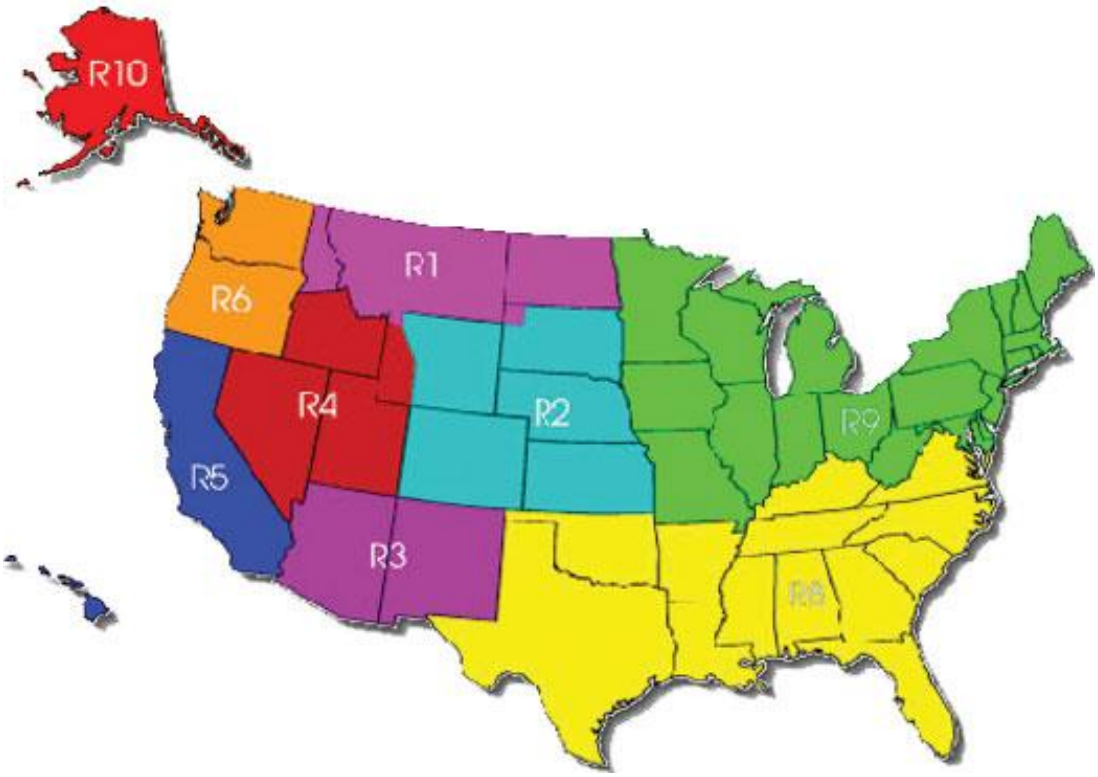
Interagency

Emergency Helicopter Extraction Source List - 2011



Revision 4 (09/10)

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INTRODUCTION

Purpose

The intent of this source list is to provide Incident Management Teams, Geographic Area Coordination Centers, and Forests access to the availability of helicopter resources on a state, geographical and national basis to conduct human extractions (hoist/short-haul) for emergency evacuations. Both insertion/extraction techniques are used to precisely place emergency response personnel and remove critically injured victims from normally inaccessible terrain or locations.

The goal is to provide emergency response to the seriously injured and to respond as quickly as possible to life threatening situations occurring on agency and interagency incidents. This document can also be useful when filling in information on the Interagency Mishap Response Guide & Checklist.

Emergency helicopter extraction resources identified in this document have been compiled from federal, state, municipal governments, military, and Emergency Medical Response (EMS) programs throughout the country. Many factors may determine the availability and response time of requested resources.

It is important for the user to recognize that identified sources and information may have changed due to unforeseen circumstances. Check ahead of time for availability of possible resources in your geographical area.

Note: If you find information that should be added, changed or is missing from the source list, please make corrections on the blank source list template in the appendix and send or email to:

National Helicopter Operations Specialist (208) 387-5634
USDA-Forest Service
3833 S. Development Ave.
Boise, ID 83705-5398
vince_welbaum@fs.fed.us

Definitions

Rescue Hoist: A cable winching device permanently mounted to the helicopter that is capable of lowering/raising persons attached to the cable.

Short-haul: To transport one or more persons suspended on a fixed line (150'-250') beneath a helicopter. The intent is to transport persons a short distance (short-haul), normally from a limited or inaccessible location to a safe landing area.

