



Eastern Upper Peninsula Citizen Advisory Council DNR Division Reports

Date of Production: June 2016

This documentation is provided by Michigan DNR staff as supplemental information to the Eastern UPCAC members via email on June 9, 2016.

Acting Upper Peninsula Regional Coordinator: Jon Spieles

DNR Public Meetings

June 9	Natural Resources Commission Meeting, Jay's Sporting Goods in Gaylord
June 16	Eastern UP Citizen's Advisory Council Meeting, Central Community Center, Munising, 6:30pm
June 16	Forestry Open House, Baraga Management Unit, DNR Office-Baraga, 3:00pm
June 21	U.P. Wildlife Habitat Workgroup Meeting, Red Rock Lanes, Ishpeming, 9:30am
June 21	Michigan Iron Industry Museum Advisory Board Meeting, Negaunee, 1:30pm
June 23	Waterways Commission Meeting, Sault Ste. Marie

U.P. State Park & State Sponsored Activities

June 11-12	2016 Summer Free Fishing Weekend
June 11	Bewabic State Park - S.P.O.R.T. Ride (ORV) & Youth Fishing Derby
June 11	Porcupine Mountains Wilderness State Park - Container Gardening
June 11	Straits State Harbor - National Marina Day Open House
June 18	Fayette Historic State Park - Christmas in June
June 18	Porcupine Mountains Wilderness State Park - All Day Crafting Extravaganza! (Silk Scarf Painting/Hand Forged Copper Bracelet, Needle Felting Critters)
June 18	Wells State Park - Crafty Campers Arts and Crafts Sale
June 20	Porcupine Mountains Wilderness State Park - Summer Solstice Celebration
June 21	Bewabic State Park - Total Woman in the Outdoors
June 25	Tahquamenon Falls State Park - Two Hearted Trail Run
June 25	Porcupine Mountains Wilderness State Park - Copper Wrapped Bead Pendant (a Copper Fest Activity)
June 26	Porcupine Mountains Wilderness State Park - Needle-Felted Eastern Bluebird

Upcoming U.P. Recreation Events

For a host of June events around the UP, go to www.uptravel.com. Here are just a few...

Every Wed/June	Seney Wildlife Wednesdays, www.fws.gov/refuge/seney/events.html
Every Thurs/June	Photo Tours at Seney National Wildlife Refuge www.fws.gov/refuge/seney/events.html
June 11-12	Pictured Rock Days, Munising, www.algercounty.org
June 11	Bay de Noc Young Angler Walleye Tournament, Escanaba, www.deltami.org
June 11	Baraga County Lake Trout Festival, www.laketroutfestival.com
June 11	Kids Fishing Day Hiawatha National Forest, 906-341-5666
June 18	Keweenaw Tread Fest, Houghton, http://keweenawtrails.com/events/?mc_id=5
June 24-25	Grand Marais Offshore Challenge Fishing Tournament, www.grandmaraismichigan.com
June 24-26	Marquette Trails Festival, www.marquettetrailsfest.com
June 24-26	Ontonagon Copperfest, www.ontonagonmi.org
June 25	Les Cheneaux Raid, www.lescheneaux.net

Recent DNR Press Releases

For full details, go to: <http://www.michigan.gov/dnrpressroom>

- ❑ 2016 Wildlife Habitat Grants available; apply by July 20 (6/1/16)
- ❑ Fisheries research vessels out on water to expand knowledge of Great Lakes (6/1/16)
- ❑ Enjoy outdoor recreation events in Michigan's Upper Peninsula (5/31/16)
- ❑ Showcasing the DNR: Aspen and jack pine regeneration (5/31/16)
- ❑ Camper storage program continues in Michigan state parks (5/26/16)
- ❑ Showcasing the DNR: Learning to coexist with coyotes (5/26/16)
- ❑ 2015 Fisheries Division annual report now available (5/25/16)
- ❑ Chumming regulations to be considered this June (5/24/16)
- ❑ Remove bird feeders now to reduce conflicts with bears (5/24/16)
- ❑ Holiday weekend programs set for Porcupine Mountains Wilderness State Park (5/20/16)
- ❑ Explore the trails – Free ORV Weekends June 11-12, Aug. 20-21 (5/19/16)
- ❑ Share ideas on state forest planning for Baraga, Houghton, Keweenaw counties (5/18/16)
- ❑ Chinook salmon fishery in Lake Superior dominated by wild fish (5/17/16)
- ❑ Enjoy Michigan's summer free fishing weekend June 11-12 (5/13/16)

Grant Contacts

For other grant information, to go: <http://www.michigan.gov/dnr/0,4570,7-153-58225---,00.html>

Michigan Natural Resources Trust Fund Grant	Merrie Carlock, 517-284-5931, carlockm@michigan.gov
Recreation Passport Grant	Merrie Carlock, 517-284-5931, carlockm@michigan.gov
Aquatic Habitat Grant	Kelly Parker, 517-284-5957, parkerk4@michigan.gov
Michigan Invasive Species Grant	Kammy Frayre, 517-284-5970, frayrek1@michigan.gov
Wildlife Habitat Grant	Kelly Parker, 517-284-5957, parkerk4@michigan.gov
U.P. Deer Habitat Improvement Partnership Grant	Bill Scullon, 906-563-9247, scullonh@michigan.gov

June NRC Meeting Summary – Ed Golder, Public Information Officer

The Natural Resources Commission met June 9th at Jay's Sporting Goods in Gaylord. Here are the major actions taken:

- The Commission approved [new furbearer regulations](#).
- The Commission delayed until next month a decision [on chumming regulations](#) in order to gather more public input. Most members of the public who spoke at the commission meeting addressed the chumming issue. Commissioners asked the department to draft a proposed chumming regulation that would continue to allow the practice but limit the amount of chum used.
- The director approved the results of the May Oil and Gas Lease Auction. More than 11,000 acres of mineral rights were leased in 13 counties, raising more than \$797,000 for the State Parks Endowment Fund.
- The director approved six land transactions. Details of these transactions can be found in the [NRC agenda](#).

The day began with a new initiative the NRC has undertaken dubbed "Coffee and Commissioners." The event allows the public to interact directly with

**2016 U.P.
NRC Meeting
September 8, 2016
Gogebic Community
College
Ironwood, MI**

**WUPCAC Meeting
September 7, 2016
Gogebic Community
College
Ironwood, MI**

commissioners, ask questions and make suggestions outside the formal venue of public comment at NRC meetings. Commissioners plan to hold these informal get-togethers when they have meetings outside Lansing. The first Coffee with Commissioners event was held in February in Detroit.

Next was a meeting of the **Michigan State Parks Advisory Committee**. The following items were covered:

- Belle Isle Public Survey Results: Parks and Recreation Chief Ron Olson reported to the committee on this survey of people in the metro Detroit area. The results showed high satisfaction with the park among those who visited and high satisfaction with state management of the park. The survey also showed that two-thirds of those surveyed thought that Belle Isle is an appropriate venue for large-scale events, including the Chevrolet Detroit Belle Isle Grand Prix, which took place last weekend.
- Pet Friendly Lodging Pilot Program: Seventy-seven percent of travelers have a pet that influences their travel decisions. Parks is piloting pet-friendly lodging in select destinations across the state. Parks has selected four pilot locations -- Lime Island cabin, Cheboygan State Park Lodge, Harrisville State Park cabin and Lelenau State Park cabin, said Maia Turek of Parks. Each location would continue to have pet-free options available to guests during the course of the pilot. The pilot is scheduled to be conducted June 2017 through October 2017, with evaluation and final recommendations by Dec. 15, 2017.
- Finance sub-committee update: Jackie Blodgett of Parks gave an overview of the budget for state parks, recreational boating and trails. Revenues for these programs totaled \$106.4 million in Fiscal Year 2016. Of that, \$64.2 million went toward state parks funding, \$22.7 million to state forest and trails funding (including grants), \$17.2 million to recreational boating funding, and the remainder to the RAM Center and Sterling State Park revenue bonds.
- Paul Yauk and Anna Sylvester of Parks gave a report on rail-trail corridors and land administration of those corridors. That administration has been a matter of discussion within the department since the 2012 transfer of forest recreation from Forest Resources Division to Parks and Recreation Division. The divisions are working together to clarify administration of these trails.
- Jason Fleming of Parks reported to the committee on the scoring and pricing of events in state parks. Scoring is a tool to gauge impacts of events on park resources. The Parks Division plans to establish a policy on scoring and pricing, with the hope of simplifying the process for local staff. The policy will recognize that some events, such as commercial and for-profit events, should be treated differently than community, local government or school-related events.

The Policy Committee on Wildlife and Fisheries met next. The following issues were covered:

- Fisheries update: Fisheries Chief Jim Dexter reported on the issue of chumming, the practice of using organic material, primarily fish eggs, to attract fish. The practice is currently allowed in Michigan. The department has collected nearly 100 comments on whether the practice should continue. The comments are evenly split in support of and in opposition to chumming. Jim emphasized that regulatory recommendations to the commission always look at biological impacts, social impacts and economic impacts. In addition, Jim said the department is working with the National Parks Service -- which manages Sleeping Bear Dunes National Lakeshore -- to develop an additional boating access site for access to Platte Bay. On June 22, there will be a joint meeting of the Lake Michigan and Lake Huron advisory committees to focus on Chinook salmon in those fisheries. Jim also announced the discovery of New Zealand mud snail in the East Branch of the Au Sable River near Grayling. The invasive species was found last year in the Pere Marquette River near Baldwin. The department is informing the public and distributing information through fly shops to enlist anglers in stopping the spread of the species.
- Wildlife update: Wildlife Chief Russ Mason, reported that the Wildlife Habitat Grant application period has begun. Proposal applications are due by COB on July 20, 2016. Successful applicants will be notified on or about October 1, 2016. The Division is replacing a siphon tube at the Shiawassee River State Game Area and should have that completed by September. In mid-July Kelly Straka will become the DNR's new wildlife veterinarian. Kelly currently

serves as wildlife veterinarian for the state of Missouri. The U.S. Fish and Wildlife Service is considering listing moose as a threatened or endangered species. The department will work with the Service and other states to inform evaluation of this proposal.

