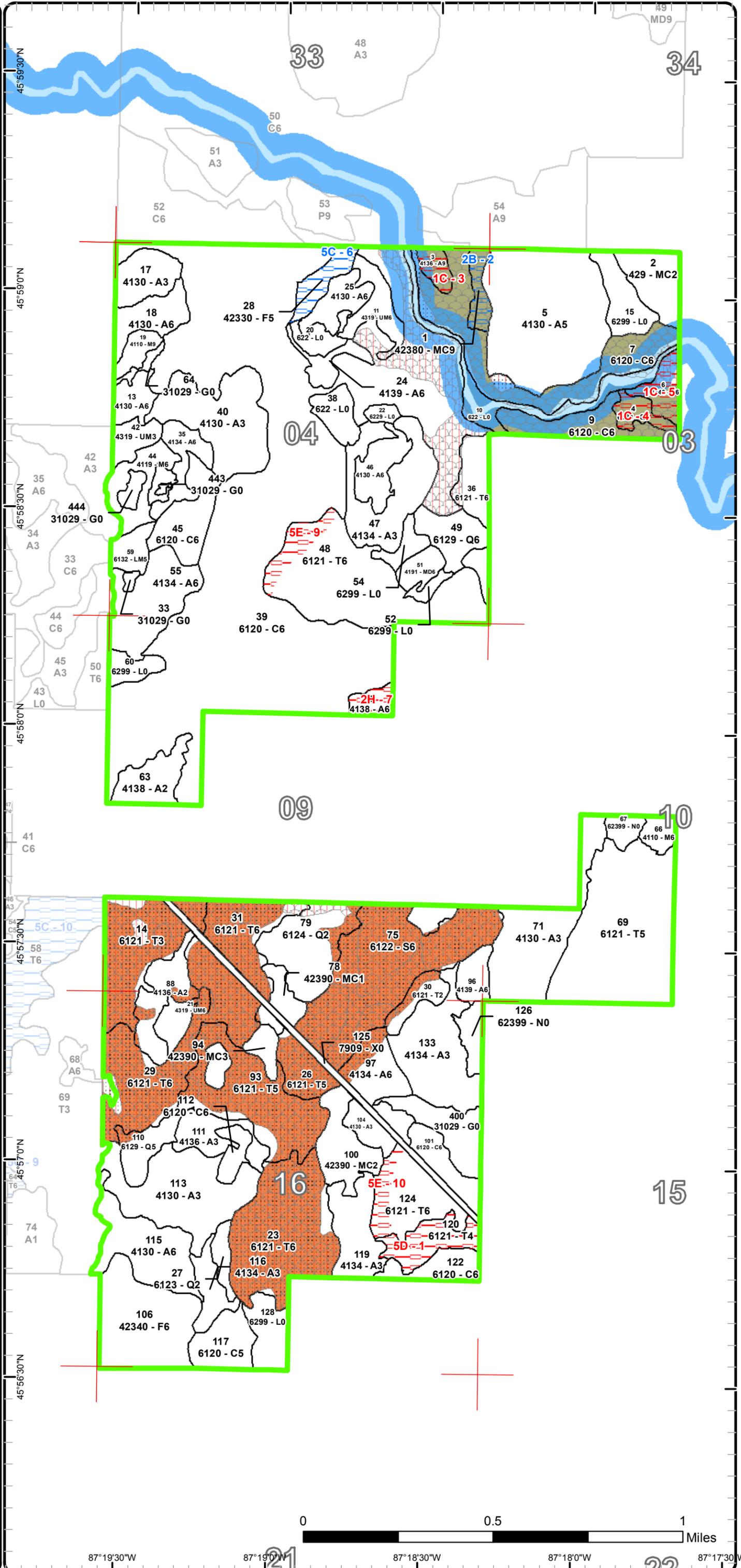
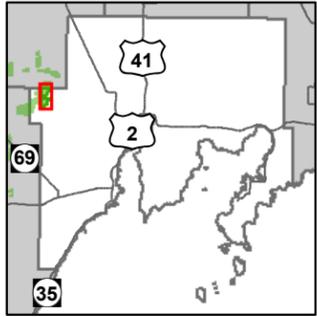
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 - Stand Boundaries
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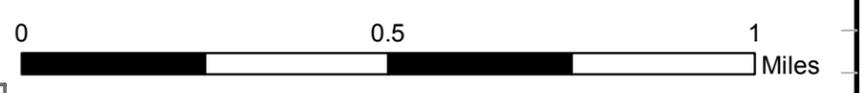
45°59'30"N 87°19'00"W 87°18'30"W 87°18'00"W 87°17'30"W
 45°59'00"N 45°58'30"N 45°58'00"N 45°57'30"N 45°57'00"N 45°56'30"N
 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