ORDERING RESOURCES

Careful consideration should be given by the on-scene Incident Commander and/or EMS personnel prior to making the determination to request and initiate the use of the following resources.

An emergency helicopter request should be initiated and coordinated through the local dispatch or Geographical Area Coordination Center (GACC).

Request military, National Guard or Coast Guard resources through the Air Force Rescue Coordination Center (ARFCC), phone #: 800-851-3051. It is their job to locate the closest asset to fulfill your emergency rescue needs. It is important to note resource availability may be limited due to military deployments or other factors, and response time may be 2-3 hours.

In some circumstances, orders for county/sheriff department owned aircraft can be placed directly or with the specified contact.

HELICOPTER SOURCE LOCATIONS

ERA Helicopters, through a teaming arrangement with Priority 1 Air Rescue Inc. (P1AR), now offers FAA-approved full-service Search and Rescue (SAR) and Emergency Medical Services capability and turnkey solutions to meet government needs.

Helicopters are stationed at Era Helicopters in Lake Charles LA. During the fire season and upon notice, the Priority 1 Air Rescue helicopter and aircrew can preposition to major fires or large incidents and provide dedicated 24/7 on-scene rescue and ALS medical support.

Crews and helicopters can be made available for the entire fire season. If needed, Era Helicopters and Priority 1 Air Rescue can also provide an additional rescue helicopter and air rescue/medical crew.

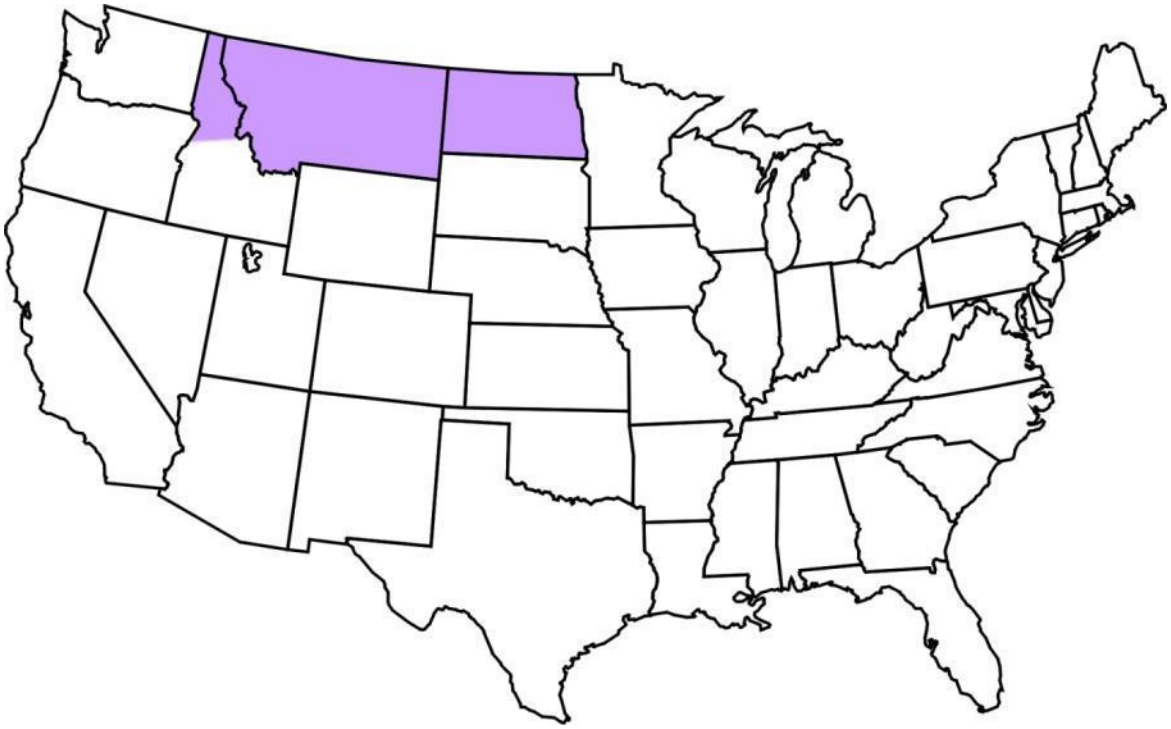
Nationwide

Priority 1 Air Rescue/ERA Helicopters

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Augusta AW-139 or 109 Bell 412	Yes Marginal 412	170 mph 140 mph

