

MINNESOTA DNR FIRE ASSETS



Personnel

Dispatch Overhead:

EDSD	Expanded Support Dispatcher	21
EDRC	Expanded Dispatch Recorder	37
ACDP	Aircraft Dispatcher	2

Air Operations Overhead:

AOBD	Air Ops Branch Director	3
ASGS	Air Support Group Supervisor	5
HEB1	Helibase Manager Type 1	6
HEB2	Helibase Manager Type 2	18
TOLC	Take Off/Landing Coordinator	6
DECK	Deck Coordinator	3
ABRO	Aircraft Base Radio Operator	13
HMGB	Helicopter Manager	41
HECM	Helicopter Crew Member	75
HTMG	Helitorch Manager	4
PLDO	Plastic Sphere Dispenser Oper	15
ATGS	Air Tactical Group Supervisor	6
HLCO	Helicopter Coordinator	2
SEMG	SEAT Manger	13
FWWS	Fixed Wing Water Scooper Mgr	8
ATBM	Air Tanker Base Manager	5
RAMP	Aircraft Ramp Manger	10
MXMS	Mixmaster	7
ATLD	Aircraft/Retardant Loader	10

Operations Overhead:

DIVS	Division Supervisor	25
TFLD	Task Force Leader	37
DOZB	Dozer Boss	18
ENGB	Engine Boss	188
FALB	Faller B	70

Overhead Team Misc:

FACL	Facility Unit Leader	8
BCMG	Base Camp Manager	12
STAM	Staging Area Manager	3
MEDL	Medical Unit Leader	2
EMTB	Emergency Medical Tech	45
COML	Commo Unit Leader	3
SPUL	Supply Unit Leader	8
RCDM	Receiving Distribution Mgr	12
EQPM	Equipment Manager	14
ORDM	Ordering Manager	12
RESL	Resource Unit Leader	12
SITL	Situation Unit Leader	9
FOBS	Field Observer	17
RADO	Radio Operator	31
SOF2	Safety Officer	4

Type 2A Hand Crew 4

Equipment

Aircraft:



Aerial Supervision Platform/ Birddog
(owned)



Aerial Supervision Platform/ Birddog
(contract)



CL-215 (owned)



CL-215 (contract)



SEAT (contract)



Fire Boss (contract)



Type 3 Helicopters
(contract)



Type 2 Helicopters
(contract)



Type 1 Helicopters
(contract)

Air Support Trailers:

(1) Open Portable Retardant Trailer



Function: Mobile Retardant Base
Hitch Type: 5th Wheel
Truck needed for transport: Semi
Winter Storage Location: Hibbing Tanker Base
Manufacture Date: 2009
Asset #: 1478382
License #: EY3884
Length: 53 ft.
GVWR: 82120 lbs.
Empty Weight: 20440
Full Traveling Weight (1500Gal.):

Other: Front and rear poly tanks must be empty while traveling, Ensure annual inspection.

Capabilities include hauling (traveling) 1500 gals. of retardant, while stationary holding 3500 gals. of retardant plus a 1000 gal. mixed load. Has back up pump, 2- 5000 gal. orange pumpkins, includes refractometer, Canadian blender, hoses and fittings. Can fill SEATs and Type 1 and 2 large air tankers. Set up time approximately 3 hours.

(1) Enclosed Portable Retardant Trailer



Function: Mobile Retardant Base
Hitch Type: 5th Wheel
Truck needed for transport: Semi
Winter Storage Location: Brainerd Tanker Base
Manufacture Date: 1972
Asset #: 763317
License #: EY0561
Length: 35 ft.
GVWR: 46950 lbs.
Empty Weight: 13400 lbs.
Full Traveling Weight (2700 Gal.): 46556 lbs.

Other: Ensure annual inspection.

Capabilities include hauling (traveling with) 2700 gals. of retardant, while stationary holding 5000 gals. of retardant. Has back up pump, 2- 5000 gal. orange pumpkins, includes refractometer, Canadian blender, hoses and fittings. Can fill SEATs and Type 1 and 2 air tankers. Set up time approximately 3 hours.

(1) Retardant Hauler Trailer



Function: Liquid Retardant Transport
Hitch Type: 5th Wheel
Truck needed for transport: Semi
Winter Storage Location: Brainerd Tanker Base
Manufacture Date: 1990
Asset #: 1422847
License #: EY3732
Length: 30 ft.
GVWR: 46950 lbs.
Empty Weight: 9360 lbs.
Full Traveling Weight (3000 Gal.): 46200 lbs.

Other: Allowable travel load 3000 Gals., Stationary capacity 5000 Gals, , Ensure annual inspection.

Capabilities include hauling and downloading retardant, has pump, hoses and fittings.

