

# CHAPTER 60 - OVERHEAD/CREWS

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**62 CREWS (REFER NMG CH.62)****62.1 TYPE 1 CREWS - INTERAGENCY HOTSHOT CREWS - NORTHWEST AREA**

<u>CREW NAME</u>	<u>AVAIL. DATES</u>	<u>NO. PEOPLE</u>	<u>SUPERINTENDENT</u>	<u>DISP OFFICE</u>	<u>DAYS OFF</u>
PRINEVILLE	5/15 – 11/12	20	Lance Honda	COC	SUN/MON
REDMOND	6/10 - 9/15	20	Mike Muehlbauer	COC	SUN/MON
LAGRANDE	5/14 - 10/13	20	Willie Crippen	NOC	FRI/SAT
UNION	5/14 - 10/13	20	Dan Fiorito	NOC	FRI/SAT
BAKER RIVER	5/19 – 10/14	20	Kurt Ranta	PSC	FRI/SAT
ENTIAT	5/15 – 10/31	20		CWC	FRI/SAT
ZIGZAG	6/2 - 10/1	20	Diego Mendiola	MHF	FRI/SAT
WINEMA	5/2 - 10/9	20	Jim Hampton	KFC	FRI/SAT
WARM SPRINGS	5/1 - 10/30	20	Tony Holliday	WSA	SAT/SUN
WOLF CREEK	6/15 - 10/15	20	Adam Veale	UPF	SAT/SUN
VALE	5/26 - 10/30	20	Bart Yeager	VAD	SUN/MON
ROGUE RIVER	4/16 – 10/13	20	Randy Lehman	MIC	FRI/SAT

**62.2 NORTHWEST "REGULARS" (TYPE II) CREW NUMBERS AND LOCATIONS**

In accordance with National direction, it is the responsibility of the Area to field reinforcement crews.

Qualified Supervisors, Equipment, and Meals should be furnished (as appropriate) when crews are dispatched.

**CREW NUMBERS BY LOCATION (NORTHWEST AREA)**

<b><u>DISPATCH OFFICE</u></b>	<b><u>NO. TYPE II CREWS</u></b>
COA	2
SPA	1
YAA	1
VAD	15
COC	1
COF	1
CWC	6
EIC	3
KFC	1
LFC	1
MIC	1
MAF/BFZ	1
MHF	1
PSC	4
PIC	1
SUF	1
UPF	2
NOC	1
NES	1
SES	1

**62.2.1**    **CAMP CREWS**

<b><u>CREW NAME</u></b>	<b><u>NO. CREWS</u></b>	<b><u>DISP OFFICE</u></b>
Angell Camp Crew	1	SUF
Curlew Camp Crews	2	COF
Timber Lake Camp Crew	2	MHF
Wolf Creek Camp Crew	1	UPF
Warm Springs Camp Crews	5	WSA
Yakima Camp Crews	3	YAA
Quinault Camp Crew	1	PSC

**62.2.2**    **INMATE CREWS**

<b><u>CAMP</u></b>	<b><u>NO. 10-PERSON</u></b>	<b><u>LOCATION</u></b>	<b><u>DISP OFFICE</u></b>
South Fork	12	Forest Grove, OR	53S/ORS
Shutter Creek	6	North Bend, OR	72S
Snake River	4	Ontario, OR	NOC
Powder River	5	Baker, OR	97S
Larch	10	Battleground, WA	PCS
Cedar Creek	14	Littlerock, WA	PCS
Olympic	7	Forks, WA	PCS
Airway Heights	5	Airway Heights, WA	NES
Mission Creek	3	Gig Harbor, WA	SPS
Monroe	4	Monroe, WA	NWS

**62.5 LEAD PLANE AND SMOKEJUMPER PILOTS****62.5.1 NORTHWEST AREA LEAD PLANE AND SMOKEJUMPER PILOTS**

Northwest Area lead planes are based at Redmond, Oregon and at Wenatchee, Washington.

**LEAD PLANE PILOT Call Signs and Home Bases are as follows:**

<b><u>PILOT</u></b>	<b><u>CALL SIGN</u></b>	<b><u>HOME BASE</u></b>
Ron Barrett	6-1	Redmond
Ron Vail	6-4	Redmond
Greg House	6-5	Redmond
Don Bell	6-8	Redmond
Jamie Tackman	6-9	Wenatchee
Hazel Hammond		Redmond
Mike Dark		Redmond

**SMOKEJUMPER PILOTS** (Refer to NMG 62.4)

**62.6 RAPPELLERS AND CALL-WHEN-NEEDED HELICOPTER MODULES**

**NOTE:** Refer to NMG 62.6 for Rappeller and Helicopter Manager Gear Weights and Volume and Region Six Rappeller Utilization Handbook

**62.6.1 NORTHWEST AREA RAPPELLERS**

<b><u>UNIT</u></b>	<b><u>LOCATION</u></b>	<b><u>NUMBER</u></b>
CWC	WENATCHEE	22
GPC	MERLIN	16
MAF	JOHN DAY	20
NOC	SLED SPRINGS	16
PIC	FRAZIER	16

**63 INCIDENT MANAGEMENT TEAMS**

**63.1.2 NUMBERS/NATIONAL TEAM ROTATION SEQUENCE**

The National Incident Management Team rotation is maintained by the NICC throughout the calendar year. The current rotation schedule and assignments are distributed electronically to the Geographic Area Coordination Centers. The NWCC will forward the schedule to all Northwest Area Dispatch Units.