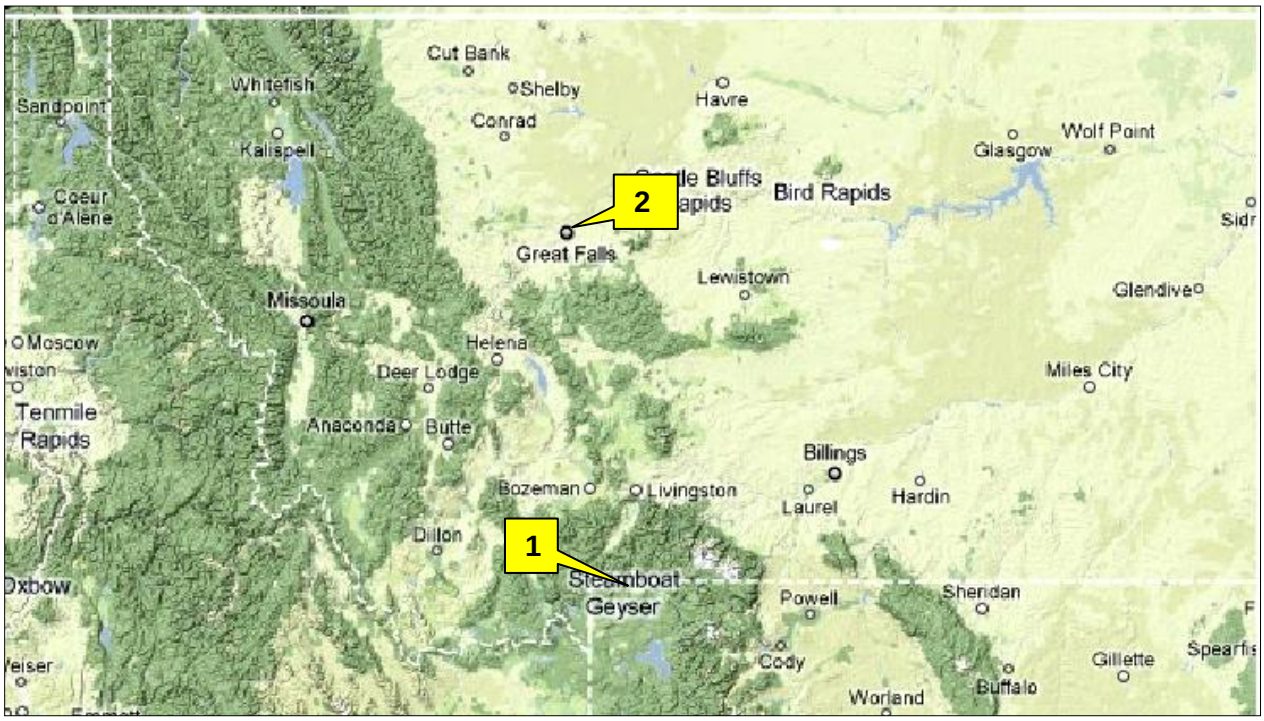
VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	Yes	15 minutes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	2 Hours (350 miles)
Refueling:	Can refuel @ FBOs (Jet-A) Can provide fuel truck.
Medical Personnel:	Advanced Life Support (ALS) Paramedic and NREMT-B
Paid Extended Staffing:	Yes. 24/7 upon request.
Paid Relocation:	Yes. This is a full service commercial source now available that is FAA Part 133, Class D certified.
Notes:	Aircraft are ALS configured for 2 non-ambulatory stretchers, 2 ambulatory patients and medical crew. Aircraft can be equipped for Shortwave Infrared (SWIR) which can see through smoke and fog.
Ordering Procedure:	Currently there is not a procurement mechanism in place to utilize services. For additional information contact: Era Helicopters, or Priority 1 Air Rescue, http://www.erahelicopters.com/e4/e1655/index_eng.html, or http://www.priority1airrescue.com/SARMedevac.html, Phone: Brad Matheson, 360-305-1796 or Mark Torres, 602-616-0648.



Northern Region

Helicopter Source Locations



1. **Yellowstone NP, WY** – *National Park Service (Short-haul)*
2. **Great Falls, MT** – *Active Military (Hoist)*

1. Yellowstone, WY

National Park Service

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Lama (SA-315B)	Yes	104 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	30 Minutes

Hoist Type:	None/Short-haul
Fuel Cycle:	2 Hours (150 Miles)
Refueling:	Can refuel @ FBOs (Jet-A). Also have fuel truck.
Medical Personnel:	EMT (Can also provide Helitack support personnel)
Paid Extended Staffing:	Determined by flight request.
Paid Relocation:	Yes. Case-by case basis.
Notes:	This is a national fire resource helicopter. Available for long term assignment for national/regional incidents. Procurement can be initiated by MOU or incident "P" number. Check availability, may already be assigned to incident.
Ordering Procedure:	Contact: Bozeman Interagency Dispatch Center (BZC), 406-587-6719, or Yellowstone Dispatch, Laura Dooley, 307-344-2181.