(1) Foam Loading/Transporting/Pumping and Invasive Species Washdown Trailer



Function: Washdown & Foam Pumping for CL215
Hitch Type: Pintle Hitch
Truck needed for transport: 1 Ton Truck
Winter Storage Location: Hibbing Tanker Base
Manufacture Date: 2005
Asset #: 1361196
License #: EY3258
Length: 12 ft.
GVWR: 7000 lbs.

Other: Wash down poly sprayer tank capacity 200 Gals, Poly spray tank needs to be empty when traveling, Carries 3 -55 gal. Barrels of foam, foam pump and barrel dolly, Trailer includes 500 gal. Collapsible tank.

Capabilities include general washdown, CL 215 internal tank cleaning and heated pressure spraying for decontamination of invasive species, pumping concentrated foam into CL 215s.

(11) HELICOPTER BASE/ CREW TRAILERS



Fully equipped with supplies for Helibase support operations. Trailer contains AM, FM and 800 MHz mobile radios, cell phone with power supply, printer/copy/fax machine, phone and answer machine, heat and air conditioner, dispatch office, small kitchen, crew rest area. Set up time approximately 2 hours.

3-6 kw gasoline generator for remote operations, am base radio ordered separately.

Hitch Type: 2 5/16" Ball
Truck needed for transport: 1 Ton Truck
Storage Location: MIFC
Manufacture Date: Varies

(3) Aircraft Dispatch Trailers



Function: Dispatch and Crew Rest Trailer
Hitch Type: 2 5/16" Ball
Truck needed for transport: 1 Ton Truck
Winter Storage Location: MIFC
Manufacture Date: Varies

Length: 30 ft.
GVWR: 4355 lbs.

Other: Additional pallet, supply and equipment resource order needed.

Trailer contains AM, FM 800 MHz mobile radios, AM and FM handheld radios, cell phone with power supply, printer/copy/fax machine, phone and answer machine, heat and air conditioner, dispatch office, small kitchen, crew rest area. Set up time approximately 2 hours.

(2)Semi Tractor



Two 1992 GMC Semi Tractors

Must order driver from MIFC Cache.

Storage Location: MIFC

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HELICOPTER SUPPORT EQUIPMENT

(1) HELICOPTER SUPPORT TRUCK



One and a half ton, 2009, 4X4 crew cab helicopter support truck. FM & AM programmable mobile radios, cell phone w/ external antenna, 100 KW generator, truck comes with equipment for with standard or specializes inventory for helibase support and helicopter operations.

For detailed list of supplies and equipment carried on truck, refer to Appendix A.

Storage Location: MIFC

(1) 5,000 GALLON DIP TANK



Dip tank for helicopter of fixed wing retardant of water hauling operations. Includes four, 50 ft. 4 inch discharge hoses fitted and cam lock fittings/ valves for bottom fill.

Should be used in conjunction with portable retardant base/trailer.

Transported with truck and trailer. Empty tank weight is 5,000 pounds.

Tank comes with necessary support equipment including spill containment.

Storage Location: Hibbing Tanker Base

(2) PALM IR Units



These units are available with trained operators for ground or use as an “doors-off” helicopter operation. Safety harness, extra parts and cleaning items are included.

Hot spots are marked with a GPS and a streamer and data is transferred by the GIS staff to maps or directly into hand-held GPS units for the ground crews.

Trained operator must be requested.

Storage Location: MIFC

External Load Rigging



There is a wide variety of nets, long lines, remote hooks, bulk sacks, chokers, etc. available through the MN DNR Helicopter Operations Specialist at MIFC.

Air Base Radio Kits



Two “orange boxes” are equipped with AM and FM (P25 compatible) radios available for use as an air base station at remote locations. There are also “stand alone” 7 watt AM base stations and FM mobile radios. Power supplies need to be ordered separately for the FM mobiles. These can be ordered through the MN DNR Helicopter Operations Specialist at MIFC.

AERIAL IGNITION EQUIPMENT

(2)SIMPLEX HELITORCHES WITH SUPPORT TRAILER



Two 24 volt simplex torches with four 55 gallon barrel storage drums. Mixing barrels, transfer pump, vapor recover hoses, grounding rods and support equipment with spare helitorch parts are included. Gelling agent for 1,00 gallons of alumagel. Trailer has four 74 gallon fuel tanks for mixing operations.

Comes with all support equipment. Trained personnel must be requested for Helitorch operations

Hitch Type: 2 5/16" Ball

Truck needed for transport: Helicopter Support Truck Or 1 Ton Truck

Storage Location: MIFC

(2) PLASTIC SPHERE DISPENSERS (PSD)



Premo Mark III aerial ignition devices

Each PSD comes with associated support equipment. Trained personnel for operations and preparing burn plans must be requested .

A standard supply of 15,000 spheres accompanies the initial mobilization. Additional spheres can be ordered separately.

PSD's can be transported by truck or small airplane.