Special Conservation Areas & Site Conditions Map

Compartment: 85
 T 41N 24W 03,04,09,10,16
 County: Delta
 Unit: Escanaba
 Mgmt Area: North Menominee Moraines
 YO: 2017
 Acres: 1774 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 7/7/2015
 Map Phase: Pre-Review



- Miris Corners
- Stand Boundaries
- ▨ SCA
- ▨ SCA Removal
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 2B: Unknown if access through adjacent landowner(s) is possible
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 1C: Other dept or div proc/practices
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Other Habitat Area



87°19'30"W 87°18'30"W 87°18'0"W 87°17'30"W



Report 2 – Treatment Summary

Escanaba Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 85
Total Compartment Acres: 1,774

Commercial Harvest - 0
Harvests with Site Condition - 5
Next Step Harvest - 10
Habitat Cut - 59

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	48	0	0	0	0	0	0	0	0	48
Lowland Conifers	10	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	5	0	0	0	5	0	0	0	10
Tamarack	81	0	0	91	0	0	0	0	0	173
Upland Conifers	5	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	17	0	0	0	0	0	0	0	0	17
Upland Spruce/Fir	35	0	0	0	0	0	0	0	0	35
Total	205	5	0	91	0	5	0	0	0	307

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	307	0	35	0	0	0	0	0	24	366
Next Step	10	0	5	0	0	0	327	0	1	344
Total	317	0	41	0	0	0	327	0	25	710



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	33085001-Cut	5.1	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	112	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal

Habitat Cut: No **Site Condition:** Unknown Access

Prescription Clearcut with reserves; Cut all trees except may leave the large diameter white pine. Leave cedar retention areas that includes a mix of species
Specs: and minimum 3-10 % retention.

Next Step
Treatments:

Acceptable aspen, spruce, fir, balm. Acceptable regeneration of mixed lowland conifer and deciduous species.
Regen:

Other Retention areas on the map are approximate. Look to include with stand 54 the north out of the Gwinn unit as a supplement. Old next step
Comment: comments:

Proposed Start Date: 10/1 /2015

11	33085011-Cut	9.7	4319 - Mixed Upland Forest	Poletimber Well	68	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Cut all trees, leave retention areas in the heaviest cedar areas.
Specs:

Next Step
Treatments:

Acceptable Spruce, Fir, Aspen, and Balm.
Regen:

Other Potentially combine this stand with stand 53 of compartment 87 in Gwinn. The retention areas are approximate, decide at time of sale prep for
Comment: exact locations and follow in-stand retention guide of 3-10%. Old next step comments:

Proposed Start Date: 10/1 /2016

19	33085019-Cut	5.4	4110 - Sugar Maple Association	Sawtimber Well	80	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Selection harvest; Retain approximately 60-70 BA throughout the stand. Create gaps to release sugar maple regeneration already in the stand.
Specs: Mark heavier along the opening along the southern edge. Winter cut this stand and no chipping.

Next Step Monitoring, Natural Regen (Re-Inventory); Planting, Underplant
Treatments:

Acceptable Northern Hardwood species mix.
Regen:

Other This stand was cut under the Twenty One Mile sale. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

21	33085021-Cut	7.0	4319 - Mixed Upland Forest	Poletimber Well	69	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Clearcut with retention; Cut all trees. Leave a retention area in the heaviest cedar area.
Specs:

Next Step
Treatments:

Acceptable Aspen, Spruce, and Fir. Acceptable regeneration of Tamarack and mixed lowland deciduous species.
Regen:

Other The retention area is approximate. Decide at time of sale prep to locate retention area following in-stand retention guide of 3-10%. Old next
Comment: step comments:

Proposed Start Date: 10/1 /2016



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
31 33085031-Cut	20.2	6121 - Tamarack	Poletimber Well	63	51-80	Harvest	Seed Tree with Retention	6121 - Tamarack	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Seed tree with retention; Cut all trees except leave a retention strip along the west side of the stand. Leave seed trees of a mix of spruce and tamarack.
Specs:

Next Step
Treatments:

Acceptable Tamarack is expected with an acceptable alternate regeneration of spruce.
Regen:

Other Decide at time of sale prep to leave scattered seed trees or clumps throughout the stand. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

33 33085033-NF	1.0	31029 - Grass (OI)	Nonstocked			Unspec ified	NonForestMgt /Grass Planting	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other This opening is part of the Hendricks "mile 21" hunter walking trail. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

35 33085035-Cut	9.8	4134 - Aspen, Spruce/Fir	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with retention; Cut all trees except leave retention in the areas of highest cedar volumes. This stand will be winter harvested to protect the openings. Cut the trees within the opening along with this stand and leave a 3 foot stump within the opening for later stump removal. No chipping within this stand.
Specs:

Next Step
Treatments:

Acceptable Aspen, balm, maple, spruce, and fir.
Regen:

Other The retention areas are approximate. Decide at time of sale prep the exact location of retention areas and follow the in-stand retention guides.
Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

36 33085036-Cut	10.2	6121 - Tamarack	Poletimber Well	89	51-80	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees except leave retention along the western boundary for a seed source.
Specs:

Next Step
Treatments:

Acceptable Tamarack.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
40	33085040-Plant	35.2	4130 - Aspen	Sapling Well	26	Immature	Planting	Underplant	4319 - Mixed Upland Forest	Even-Aged	Proposal

Habitat Cut: Yes

Site Condition:

Prescription Under planting in the open areas per wildlife division. Create FTP for underplanting.

Specs:

Next Step

Treatments:

Acceptable Aspen, any mix of planted species.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

48	33085048-Cut	54.1	6121 - Tamarack	Poletimber Well	88	81-110	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with retention; Cut all trees except leave a retention strip along the western boundary.

Specs:

Next Step

Treatments:

Acceptable Tamarack and black spruce. Acceptable alternate regeneration of spruce, fir, pine, and aspen.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

49	33085049-Cut	10.0	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	104	51-80	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with retention; Cut all trees except leave retention areas in the heaviest cedar patches capturing some of the tamarack for seed.

Specs:

Next Step

Treatments:

Acceptable Spruce, Tamarack, and balsam fir. Acceptable regeneration of mixed lowland deciduous species.

Regen:

Other The retention areas are approximate. Follow in-stand retention guidelines. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

51	33085051-Cut	8.9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	65	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with retention; Cut all trees except leave retention in the heaviest cedar areas.

Specs:

Next Step

Treatments:

Acceptable Aspen, Spruce/Fir, mixed deciduous species.

Regen:

Other The retention areas are approximate. Follow in-stand retention guidelines. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
64	33085064-NF	2.0	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes

Site Condition:

Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw
Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

66	33085066-Cut	4.9	4110 - Sugar Maple Association	Poletimber Well	80	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Thinning; Retain approximately 70 BA. Follow complete marker guidelines.
Specs:

Next Step
Treatments:

Acceptable Maple.
Regen:

Other Existing aspen, balsam fir, and ironwood regeneration. Some areas will be thinned and others are already opened up. Old next step
Comment: comments:

Proposed Start Date: 10/1 /2016

69	33085069-Cut	71.2	6121 - Tamarack	Poletimber Medium	72	1-50	Harvest	Seed Tree with Retention	6121 - Tamarack	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Seed tree with retention; Cut all trees except leave patches of .5 to 1 acre retention areas for seed trees.
Specs:

Next Step
Treatments:

Acceptable Tamarack and black spruce.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

97	33085097-Cut	12.9	4134 - Aspen, Spruce/Fir	Poletimber Well	60	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with retention; Cut all trees except leave a retention area along the boundary line and leave all the large diameter white pine.
Specs:

Next Step
Treatments:

Acceptable Aspen, spruce and fir.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
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106	33085106-Cut	34.6	42340 - Upland Spruce/Fir	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Clearcut with reserves; Cut all trees except leave a retention patch of a mix of overstory species.