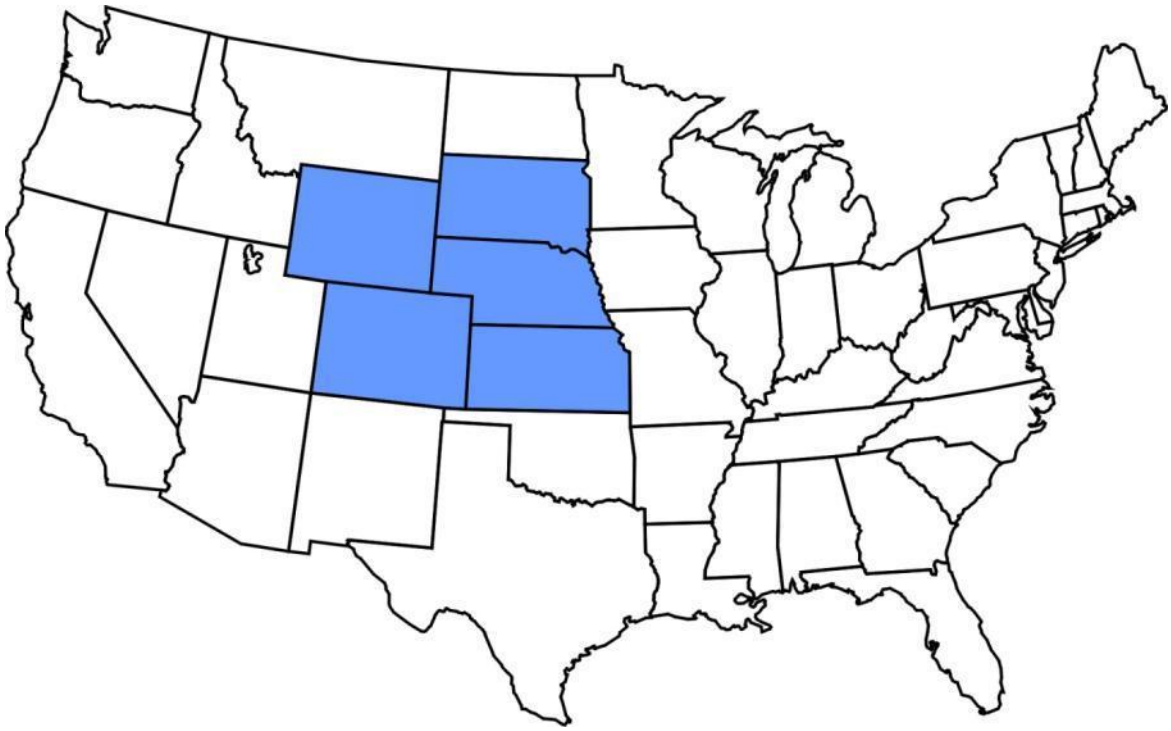
2. Great Falls, MT

Active Military –Air Force (Malstrom Air Force Base)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Bell 205 (UH-1H)	Marginal	126 mph