Storage Location: MIFC

Fire Support Trailers:

(8) Incident Management Team Office Trailers



IMT support trailers. 8' x 30' office units. They can be equipped with AM and FM radios, generator, printer/copy/fax machine with printers, a cell phone with power supply, heat and air conditioner, dispatch office, small kitchen, and a crew rest area. Additional supplies and equipment can be resource ordered as needed. They can be pulled with a 1-ton pickup with a set-up time of approximately 2 hours.

Hitch Type: 2 5/16" Ball

Truck needed for transport: 1 Ton Truck

Storage Location: MIFC

(2) COMMUNICATIONS BASE TRAILERS



Com trailers have a small radio kit in each – containing 5 VHF B/K GPH portable radios, one ICOM or B/K AM portable, and two GMH mobile radios. Radio antenna masts are also stored in the trailers for the base stations being used. The “Hotsticks” are also in each trailer – these extend up to 35 feet for portable deployment when needed.

Extra supply of AA batteries & command repeater batteries. There is one 5kw generator supplied with Com Trailer #1, if needed, another for Com Trailer #2 can be ordered from the cache.

Hitch Type: 2 5/16" Ball

Truck needed for transport: 1 Ton Truck

Storage Location: MIFC

(2) PORTABLE COMMUNICATIONS TOWERS/REPEATERS



One 50-ft tower trailer, One 100-ft tower trailer.
Antennas ,coaxial cables, etc. included.

Repeater ordered separately, if needed.

Hitch Type: 2" Ball

Truck needed for transport: 1/2 Ton Truck

Storage Location: MIFC

(1) GIS Specialists Support Trailer



ITEMS INCLUDED IN THE MAPMOBILE

4-Port router

Large format plotter- HP Design 500PS (42 inch paper and ink included)

Desk Jet 11x17 printer

Map table

Office space for two GIS Specialists

Air conditioned

5,000 Watt Honda generator

Hand tools for operating trailer and equipment

Fire extinguisher

GIS Specialists need to bring their own equipment (computers and software)

Hitch Type: 2 5/16" Ball

Truck needed for transport: 1 Ton Truck

Storage Location: MIFC

Fire Engines:

(83) Type 6/7 Engines



Comes with crew of 2 to 4 personnel. Tank size 200-300 U.S. Gallons/ tools / saws / pumps / hose etc. 4X4 trucks.

Meets NWCG National Standards (appendix B). Supplemental Equipment may need to be specified.

Storage Location: Varies Statewide
Manufacture Date: 2002-2008

(10) Type 4 Engines



Comes with crew of 2 to 4 personnel. Tank size 850 U.S. Gallons with tools: saws, pump, hose, etc. 4X2 trucks.

Meets NWCG National Standards (appendix B). Supplemental Equipment may need to be specified.

Storage Location: Varies Statewide
Manufacture Date: 1994-2008

Tracked Vehicles:

(22) J-5 Bombardiers



Transported with prime mover, trailer and crew of 2.
Tank size is 100 U.S. Gallons. Draft capable.

When loaded with water total weight is 7,190 pounds and ground pressure exerted is 2.56 pounds per square inch.

Storage Location: Varies Statewide
Manufacture Date: 2002-2008

(8) J-7/8 Muskeg Bombardier



Transported with prime mover, trailer and crew of 2.
Tank size is 300 U.S. Gallons. Draft capable.

When loaded with water total weight is 18,410 pounds and ground pressure exerted is 2.49 pounds per square inch.

Storage Location: Varies Statewide
Manufacture Date: 1994-2006

(8) John Deere 450 Dozers



Transported with prime mover, trailer and operator.
Plows available.

Storage Location: Varies Statewide
Manufacture Date: 1980-1995

Wide variety of fire support equipment and supplies

Fire Cache Supply Catalog :