- **Hunter Access Program:** Mike Parker of Wildlife reported on the state's Hunter Access Program (HAP), by which the department leases private lands to increase hunting opportunities for everyone. The number of enrolled HAP acres has declined significantly since the early 1980s, primarily because of a reduction in program funding. The 2010 Farm Bill created Voluntary Public Access and Habitat Incentive Program grants that have helped revive the HAP. Surveys of property owners show they are very satisfied with their participation in the program. Surveys of hunters show that HAP is meeting a need for increased access to hunting lands. This year for the first time the department will be doing habitat enhancement on HAP lands.
- **Deer Harvest Survey Report:** Brian Frawley of Wildlife presented the results of the 2015 Deer Harvest Survey. The number of kill tags issued for 2015 was roughly 1.3 million, down about 2 percent from 2014. The number of individual hunters in 2015 was 654,579, down about 1 percent. Antlerless harvest was 137,073 deer in 2015, down 5 percent from the previous year. Antlered buck harvest totaled 191,608, an increase of 8 percent from the previous year, a significant jump. All told in 2015, 42 percent of hunters were successful, a 1 percent increase over the previous year. Hunter satisfaction was up this year across all categories measured -- number of deer seen, number of bucks seen, overall hunting experience and deer harvested.

During the **Committee of the Whole** Director Bill Moritz and staff gave a report that included the following items:

- **Arauco and forestry update:** Acting Forestry Chief Deb Begalle reported that the fire season has been relatively light, despite very dry conditions at times. The state experienced about half the wild fires on about one fifth of the acreage this year compared to last year. Forestry has planted 7 million seedlings this year on 7,200 acres, an increase over last year. The department is close to signing three Good Neighbor Authority agreements with the U.S. Forest Service to promote collaborate management of national forest land in Michigan. We are the second state in the nation to sign such an agreement. Finally, ground should be broken this fall for the Arauco particleboard plant in Grayling, which will be a boost to the local economy and to timber markets.
- **Parks and Trails:** Parks Chief Ron Olson said that lodging reservations are up 10.3 percent this year over last at state parks. Recreation Passport sales are up 1.8 percent. Harbor reservations are up 12 percent. ORV license sales are up 1.5 percent and ORV trail stickers are up 13.2 percent. More than half-a-million dollars was raised for the Belle Isle Conservancy at the Grand Prixmiere on Belle Isle last weekend. The division will cut the ribbon this week on the first five miles of a 15-mile mountain bike trail at Waterloo State Recreation Area. Tom Paquin, Eastern Upper Peninsula district supervisor for the Parks Division, is retiring at the end of the month.
- **Arctic Grayling Initiative:** Fisheries Chief Jim Dexter talked about a new program to return the Arctic grayling to Michigan. The Arctic grayling is a native and iconic fish species in the state. The slate-blue fish has a sail-like dorsal fin and was at one time virtually the only native stream salmonid in the Lower Peninsula. Michigan's native grayling population died off nearly a century ago due to statewide logging efforts of the 1800s, over-fishing and general habitat destruction. Reintroduction efforts have occurred in Michigan, the most recent one 30 years ago. While unsuccessful at that time, lessons were learned and significant strides have been made to establish a better strategy to move this initiative forward. The goal is to establish a self-sustaining population of the fish throughout its historic range in the state. The state will work in partnership with the Little River Band of Ottawa Indians on this project.
- **Department Budget:** Erik Eklund of the Finance and Operations Division said the DNR budget has been passed by both chambers of the Legislature and is awaiting a signature by the governor. Although the department saw a slight decrease in its General Fund request, the budget largely mirrors Gov. Snyder's recommendation for DNR funding.
- **Conservation Officer Academy Graduation:** Law Enforcement Chief Gary Hagler said that 16 conservation officers have graduated from the most recent Conservation Officer Academy, bringing the number of COs in Michigan to 227. The officers completed the 22-week academy and now enter 18 weeks of field training.

- Lifesaving Award: Chief Hagler presented the award to Conservation Officer Kyle Bader of Ogemaw County. In March of this year, CO Bader was dispatched to help a man who was believed to be suicidal. CO Bader was able to locate the man on state-managed public land, traveling part of the way on foot to find him. The man was in his truck, which was running and had a hose connected from the exhaust pipe to the cab of the truck. CO Bader was able to pull the man from the truck. Although pale and groggy, the man revived and is doing much better since the incident, according to his family.
- Steve Schmitt Retirement: Wildlife Chief Russ Mason honored Dr. Steve Schmitt, retiring state wildlife veterinarian, for his 38 years of service to the department and to natural resources in Michigan. Steve has overseen a variety of big issues for the department, from tranquilizing moose in Algonquin Park in Canada for transfer to Michigan, to responding to the finding of chronic wasting disease in Michigan's free-ranging deer population. Russ praised Steve for his outstanding work through the years.

June 2016 Legislative Update - Trevor VanDyke , Director, Legislative & Legal Affairs Office

SB 39 – Restrictions on Land Acquisitions, Land Sales and Land Management by the Department– Sen.

Casperson: This bill seeks to amend the Natural Resources and Environmental Protection Act by prohibiting the Department from acquiring land north of the Mason-Arenac line if any state PILT payments, commercial forestland payments, or payments on tax-reverted land are not paid in full and on time. Further, the bill provides local units of government the ability to prohibit the Department from acquiring land where 33% of that local jurisdiction's land is either owned by the state, federal government, or in commercial forestland. The bill also urges the Department to provide motorized public access to all lands under the control of the Department, modifies the process for land exchanges, sales and appraisal valuations, and requires for each forest management area the establishment of an allowable sale quantity, a minimum sale quantity, and management goals.

- This bill is before the Senate Committee on Natural Resources.
- The Administration opposes this legislation.

SB 40 – Expands the Acceptable Uses of the Land Exchange Facilitation Fund to Pay Certain Costs – Sen. Booher:

This bill seeks to amend the Natural Resources and Environmental Protection Act by amending Sections 2135, 2154 and 51106 to expand the acceptable uses of the land exchange facilitation fund to pay for maintenance and natural resource management costs, special assessments on lands owned by the Department, payments for the exchange of lands with the United States under section 2150, PILT payments under section 2154, and payments on commercial forestlands under section 51106. The bill further increases the payment amount per acre on commercial forestlands.

- This bill is before the Senate Committee on Natural Resources.
- The Administration opposes this legislation.

SBs 651 - 653 – Transitional Qualified Forest Property – Sens. Booher and Casperson: These bills seek to allow forestland to move from the Commercial Forest Program to the Qualified Forest Program, with the tax increase associated with the transfer to the QF program phased in over five years. SB 651 would create a new act, the Transitional Qualified Forest Property Specific Tax Act, which would allow forestland in the Commercial Forest Program to be considered "transitional" forest property for up to five years and be subject to a new annual specific tax. SB 652 seeks to amend the General Property Tax Act by amending Section 7jj and adding Section 7vv. SB 653 seeks to amend Section 51108 of the Natural Resources and Environmental Protection Act by adding the requirement that the Department of Agriculture and Rural Development and the DNR, within 30 days of the amendatory act, establish in writing a basis of interdepartmental cooperation when an owner of forestland seeks to withdraw forestland from the CF program without penalty.

- These bills were referred to the full House for consideration.
- The Administration has not taken a position on this legislation.

SB 816 – Exempts all Veterans from the Recreation Passport Requirement – Sen. Colbeck: This bill seeks to amend Sections 74116 and 78119 of the Natural Resources and Environmental Protection Act, PA 451 of 1994, to exempt all military veterans who possess a valid, government-issued veteran identification, from the recreation passport requirement for entry into any state park, recreation area and/or state-operated boating access site.

- This bill is before the Senate Committee on Veterans, Military Affairs and Homeland Security.
- The Administration opposes this legislation.

SB 817 – Free Fishing License for Honorably Discharged Veterans or Active Duty Military – Sen. Colbeck: This bill seeks to amend Section 43537 of the Natural Resources and Environmental Protection Act, PA 451 of 1994, to allow an honorably discharged veteran or active member of the military to obtain an all-species fishing license free of charge.

- This bill is before the Senate Committee on Veterans, Military Affairs and Homeland Security.
- The Administration opposes this legislation.

HB 5146 – Possession of a Deer or Elk Carcass from a State Listed as Containing CWD – Rep. Kivela: This bill seeks to amend Section 40118 of the Natural Resources and Environmental Protection Act to establish as a misdemeanor and prescribes penalties against an individual who imports deer or elk carcasses from a state or providence detected to have CWD in free-range deer or elk populations. While these restrictions are currently contained in WCO, this bill would increase the penalty up to not less than \$500 or more than \$2000 and/or up to 90 days imprisonment.

- This bill was referred to the Senate Committee on Outdoor Recreation and Tourism.
- The Administration supports this legislation.