Specs:

Next Step
Treatments:

Acceptable spruce, fir, aspen, maple, and birch.

Regen:

Other Manage this stand and 115 together. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

115	33085115-Cut	25.7	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Clearcut with reserves; Cut all trees except leave retention of younger pockets of spruce and fir.

Specs:

Next Step
Treatments:

Acceptable Aspen, maple, spruce and fir.

Regen:

Other This stand will be managed with stand 106. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

124	33085124-Cut	17.1	6121 - Tamarack	Poletimber Well	81	51-80	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Clearcut with retention; Leave a retention and seed source strip along the western boundary of the sale.

Specs:

Next Step
Treatments:

Acceptable Tamarack and spruce.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

400	33085400-NF	15.4	31029 - Grass (OI)	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	Proposal
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Habitat Cut: Yes **Site Condition:**

Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw

Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Next Step
Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
443	33085443-NF	2.7	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes

Site Condition:

Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw
Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others

Next Step
Treatments:

Acceptable
Regen:

Other This opening is part of the Hendricks "mile 21" walking trail Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

444	33085444-NF	2.9	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw
Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others

Next Step
Treatments:

Acceptable
Regen:

Other This opening is part of the Hendricks "mile 21" walking trail. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
 Acreage Proposed: 366.0**

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 85
Year of Entry: 2017

Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions					
	Available	Not Available		1C	2B	2H	5C	5D	5E
480	470	10	Aspen	5		5			
12	12	0	Bare/Sparsely Vegetated						
476	476	0	Cedar						
24	24	0	Herbaceous Openland						
60	54	6	Lowland Conifers	6					
7	7	0	Lowland Mixed Forest						
73	73	0	Lowland Shrub						
66	66	0	Lowland Spruce/Fir						
11	11	0	Marsh						
10	10	0	Mixed Upland Deciduous						
23	23	0	Northern Hardwood						
398	370	28	Tamarack					14	15
54	48	6	Upland Conifers		6				
25	25	0	Upland Mixed Forest						
55	38	17	Upland Spruce/Fir	9			8		
1,774	1,706	68	Total Forested Acres	20	6	5	8	14	15
	96%	4%	Relative Percent						

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5D: Unproductive Forest Land	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Include this stand with the stand to the north in the Gwinn unit.							

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 85
Year of Entry: 2017

3	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The majority of this stand is within the 300 foot buffer along the Hunters Brook type 1 stream.							
4	Unavailable	1C: Other dept or div proc/practices	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand within the Hunters Brook riparian corridor.							
5	Unavailable	1C: Other dept or div proc/practices	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand within the Hunters Brook riparian corridor.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treat this stand with stand 25 within the next two treatment periods.							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is an approximate area of retention for this stand.							
10	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area is an approximate area for long term retention for this stand.							



Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified Comments This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a	Other SCA		Proposed SCA	10
Unspecified Comments Small island. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habita	Other SCA		Proposed SCA	1
Unspecified Comments Small island, not much timber. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve a	Other SCA		Proposed SCA	1
Unspecified Comments SMALL UPLAND ISLAND. Access is tough.	Other SCA		SCA Removal	3
Unspecified Comments Lowland brush, tag alder along Hunter's Brook.	Other SCA		Proposed SCA	3
Unspecified Comments This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a	Other SCA		Proposed SCA	9
Unspecified Comments Small island. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habit	Other SCA		Proposed SCA	1
Unspecified Comments This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a	Other SCA		Proposed SCA	1
Unspecified Comments Small island east of stand 88. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve a	Other SCA		Proposed SCA	2
Unspecified Comments This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a	Other SCA		Proposed SCA	20



Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified	Other SCA		Proposed SCA	119
Comments				
Tamarack is seeding in and starting to fill in this area. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and				
Unspecified	Other SCA		Proposed SCA	15
Comments				
This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a				
Unspecified	Other SCA		Proposed SCA	1
Comments				
Small island west of stand 88. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve a				
Unspecified	Other SCA		Proposed SCA	2
Comments				
Island of timber close to the west line of the compartment. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging				
Unspecified	Other SCA		SCA Removal	38
Comments				
Leave as buffer along Hunter's brook.				
Unspecified	Other SCA		Proposed SCA	54
Comments				
Stand has a lot of tamarack seedlings coming in. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regener				
Unspecified	Other SCA		Proposed SCA	1
Comments				
Balsam is declining or dead. Close to the Hunter's Brook. Leave for BMP's. Small area.				
Unspecified	Other SCA		Proposed SCA	23
Comments				
Filling in with tamarack. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wil				
Unspecified	Other SCA		Proposed SCA	19
Comments				
This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a				
Unspecified	Potential Old Growth		SCA Removal	50
Comments				
LEAVE BUFFER ALONG HUNTERS BROOK - OLD GROWTH.				



Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified Comments OLD GROWTH POTENTIAL. Timber is small diameter and short. Mis softwood is combo of balsam fir and spruce.	Potential Old Growth		SCA Removal	19
Unspecified Comments	Other SCA		SCA Removal	3
Unspecified Comments Tamarack is seeding in and starting to fill in this area. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging an	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	119
Unspecified Comments Stand has a lot of tamarack seedlings coming in. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regener	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	54
Unspecified Comments Small island. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habita	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	1
Unspecified Comments This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	9
Unspecified Comments Small island. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habit	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	1
Unspecified Comments This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	10
Unspecified Comments Filling in with tamarack. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wil	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	23
Unspecified Comments Small island east of stand 88. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve a	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	2



Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	20
Comments This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a				
Unspecified	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	19
Comments This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a				
Unspecified	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	1
Comments Small island west of stand 88. This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve a				
Unspecified	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	15
Comments This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a				
Unspecified	Habitat Areas or Corridors	Other Habitat Area	SCA Removal	1
Comments This stand is part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species a				