**63.1.3 2007\*DUTY SCHEDULE OF NORTHWEST NATIONAL TEAMS**

01/02 - 01/15	Team 2
01/16 - 01/29	Team 3
01/30 - 02/12	Team 2
02/13 - 02/26	Team 3
02/27 - 03/12	Team 2
03/13 - 03/26	Team 3
03/27 - 04/09	Team 2
04/10 - 04/23	Team 3
04/24 - 05/07	Team 2
05/08 - 05/21	Team 3
05/22 - 06/04	Team 2
06/05 - 06/18	Team 3
06/19 - 07/02	Team 2
07/03 - 07/16	Team 3
07/17 - 07/30	Team 2
07/31 - 08/13	Team 3
08/14 - 08/27	Team 2
08/28 - 09/10	Team 3
09/11 - 09/24	Team 2
09/25 - 10/08	Team 3
10/09 - 10/22	Team 2
10/23 - 11/05	Team 3
11/06 - 11/19	Team 2
11/20 - 12/03	Team 3
12/04 - 12/17	Team 2
12/18 - 12/31	Team 3

**\*HOUR SCHEDULED** for change of “UP TEAM” is **2400 HRS.** on **MONDAY** bi-weekly.

Team 2  
Team 3  
\*\*\*

Chris Hoff COC Host Dispatch Office  
Jeff Pendleton MAF Host Dispatch Office

**FOR TEAM ROSTERS CONTACT HOST DISPATCH OFFICE**

**63.1.4 2007 \*DUTY SCHEDULE OF NORTHWEST AREA TEAMS**

<u>DATE</u>	<u>WA TEAMS</u>		<u>OR TEAMS</u>
05/01	Team	***	Blue Mtn
05/08	Team	***	ORCA
05/15	Team	***	Northwest
05/22	Team	***	Central
05/29	Team	***	Blue Mtn.
06/05	Team	***	ORCA
06/12	Team	***	Northwest
06/19	Team	***	Central
06/26	Team	***	Blue Mtn
07/03	Team	***	ORCAI
07/10	Team	***	Northwest
07/17	Team	***	Central
07/24	Team	***	Blue Mtn
07/31	Team	***	ORCA
08/07	Team	***	Northwest
08/14	Team	***	Central
08/21	Team	***	Blue Mtn
08/28	Team	***	ORCA
09/04	Team	***	Northwest
09/11	Team	***	Central
09/18	Team	***	Blue Mtn
09/25	Team	***	ORCA
10/02	Team	***	Northwest
10/09	Team	***	Central
10/16	Team	***	Blue Mtn
10/23	Team	***	ORCA
10/30	Team	***	Northwest
11/06	Team	***	Central
11/13	Team	***	Blue Mtn
11/20	Team	***	ORCA
11/27	Team	***	Northwest
12/04	Team	***	Central
12/11	Team	***	Blue Mtn
12/18	Team	***	ORCA
12/25	Team	***	Northwest

**HOURLY SCHEDULE** for change of **"UP TEAM"** is **0800 HRS.** on **TUESDAY** weekly.

**NOTE:** *\*Schedule for Washington Interagency IMT's is maintained by the Washington DNR Olympia Coordination Center.*

**63.1.5    2007 \*DUTY SCHEDULE OF NORTHWEST AREA TEAMS (CONTINUED)**

	<b><u>Host Unit</u></b>	<b><u>Incident Commander</u></b>
Team 1	WAS	Gary Jennings (OWF) / Bob Johnson (PCS)
Team 2	WAS	Rex Reed (SES) / Chris Schulte (UMF)
Team 3	WAS	Gary Berndt(SES) / Dave LaFave (CZLN)
Team 4	WAS	Mike Barnett (KENN) / Marsh Haskins (OWF)
Team 5	WAS	Dick Gormley (WFS)/ Keith Satterfield (OWF)
Blue Mtn	NOC	Rob Batten (MAF) /
Central	COC	Tom Goheen (COFMS) / Mark Rapp (COFMS)
Northwest	EIC	Carl West (SAD) / Ron Barber (UPF)
ORCA	KFC	Ken Paul (WNF) / Brett Fillis (APPN)

**Washington Incident Management Teams****NOTE the following:**

1. "Rule of Thumb": When a Team is dispatched, the team that becomes the "Up Team" will be the team scheduled to be the "Up Team" the next team up finishes that week & their week i.e., Team 2 is dispatched on June 8, Team 4 (scheduled to begin duty June 20) becomes the "Up Team" for remainder of the week.
2. In the event a decision is made to place two teams in 'Up Team' status, the second team will be the team scheduled to become the "Up Team" two Tuesdays ahead. Example: On August 22, Team 4 is "Up Team", it is decided to put a second team up". Team 6 (scheduled to begin Duty September 5) also becomes an "Up Team" effective August 22.
3. Refer to NWCC 22.9.B for general operating procedures.

**63.1.6    INCIDENT MANAGEMENT TEAM CONFIGURATION**

The Northwest Area will use the Standard Configuration for Long Teams (National and Area Teams) as it appears in the NMG 63.1.1 for requests WITHIN and OUTSIDE the Northwest Area.

**USE OF NON-STANDARD POSITIONS**

Northwest National Teams **MAY MOBILIZE** “Non-Standard Positions” within the Northwest Dispatch or Out – of - State Area Dispatch.

Northwest Area Teams **WILL NEGOTIATE** mobilization of “Non-Standard Positions” outside the Northwest Area.

**64 INCIDENT SUPPORT TEAMS****64.1 BUYING TEAMS** (Refer to NMG 64.1)**64.1.2 DUTY SCHEDULE OF NORTHWEST BUYING TEAMS**

The Northwest Buying Team rotation is maintained by USFS R-6 Procurement and Property Management (PPM) throughout the calendar year. If a team is "up first" within the Northwest area (locally) and is ordered to respond nationally, the next team in rotation becomes the "up team" locally.