HB 5275 – Forest Roads, Pack & Saddle and ORV Use – Rep. Cole: This bill seeks to add a new Section 72117, amend Section 72115 of Part 721, amend Section 81133, and repeal Section 81126 of Part 811 of the Natural Resources and Environmental Protection Act to allow pack and saddle animals and ORVs to be used to retrieve legally harvested large game, to require that an inventory of forest roads be created, and to require that forest roads be open to motorized use by the public unless designated otherwise.

- The bill was referred to the Senate Committee of the Whole.
- The Administration supports this legislation.

HB 5484 – Allow Hunter Pink as a Hunting Apparel Color– Rep. Lyons: This bill seeks to amend Section 40116 of the Natural Resources and Environmental Protection Act to require the Natural Resource Commission (NRC) to determine by October 1, 2017, whether any additional colors, including hunter pink, are effective and safe for individuals to wear while hunting. Based on the determination made by the NRC, they shall then issue an order authorizing any additional safety garment colors may be worn while hunting.

- This bill was passed by the full House.
- The Administration has not taken a position on this legislation.

HB 5631 – Modify Allowable Uses of the Forest Development Fund – Rep. Pscholka: This bill seeks to amend Section 50507 of the Natural Resources and Environmental Protection Act to transfer \$3 million from the Forest Development Fund to the First Responder Presumed Coverage Fund for fiscal year 2015-2016 only. The First Responder Presumed Coverage Fund is to be used to fund workers' compensation benefits for eligible firefighters diagnosed with various forms of cancer that are ineligible for or denied other disability pension benefits.

- This bill was passed by the full House.
- The Administration opposes this legislation.

HB 5665 – Specify additional qualifications for membership of NRC, and update duties based on executive reorganization orders – Rep. Howrylak: This bill seeks to amend Section 501 of the Natural Resources and Environmental Protection Act to specify educational qualifications and impose term limits for members of the NRC. The bill also proposes to update Section 501 to reflect the changes found within Executive Orders 2009-45 & 54 and 2011-1 & 2 regarding the appointment of the Director of the Department of Natural Resources by the Governor and the advisory role of the NRC.

- This bill was referred to the House Committee on Natural Resources.
- The Administration has not taken a position on this legislation.

HB 5682 – Require the Department of Natural Resources to verify zoning classification – Rep. Glenn: This bill seeks to amend Section 6 of the Privately-Owned Cervidae Producers Marketing Act to require the Department, upon receipt of an application, to verify if use of the property for a cervidae livestock facility is allowed within the property’s zoning classification.

- This bill was referred to the House Committee on Natural Resources.
- The Administration has not taken a position on this legislation.

HB 5683 – Require the Department of Natural Resources to confirm consistency with zoning classification – Rep. Glenn: This bill seeks to amend Section 42702 of the Natural Resources and Environmental Protection Act to require the Department to confirm with the local unit of government that a premises applying for propagation of game is zoned agricultural.

- This bill was referred to the House Committee on Natural Resources.
- The Administration has not taken a position on this legislation.

HB 5702 – Provide for issuance of permits to prevent or control damage, disease, or nuisance caused by animals – Rep. Bumstead: This bill seeks to amend Section 40114 of the Natural Resources and Environmental Protection Act to expand the issuance of permits for the taking of animals to include disease. In addition, this bill establishes that the taking of animals pursuant to permits issued under this section is not considered hunting.

- This bill was referred to the House Committee on Natural Resources.
- The Administration has not taken a position on this legislation.

If you would like to learn more about these and other bills, you can access the Michigan Legislature website at www.legislature.mi.gov.

Western UPCAC Update

The WUPCAC met on **May 19th** in Escanaba at the DNR Pocket Park. Council members had a chance to see some of the weigh-ins from the Cabela’s National Walleye Tournament which was held at the Fairgrounds. Agenda items included: Nominations for Facilitator and Co-Facilitator (both Phil Wirtanen and Warren Suchovsky were re-elected), bylaw discussion regarding changing titles from Facilitator to Chair/Co-Chair, UP Wildlife Habitat Workgroup update by George Lindquist, CWD Update by Terry Minzey, Furbearer Regulations Update by Adam Bump (via conference call), Michigan Wildlife Council Presentation by Jim Hammill, Cormorant Update by George Madison, and subcommittee reports. The next meeting will be held on July 21st in Keweenaw County (Keweenaw Heritage Center at St. Anne’s).

Division Updates

EUP Wildlife Division: Terry Minzey, Wildlife Supervisor (by Cody Norton, Wildlife Biologist)

- **Tree planting:** Oak trees are being planted in areas where diseased beech trees were recently harvested. These trees are being planted in order to provide an alternative fall hard-mast food source to beech nuts. Apple and crabapple trees are being planted around openings to provide a late summer soft-mast food source.
 - **Shingleton:** Wildlife staff planted about 4,000 red oak and 400 apple/crabapple saplings this year. Most of these stands are within the Petrel and Big Springs deer wintering complexes (DWC).
 - **Newberry:** Wildlife staff planted about 400 red osier dogwood seedlings in a Luce county DWC.
 - **Sault Ste. Marie:** Wildlife staff partnered with the Drummond Island Elementary School, Drummond Island Sportsmen’s Club, and the Chippewa/Luce/Mackinac Conservation District to plant about 1,000 red oak saplings and over 4,500 red oak seedlings from western Mackinac County to Drummond Island.
- **Opening maintenance:** Openings are being planted, burned, or maintained to provide spring deer “break-out” areas and habitat for grassland bird species.

- **Shingleton:** Wildlife and Forest Resources Division (FRD) staff conducted a prescribed burn in the high-rollways area for a deer “break-out” area and sharp-tailed grouse habitat.
 - **Sault Ste. Marie:** Wildlife and FRD staff conducted a 160 acre prescribed burn at the Munuscong potholes near Pickford to create habitat for waterfowl and grassland birds such as sharp-tailed grouse.
 - Additional prescribed burns were planned but did not occur do to resource limitations.
- **Grouse Enhanced Management Sites (GEMS):** In addition to intensive aspen management, GEMS are being established and improved through the planting of tree, shrub, and clover species along trails and in openings and the installation of infrastructure.
- **Shingleton:** Wildlife staff partnered with UP Whitetails of Alger County, Ruffed Grouse Society (RGS), and Wildlife Unlimited of Delta County to plant >4,000 shrub seedlings in the Melstrand and Garden Grade GEMS. Infrastructure is currently being installed.
 - **Newberry:** Wildlife staff is beginning work on gate and parking lot infrastructure at the Halifax GEMS.
 - **Sault Ste. Marie:** Wildlife and FRD staff partnered with Drummond Island Elementary School, Drummond Island Sportsmen’s Club, RGS, Michigan Sharp-tailed Grouse Association, Chippewa/Luce/Mackinac Conservation District to plant about 200 trees and shrubs in the Drummond Island GEMS.
- **Hunter accessibility**
- **Newberry:** Wildlife staff is continuing work on an easy-access waterfowl hunting blind that will be ready this fall at the Dollarville flooding.
- **Grouse/woodcock surveys:** Surveys for sharp-tailed grouse and American woodcock were conducted to inform management about their distribution and abundance.
- **Deer Wintering Complex Plans:** Wildlife staff is reviewing strategic plans for some DWC’s in the East UP. The plans are intended for private sector landowners and describe strategies for managing appropriate stands for food or cover resources along with other projects to benefit wintering deer. Operational plans for state land management will be developed after.
- **Personnel update:** Jayne Meinhard has been hired as the new wildlife technician in Newberry. Seasonal wildlife assistants will be working throughout the summer to help with various wildlife habitat projects.
- **Nuisance bears/”orphaned” wildlife:** Bears have left dens and are looking for easy food sources to regain weight lost during winter. Citizens should remove human sources of food like bird feeders, garbage, etc. to avoid problem bear encounters. Deer and other wildlife species are producing offspring in spring, and often leave them alone for periods of time to reduce the risk of predation. Citizens that find a lone fawn or other young animal should leave it alone.
- **U.S. Fish and Wildlife Service (USFWS) evaluating protection status of moose:**
- MDNR will aid the USFWS in the federal agency’s evaluation of whether the northwestern subspecies of moose (*Alces alces andersoni*) should be added to the list of threatened and endangered species. This subspecies is found in the U.P. (including Isle Royale), Minnesota, North Dakota, and Wisconsin.
 - The USFWS determined a petition filed by The Center for Biological Diversity and Honor the Earth provided substantial scientific or commercial information that listing under the Endangered Species Act may be warranted.
 - This finding initiates a rigorous review in which the Service will determine whether the species warrants listing under the Endangered Species Act. The Service has opened a 60-day comment period to solicit relevant information from the public.
 - DNR population surveys in recent years have estimated the moose population at roughly 400 in the western U.P. and, based on citizen reports and field observations, about 100 in the eastern part of the region.
 - Moose are currently listed as “species of special concern” in Michigan, but this status does not afford any protections to the animals or their habitat. Moose are also a designated game animal in Michigan, but the NRC has not authorized hunting seasons.