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	6.0	112	111-140	Sliver of over mature timber within stand 7. This stand adjoins stand 54 to the north in Gwinn. Dead and dying balsam and spruce. Appears to be some spruce budworm damage. Trace amount of white pine within the stand.
2	429 - Mixed Upland Conifers	Sapling Medium	14.6	25	1-50	Treated in 1990 under contract 33-03-87-01 (Boney Falls Aspen). Small pocket in northwest portion of stand that was treated with a removal cut of shorter lived species (used previous oi data for reference). Raspberries and brambles in open areas. Filling in with spruce, fir, pine.
3	4136 - Aspen, Mixed Conifer	Sawtimber Well	4.8	60	81-110	SCA- Riparian corridor along the hunters brook stream. Type 1 cold transitional stream providing water quality and stream protection.
4	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	6.2	106	81-110	SCA- riparian corridor along the Hunters Brook. Some portion of the stand appears to be previously cut. No cutting record. The second age is estimated.
5	4130 - Aspen	Poletimber Medium	68.6	25	51-80	Teated in 1990 under permit # 33-03-87-01(Boney Falls Aspen). Coming into a 4-5 inch pole stand now. Some open areas and pocket of hardwood. In northwest portion is a removal cut area. Used OI data in this area.
6	42340 - Upland Spruce/Fir	Poletimber Well	8.9	72	81-110	SCA riparian area corridor along the hunters brook.
7	6120 - Lowland Cedar	Poletimber Well	42.1	106	111-140	SCA - Hunters Brook riparian corridor.
9	6120 - Lowland Cedar	Poletimber Well	16.5	106	141-170	SCA- riparian corridor along the hunters brook.
11	4319 - Mixed Upland Forest	Poletimber Well	11.2	68	81-110	Over-mature stand of timber. Scattered clumps and individual Cedar throughout the stand. This stand was broken out from the larger C stand to the east.
13	4130 - Aspen	Poletimber Well	7.6	26	51-80	Treated in 1989 under permit #11-07-01 (Hendricks Mile 21 Aspen). Nice aspen stand with low areas containing balm and ash in understory.
14	6121 - Tamarack	Sapling Well	34.3	50	1-50	Stand has a lot of tamarack seedlings coming in. This stand is part of a large tamarack swamp /treed bog complex that was designated a special conservation area with forest stands allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species adapted to these conditions. A couple of islands of mature aspen and balsam fir in north part of stand.
17	4130 - Aspen	Sapling Well	12.6	6	Immature	This was cut under the Twenty one Mile Sale. Residual cedar throughout.
18	4130 - Aspen	Poletimber Well	12.3	26	1-50	Nice stand of young aspen, treated back in the late 80's. Lower areas with balm, balsam, and spruce in the understory.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4110 - Sugar Maple Association	Sawtimber Well	5.4	80	81-110	This stand was unit 3 of the twenty one mile sale. Nice hardwood stand, lots of sugar maple regeneration in the understory. Deer are browsing heavily. Ironwood regeneration heavy as well.
21	4319 - Mixed Upland Forest	Poletimber Well	7.3	69	51-80	Pockets of old aspen with balsam and spruce. Lowland areas between these overmature islands of timber with spruce, some cedar, and trees and shrubs.
23	6121 - Tamarack	Poletimber Well	53.3	55	1-50	Tamarack is seeding in and starting to fill in this area. This stand was a part of a large tamarack swamp /treed bog complex that has been previously designated a special conservation area where forest stands were allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species adapted to these conditions. Couple of small islands of paper birch, balsam fir and mixed upland species.
24	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.5	23	1-50	Treated in 1992 under permit 14-90-1(forgotten aspen sale). Aspen was removed and cedar was left.
25	4130 - Aspen	Poletimber Well	10.2	38	51-80	Treated in 1977. Aspen with some residual cedar. Heavy to balsam fir in understory and south edge is a sugar maple
26	6121 - Tamarack	Poletimber Medium	10.8	52	1-50	Tamarack is seeding in and starting to fill in this area. This stand is part of a large tamarack swamp /treed bog complex that was previously designated a special conservation area. Forest stands were allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species adapted to these conditions.
27	6123 - Lowland Fir	Sapling Medium	4.6	18	Immature	Cut in 1997.
28	42330 - Upland Fir	Poletimber Medium	8.2	52	1-50	Treated in 1992 under permit 14-90-01 (Forgotten Aspen). Some aspen and balsam fir in areas, lots of brambles.
29	6121 - Tamarack	Poletimber Well	49.4	55	1-50	Tamarack is seeding in and starting to fill in this area. This stand was a part of a large tamarack swamp /treed bog complex that has been designated a special conservation area where the forest stands were allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species adapted to these conditions.
30	6121 - Tamarack	Sapling Medium	7.4	31	Immature	This stand was a part of a large tamarack swamp /treed bog complex that was designated a special conservation area where forested stands were allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species adapted to these conditions.
31	6121 - Tamarack	Poletimber Well	21.2	63	51-80	Previously this stand was a part of a large tamarack swamp /treed bog complex that has been designated a special conservation area. Forest stands will be allowed to age, experience natural processes of aging and regeneration, and serve as wildlife habitat to species adapted to these conditions.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4134 - Aspen, Spruce/Fir	Poletimber Well	11.0	52	81-110	Scattered sugar maple and cedar in places.
36	6121 - Tamarack	Poletimber Well	11.3	89	51-80	Smaller diameter to the north, can see on photo.
39	6120 - Lowland Cedar	Poletimber Well	360.4	108	81-110	Areas of small cedar 3-5 inch dbh. Some very poor quality cedar areas.
40	4130 - Aspen	Sapling Well	35.2	26	Immature	Treated in 1989 under permit #11-07-01 (Hendricks Mile 21 Aspen)
42	4319 - Mixed Upland Forest	Sapling Well	6.9	43	51-80	This stand was cut under the twenty one mile sale.