03/06 - 03/19	Paul
03/20 - 04/02	Owen
04/03 - 04/16	Paul
04/17 - 04/30	Owen
05/01 - 05/14	Paul
05/15 - 05/28	Owen
05/29 - 06/11	Paul
06/12 - 06/25	Owen
06/26 - 07/09	Paul
07/10 - 07/23	Owen
07/24 - 08/06	Paul
08/07 - 08/20	Owen
08/21 - 09/03	Paul
09/04 - 09/17	Owen
09/18 - 10/01	Paul
10/02 - 10/15	Owen
10/16 - 10/29	Paul
10/30 - 11/05	Owen
11/06 - 11/19	Paul
11/20 - 12/03	Owen
12/04 - 12/17	Paul
12/18 - 12/31	Owen

**HOOR SCHEDULED** for change of "**UP TEAM**" is 2400 HRS. on **MONDAY**, bi-weekly.

**JANET PAUL (SUF) CONTACT THROUGH SUF**

**MAURICA OWEN (WIF) CONTACT THROUGH EIC**



**65 INCIDENT MEDICAL SPECIALIST TEAMS**

Each 500-person First Aid Station (NFES #1835) must be dispatched with an IMS Team. Refer to NWCC 22.12 for dispatch directions.

DUTY SCHEDULE OF NORTHWEST AREA INCIDENT MEDICAL SPECIALIST				
Type 2 Team	Host Unit	Incident Commander	IMS Manager	Dispatch Unit
Team 1	WAS	Gary Jennings		
Team 2	WAS	Rex Reed		
Team 3	WAS	Gary Berndt		
Team 4	WAS	Mike Barnett		
Team 5	WAS	Dick Gormly		
Blue Mtn	NOC	Rob Batten	Linda Lang	NOC
Central	COC	Tom Goheen	Greg Morgan	ROD
Northwest	EIC	Carl West	Layne Lange	MIC
ORCA	KFC	Ken Paul	Deborah Reth	NOC
Type 1 National				
Team 2	COC	Hoff	Dale Pospisil	ROD
Team 3	MAF	Pendleton	Steve Otoupalik	EIC

IMS teams will not be automatically mobilized with the five Type 2 Washington Interagency Incident Management Teams (WIIMT). If an IMS Team is needed by a WIIMT and can operate under the fact-specific circumstances of an incident, an order will be placed to NWCC by the unit with the incident.

No IMT taking an assignment in Washington State that involves non-federal jurisdiction will automatically mobilize with an IMS team, even if an IMS team is shown in the "Duty Table" as associated with an IMT. Otherwise, the assigned IMS team will rotate and be dispatched on the same schedule as their assigned IMT. There are six, IMT Teams in addition to those listed above. If needed, NWCC will contact the IMS coordinator for this team, then place the orders following normal dispatch procedures. Refer to NWCC 68.1.2 for duty schedule.

***HOURLY SCHEDULED*** for change of ***Duty Team IMS Manager*** is ***2300 HRS.*** on ***TUESDAY*** weekly.

**65.1 DUTY SCHEDULE FOR IMS TEAMS**

Each 500 person first aid station ( NFES #1835 ) must be dispatched with an Incident Medical Specialist (IMS) team.

<u>MANAGERS</u>	<u>DUTY DATES (start at 2300 hours)</u>
Gregg Morgan (ROD) Dale Grams (MHF)	05/31-06/06 06/21-06/27 07/12-07/18 08/02-08/08 08/23-08/29 09/13-09/19 10/04-10/10 10/25-10/31
Dennis Roberts (MHF) Pierre Hoppe (COC)	06/07-06/13 06/28-07/04 07/19-07/25 08/09-08/15 08/30-09/05 09/20-09/26 10/11-10/17
Ron Campbell (UPF) Geri Chumley (MSF)	06/14-06/20 07/05-07/11 07/26-08/01 08/16-08/22 09/06-09/12 09/27-10/03 10/18-10/24

**NOTE: Should IMS Teams become difficult to fill, NWCC will Contact IMSProgramDispatch Coordinator, Refer to NWCC 22.12**

**When an Incident Management Team is dispatched to an Incident the Medical Unit Leader upon arrival will determine the need for an IMS Team and will place the order through the established dispatch center for the incident.**

# CHAPTER 70 - EQUIPMENT

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**75 AGENCY ENGINES****75.1 FEDERAL ENGINES**

UNIT	TYPE 3	TYPE 3 4X4	TYPE 4	TYPE 4 4X4	TYPE 5	TYPE 6	TYPE 6 4X4
BIC				10	1		9
CBD	2						1
COA			2			9	
COF				2			8
COC	3	1		2		6	18
CWC	5				11		18
EIC	9					2	5
GPC					1	1	4
GPF			1				3
KFC	2	3				5	
LFC		6		7			18
MIC	3				6	1	
MHF	4	1				4	1
MOC				2			10
NOC			4		1	7	5
PIC		1		1			11
PSC	4		1		5	3	4
ROD	1			1			2
SAD	2 CAFS					1	
SPA			1				3
SPD						2	
SUF			2				3
UPF			7			1	2
VAD			11			8	
WSA				3			6
YAA				2			2
<b>TOTAL</b>	<b>35</b>	<b>12</b>	<b>29</b>	<b>30</b>	<b>25</b>	<b>50</b>	<b>133</b>

**75.2 STATE ENGINES**

<b>UNIT</b>	<b>TYPE 3</b>	<b>TYPE 3 4X4</b>	<b>TYPE 4</b>	<b>TYPE 4 4X4</b>	<b>TYPE 5</b>	<b>TYPE 6</b>	<b>TYPE 6 4X4</b>
<b>ORS</b>							23
NOA	4		2		6		
EOA			5		14		61
SOA	1	1	14		5	34	24
<b>WAS</b>							
NES					4	25	
NWS					8	5	
OLS					7	3	
PCS					21	9	
SES					10	11	
SPS					5	8	
<b>TOTAL</b>	<b>5</b>	<b>1</b>	<b>21</b>	<b>0</b>	<b>80</b>	<b>95</b>	<b>108</b>

**77 - FORWARD LOOKING INFRARED SYSTEM (FLIRS)****77.1 INFRARED SCANNING DEVICES**

Infrared scanning devices are available at various units throughout the area. The devices may be ordered via adjoining units or through the NWCC on an Equipment Resource Order. Equipment should be dispatched with unit's operator.