Forest Resources Division: Jeff Stampfly, Eastern UP Supervisor

- As of June 3rd, 275 timber sale contracts are open in the EUP. This represents 459,408 cords of timber on 34,196 acres, and is valued at approximately \$23.6 million.
- In the EUP, 25 sales were offered in April and May; two of those went “no-bid”, though one was picked up at minimum price. Sales with good access, pine sales, and sales with hardwood sawlogs are drawing interest and decent prices. However, many loggers are concerned with markets in both hardwood pulpwood and softwood pulpwood, and in some cases aspen.
- Logging activity picked up once seasonal county road restrictions lifted, and activity is average to high for this time of year. Loggers have been opening sales and cutting units with the species that they can market wood. Some are moving from sale to sale to cut what they can move.
- Firewood permits are being issued again effective April 1st, with approximately 12 so far for the EUP.
- Sault and Shingleton Unit staff will be starting on the Hiawatha NF Good Neighbor Authority timber sale preparation of almost 500 acres later this month when the agreements and other details are completed.
- Two vacancies in the Newberry unit have recently been filled, one fire officer and one forest technician. The Shingleton fire supervisor has been on temporary assignment at the ICC in Marquette. The Detour Office was again unmanned for the Spring Fire season. This created a major staffing issue and required substantial time from the Sault Unit foresters and other fire officers to provide fire coverage for the Detour and Drummond Island areas. A limited term Fire Officer has been helping the Sault Unit this spring fire season. Early in the season, several EUP staff went downstate to help with prescribed burning there. Two staff are currently at Midwest Truck driving school training to get their Commercial Driver’s License.
- Of note was the 15 Mile Road Fire on April 30th. It was a 154-acre agriculture burn that Air-4 was monitoring, but it escaped into an old timber slash area (8-10 acres). Access was limited due to a creek, a beaver pond and swamp area. Hand tools, portable pumps and 3500’ of hose was used to control the fire. This was a multi-agency cooperation from MDNR, USFS, BIA and Bruce Township FD and Pickford VFD.
- For the EUP this season, there has been 9 reportable fires, 6 non-stat fires, a 160-acre prescribed burn in the Sault unit, and a 350-acre burn in the Shingleton unit. These burns were both for wildlife. The one at the Sault was intended to be larger, but had to be shut down to respond to a wildfire on Sugar Island.
- We have had several days of High and Very High fire conditions this spring, requiring fire qualified persons to staff offices. Spring time green up and recent rains are welcomed and have offered some relief, allowing foresters to return to timber sale preparation and forest inventory activities.
- Wyman Nursery just finished lifting 6.5 million seedlings, which are being planted statewide. They also lifted 300 large oak saplings and 5,000 oak seedlings. The nursery planted 5,000 acorns this year and plan to continue planting 5,000 more every year. It will take 5-6 years for these to reach sapling size, when they will be planted on state land. The nursery is also in the process of planting conifer seed (red, jack and white pine and white spruce).
- Approximately 1.8 million seedlings were planted in the EUP this spring. This is a combination of jack and red pine. One of the places planted was 310 acres of the Duck Lake Fire area.
- Sault unit staff recently helped with wildlife habitat planting projects on Drummond Island and in the Battydoe deer yard. They also helped with tree planting on the Engadine School Forest.

- Staff have been working on forest cultivation activities. Shingleton has completed 500 acres of trenching so far. Newberry plans to complete 1,000 acres of trenching, 1,400 acres of scarification, and 350 acres of roller chopping. The roller chopping will be in the Duck lake fire area to knock down small sapling sized trees that were burned over. This will assist in future planting efforts.
- Forest regeneration surveys are being conducted by forestry staff this spring and will continue into the summer. These surveys are conducted in areas that were recently harvested to ensure the forests are successfully regenerating.
- Staff have been working on road projects, including culvert replacement on McLeod, Camp 6, and Big Knob roads. Additional culvert and bridge projects are planned. FRD staff will also be working on campground projects such as hazard tree removal, road grading and general maintenance.
- The 2018 Year of Entry (YOE) inventory is nearing completion. The first open house in the EUP is in Sault St. Marie Unit on September 13th and 14th. The complete schedule is at: www.michigan.gov/forestry.
- The electronic version of the Forest Resources Division Fiscal Year 2015 Accomplishments Report is available online.
- In forest health, spruce budworm (SBW) larvae are feeding in the young spruce and fir shoots as they expand. They are currently in the 3rd instar. Homeowners interested in protecting landscape spruce or fir from defoliation this year should spray now, with Bt products recommended. As the budworm larvae grow, they will cause increasing levels of defoliation. Clipped needles will turn brown later in June showing this year's impacted areas.
- Michigan State University is beginning a large scale research project across the state including 12 sites in Shingleton to study hardwood regeneration and deer impacts.

Eastern UP Fisheries Division: Steve Scott, Eastern UP Field Units Supervisor

Field Units (Cory Kovacs, Acting Unit Manager)

- Field staff is currently completing lake surveys. Lake Milakokia (Mackinac), Pike Lake (Luce), Clark Lake (Chippewa), and Pretty Lake (Luce) are those of interest that have been completed thus far.
- Walleye fry have been stocked in all of the rearing ponds. Two ponds in Eastern Lake Superior Management Unit. Near the end of June is the typically pond harvest season.
- 38,500 Splake were stocked in Munising Bay. Marquette State Fish Hatchery had a few extra Splake this year allowing some locations to be stocked at Level 3 (10% above Level 2).
- All Great Lake creel clerks have started their schedules. Deer Lake (Marquette County) has a creel survey being conducted for the first time in 2016.
- Newberry field staff has made repairs to three boats within their fleet. All equipment is up and running now.
- Staff attended a joint meeting with Lake Superior State University to discuss updates for the Atlantic Salmon program, student research projects, and MDNR hatchery and field updates. June 2, 2016 marked the 30th anniversary of Atlantic Salmon stocking in the St Mary's River. Fisheries Division staff attended the celebration at the LSSU Aquatic Resource Lab on June 3, 2016.

Marquette Research (Ed Baker, Station Manager)

- The RV Lake Char and crew finished the spring lake trout survey on June 1. The spring survey samples lake trout from Whitefish Point in the east to the Porcupine Mountains in the west. The vessel crew is now attending to vessel maintenance issues in preparation for the summer lake trout survey that will begin in July. Walleye tagging efforts were completed in Little Bay de Noc in mid-April. Staff tagged nearly 1,000 walleye and worked with hatchery personnel to collect eggs in support of walleye stocking efforts. Lake sturgeon rearing is underway in streamside hatchery trailers on the Cedar, Whitefish, and Ontonagon rivers with fish scheduled to be stocked in these rivers in late August or early September. Staff are also retrieving archival tags that were placed on lake trout in 2015. The tags record data and after a pre-programmed period of time pop off the fish and surface. The location of the tag is picked up by satellites and transmitted to the office so crews can then retrieve the tags and data.

- Stream survey work will begin in July and continue into October.

Marquette and Thompson Fish Hatcheries (Jan VanAmberg, Manager)

- As of the writing of this update (June 6th) annual spring fish planting activities at both hatcheries are completed. No major problems were encountered and there were no significant shortages of fish at either hatchery.
- There were small surpluses of steelhead, and splake and a significant surplus of walleye fry.
- Summaries of fish stocking activities will be provided in the next scheduled update.

- *Marquette State Fish Hatchery- Marquette*
 - The crew is tearing down the outside raceways for annual clean-up and disinfection.
 - All the fingerlings inside are doing well with no fish health problems to report
 - Maintenance staff have been helping the Research Station with remodeling the Research lab across the creek. It's nearing completion.

- *Thompson State Fish Hatchery- Manistique*
 - Fish planting was completed with only one licensed driver from Thompson and some outside assistance. Thanks to Eastern Lake Superior, Southern Lake Huron, Marquette Hatchery and Marquette Research station for all the help.
 - Little Bay de Noc walleye incubation went well even though the egg quality was average to below average this year. We shipped 2.7 million fry to rearing ponds, 1 million to Portage Lake and had 1.9 million surplus to stock in Little Bay de Noc.
 - We experimented with different marking methods for walleye fry and found some very promising leads. We found the standard 700 ppm concentration we have been using for oxytetracycline (OTC) doesn't kill the fry but it is stressful for the fry. Fry marked at 500 ppm survived and looked much better. When the fingerlings are harvested later this summer we will see if the marks produced at 500 ppm are readable. We are working with Research Section on an informal study design and will report our findings at the next walleye committee meeting.
 - Interviews for the vacant fisheries technician position are scheduled for next week. There is a mix of internal and external candidates interviewing.
 - The outside raceways are empty and will be cleaned up as time allows.
 - Next year's steelhead fry were put down in inside tanks this week and the crew is cleaning them up all this week.
 - Maintenance staff has begun working on replacement of all aluminum aeration cans with PVC which will last indefinitely.
 - We have initiated an emergence repair of our largest shallow well and should be back up and running early next week. Cost is unknown at this time.
 - USFWS mass marking trailer was left for storage and Allen Lane will be here on June 6th to mock up placement and define logistics for mass marking steelhead. May be somewhat complicated because of the need to mark and reroute fish back into the building.

Public Information Office: John Pepin, Deputy Public Information Officer

- "Ask the DNR" programs for spring have now concluded, with the next sessions to be broadcast in October, November and December. The program is produced five times each year for the Upper Peninsula and parts of northeastern Wisconsin, broadcast on WNMU-TV13.

- We will be collecting viewer photos of their enjoying the natural resources of the Upper Peninsula for the fall programs. Send yours to me at pepinj@michigan.gov. Having some pictures of families enjoying the Upper Peninsula would be great.

- Work continues on the media studio in the Marquette office, with very positive feedback from the media. Interchangeable display boards are being produced. Subjects range from state parks to deer and bears to invasive species. Look for them during the DNR stories on local news broadcasts.

