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Chapter 70 Equipment and Supplies

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Equipment and Supplies - General

6 Each unit should maintain tools and supplies at a level to handle normal operations for
7 initial attack and minor support, such as outfitting available forces on the unit, regular
8 fire replacement, and normal fire activity. Local cache inventory lists are due to RMK
9 by April 1, annually.

10

National Interagency Radio Support Cache (NIRSC)

11 (Refer to NMG 70)

12

National ICS Starter Radio Systems

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14 Rocky Mountain Area Coordination Center will preposition 2 National ICS Starter
15 Radio Systems (NFES #4390), with the ability to preposition up to 4 as the need arises,
16 at RMK from May 15 - October 15 annually.

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18
19 For information on Starter Systems, refer to the National Incident Radio Support Cache
20 User's Guide, NFES #0968, or the NWCG Fire Supplies and Equipment Catalog Part 1,
21 NFES #0362.

22
23 A Communications Unit Leader will be required for all dispatches of this system.

24
25 All NFES 4000 Series Radio Kits are ordered as **Supply**.

26
27 All radio supply orders are sent direct to RMC.

28

National Contract Mobile Food Services and National Contract Mobile Shower Facilities

29 For a complete listing of the Schedule of Items and contract specifications for the
30 National Mobile Food Service Contract and National Mobile Shower Facilities
31 Contract, refer to the publications NFES #1276 and NFES #2729. This information can
32 also be found at: <http://www.fs.fed.us/fire/contracting/index.htm>. (Refer to NMG 70)

33
34

Incident/Project Remote Automatic Weather Stations

35 (IRAWS -NFES #5869 / PRAWS – NFES #5870)

36 (Refer to NMG 70)

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Engines and Water Tenders

Although the national standard staffing for most engines is two personnel, all engines and tender orders shall specify the staffing deemed appropriate to ensure firefighter safety. In most instances, it will be necessary to specify 3 personnel on Type 4-7 engines to ensure that the principles of LCES (Lookouts, Communication, Escape Routes and Safety Zones) are adequately met.

When ordering engines, RMA centers must specify on the Resource Order the staffing requested. Engine orders without staffing specification will have the staffing requirement clarified with the ordering entity prior to processing the resource order.

Engine Staffing

Rocky Mountain Area Engines ordered for incidents within the RMA will be staffed with a minimum of three personnel. Engines responding to their respective jurisdictions within the RMA may be staffed to their agency/local minimum standards. Any national orders will meet national standards.

Water tenders shall be ordered with staffing appropriate to task assigned. Staffing for support purposes such as engine refill or dust abatement should be single operator. Water tenders used for tactical purposes where water delivery will be directly to suppression such as hose lays, live reels, or spray bars should be staffed with two personnel. Staffing needs shall be stated on the Resource Order at the time of order.

Engine Types Matrix

Engine Type							
	Structure Engines		Wildland Engines				
Requirements	1	2	3	4	5	6	7
Tank Minimum Capacity (gallons)	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
<u>Hose (feet)</u>							
2 ½ inch	1200	1000	-	-	-	-	-
1 ½ inch	500	500	1000	300	300	300	-
1 inch	-	-	500	300	300	300	200
Ladder 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 (minimum)	4	3	3	2	2	2	2

1 **Water Tender Types Matrix**

Requirements	Water Tender Types				
	Support			Tactical	
	S1	S2	S3	T1	T2
Tank Capacity (gallons)	4000	2500	1000	2000	1000
Pump Minimum Flow (gpm)	300	200	200	250	250
@ rated pressure (psi)	50	50	50	150	150
Max Refill time (minutes)	30	20	15	-	-
Pump and Roll	-	-	-	Yes	Yes
Personnel (minimum)	1	1	1	2	2

2
3 All types shall meet federal, state, and agency requirements for motor vehicle safety
4 standards, including all gross vehicle weight ratings when fully loaded.