<u>DISP OFFICE</u>	<u>EQUIPMENT TYPE</u>	<u>NUMBER AVAILABLE</u>
CBD	PALM IR	2
COA	PALM IR	1
COC	PALM IR	4
COF	PALM IR	1
CWC	THERMOVISION	3
CWC	PALM IR	1
EIC	PYROSCAN	3
EIC	PALM IR	4
GPC	PROBEYE	1
KFC	XEDAR	1
LFC	PYROSCAN	1
LFC	PALM IR	2
MAF	PALM IR	2
MIC	PALM IR	2
MIC	PROBEYE	6
NOC	PALM IR	3
PIC	PALM IR	2
PSC	PALM IR	3
ROD	PROBEYE	3
ROD	PALM IR	2
SAD	PALM IR	1
SUF	PALM IR	2
WSA	PALM IR	1
YAA	PALM IR	1



**78 IGNITION DEVICES****78.1 AERIAL IGNITION DEVICES**

<u>HOST UNIT</u>	<u>QTY</u>
COA	1
COF	1
LFC	3
MAF	1
CWC	2
COC	1
PIC	2
VAD	1
NWK	2
BUD	1

**78.2 HELI-TORCHES**

<u>HOST UNIT</u>	<u>QTY</u>
COA	1
COF	1
CWC	1

**78.3 TERRA-TORCHES**

<u>HOST UNIT</u>	<u>QTY</u>
COF	1
LFC	1



**79 NORTHWEST AREA INTERAGENCY EQUIPMENT RENTAL RATES**

Refer to website: [www.fs.fed.us/r6/ppm/fire\\_procurement.shtml](http://www.fs.fed.us/r6/ppm/fire_procurement.shtml)



# CHAPTER 80 - AIRCRAFT

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**82.1 USFS LEAD PLANES**

Lead planes are considered National Interagency Resources. Region 6 (USFS-owned) will have the following King Air - 90 aircraft available during the 2006 season. The WCF Use Rate for FY 2006 is \$700/Hr.

<b><u>BASE</u></b>	<b><u>A/C "N" NUMBER</u></b>
Redmond, OR	N28M
Redmond, OR	N29M
Wenatchee, WA	N14CP



## **83 - CONTRACT AIR TANKERS**

Refer to NWCC 26.7 for list of Region 6 Air tanker Numbers, Duty Hours and Days Off.

### **83.1 STATE COOPERATOR AIR TANKERS**

The State of Oregon Department of Forestry and State of Washington Department of Natural Resources have contract air tankers.

These air tankers can be used on federal land under specific criteria. **REFER TO 2005** Geographic Additional Aviation Asset Operation Plan for detail information.

### **83.2 NORTHWEST AIR TANKER DISPATCH PROCEDURES AND DISPATCH GUIDE MAP**

Refer to NWCC 24.10 and 28.15.

### **83.3 FIRE RETARDANT RATE**

Reference Forest Service Handbook (FSH) 6509.11K, Section 33.13, Item 8. The rate is calculated and kept current in the Handbook. Overhead included in the rate will be deducted when billing for fire trespass cases and where reimbursable agreements prohibit charging for overhead (example: when retardant is used on a State fire in a reciprocal area).

#### **83.3.1 "FOAM" FIRE RETARDANT USE**

No fire retardant foam will be delivered from U. S. Forest Service contracted fixed-wing Air tankers.

The use of foam fire suppressant delivered from helicopters is approved except from helicopters with "fixed tanks" (LA Type).

**83.4 – SINGLE ENGINE AIR TANKER**

**83.4.1 NORTHWEST AREA 2007 EXCLUSIVE USE CONTRACTS**

<b>Agency Forest/District COR/PI</b>	<b>Home Base</b>	<b>Vendor Aircraft Type</b>	<b>Contract Period</b>	<b>Daily Available Rate</b>	<b>Flight Rate</b>	<b>Extended Stand by Rate</b>
BLM Burns District Kristine Thistle	Burns, Or	Western Pilot 2 SEATS	6/1 - 8/29	\$1,950.00	\$2,275.00	\$75 Pilot & mechanic
BLM Lakeview District Vickie Baker	Lakeview, Or	Western Pilot	6/1 - 8/29	\$1,950.00	\$2,275.00	\$75.00 Pilot & mechanic
USFS Malheur N.F. Jeff Meyerholz	John Day, Or	Not Available				
BIA Colville Agency	Ormak, Wa	Not Available	6/30 - 8/28			
USFS Umatilla N.F. Bud Cowger	Pendleton, OR	Not Available				

**84 – EXCLUSIVE USE HELICOPTERS**

**84.1 NORTHWEST AREA 2007 EXCLUSIVE USE CONTRACTS**

Agency Forest/District COR/PI	Home Base	Vendor Aircraft Type	Contract Period	Daily Available Rate	Flight Rate	Optional Flight Rate (USFS Only)	Extended Stand by Rate
BLM Burns District	Burns, Or	Not Available					
USFS Wenatchee N.F. Mike Davis	Wenatchee, Wa	Helicopter Express Bell 205A1++	6/4 - 9/16	\$4,200.00	\$1,403.00		
USFS Umatilla N.F. JD Connall	Frazier, Or	Helicopter Express Bell 205 A1++ N688CC	6/4 - 9/21	\$2,576.00	\$945.00		
USFS Malheur N.F. Jeff Meyerholz	John Day, Or	Helicopter Express	6/4 - 9/26	\$4,200.00	\$1,403.00		
BLM Lakeview District Clark Hammond	Lakeview, Or	Hillisboro Aviation Bell 205 A-1++	6/1 - 8/29	\$3,210.00	\$1,395.00		
USFS Rogue River/ Siskiyou N.F. Audrey Gemmill	Grants Pass, Or	Southwest Helicopter Bell 407	6/4 - 9/16	\$2,576.00	\$945.00		