<http://www.nwcg.gov/pms/pubs/catalog/description.pdf>

APPENDIX A

HELICOPTER SUPPORT TRUCK INVENTORY

HELIBASE OPERATIONS

1 EA ATLAS ROAD CONTINENTAL US
1 BX BAG, GARBAGE CAN LINER
2 EA BEACON STROBE W/BATTERY, FLASHING
1 EA HELIBASE ORGANIZATION BULLETIN BOARD
4 EA BUNGE CORDS
2 EA CAN GAS 1 GALLON A/C APPROVED
1 EA CAN GAS 5 GALLON
4 EA CAN DOLMAR STC
1 EA CHAIN TOW 20'
1 EA ALARM CLOCK
300 FT CORD PARACHUTE
2 EA SIGNS DIRECTIVE (NO SMOKING, HELIBASE, ETC.)
1 EA EXTINGUISHER 20 LB DRY CHEMICAL 40 BC
1 EA EXTINGUISHER 10 LB DRY CHEMICAL
1 EA EXTINGUISHER 5 LB DRY CHEMICAL
2 PR GLOVE FLOURESCENT
1 SE HELIPAD MARKERS, PANNELS W/ STAKES
1 EA JACK, HANDYMAN AND HYDRAULIC
1 SE JUMPER CABLES
1 EA ICE CHEST
1 EA KIT, FIRST AIDE, 10 -PERSON BELT TYPE
1 EA KIT CRASH RESCUE
1 EA PORTA TANK COLLAPSIBLE 1000 GAL
2 EA SCALE SPRING 200 #
2 EA SIGNAL WAND
1 EA STRETCHER SKED
2 RO DUCT TAPE
2 RO TAPE, ELECTRICAL PLASTIC
3 RO TOILET PAPER
1 EA TENT FLY
1 CN WD40
1 SL WIRE, SAFTEY
1 EA TOOL BOX (PLIERS, WRENCHES,ETC)
3 EA VEST, VISABILITY (ORANGE)
1 EA WATER DRINKING JUG 5 GALLON
2 EA WIND SOCK, SMALL 9"X30"
2 EA FUNNELS
1 EA BINOCULARS
1 EA SPOTLIGHT

HELITACK/FIREFIGHTING EQUIPMENT

1 EA BAG SLINGABLE WATER 72-GAL, NON-POTABLE
300 FT FLAGGING PERIMETER
10 RO FLAGGING RIBBON
1 PL FOAM FIRE 5-GAL
1 CS FOOD RATION-TYPE, MRE'S
1 EA HELICOPTER MGR KIT
1 BX FUSEES
1 KT KIT, BELT WEATHER
1 EA KIT CHAINSAW
10 PD LOAD CALCULATION HELICOPTER
6 PD MANIFEST BOOKS
30 EA MASK, AIR FILTERING
10 EA MESSAGE DROPPERS
4 EA PUMP BACKPACK
3 EA SHOVEL
10 RO TAPE FILAMENT
2 EA TOOL, McCLOUD
3 EA TOOL, PULASKIS
1 EA COMBI TOOL
1 EA HONDA GENERATOR
1 EA DRIP TORCH

PERSONAL PROTECTIVE EQUIPMENT

30 EA CHIN STRAPS
100 PR EARPLUGS, FOAM
2 EA FIRE SHELTERS
4 EA FLIGHT SUITS NOMEX (SPARES)
6 PR GLOVE, FOREST WORKER LEATHER
6 PR GOGGLES, SAND/WIND/DUST
3 EA HEADLAMP W/BATTERIES
2 EA HELMET, FLIGHT SPH-4 RETROFIT XL

COMMUNICATION EQUIPMENT

1 CS "AA" BATTERIES
1 EA PROGRAMMING PLUG (KING RADIOS)
1 EA RADIO, VHF-AM PORTABLE HANDHELD
4 EA RADIO, VHF- FM PORTABLE HANDHELD

EXTERNAL LOAD EQUIPMENT

4 EA LEADLINE 12' 3000 # TEST
3 EA NET CARGO LIGHT WEIGHT
4 EA NET CARGO 12'X12' / 3000# TEST
6 EA SWIVELS, 3000#
20 EA TAGS, WIRE
10 EA TAGS RED WIRE

ADDITIONAL INVENTORY ITEMS NEEDED FOR INTERAGENCY ASSIGNMENTS

2 EA ADAPTER FLIGHT HELMET TO VHF HANDHELD
6 EA CANTEEN, 4QT PLASTIC
2 EA CLOCK, TIMER (FLIGHT FOLLOWING)
1 BX GLOVES, NOMEX SIZES 9-11
2 EA HARD HAT (SPARE)
2 EA PACK FSS (RED PACK)
1 KT PUMP, PORTABLE
1 KT RADIOS, AIRCRAFT BASE STATION, VHF-AM
1 EA SCALE, PLATFORM/BATHROOM
1 KT TOOL ROLL, PORTABLE FIRE PUMP

Appendix B

Engines

The table below lists the NWCG type minimum requirements for engines

Engine Types

Requirements	Engine Type						
	Structure		Wildland				
	1	2	3	4	5	6	7
Tank minimum capacity (gal)	300	300	500	750	400	150	50
Pump minimum flow (gpm)	1000	500	150	50	50	50	10
@ rated pressure (psi)	150	150	250	100	100	100	100
Hose 2½"	1200	1000	-	-	-	-	-
1½"	500	500	1000	300	300	300	-
1"	-	-	500	300	300	300	200
Ladders per NFPA 1901	Yes	Yes	-	-	-	-	-
Master stream 500 gpm min.	Yes	-	-	-	-	-	-
Pump and roll	-	-	Yes	Yes	Yes	Yes	Yes
Maximum GVWR (lbs)	-	-	-	-	26,000	19,500	14,000
Personnel (min)	4	3	3	2	2	2	2

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