- I am in the process of shooting photographs of Michigan Natural Resources Trust Fund projects, past and present, for the 40th anniversary celebration events in August and October. Some of these photos were shown on the May “Ask the DNR” program in a photo segment celebrating the Trust Fund’s 40th anniversary.
- The “Showcasing the DNR” feature story series is running double-time throughout the summer. The stories are issued each Thursday throughout the year. In addition, stories will also be issued on most all Tuesdays this summer. This is part of a recent ongoing effort throughout the year to add additional content to the series.
- Some June Showcasing Stories and Issue Dates (Subject to Change):
 - 9 – DNR Veterinarian Steve Schmitt Retires
 - 14 – Recreation Passport Update
 - 16 – Shooting Sports Participation, Range Improvements
 - 21 – U.P. Lake Sturgeon Rehab Efforts
 - 23 – Copper Harbor Range Lighthouse Restoration
 - 28 – Woodcock Banding
 - 30 – Aquatic Invasive Species Spotlight
- Catch upcoming stories by subscribing to free, weekly “Showcasing the DNR” articles. Check out previous Showcasing articles.

Finance & Operations: Christina Hammill, Eastern UP

Dates to Remember:

- 6/1 – Deadline to apply for Bear and Elk hunts
- 6/11 & 6/12 – Free Fishing Weekend
- 6/11 & 6/12 – Free ORV Weekend
- 6/29 – Bear & Elk Drawing results posted on Web site
- 7/1 – May apply for Fall Turkey hunts
- 7/6 – Leftover bear licenses (if available) on sale for lifetime comprehensive license holders
- 7/8 – Dog Training opens
- 7/13 – Leftover bear licenses (if available) on sale for unsuccessful applicants
- 7/15 – May apply for Antlerless Deer license and purchase Junior Antlerless
- 7/15 – Coyote hunting season opens
- 7/15 – Turtle season opens (Snappers and Softshells)
- 7/20 – Leftover bear licenses (if available) on sale for any hunter
- 8/1 – Crow season re-opens (open dates are 8/1 – 9/30 and 2/1 – 3/31)
- 8/1 – Deadline for Fall Turkey applications
- 8/1 – New Hunting & Trapping Digests available at license agents
- 8/1 – Hook & lure size/weight restrictions begin on all streams (through 5/31, see p. 11)
- 8/10 – May place bear blinds and bear baits out in the Upper Peninsula
- 8/11 – Fall Turkey Drawing results posted on Web site

Marketing & Outreach Division: Jon Spieles, Education Services Section

- The Michigan DNR and its education partners presented to nearly 300 Michigan educators at the Michigan Science Teachers Association annual conference in early March. Seven consecutive programs highlighted natural resource and conservation issues and DNR education programs. Eighty five percent of the teachers gave these sessions the highest rating available. The DNR exhibit was also visited by many of the 1,800 attendees.
- The Michigan DNR put together an Invasive Species Event for the 2016 Michigan Science Olympiad held on the campus of Michigan State University on the last day of April. 192 students from 96 different schools participated in the event.

- The DNR Facebook page reached 100,000 followers or “likes” in March. This is a result of the quality content that is shared by staff and the engaging way our social media coordinator interacts with our fans.

- DNR gave a crash course on steelhead fishing in early April. Expert guides offered basic instructions and practical advice on how to reel in steelhead during a two-day seminar at the Carl T. Johnson Fishing Center in Cadillac. Around 35 participants signed up for the class. *Cadillac News* covered the story.



- Our Finance & Administration staff completed monthly financial reports and is preparing budget templates for fiscal year 2017. They are working with the state team to convert to a new accounting system. They are also in the process of hiring approximately 124 seasonal state workers for field sites.

- Technology staff is visiting field offices across the state to address connectivity issues.

- In March, Archery staff coordinated the live state archery tournament at Central Michigan University. A record number of shooters (more than 800) turned out, with Hartland taking the gold.



- A department team is working together to assess our programs that address recruitment, retention and reactivation (R3). We are inventorying our programs, will be developing metrics and specific marketing and communication strategies to target areas of opportunity, with a goal of increasing participation.

- The number of email subscribers continues to increase above 1 million (added 17,000 last month!). The Weekly Fishing Report continues to have the highest open rate, at over 27% last month. Our article—with a live cam—about the Platte River Hatchery’s nesting eagle had the highest engagement rate, with over 10% of recipients clicking a link.

- Marketing staff from across the department has been working with Gud Marketing on content for the Michigan Wildlife Campaign launch in April, with Pure Michigan for the fishing campaign that launches in April and with some convention and visitors’ bureaus on fishing and trails promotional campaigns, which also launch in April.

Parks & Recreation Division: Tom Paquin, Eastern Supervisor

➤ **Fayette Historic State Park**

- Historic Townsite Furnace Stacks Restoration: On track to be completed on time (June 30)
- Harbor: Footing hole dug, new dock being constructed at Floatation Docking Systems in Cedarville
- Campground: Contracts awarded and equipment has begun the process of modernizing Fayette’s campground
- Seasonal opening of all facilities – no significant problems
- Building #9: Remove all window sashes; (ongoing) repair sash, re-glaze panes and repaint.
- Campground opened for season May 6th
- Townsite opened for season on May 14th
- All returning seasonal staff onboard; however,



currently have 4 vacant state worker 4 slots and NO applicants

➤ **Indian Lake/Palms Book**

- The Newberry crew completed a maintenance dredge at the Indian Lake boat ramp. They also removed several yards of Zebra Mussels from the Seul Choix Pte boat ramp.
- Filling our state worker position has been challenging this season. We usually don't have any problem filling positions.
- Camping and day use numbers are up slightly, state campground attendance is about even & Palms Book attendance is up 3%.

➤ **Straits State Park**

- Construction on the lower campground toilet shower buildings continue and are nearing completion.
- Staff has constructed four accessible campsites in the lower campground to coincide with the new restroom shower facilities.
- Sewer line replacement and sidewalk poured at Father Marquette.
- Straits and Mackinac Island still looking for summer worker staff. It has been difficult to find staff this year.
- Lilac festivities going on at Mackinac Island Harbor.
- Attendance numbers were up for Memorial weekend.
- A second meeting was held with Eric Craymer for development potential for Father Marquette site. This meeting included all the potential partners which included: LSSU, Mackinac Island State Parks Commission, Sault Ste. Marie Tribe of Chippewa Indians, Moran Township, Mackinac Straits Health System, DNR Michigan History Center, and DNR Parks and Recreation Division.

➤ **Tahquamenon Falls State Park**

- Park staff has repaired a large section of walkway at the lower falls entrance to correct some ADA compliance issues.
- The Newberry construction crew is in the process of replacing a 30" culvert, which lies 13' underneath our lower falls lagoon road.
- The lodge #2 project is currently on hold, as park staff has focused their time on routine park needs & improvements.
- Ryan Brown has accepted the vacant Seasonal Ranger position and reported to work on 5/23/16.
- Filling our state worker positions has been challenging. We still have one vacant position at this time. It's hard to attract decent help when the starting wage is \$8.50/hr.
- Memorial weekend was very busy with about 80% occupancy in the campgrounds & overflowing day use attendance on Sunday. Park staff directed traffic at the Upper Falls for 3 hours Sunday afternoon.

➤ **Brimley State Park/Detour Harbor/Lime Island**

- Planning is underway to install the Conely Point boating access site entrance sign and removal/replacement of vault toilets at Munuscong State Forest Campground.
- Detour and Brimley are still looking to fill a couple state worker positions (Brimley-2, Detour-2).
- Brimley/Detour summer orientation will take place at Brimley State Park on June 8th.
- Lime Island opened for the season on June 6th.
- Memorial Day week/weekend brought 149 more camp nights than last year.
- Munuscong State Forest Campground had 58 camp nights for the holiday week, even though bugs were bad.



- The new boating access site at Conely Point has been busy. The locals and general public are very pleased with this new addition.
- Detour Harbor has been dealing with sidewalk/parking lot clean-up from multiple geese families.
- The unit supervisor has been working with Superior Township and East UP trails specialist on possible re-route of snowmobile trail in Brimley (M-221).
- Detour staff had to replace water heater in the host cabin on Lime Island. It will need a new roof soon.
- Brimley staff installed interpretive panels at Conely Point boating access site.



➤ **Muskallonge State Park**

- Phase I of the campground electrical upgrade construction has started in the central loops. Conduit has been run and several new pedestals have been installed. Some earthwork for the barrier free site upgrades has also been completed. Target completion date of these upgrades is June 24th.
- Phase II design and engineering for the headquarters relocation continues. A 50% design review meeting was held on May 25th. Continued Lake Superior shoreline erosion at the current headquarters office building location is re-emphasizing the need for this relocation.
- All vacancies have been filled and all employees are now working!
- A State Park Off-Road Trek (S.P.O.R.T.) ride will take place on June 11th with Muskallonge Lake State Park as the starting location.
- The campground is open to modern camping and camp nights for the Memorial Day weekend were up slightly from 2015.

Law Enforcement Division (LED): Lt. Skip Hagy, District 2

On June 3, 2016, our Conservation Officer Recruit School Graduation was held with 16 Probationary Conservation Officers successfully completing the academy. The PCOs immediately began their Field Training program which will run into the fall at which time the officers will begin their field assignments. We will be receiving one new officer in Chippewa County who will be replacing Officer Jeff Panich who is transferring to another district. Since our last CAC officers have been keeping very busy with fishing, marine, ORV and fire issues, below are some of the cases.