44	4119 - Mixed Northern Hardwoods	Poletimber Well	12.3	78	81-110	This stand was cut under the Twenty One Mile sale. Obtained the age for a basswood tree.
45	6120 - Lowland Cedar	Poletimber Well	17.3	100	111-140	Cedar stand with an overmature upland pocket separated out and included with stand 35.
46	4130 - Aspen	Poletimber Well	11.7	30	81-110	This stand is a mix of bigtooth and quaking aspen. Cedar along the edge of the stand.
47	4134 - Aspen, Spruce/Fir	Sapling Well	29.4	23	1-50	Treated in 19992 under permit 14-90-01 (Forgotten Aspen). Open areas and closer to 75% canopy closure.
48	6121 - Tamarack	Poletimber Well	62.0	88	81-110	BA ranges from 60-130. Upland pocket of aspen, balsam fir, birch, and cedar.
49	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	12.6	104	51-80	
51	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.8	65	111-140	Balsam fir and spruce understory. Over mature pockets of timber.
55	4134 - Aspen, Spruce/Fir	Poletimber Well	26.7	39	51-80	Treated in 1976. Variable stand with lowland pockets of tag alder and open areas with balsam fir.
59	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	6.7	75	51-80	More black ash than cedar. Very wet and poor quality areas.
63	4138 - Aspen (OI)	Sapling Medium	13.6	2	Immature	Access was gained through private land, stand was added to the 426 Leftover sale as a supplement, #330010701.
65	4138 - Aspen (OI)	Poletimber Well	5.1	75	51-80	Small Island of timber, lost most of the balsam in this stand. Access is a problem. Will have to get permission from landowner to the south to be able to set up sale. The adjacent landowner already cut their timber.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	4110 - Sugar Maple Association	Poletimber Well	4.9	80	81-110	Primarily sugar maple, south and east edge has small aspen fringe. Stand could be thinned in places and left alone in others. Last cut in 1999.
69	6121 - Tamarack	Poletimber Medium	71.2	72	1-50	Sporadic patches of 10" tamarack 4-5 sticks. Considerable amount of tag alder in the understory. Southern portion contains smaller tamarack and spruce is more abundant.
71	4130 - Aspen	Sapling Well	39.1	17	Immature	Treated in 1998 under permit #9-97-01 (Broken Snowshoe).
75	6122 - Black Spruce	Poletimber Well	65.8	65	51-80	This stand was a part of a large tamarack swamp /treed bog complex that was previously designated a special conservation area.
78	42390 - Mixed Non- Pine Upland Conifers	Sapling Poor	7.4	2	Immature	Treated in 2013 under contract 426 Leftover sale, #330010701.
79	6124 - Lowland Spruce- Fir	Sapling Medium	26.7	23	Immature	No record of cutting found.
88	4136 - Aspen, Mixed Conifer	Sapling Medium	16.1	2	Immature	The entire south end has a significant amount of cedar left. Some sparse areas with 25-50% canopy cover. This stand was cut in 2013 under the 426 leftover sale.
93	6121 - Tamarack	Poletimber Medium	41.0	55	1-50	Tamarack is seeding in and starting to fill in this area. This stand was a part of a large tamarack swamp /treed bog complex that was designated a special conservation area.
94	42390 - Mixed Non- Pine Upland Conifers	Sapling Well	8.8	23	Immature	Stand was treated in 1992.
96	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.1	17	51-80	Cut in 1998 under the Broken snowshoe sale. Stand is currently regenerating to aspen, spruce and fir.
97	4134 - Aspen, Spruce/Fir	Poletimber Well	14.1	60	51-80	Contractor did not finish sale# 03-02-01 (Jack's Legacy). Stand 133 was cut under this sale. Dead balsam fir.
100	42390 - Mixed Non- Pine Upland Conifers	Sapling Medium	16.9	25	Immature	Stand was treated in 1990 under contract 12-87-01 (Woodlawn aspen). This stand was part of stand 104, but it is the south part of stand and is filling in with balsam fir and spruce regeneration as well as tamarack and white pine.
101	6120 - Lowland Cedar	Poletimber Well	10.6	98	81-110	OI Stand Year Origin was 1917
104	4130 - Aspen	Sapling Well	9.7	25	Immature	Aspen regeneration, north part of stand. The south part is now stand 100. Treated in 1990, contract # 12-87-01 (woodlawn Aspen).
106	42340 - Upland Spruce/Fir	Poletimber Well	37.9	47	51-80	More balsam than aspen.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
110	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	10.3	55	51-80	This stand is part of the 2011 additional acreage. Shelterwood- seed. Treated in 2013, addition to 426 Leftover Sale, #330010701 UNIT 5.
111	4136 - Aspen, Mixed Conifer	Sapling Well	11.6	2	Immature	Treated in 2013 , 426 leftover sale, #330010701.
112	6120 - Lowland Cedar	Poletimber Well	5.6	102	81-110	Balsam fir is dead or dying. Some mature timber but not enough to go after and treat this time around.
113	4130 - Aspen	Sapling Well	40.7	23	Immature	Treated in 1992, contract 15-90-01 (Lost Photo Aspen).
115	4130 - Aspen	Poletimber Well	26.4	47	81-110	SCATTERED MERCHANABLE TREES SCATTERED THROUGH STAND. AREA WAS TREATED IN LATE 70'S EARLY 80'S.
116	4134 - Aspen, Spruce/Fir	Sapling Well	8.9	12	Immature	: Treated in winter of 2003 under the woodlawn aspen II sale. Coming back to a fully stocked aspen stand with some balsam fir in the understory.
117	6120 - Lowland Cedar	Poletimber Medium	13.8	75	1-50	Scattered small cedar with lowland brush in understory.
119	4134 - Aspen, Spruce/Fir	Sapling Well	18.6	2	Immature	Treated in 2013, 426 Leftover, #330010701.
120	6121 - Tamarack	Poletimber Poor	13.5	76	1-50	Lowland brush with scattered tamarack and spruce. Tamarack very low stocking, understory is thick tag alder, and buckthorn. Narrow ridge of balsam fir, spruce, and aspen runs n-s from county road.
122	6120 - Lowland Cedar	Poletimber Well	10.2	106	81-110	Some nice cedar with other short lived species mixed in.
124	6121 - Tamarack	Poletimber Well	22.9	81	51-80	West edge is heavy to spruce.
133	4134 - Aspen, Spruce/Fir	Sapling Well	32.4	7	Immature	: This stand was harvested in 2006 under contract 33-003-02- 01. Stand was originally part of stand 97. Contractor did not finish the sale. The south unit of sale remained stand 97 and this stand was created to reflect the area that was harvested.