**84.1 NORTHWEST AREA 2007 EXCLUSIVE USE CONTRACTS**

<b>Agency Forest/District/COR</b>	<b>Home Base</b>	<b>Vendor Aircraft Type</b>	<b>Contract Period</b>	<b>Daily Available Rate</b>	<b>Flight Rate</b>	<b>Extended Stand by Rate</b>
BLM Prineville District Army Kazmier	Prineville, OR	Hillsboro Helicopters Bell 206 L3	6/3 - 9/10	\$1,467.00	\$765.00	
USFS Wallow-Whitman N.F. Griff Williams	Sled Spring, Or	Hillcrest Aircraft Bell 205 A-1++	6/4 - 9/18	\$3,000.00	\$1,403.00	
BLM Vale District Brian Rindlsbacher	Vale, OR	Henderson Aviation Bell 206L4	6/1 - 8/29	\$2,520.00	\$804.00	\$75.00
BIA Colville Agency Jon Batten	Keller, Wa	Not Available				

**84.3 STATE COOPERATOR HELICOPTERS**

The following helicopters and pilots are approved (by USFS inspectors) to transport passengers, cargo, bucket operations and for reconnaissance within specified limitations. Refer to NWCC 24.7.9.

The flight rate is \$2,500/Hr. (No availability or Stand by Cost)

<b>HELICOPTER TYPE</b>	<b>“N” NUMBER</b>	<b>ASSIGNED BASE</b>
UH-1H Helitack	N338WN	Ellensburg
UH-1H Helitack	N339WN	Ellensburg
UH-1H Helitack	N340WN	Ellensburg
UH-1H Bucket	N341WN	Olympia (Backup)
UH-1H Helitack	911MR	Ellensburg
B-209 Bucket	N345WN	Ellensburg
B-209 Bucket	N346WN	Ellensburg
B-209 Bucket	N347WN	Ellensburg
B-209 Bucket	N373WW	Ellensburg

**PILOTS**

John Adolphson	Clarence Hendricks	Pete Peterson
Dave Adams	Rick Karvsow	Pat Lance
Glenn Giammalua	Terry Kaplan	Jay White

\*\*\* Pilots and Helicopters may be rotated to various bases \*\*\*

**85 - OTHER AGENCY OWNED AND CONTRACT AIRCRAFT**

**85.1 NATIONAL BUSINESS CENTER (NBC) SOURCE LIST**

Interior Agencies utilize the National Business Center Aviation Management , Boise, ID, for aircraft and pilot approvals. The NBC will acquire and certify all aircraft and pilots under Contract or Offer for Rental and provide current Source Lists of approved aircraft and pilots. Aircraft may be ordered direct from Vendors on the Source Lists. Interior Units may also utilize Agriculture (USFS) inspected and approved aircraft and pilots. USFS Units may also utilize NBC approved aircraft and pilots direct from Vendors.

REFER TO: [www.nbc.gov](http://www.nbc.gov)

**85.2 REGION 6 CALL-WHEN-NEEDED-HELICOPTERS**

REFER TO: [http://www.fs.fed.us/r6/fire\\_procurement.shtml](http://www.fs.fed.us/r6/fire_procurement.shtml)

**85.3 SMOKEJUMPER AIRCRAFT IDENTIFICATION**

All smokejumper aircraft in the Northwest Area will be identified by using the word "Jumper" in front of the FAA identification number.

<u>BASE</u>	<u>AIRCRAFT TYPE</u>	<u>AIRCRAFT ID</u>	<u>FLIGHT RATE</u>
REDMOND	C-23 (SHERPA)	JUMPER 173Z	\$1356.00
REDMOND	C-23 (SHERPA)	JUMPER 178Z	\$1356.00
NORTH CASCADES	CASA 212	JUMPER 09	

**85.4 USFS CWN CONTRACT AIRCRAFT AND PILOTS INSPECTION**

REFER TO: <http://www.fs.fed.us/r6/fire/aviation>

**86 AVIATION SAFETY****86.1 OVERDUE, MISSING AND DOWNED AIRCRAFT PROCEDURES**

Refer to NWCC 24.3.1 and to the Aircraft Crash, Search, And Rescue Guide.

**86.2 SUNRISE/SUNSET TABLE**

These tables should be maintained at the local dispatch center and can be furnished upon request. The tables are available on the Internet at <http://www.usno.navy.mil>.

Select rise/set menu under the Astronomical Applications department. Then select the month, the day, the state, and the city. Click on the Get Data button to generate sunrise/sunset table.

It is also, recommended that you download the data and reformat the files so they will print on a single sheet.

**86.3 USFS OPERATIONS AND SAFETY INFORMATION FOR PILOTS**

REFER TO: <http://www.fs.fed.us/r6/fire/aviation>

**87 - AIRCRAFT COMMUNICATIONS****87.1 AVIATION FREQUENCY**

Refer to NWCC 24.14.1 and the following publications:

- 1) Pacific Northwest Interagency Aviation Frequency Guide.
- 2) See Geographic Area Frequency Map For additional Air To Air frequencies, Exhibits 18 and 18A

**88 - OTHER AVIATION SERVICES / ACTIVITIES****88.1 MODULAR AIRBORNE FIRE FIGHTING SYSTEMS (MAFFS)**

Refer to NMG 24.10.2 and to the Modular Airborne Fire Fighting Systems Operational Plan.

**88.2 AIRCRAFT USE REPORTING**

Refer to Agency Manual Direction.