- **CO Mark Zitnik** made contact with two ORV riders who just got on the trail from the gas station. A stop was made when the CO observed an ORV trail License missing from the lead rider. When the CO made contact with the rider he stated he had just purchased the sticker and did not want to put it on due to the ORV being very muddy, the mud was cleaned from a spot and the sticker applied. A verbal warning was given.
- **CO Mark Zitnik and Calvin Smith** followed up on a suspicious fur registration. After interviewing the husband, it was found that the husband used his wife's tag on his marten. Law enforcement action was taken.
- While off duty **COs Mark Zitnik and Calvin Smith** were dispatched to a wolf that was severely injured on the highway. The COs contacted Wildlife Division and met them at the scene. The wolf was determined to be struck by logging truck and had to be euthanized. The wolf was collected by the Biologist.
- **CPLs. Van Patten & Gerlach along with COs Mike Evink, Robert Freeborn, Chris Lynch and Calvin Smith** participated in a night time group patrol of Little Bay De Noc.
- **COs Mike Evink and Calvin Smith** investigated a suspicious grass fire in the Garden Peninsula. On two separate nights a field was set on fire and the local fire department quickly extinguished the burn. The investigation is ongoing.
- **CO Pat Hartsig** attended a youth turkey hunting seminar in Escanaba at the DNR pocket park. CO Hartsig spoke to over 25 youths about the laws pertaining to spring turkey hunting.
- **COs Pat Hartsig and Chris Lynch** attended an ORV safety class at the DNR pocket park in Escanaba. The COs spoke about laws pertaining to ORV safety and enforcement. Thirty participants were in attendance.

- **CO Pat Hartsig and Sgt. Jerrold Fitzgibbon** attended a Wildlife Division meeting in Seney and spoke to the group about laws and regulations as they pertain to registering and sealing fur-bearing animals.
- **Sgt. Jerrold Fitzgibbon along with COs Chris Lynch, Pat Hartsig, and Mark Zitnik** taught Hunter Safety at the Escanaba DNR Office. Twenty-four students attended the class.
- **COs Chris Lynch and Robert Freeborn** were working with a Sault Ste Marie Tribal Officer on Little Bay De Noc when they discovered 2 tribal nets that were set less than required 50' apart. The officer's documented the incident which was then submitted by the tribal officer into tribal court and is pending enforcement action.
- **CO Robert Freeborn** and a Sault Ste Marie Tribal Officer were on routine patrol when they observed 2 ORV's wheelie across a road. All persons on the ORV's were not wearing helmets and one of the ORV's was carrying a passenger on a machine that was not designated for 2 people. The officers were able to get one of the ORV's to stop but the other one took off. After questioning the operator who had stopped, the officers were able to get names of the individuals involved who turned out to be juveniles. Several citations were issued.
- While on routine marine patrol, **CO Robert Freeborn** and a Sault Ste Marie Tribal Officer were checking a local hot spot for perch. After checking several boats and a few nice catches of perch, the Officers came across a boat with an expired registration. When the officers asked the operator about the registration, the subject stated that he had renewed it and showed a card for proof of renewal. After looking closely at the card it was determined that the card the subject had produced was for an ORV registration and not a boat. After a quick check in the computer the registration was verified to be expired. A citation was issued.
- **COs Chris Lynch and Mike Evink** were on patrol when a call of a suicidal subject near their location came out. Unfortunately, the subject took their life. Help was sought for the family. Other agencies on scene were the Delta County Sheriff's Department and Michigan State Police.
- **CO Chris Lynch** responded to a grass fire near his location. Upon arriving on scene the fire was spreading close to home. Fortunately, the fire department was able to extinguish the fire. The suspect said he never planned for the leaf pile he was burning to start the fire he was burning next to on fire. The suspect was ticketed for failure to prevent the spread of fire.
- **COs Chris Lynch and Calvin Smith** were on patrol when a call came out for a rollover accident. The COs were the first on scene. Upon arriving on scene the driver of the vehicle fled the scene on foot and the passenger was observed walking back home. Delta County Sheriff's Department, Michigan State Police, and Escanaba Public safety arrived on scene shortly after. Upon going to a house near by the accident scene it was found out that several underage subjects were consuming alcohol. After a brief interview of the minors, it was discovered the driver of the vehicle was possibly hiding out at a house next door to where the party was going on. The COs and a sheriff deputy went to the house and two subjects fled the scene. After a brief search through the woods the two subjects were located and were also underage consuming alcohol. The driver of the vehicle was not located in the area but the vehicle was impounded and the investigation continues. Five tickets were issued for minors consuming alcohol and one for furnishing alcohol to a minor.
- **CO Chris Lynch** was on patrol checking anglers when he observed three subjects near a net put out by the DNR for egg collection. CO Chris Lynch contacted the three minors and found that one had driven an ORV back into a closed area. The ORV was removed and the minor was turned over to his parents. The parents and the minor were educated on ORV laws.
- **COs Jon Busken, Bobby Watson and Sgt. Mike Hammill** teamed up with **Fisheries Technician Wayne Heinzman** at the local tackle party sponsored by the Tahquamenon Area Sportsman's club. Over 200 kids showed up for the event and had an opportunity to learn fish identification, win prizes and even learn how to cast with the popular "catch a bass" casting game. The event raises some money for the local sportsman's club but more importantly allows kids to leave with the knowledge and gear to hit the lakes and rivers this fishing season.
- **CO Jon Busken** was on routine patrol when he observed two individuals walking from the banks of the Black River in Mackinac County. Contact was made with the individuals who said the fishing had been good and had just finished cleaning their catch. CO Busken examined the fillets and found several brook trout fillets. The angler claimed he did not know that the fish were not in season. Enforcement action was taken.
- **CO Jeff Panich** was working an ORV patrol on Drummond Island. Over 500 jeeps showed up on the island after completing the first ever jeeps across the Mackinac Bridge. CO Panich worked the island and had no issues with any of the jeeps while there and the group was appreciative of his presence.
- **CO Jeff Panich** was parked at a trailhead on Drummond Island when he observed two four-wheelers exit from a trail and then race side by side down a main road at speeds in excess of 50 mph. CO Panich activated his overheads on his patrol truck and was able to catch up with the two ORV's just as they pulled into their residence. The men exited the ORV's and asked why CO Panich had his lights on his truck. After giving the explanation to the two men, CO Panich also advised them of the numerous violations observed by the officer, such as failing to stop, racing on a public highway, and no ORV registrations. Upon hearing the charges, the two men agreed they shouldn't have been racing and swore they didn't see the officer behind them. Enforcement action was taken.
- **CO John Wenzel** was on patrol when a vehicle came up from behind him at a high rate of speed. The vehicle then passed CO Wenzel with oncoming cars present. The oncoming vehicle began flashing its headlights and sounding its horn as it pulled onto

the shoulder to avoid a head on collision. CO Wenzel stopped the vehicle and made contact with the driver who stated that the officer was driving to slow. Enforcement action was taken.

- **CO John Wenzel and Sgt. Mike Hammill** responded to a possible grass fire in the Engadine area. The COs found that it was a controlled burn by the local fire department.
- **CO Kevin Postma** stopped a group of ORV's riding the trails in the Kincheloe area. CO Postma noticed one of the dirt bikes to be unregistered. When questioned, the driver happily showed CO Postma his trail sticker and ORV registration, which was located on the inside of the front fender covered in mud, enforcement action was taken.
- **COs Bobby Watson and John Wenzel** participated in a career fair at the Newberry High School. The COs made contact with many youths who were interested in becoming a Conservation Officer and the most appropriate path to take in order to become one.
- **CO Brett Gustafson** attended the monthly meeting of the Straits Area Sportsman's Club. Several questions were answered regarding fish and game laws.
- During the walleye opener on Little Bay de Noc, **CO Pat Hartsig** contacted many fishing parties on the bay. The bite was slow, but there were more than the usual amount of fishermen due to the Cabela's Walleye tournament. Enforcement action was taken for marine violations such as expired watercraft registrations and not having enough PFD on-board vessels.
- **Sgt. Jerrold Fitzgibbon, and COs Pat Hartsig, and Chris Lynch** attended a wildlife collation meeting in Escanaba and answered many resource questions.
- **CO Chris Lynch** worked ORV complaint areas through the week issuing 6 tickets and several warnings for violations including operating down a public highway, fail to license ORVs, no helmets, riding double, railroad trespass, operating against the flow of traffic, minors operating unsupervised, and minors operating with no ORV certificate.
- **COs Chris Lynch and Pat Hartsig** assisted the Delta County Sheriff Department in the arrest of a subject with a felony warrant for Felonious Assault. The suspected was arrested without incident and lodged on the Delta County Jail. A search warrant for the suspects' vehicle and residence was obtained and the search turned up the weapon used in the assault along with marijuana and drug paraphernalia.
- **COs Chris Lynch and Mark Zitnik** conducted a boat patrol during the Cabela's Walleye tournament. Several contacts were made and weather conditions were good but fishing was slow.
- **CO Chris Lynch and Mark Zitnik** were on patrol on Little Bay De Noc checking anglers. Upon checking one angler a Northern Pike was observed to be on a stringer with a slash on its side. A closer look at the fish revealed it was undersized and foul hooked. Enforcement action was taken.
- **COs Michael Evink and Mark Zitnik** responded to a complaint of a camp baiting deer early. The COs made contact with the complainant and were shown where the feeder was. The COs documented the violations and the investigation is ongoing.
- **CO Michael Evink** received a call from a forester who was requesting his assistance at a small brush fire. The individual burning had not checked for burn permits. The fire danger was high and the fire started to get away. The fire was quickly contained. A ticket was issued for burning without a permit.
- **CO Michael Evink** received a fire complaint from his regional dispatch. CO Evink was able to locate the fire scene and the individual who was burning. After a brief encounter CO Evink recognized the suspect as an individual who sat on the jury of a burning without permit trial earlier in the year. In that trial the jury found in favor of the DNR. A ticket was issued for burning without a permit.
- While following up on an ongoing fur complaint, **CO Robert Freeborn** finished the final interviews and was able to prove an over limit of fisher was taken. The subject stated that when he noticed that he had an over limit in his trap line, he had his buddy who had been helping set traps buy a tag and tag the fisher. Both subjects received citations.
- While working opening day of walleye season, **CO Robert Freeborn and Sgt. Jerrold Fitzgibbon** contacted a boat that was trolling. The COs asked for fishing licenses and 2 of the three produced licenses. When the 3rd was asked for his license, he stated he didn't think he was fishing but when he turned around and looked at the lines in the water and counted 7 lines he stated, "Well I guess I am fishing". A citation was issued for fishing without a license.
- While working the opening day of walleye season, **CO Robert Freeborn and Sgt. Jerrold Fitzgibbon** were closing in on a boat and noticed a subject frantically reeling in 2 lines. When the CO's pulled alongside of the boat, the CO's noticed 2 poles lying in the bottom of the boat that were still wet. When the CO's asked the fisherman about the lines in the bottom of the boat, the fisherman paused and eventually admitted to fishing 2 lines over. A citation was issued.
- **CO Robert Freeborn** received a complaint from the local foresters regarding a logger that cut ¼ acre of state land along a snowmobile trail easement. CO Freeborn made contact with the logger who stated he wasn't aware of the easement along the snowmobile trail. The logger will be making contact with the foresters to work out reimbursing the state for the stumpage taken.
- **CO Calvin Smith** responded to a call from dispatch for a brush fire that had gotten out of control. An elderly couple had started a brush pile on fire in a wooded area and due to the extremely dry conditions the fire quickly spread. A local PD was first on scene and advised that an individual that was attempting to extinguish the flames was missing. The officer was able to locate the individual and escorted him back to safety. In all three local fire departments including the DNR fire division were called in to battle the fire. No open burn permits were being issued and law enforcement action was taken.