5 Type 3 engines and tactical water tenders shall be equipped with a foam proportioner
6 system.

7 All water tenders and engine types 3 through 6 shall be able to prime and pump water
8 from a 10 foot lift.

9 Personnel shall meet the qualification requirements of NWCG Wildland Fire
10 Qualification System Guide May 2009, PMS 310-1.

11
12 **Ordering Considerations - Items to note in Special Needs:**

13 All-Wheel Drive (includes four wheel drive).

14 High Pressure Pump (250 psi at one half flow of Type)

15 Foam Proportioner

16 Compressed Air Foam System (CAFS) with minimum 40 cfm Compressor

17 Additional Personnel

18 Gel-Capable

1 **Area Engine Listing (By Dispatch Center)**

2
3 **-Available for In-Area or National Assignments-**

4
5 **Federal**

Center	Ty 1	Ty 2	Ty 3	Ty 4	Ty 5	Ty 6	Ty 7	Total
CO-CRC	-	-	-	1X	-	9X	-	10
CO-DRC	-	-	-	3X	-	14X	-	17
CO-FTC	-	-	1	-	-	10	1	12
CO-GJC	-	-	-	2X	-	9X	-	11
CO-MTC	-	-	-	2X	-	5X	-	7
CO-PBC	-	-	1	-	-	27X	2	30
SD-GPC	-	-	4	11	-	81	8	104
WY-CDC	-	-	-	4	-	14X	0	18
WY-CPC	-	-	-	*3X	-	10	-	13
WY-RWC	-	-	-	1X	-	6X	0	7

6
7 **Cooperators**

Center	Ty 1	Ty 2	Ty 3	Ty 4	Ty 5	Ty 6	Ty 7	Total
CO-CRC	-	-	-	-	-	2X	-	2
CO-DRC	0	0	2	4	-	30X	0	36
CO-FTC	82	22	13	0	3	88	7	215
CO-GJC	59	4	5	10	5	42	5	130
CO-MTC	2	-	-	-	-	2X	-	4
CO-PBC	10	34	45	29	-	157X	7X	282
SD-GPC	97	30	31	34	12	179	37	420
WY-CDC	3	-	0	6	-	7X	0	16
WY-CPC	9	0	2	19	2	43	-	75
WY-RWC	5	3	5	30*	-	32	-	75

8
9 **Contractors****

Center	Ty 1	Ty 2	Ty 3	Ty 4	Ty 5	Ty 6	Ty 7	Total
CO-CRC	-	-	-	-	-	-	-	0
CO-DRC	-	-	-	2	-	5	-	7
CO-FTC	-	-	1	-	-	4	-	5
CO-GJC	-	-	-	-	-	-	-	0
CO-MTC	-	-	-	-	-	1X	-	1
CO-PBC	-	-	-	-	-	5X	-	5
SD-GPC	-	-	-	3	1	10	-	14
WY-CDC	-	-	-	-	-	1X	-	1
WY-CPC	-	-	-	1	-	3	-	4
WY-RWC	-	-	-	-	-	-	-	0

10 An "X" after the type number denotes 4-wheel drive.

11 *Some CPC & RWC Type 4 Engines are 6 wheel drive, 2 ½ TON, military vehicles.

12 **Contractor Engines will be staffed with 3 personnel or according to contract
13 specifications. (Refer to RMG 20)

Retardant Plants**Portable/Mobile Retardant Bases**

Portable/mobile retardant bases are available through EERAs established in the National Long-Term Fire Retardant Requirement Contract. Units may order these items directly, utilizing the provisions in the contract. The National Long-Term Fire Retardant Requirement Contract can be accessed on the web at:

<http://www.fs.fed.us/fire/contracting/index.htm>.