**88.3 AIRPORT GUIDE.**

The airport guide (**NWCC 88.3.1,88.3.2**) has been prepared as a **reference guide** for dispatchers within the Northwest Area. The purpose of the guide is to assist these individuals in determining suitable airports for mobilization and demobilization of incident personnel. The guide is **NOT** intended to substitute the pilot's responsibility for flight planning. Information about unlisted airports and airfields can be found in local dispatch offices and from the following sources:

State Airport Directories  
Airport/Facility Directory  
Flight Guide  
Regional Aviation Group

**88.4 NORTHWEST HELIBASES****88.5 AIRCRAFT TYPE AND CAPABILITIES GUIDE**

The purpose of the information is to familiarize individuals in aircraft identification for flight planning purposes only. The information provided is typical data for each make and model but it does not necessarily apply to any specific aircraft.

**(NWCC 88.5.1,88.6.2,88.5.3)**

Prior to using any aircraft check with the vendor or an agency pilot, or local aviation manager on whether the aircraft can accomplish the specific mission.

**88.3.1 OREGON AIRPORT GUIDE**

City/	FAA ID	Latitude/ Longitude	Elevation (feet)	Runway Length/ width/surface (feet)	Nite/ILS Approved	Fuel Type	FBO(Phone) Available
Astoria	(AST)	46 09/123 52	015	5796/150/Asph	Y/Y	Avgas/Jet	Port of Astoria (503-861-1212)
Baker City	(BKE)	44 50/117 48	3373	5097/100/Asph	Y/N	Avgas/Jet	Sundance Avn(541-523-5663)
Bank	(SOT)	44 05/121 11	3453	5005/75/Asph	Y/N	Avgas/Jet	Flight Shop(541-388-0019)
Burns	(BNO)	43 35/118 57	4148	5100/75/Asph	Y/N	Avgas/Jet	Eagle Wing(541-573-6139)
Corvallis	(CVO)	44 29/123 17	246	5900/150/Asph	Y/Y	Avgas/Jet	Corvallis Aero Svc.(541-753-4466)
Denmark	(SS6)	42 51/124 31	214	5100/150/Asph	N/N	None	
Eugene	(EUG)	44 07/123 13	365	8000/150/Asph	Y/Y	Avgas/Jet	Flightcraft(541-688-9291)
Florence	(6S2)	45 58/124 06	046	3000/60/Asph	Y/N	Avgas/Jet	Florence Avn(541-997-8069)
Gold Beach	(4S1)	42 24/124 25	016	3200/75/Asph	Y/N	Avgas/Jet	Admin Bldg(541-247-6269)
Grant Pass	(3S8)	42 30/123 22	1125	4000/75/Asph	Y/N	Avgas/Jet	GreatPacific Avn Svc (541-479-2230)
John Day	(CGD)	44 24/118 57	3697	4500/60/Asph	Y/N	Avgas/Jet	Admin Bldg (541-575-1151)
Joseph	(4S3)	45 21/117 15	4122	5200/60/Asph	Y/N	Avgas/Jet	JosephFuelingsuc (541-432-0433)
Klamath Falls	(LMT)	42 09/121 43	4095	10301/150/Asph	Y/Y	Avgas/Jet	KlamathAcft(541-882-4681)
La Grande	(LGD)	45 17/118.00	2717	5600/100/Asph	Y/N	Avgas/Jet	AdminBldg(541-963-6615)
Lakeview	(LKV)	42 09/120 23	4733	5306/100/Asph	Y/N	Avgas/Jet	Goose Lake(541-947-4222)
Madras	(S33)	42 00/121 24	2434	5100/75/Asph	Y/N	Avgas/Jet	Mobley Avn(541-475-6947)
Medford	(MFR)	42 22/122 52	1335	8800/150/Asph	Y/Y	Avgas/Jet	Jet CenterNorth(541-770-5314)
Newport	(ONP)	44 34/124 03	160	5398/150/Asph	Y/Y	Avgas/Jet	Central ORCoast(541-867-3655)
North Bend	(OTH)	43 25/124 14	017	53221/150/Asph	Y/Y	Avgas/Jet	Coos Avn(541-756-5181)
Ontario	(ONO)	44 01/117 00	2193	4529/100/Asph	Y/N	Avgas/Jet	Ontario Avn(541-889-9197)
Pendleton	(PDT)	45 41/118 50	1497	6300/150/Asph	Y/Y	Avgas/Jet	Pendleton Av(541-276-3373)
Portland	(PDX)	45 35/122 35	030	11000/150/Asph	Y/Y	Avgas/Jet	Flightcraft(503-331-4200)
Redmond	(RDM)	44 15/121 08	3077	7040/150/Asph	Y/Y	Avgas/Jet	Butler Acft(541-548-8166)
Roseburg	(RBG)	43 13/123 23	529	4600/100/Asph	Y/N	Avgas/Jet	AmeristarAiz(541-673-5706)
Salem	(SLE)	44 54/123 00	214	5811/150/Asph	Y/Y	Avgas/Jet	Salem Air Svc(541-364-0111)
The Dalles	(DLS)	45 37/121 09	247	5097/150/Asph	Y/Y	Avgas/Jet	FlightlineSvc(509-767-1134)
Troutdale	(TTD)	45 39/122 24	039	5399/150/Asph	Y/Y	Avgas/Jet	Premeir Aircraft (503-661-1044)
Vale	(S49)	43 57/117 15	2249	3872/65/Grv	N/N	None	