Stand	Cover Type	Acres	Managed Site	General Comments:
10	622 - Lowland Shrub	18.7	No	Hunter Brook and surrounding low ground.
15	6299 - Lowland Shrub (OI)	12.2	No	Lowland, tag alder, wet. Some of the higher areas contain some balm. Some portion was treated in 1990 under permit 33-03-87-1 (Boney Falls Aspen). Did not regenerate well at all.
20	622 - Lowland Shrub	5.6	No	Treated in 1992 under permit 14-90-01 (Forgotten Aspen). Some aspen and balsam fir in areas, lots of brambles.
22	6229 - Mixed lowland shrub	2.5	No	
33	31029 - Grass (OI)	1.0	Yes	PERIODICALLY MAINTAIN THROUGH MOWING.
38	622 - Lowland Shrub	8.4	No	Scattered small tamarack and spruce along the west edge and lowland brush through rest.
52	6299 - Lowland Shrub (OI)	2.6	No	
54	6299 - Lowland Shrub (OI)	5.1	No	OPIC - FMD: OI Stand Year Origin was
60	6299 - Lowland Shrub (OI)	6.0	No	
64	31029 - Grass (OI)	2.0	No	Open area. Some balsam fir and spruce filling in but not enough to call a forested stand.
67	62399 - Marsh (OI)	4.4	No	SMALL TIMBERED ISLAND IS OUT IN THE BEAVER MEADOW.
125	7909 - Nonstocked (OI)	12.5	No	County road 426 and ROW.
126	62399 - Marsh (OI)	6.3	No	
128	6299 - Lowland Shrub (OI)	11.9	No	Pocket of aspen at 4.3 acres on the east portion that was cut.
400	31029 - Grass (OI)	15.4	Yes	BURNED THIS AREA IN 1997. Scattered spruce, fir, pine, maple, and aspen.
443	31029 - Grass (OI)	2.7	Yes	Scattered clumps of maple, aspen, spruce and fir.
444	31029 - Grass (OI)	2.9	Yes	Couple scattered clumps of trees.