- **COs Rob Freeborn and Calvin Smith** conducted a charter boat inspection.
- **COs Mark Zitnik and Calvin Smith** while on routine patrol came across a fisherman that had left his truck and trailer parked in the boat launch at a small lake, frustrating others that were attempting to launch their boats. After waiting for nearly two hours the fisherman finally returned and said he was surprised to see COs because the weather was poor and didn't think anyone else would be fishing either. Law enforcement action was taken.
- **COs Mark Zitnik and Calvin Smith** worked the walleye opener making marine and fishing regulation checks. Multiple contacts were made and enforcement action was taken on violations consisting of no PFD'S and expired watercraft registrations.
- **Sgt. Jerrold Fitzgibbon along with COs Mark Zitnik and Calvin Smith** responded to a complaint of illegal gill nets set in Munising bay. Several legally set nets were observed with locations recorded. The information gathered by the COs was relayed to the GLEU.
- **CO Calvin Smith** arrived at a local lake and observed a fisherman preparing his kayak for the lake. When asked if he had a PFD and the fisherman replied, "no, do I need one?" CO Smith advised the fisherman that he indeed needed one. The CO gave the fisherman a marine pamphlet and directions to the closest store that sold PFD'S.
- **Sgt. Jerrold Fitzgibbon and CO Calvin Smith** conducted a group patrol with GLIFWC and Bay Mills Indian Tribe on Munising bay and surrounding waters. The patrol focused on both commercial and tribal netting activity. Several net locations were documented and one tribal commercial fishing vessel was inspected while tending their nets.
- **Lt. Skip Hagy and CO Calvin Smith** patrolled several of Alger counties inland lake looking to address marine and fishing violations. Several contacts were made and no violations were observed, however they discovered the blackfly hatch was in full swing.
- **COs John Wenzel and Bobby Watson** were checking fisherman on the opening day of walleye season when they encountered two fishermen coming off a local lake. A check of the days catch revealed a short walleye. Enforcement action was taken.
- **CO John Wenzel** was patrolling a remote branch of the Tahquamenon River when he encountered several fishermen. They stated they haven't seen a CO in this area since 1999 when they first purchased a cabin on the river. 3 of the four did not have their fishing licenses with them but had in fact purchased them. They were all very happy to see a CO in the area and advised they would be sure to have their licenses' with them in the future.
- **COs Brett Gustafson and Jeff Panich** were prepping a vessel for the marine season when Central Dispatch advised that a body had been located in Lake George on the east side of Sugar Island. The COs assembled the Safe Boat as well as a 14' utility boat and enlisted the assistance of **FRD Forester Josh Brinks**. The three met with a marine officer from the Sheriff's Office and patrolled to the location. High winds and seas hampered towing the 14' boat behind the Safe Boat, CO Panich dressed in his "Mustang Suit", drove the 14 footer alongside the safe boat in 2-3' seas and heavy rain and fog. CO Gustafson piloted the Safe Boat in the channel and CO Panich took the Marine Officer and Forester to the island where the body was discovered. CO Panich and Forester Brinks waded in the water and recovered the body, which was then transported to the Safe Boat and taken back to the launch where the Medical examiner took possession of the body.
- **CO Bobby Watson** spent the second half of the walleye and pike opener patrolling with a college student interested in becoming a Michigan Conservation Officer. Many positive contacts were made throughout the day. The wind and precipitation was keeping a lot of fisherman from fishing throughout the entire day and catch rates were down. CO Watson was checking a local river when contact was made with a boat full of fisherman. They informed CO Watson they had one pike in the boat. After a measurement was taken, CO Watson discovered the pike was undersized. CO Watson also discovered after inspecting the fisherman's boat further, that the individual had never transferred the vessel registration after he purchased the boat from a friend. The man also had failed to apply the appropriate "MC" registration numbers and was instead displaying a very old registration out of Indiana. Enforcement action was taken.
- **COs Bobby Watson and Jon Busken** were conducting a plain clothes patrol in response to complaints of short pike being kept near Drummond Island. COs Watson and Busken observed the nearby fisherman react oddly when **CO Jeff Panich** approached the bay in a marked patrol vessel. CO Watson and Busken were able to watch a single boat sneak out of the group of fisherman and head back to the launch before CO Panich was able to make contact with them. CO Watson and CO Busken approached the boat which was already in the process of loading up onto a trailer. When CO Watson inquired with the young fisherman if he had done any good, the fisherman responded that he was not fishing but his grandpa caught two. CO Watson identified himself as a Michigan Conservation Officer and informed the angler that he had watched him fish for quite some time and there was no point in lying. He replied, "I know, that was stupid". Enforcement action was taken.
- **CO Brett Gustafson** attended a monthly meeting of the Straits Area Sportsman's club. Youth fishing day and Hunter Safety field day were major topics of discussion.
- **CO Brett Gustafson** attended the Sportsman's Coalition Meeting held in St Ignace at the Hiawatha National Forest Office. Topics covered were: recent CAC meeting, ORV plan for the National Forrest, Grouse and Woodcock management and planting of Oak trees to possibly replace the mast production lost from Beech disease.
- **CO Jon Busken** received a complaint of a dead bald eagle. The caller was able to give a rough location for the animal. After walking approximately 2 miles the eagle was located. No foul play is suspected, the bird has been submitted to the lab for necropsy.