88.3.2 WASHINGTON AIRPORT GUIDE

City/	FAA ID	Latitude/ Longitude	Elevation (feet)	Runway Length/ width/surface	Nite/ILS Approved (feet)	Fuel Type	FBO(Phone) Available
Bellingham	(BLI)	48 47/122 32	170	6701/150/Asph	Y/Y	Avgas/Jet	AvtnFueling(360-676-7624)
Boeing	(BFI)	47 31/122 18	018	10001/200/Asph	Y/Y	Avgas/Jet	Galvin (206-763-0350)
Burlington	(BVS)	48 28/122 25	144	5477/100/Asph	Y/N	Avgas/Jet	Corporate Air(360-757-7757)
Chehalis	(CLS)	46 40/122 58	173	5000/150/Asph	Y/N	Avgas/Jet	CentralRepr(360-748-0190)
Chewelah	(1S9)	48 18/117 44	2075	3446/48/Asph	N/N	None	None
Deer Park	(07S)	47 58/117 25	2210	6100/75/Asph	Y/N	Avgas/Jet	Partners Avn(509-276-8663)
Electric City	(3W7)	47 55/119 04	1590	4200/75/Asph	N/N	None	None
Ellensburg	(ELN)	47 01/120 27	1763	5500/150/Asph	Y/N	Avgas/Jet	MidStateAvn(509-962-7850)
Everett	(PAE)	47 54/122 16	606	9010/150/Asph	Y/Y	Avgas/Jet	EverettJet(425-355-6600)
Felts Field	(SFF)	47 40/117 19	1953	4500/150/Asph	Y/Y	Avgas/Jet	Felts Avn(509-535-9011)
Hoquiam	(HQM)	46 58/123 56	018	5000/150/Asph	Y/Y	Avgas/Jet	Flyfatboy(360-533-6655)
Moses Lake	(MHW)	47 12/119 19	1185	13502/200/Asph	Y/Y	Avgas/Jet	AirAmerica(509-762-2222)
Olympia	(OLM)	46 58/122 54	206	5419/150/Asph	Y/Y	Avgas/Jet	PearsonAir(360-786-8333)
Omak	(OMK)	48 27/119 31	1305	4654/150/Asph	Y/N	Avgas/Jet	Terminal(509-826-6270)
Pasco	(PSC)	46 15/119 07	407	7700/150/Asph	Y/Y	Avgas/Jet	Bergstrom(509-547-6271)
Port Angeles	(CLM)	48 07/123 29	291	6347/150/Asph	Y/Y	Avgas/Jet	RiteBros.(360-452-6226)
Republic	(R49)	48 43/118 39	2519	3498/60/Asph	N/N	None	None
Seattle	(SEA)	47 27/122 18	433	11900/150/Asph	Y/Y	Avgas/Jet	ASIG(206-433-5481)
Spokane	(GEG)	47 37/117 31	2372	9000/150/Asph	Y/Y	Avgas/Jet	SpokaneAir(509-747-2017)
WallaWalla	(ALW)	46 05/118 17	1191	6528/150/Asph	Y/Y	Avgas/Jet	Blueridge Actf(509-529-4243)
Wenatchee	(EAT)	47 23/120 12	1245	5500/150/Asph	Y/Y	Avgas/Jet	ExecutiveFlt(509-884-1545)
Winthrop	(S52)	48 25/120 08	1694	5049/75/Asph	Y/N	Avgas/Jet	Adm (509-987-2031)
Yakima	(YKM)	46 34/120 32	1095	7603/150/Asph	Y/Y	Avgas/Jet	NolandDeco(509-248-1370)

**88.4 Northwest Helibase Information:**

Base Name	Latitude/ Longitude	Elevation (feet)	Home Unit	Agency
Burns	43 35/118 57	4144	Burns	BLM
Chelan	47 52/119 55	1263	Wenatchee	USFS
Clearwater	46 12/117 34	5650	Umatilla	USFS
Ellensburg	47 01/120 31	1760	WA-SES	State of Washington
Enumclaw	47 10/121 59		WA-SPS	State of Washington
Frazier	45 09/118 13	4500	Umatilla	USFS
Ft. Rock	43 26/120 50	4520	Lakeview	BLM
Gerber	42 12/121 08	4930	Lakeview	BLM
John Day	44 24/116 57	3700	Malheur	USFS
Lakeview	42 09/120 23	4209	Lakeview	BLM
Merlin	42 30/123 23	1122	Siskiyou	USFS
Oakridge	43 45/122 30	1420	Willamette	USFS
Olympia	46 58/122 54	206	WA-WAS	State of Washington
Prineville	44 17/120 54	3246	Prineville	BLM
Sled Spring	45 47/117 16	4500	Wallowa-	USFS Whitman
Tupper	45 04/119 29	4100	Umatilla	USFS
Vale	44 01/117 00	2190	Vale	BLM
Wenatchee	47 23/120 12	1249	Wenatchee	USFS

**88.5.1 AIRCRAFT TYPES AND CAPABILITIES GUIDE****Fixed Wing Aircraft Information:****Single Engine**

<b>Aircraft Runway Make/Model</b>	<b>Length (Feet) (feet)</b>	<b>Wing Span (kts/mph)</b>	<b>Cruise Speed (feet)</b>	<b>Payload (pounds)</b>	<b>Number of Pax Seats</b>	<b>Required Length</b>
Cessna 172	27	36	105/120	600	3	1500
Cessna 180	26	36	140/160	800	3	1500
Cessna 182	28	36	150/170	900	3	1500
Cessna 182RG	28	36	120/140	1100	3	1500
Cessna 185	26	36	109/125	1100	3	1700
Cessna 205	28	36	135/155	900	5	2000
Cessna 206	28	36	130/160	1100	5	1500
Cessna 207	32	36	130/160	1100	6	2000
Cessna 208	38	52	175/180	2500	8-12	2000
Cessna 210	28	37	155/190	1000	6	2000
Cessna 210(Turbo)	28	37	165/190	1500	6	2500
Piper PA-18 Supercub	23	35	100/115	600	1	500
Piper PA-32R Lance	28	33	135/155	1100	5	2000
Beech Bonanza	26	34	165/190	950	4-5	2000
DHC-2 Beaver(Floats)	30	48	100/115	1400	6	1700