Specialized Equipment**Helitorches (Aerial Drip Torch)****Agency/Unit****Location**

High Desert District BLM	Rawlins, Wyoming
Shoshone National Forest	Cody, Wyoming
*Montrose Interagency Fire Mgmt. Unit	Montrose, Colorado
Upper Colorado River Management Unit	Rifle, Colorado

Aerial Ignition Devices (Plastic Sphere Dispensers)**Agency/Unit****Location**

*Black Hills National Forest	Custer, South Dakota
*Grand Junction BLM	Rifle, Colorado
Montrose Interagency Fire Mgmt. Unit	Montrose, Colorado
*Mesa Verde National Park	Mesa Verde, Colorado
*Pike National Forest	Monument, Colorado
+High Desert District BLM	Rawlins, Wyoming
*San Juan National Forest	Durango, Colorado
Shoshone National Forest	Cody, Wyoming
*Northwest Colorado Fire Mgmt.	Craig, Colorado
Ute Mountain Ute Agency	Towaoc, Colorado

Terra Torches**Agency/Unit****Location**

Colorado State Forest Service	Ft. Collins, Colorado
*High Desert District BLM	Rawlins, Wyoming
*High Desert District BLM	Rock Springs, Wyoming
*Southern Ute Agency	Ignacio, Colorado
* Northwest Colorado Fire Mgmt.	Craig, Colorado
* Montrose Interagency Fire Mgmt. Unit	Montrose, Colorado

* Must be accompanied by a qualified operator from the home unit.

+Must be accompanied by a qualified Operator and Module from the home unit.

Batch Mixer

A Batch Mixer is a large tank used for mixing large quantities of Helitorch Fuel. Once mixed, the fuel is then put into 55-gallon drums.

Agency/Unit**Location**

*Montrose Interagency Fire Mgmt. Unit	Montrose, Colorado
*High Desert District BLM (2)	Rawlins, Wyoming
Shoshone National Forest	Cody, Wyoming
Rock Springs BLM	Rock Springs, Wyoming

*Must be accompanied by a qualified operator from the home unit.

Probeyes

None are available in the RMA.

Seed Buckets

RMA has one seed bucket available at the Jeffco Tanker Base in Broomfield, Colorado. An operator must accompany the seed bucket to any incident. Call RMC for availability of operator.

The seed bucket characteristics are:

Weight:	225 lbs.
Volume:	37 cubic feet or 280 gallons
Capacity:	900 - 1000 lbs. grass seed and/or fertilizer

Potable Water Tender

Potable water tenders are available from contractors, State Forestry Divisions, National Guard Units, and Military units.

Area 250 Person Cache Vans NFES #2069

(Refer to RMG 20 for ordering procedures)

There are five mobile cache vans available in the Rocky Mountain Area. They are or will be pre-positioned at the following locations:

Dispatch Center/Cache	Location	City/State
GPC	Black Hills National Forest	Custer, SD
CDC	Wind River Agency	Ft. Washakie, WY
RMK	Rocky Mountain Area Cache	Lakewood, CO
GJC	Grand Junction Air Center	Grand Junction, CO
DRC	Trimble Work Center	Durango, CO

Contents of the vans can be found in the National Fire Equipment Catalog under NFES #2069. The RMA cache vans contain the following additional items:

- 1 EA Kit, Chainsaw (#0340)
- 1 EA Kit, Helicopter Support (#0520)
- 5 EA Shirt, Fire, XX-Large (#0570)
- 2 EA Pump Kit, High Pressure w/ Fuel Line (#0870)
- 10 LG Hose, Synthetic 1" (#1238)
- 10 LG Hose, Synthetic, 1 1/2" (#1239)

These items will be automatically included with the order for a van and do not need to be ordered separately. (Local RMK cache item #008602)

Heavy Truck Transportation

The RMC has a general listing of available Government contract lowboys and tractors. However, government owned and local vendors should be utilized whenever they are more cost and time efficient. The following is a partial listing of available agencies to contact to haul cache vans.

Federal	Location
Rock Springs BLM (1)	Rock Springs, WY
Medicine Bow NF (1)	Laramie, WY
San Juan National Forest (2)	Durango, CO
Ft. Washakie BIA	Ft. Washakie, WY

Cooperators	Location
CO State Forest Service (2)	Ft Collins, CO
PBC – Rye FPD (1)	Colorado City, CO

There may be Best Value contractors available. See DPL listings.