- **CO Jon Busken** was contacted by a resident of West Mackinac County who found what he thought was a “large coyote” on the side of US-2. The officer responded and found the animal to be a wolf that had been killed when it was hit by a car. The animal was recovered.
- **CO Jon Busken** patrolled Cedarville on the walleye and pike opener. Contact was made with a vessel and subjects fishing the operator stated that he had forgotten all of his life jackets at the truck. Enforcement action was taken.
- **CO Jon Busken** patrolled Hessel on the walleye and pike opener. A vessel with an expired registration passed the officer’s patrol boat in the channel. Contact was made with the operator who was found to have not transferred his title and was operating with an expired registration. Enforcement action was taken.
- **CO Jon Busken** contacted two anglers on Brevort Lake, one of the anglers immediately provided his fishing license while the other took quite some time to look for his license in his wallet. After several minutes the officer asked if he had a fishing license. The individual said he did not but provided the last license he had purchased. The officer told the man that the 2008 license was no longer valid. Enforcement action was taken.
- **COs Jon Busken and John Wenzel** were on routine patrol on South Manistique Lake when they observed a boat being operated without MC numbers. Contact was made with the operator who was also found to not have enough lifejackets for all the occupants aboard. Enforcement action was taken.
- **COs Jon Busken and John Wenzel** were on routine patrol in Curtis when they spotted an ORV being operated with a passenger when not designed. Contact with the operator revealed that he was not wearing an approved crash helmet. A LEIN check showed that the operator’s driver’s license was suspended. Enforcement action was taken.
- **CO Jon Busken** was patrolling Milakokia Lake and began approaching a boat in the shallows. Upon seeing the officer the operator started the boat and began to motor away. The officer noted that the boat had an expired registration. Contact was made with the occupants who were found to have been drinking. All were under 21. Enforcement action was taken.
- **CO Jon Busken** made contact with four occupants in a boat on Millecoquins Lake. Two of the occupants immediately provided their fishing licenses. The other occupants looked through their wallets for a few moments and then confessed that they did not have fishing licenses. Enforcement action was taken.
- **CO Jon Busken** was on ORV overtime patrol when he observed a side by side swerving when heading towards him. The operator then threw a beer can from the vehicle in front of the officer. Contact was made with the driver who admitted to having 6-7 beers that day and that he was too drunk to be driving. Sobrieties and a PBT were administered. The PBT registered .132. The operator was arrested and transported to the Mackinac County Jail.
- **COs Jon Busken and Robert Watson** were on ORV patrol near the mouth of the Two Hearted River in Northern Luce County when they observed ORV tracks riding past a no trespassing sign and onto a state beach. When the officers were leaving the area they were passed by 8 ORVs heading towards the beach. Contact was made with the operators as they returned from trespassing on the private property and riding in a closed area of state land. There were a total 7 citations were issued.
- **COs Jon Busken and Robert Watson** were on ORV patrol in Northern Luce County when they observed a side by side being driven by an operator without a seatbelt. Contact was made with the operator and a LEIN check revealed did not have a valid driver’s license. An open container of alcohol was also found in the side by side. Enforcement action was taken.
- **CO Bobby Watson** was patrolling with **Sgt. Michael Hammill** on the St. Mary’s River system. Many contacts were being made. As Sgt. Hammill approached one particular fisherman, CO Watson observed the fisherman reeling in one of his fishing poles. CO Watson counted the fisherman’s lines that were in the water and noted that the fisherman was using too many lines. Enforcement action was taken.
- **CO Watson and Sgt. Hammill** were patrolling a local river when they passed a small boat with two fishermen in it. The boat had no visible registration numbers. CO Watson and Sgt. Hammill turned around and caught up with the boat which quickly noticed the patrol boat approaching and came to a stop. Contact was made. The operator of the boat claimed that the boat belonged to his friend and he knew it wasn’t registered, and that he was gambling by taking it out on the river. Enforcement action was taken.
- **CO Watson and Sgt. Hammill** responded to a complaint of a stranded pontoon boat in a very mucky and shallow portion of a local lake, far from shore. The pontoon’s outboard motor had stopped working and the young family had drifted into an area of the lake where they then became stuck. Sgt. Hammill and CO Watson responded with a shallow water boat and a Mud Buddy surface drive motor and safely towed the stranded boaters back to the shoreline.
- **CO Watson** responded to the Tahquamenon Falls State Park regarding a complaint of an ORV stuck in a closed section of snowmobile trail. CO Watson made contact with the two ORV riders. The male driver did not possess a driver’s license and claimed the female driver was operating the ORV. CO Watson issued the female a citation for operating an ORV in a closed area, and destroying a wetland. The following day, CO Watson observed the two subjects parked at an ice cream parlor. CO Watson watched as the two subjects began driving away, with the male driving the truck and trailer. CO Watson conducted a traffic stop and addressed the male subject behind the wheel. The subject was lodged in the County Jail on his fourth count of driving with a suspended/revoked license. The case is ongoing.
- **COs Brett Gustafson and Jon Busken** assisted Secretary of State, Ruth Johnson, in the Straits of Mackinac. Secretary Johnson and a staff member utilized Secretary Johnson’s sea kayak to traverse the Straits and arrived safely on Mackinac Island. Officers were there for support, in the sometimes turbulent Straits.

- **CO Brett Gustafson** participated in a Hunter Safety Field Day event in Moran. The event was the culmination of the Straits Area Sportsman's club spring class with 26 students being certified.
- **CO John Wenzel and Sgt Mike Hammill** were on patrol when they checked a group of fisherman who said they had a basket with pan fish in it. After checking the fish basket, the officers noticed a short bass among the fish. Enforcement action was taken.
- **CO John Wenzel** was on marine patrol when he came across a vessel that had run out of gas on a local river. CO Wenzel went to the boat launch and retrieved the extra gas can from the operator's truck and delivered it to the stranded vessel.
- **CO John Wenzel** assisted with patrols on Belle Isle during the Grand Prix races. Many comments were received from the spectators of the event about what a good job the officers are doing on the island.
- **CO John Wenzel** received a report of an unmanned fire during an extreme fire danger day. CO Wenzel located the fire and found several people attending to the fire. They were asked to make sure they kept an eye on the fire due to the fire danger.
- **Sgt. Jerrold Fitzgibbon and CO Chris Lynch** patrolled Little Bay De Noc on Memorial Day. The Walleye bite and weather was good that day and several anglers and boaters were out. Three tickets were issued for possessing fish no license, undersize Walleye, and expired boat registration. Several warnings were given for improper PFD's, no throwable PFD's, and fail to exhibit fishing licenses.
- While on routine patrol, **CO Robert Freeborn** noticed an ORV traveling down a state highway in the distance. As CO Freeborn drove closer to the ORV, he noticed that there was a passenger riding on the back. After contact with the ORV, it was determined that they had a mini bike hidden in the woods along the highway that was out of gas. Upon inspection of the mini bike, it was determined that it did not have the proper registration. A citation was issued for operating an ORV on a highway.
- While on marine patrol **COs Robert Freeborn and Michael Evink** made contact with a boat with an expired registration. The operator immediately stated that he was told an electric motor did not qualify in needing a registration. The COs advised the operator of the regulations and also determined that the boat did not have any PFD's on board. A citation was issued for the expired boat registration.
- While working marine patrol, **COs Calvin Smith and Robert Freeborn** contacted an individual fishing in a secluded bay. The fisherman had not purchased a license and had insufficient lifejackets on board. Enforcement action was taken.
- **COs Mark Zitnik and Christopher Lynch** patrolled Munising Bay during a Fishing tournament. Several contacts were made and the anglers were happy to see COs on the bay. In all the anglers were compliant and the fishing tournament went well.
- While checking several trophy trout lakes **COs Zitnik and Christopher Lynch** came across two individuals walking down a remote road swatting the heavily populated mosquitos. About a mile up the road CO Zitnik observed fresh tire tracks going down a two track across from a trophy trout lake. They followed the tracks to two kayaks with brook trout in them and a parked vehicle. The COs ran the plate of the 1994 Suzuki Sidekick that came back on a 1995 Chevy pickup. The COs made contact with the two individuals on the road who stated it was their belongings and they were walking because their battery died. In all the COs wrote the two individuals for illegal use of a registration plate, possession of marijuana and using non artificial lure on prohibited waters (trout waters).
- While on patrol **CO Mark Zitnik** responded to a fire at a local fire station. The fire was contained but all was lost. The CO helped firefighters with traffic control while they battled the blaze.
- **CO Mark Zitnik** was heading to a meeting in Grand Marais when he stopped to check a lake on the way. He checked several anglers on the lake. One boat failed to have enough PFD's. Enforcement action was taken.
- **CO Calvin Smith** collected two deceased bald eagles in separate locations in Alger County. Both eagles were deceased for a while. The CO used a metal detector to attempt to locate any birdshot, none was found. The birds were collected to be turned over to the eagle repository for use in Native American ceremonies.
- **CO Calvin Smith** patrolled many lakes in Alger County, on one lake the CO made contact with three individuals fishing. One of the individuals advised that he had failed to purchase a fishing license. The same individual had received a citation for the same offense only a year and half ago. Law enforcement action was taken.
- While on routine patrol, **CO Calvin Smith** had to take evasive action with his patrol truck when an ORV came around a blind corner nearly sideways and stopped just short of a collision. When asked if he thought he was operating his ORV too fast on a narrow road with blind corners, the driver stated honestly I just got on the gas right here. Law enforcement action was taken.
- **COs Rob Freeborn and Calvin Smith** patrolled Big Bay de Noc on the Memorial Day Holiday for marine and fishing activity. The COs made contact with over 50 boats and compliance was high with enforcement action taken for no PFD'S and warnings given for other minor violations.
- **COs Mark Zitnik and Calvin Smith** conducted a foot patrol into several inland lakes that are not accessible by motor traffic. The COs made contact with several fisherman and hikers who thanked them for being present in the remote area.
- **CO Chris Lynch** was on patrol when he observed an angler at access site fishing. CO Lynch made contact with the angler and asked how the fishing was. The angler stated it was slow today and that he didn't plan on keeping any fish anyways. CO Lynch asked to see angler's license and the angler stated he never purchased one. CO Lynch confirmed this and enforcement action was taken.
- **CO Chris Lynch** was checking boaters coming into the launch at an access site. CO Lynch noticed one boat had no MC numbers or registration decals on it. CO Lynch made contact with the boater and discovered the boater did not have a PFD for himself

either. The boater stated he never got around to registering his boat yet. CO Lynch ran the suspect for warrants and discovered there was a warrant out for his arrest. Enforcement action was taken.

- **CO Chris Lynch** was on patrol and was checking anglers at an access site. One couple CO Lynch was watching fished for a while. Upon making contact with the couple CO Lynch asked for the couples fishing licenses. The husband produced a tribal member card and the wife stated she was a tribal member as well but forgot her card. The wife was acting very nervous and CO Lynch interviewed the wife further and the wife stated she was not a tribal member. CO Lynch confirmed she didn't buy a fishing license either. Further investigation revealed both husband and wife had revoked driver's licenses and the husband had driven them to the access site to go fishing. Enforcement action was taken.
 - **CO Pat Hartsig** encountered many ORV's enjoying the trails on the holiday. Enforcement action was taken and warnings were given for violations such as not wearing helmets, riding double, and not having ORV's properly licensed.
-