**Twin Engine**

<b>Aircraft Runway Make/Model</b>	<b>Length (feet) (feet)</b>	<b>Wing Span (kts/mph)</b>	<b>Cruise Speed (feet)</b>	<b>Payload (pounds)</b>	<b>Number of Pax Seats</b>	<b>Required Length</b>
Cessna 337 Skymaster	30	38	148/170	600	3	2000
Cessna 340	43	38	182/210	900	5	3000
Cessna 414	36	44	174/200	900	5	3000
Cessna 421 Golden Eagle 34	40	191/220	1600	7-9	3000	
Cessna 441 Conquest I/II 39	49	252/290	1400	8	3000	
Piper PA-23 Aztec	31	37	174/200	1000	5	2000
Piper PA-31 Chieftain	35	41	217/250	1800	8	3000
Piper PA-31T2 Cheyenne IXL	37	43	208/240	1300	7	3000
Piper PA-34 Seneca	29	39	190/230	1100	5	2000
Piper PA-42 Cheyenne II 43	48	273/315	2000	11	3300	
Piper PA-42 Cheyenne II 43	48	295/340	2000	11	3300	
Piper PA-44 Seminole	28	39	165/190	600	3	2000
Beech craft Baron 55	28	38	187/215	1000	5	2000
Beech craft Baron 58/P	30	38	187/215	1000	5	3000
Beech craft King Air 90/100	36/40	50	226/260	1300	6	3000
Beech craft King Air 200/350	44	55	278/320	2200	9-12	3300
Aero Commander 500	35	45	169/195	1100	5	3000
Aero Commander 690	44	47	247/285	1200	7	3000
Aero Commander 840	44	49	247/285	1600	9	3000
Partenavia P-63	31	39	161/185	1100	5	1600
Islander BN-2	36	49	130/150	2000	10	1500
DC-3 Turbo	58	96	182/210	5900	20-30	2000
Sherpas S-330(C-23)	58	75	148/170	2200	20	2000
DHC-6 Twin Otter	53	65	148/170	3000	15-19	1500
Casa 212	50	62	169/195	3400	19	2500
MU-II	34	40	300/345	3350	9	1800

**88.5.2 AIRCRAFT TYPES AND CAPABILITIES GUIDE**

**Helicopter Information:**

<b>TYPE I</b>					
<b>Make/Model</b>	<b>Length</b>	<b>Rotor Diameter (feet)</b>	<b>Bucket Size (gallons)</b>	<b>Cruise Speed (kts/mpH)</b>	<b>Number of Pax Seats Pax</b>
K-MAX (K1200)	52	48	900	80/92	N/A
Bell 214 B-1	62	52	660-880	140/160	15-20
Blackhawk UH-60	65	54	660	145/167	14-17
Sikorsky S-61N	73	62	900	120/138	N/A
Boeing Vertrol 107	83	50	900-1000	120/138	N/A
Boeing 234(CH-47)	99	60	3000	135/185	46
Sikorsky S-64 Skycrane	89	72	2000	80/92	N/A

<b>TYPE II</b>	<b>(STANDARD &amp; LIMITED)</b>				
<b>Make/Model</b>	<b>Length</b>	<b>Rotor Diameter (feet)</b>	<b>Bucket Size (gallons)</b>	<b>Cruise Speed (kts/mpH)</b>	<b>Number of Pax Seats Pax</b>
Bell 204B/UH-1B	55	48	240	90/104	10
Bell Super 204	55	48	324	90/104	10
Bell 205 A-1	57	48	324	90/104	14
Bell 212	58	48	324	100/115	13
Bell 412	56	46	420	110/115	13
Kaman H-43	25	47	324	85/98	N/A
Sikorsky S-58T	42	56	420	90/104	12-18

<b>TYPE III</b>					
<b>Make/Model</b>	<b>Length</b>	<b>Rotor Diameter (feet)</b>	<b>Bucket Size (gallons)</b>	<b>Cruise Speed (kts/mpH)</b>	<b>Number of Pax Seats Pax</b>
MD-500D (Hughes)	31	26	96-108	120/138	4
Bell 206 III Jet Ranger	39	33	96-108	97/112	3
Bell 206 L-3 Long Ranger	43	37	96-144	110/127	6
AS-350 D-1 Astar	43	35	108-144	108/124	4
AS-350 B-2 Ecureuil	43	35	240	125/144	5
AS-355 F-1 Twin Star	43	35	108-144	115/132	4
SA-315 B Lama	43	36	180	80/92	4
SA-316B Alouette III	42	36	144	80/92	6

**88.5.3 AIRCRAFT TYPES AND CAPABILITIES GUIDE**

## Air Tanker Information:

Aircraft Make/Model	Length (feet)	Wing Span (feet)	Cruise Speed (kts/mph)	Cruise Speed (pounds)	Contract Operating Wt. (gallons)	Retardant Load	Number of Gates
C-130 MAFFS	99	133	239/275	108,537	3000	1	
P-3A	116	99	255/290	95,100	3000	8	
DC-7	112	128	226/260	102,250	3000	6-8	
DC-6	111	118	208/240	86,200	2400	6-8	
DC-4	93	118	191/220	63,000	2000	4-8	
P2V	86	98	195/225	73,900	2400	6	
KC-97	118	141	217/250	125,548	4500	16	
SP2H	95	98	191/220	60,000	2000	1	
S-2F	44	73	175/200	25,000	800	4	
CL-215	65	94	164/189	NA	1300	2	
AT802	35.5	58	165/190	16,000	799	Constant flow	
TURBINE THRUSH (S2R-G10)	33	47.5	138/159	11,500	500	1-2	
TURBINE THRUSH (S2R-T34)	33	47.5	138/159	10,600	400	1-2	
RECIP THRUSH(S2R-600)	30	47.5	122/140	6,900	400	1-2	
DROMMEDER(M18A)	31	58	112/130	11,700	500	1-2	