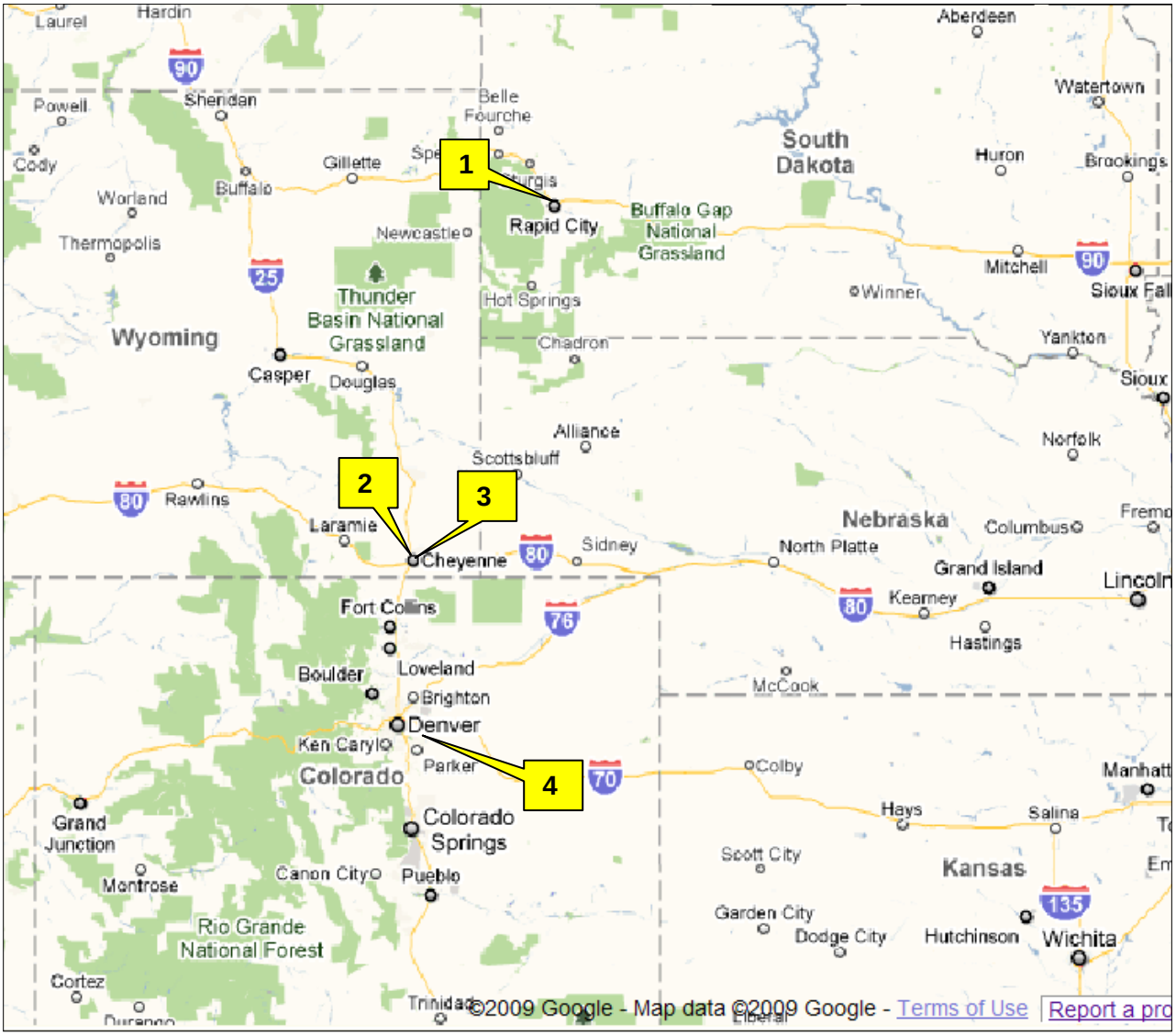
VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	No	No	2 Hours

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	315 miles (2.5 hours)
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Flight Doctor & EMT
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	Direct contact: Malstrom Air Force Base, phone: 406-731-3801. Available only within state of MT.
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.



Rocky Mountain Region

Helicopter Source Locations



1. **Rapid City, SD** – *South Dakota National Guard (Hoist)*
2. **Cheyenne, WY** – *Active Military (Hoist)*
3. **Cheyenne, WY** – *Wyoming National Guard (Hoist)*
4. **Aurora, CO** – *Colorado Air Guard (Hoist)*

1. Rapid City, SD

South Dakota National Guard (Located at Army Aviation Support Facility (AASF)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Blackhawk (UH-60A)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	No	Yes	1-6 Hours in-state 2-days intra-state

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	350 miles
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	None
Paid Extended Staffing:	In-state, Intra-state under Emergency Management Assistance Compact (EMAC) mutual aid agreement.
Paid Relocation:	Reimbursement determined by Joint Powers Agreement between Dept of AG, FS and SD Office of Emergency Mgmt.
Notes:	Direct contact: Major Aaron Jordan, 605-737-6772 or Mstr. Sergeant Kevin Kreullen, 605-737-6636.
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

2. Cheyenne, WY

Active Military – Air Force (Warren Air Force Base)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Bell 212 UH-1N	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	No	Yes	2-3 Hours

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	315 miles (2.5 hours)
Refueling:	315 miles (2.5 hours)
Medical Personnel:	Flight Doctor
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	Direct contact: Ladd, 307-773-2001 or, 773-3921
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

3. Cheyenne, WY

Wyoming National Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Blackhawk (UH-60A)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	No	Yes	2-3 Hours

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	350 miles
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Medic may be on board, depends on staffing.
Paid Extended Staffing:	No.
Paid Relocation:	No.
Notes:	
Ordering Procedure:	GACC or 911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

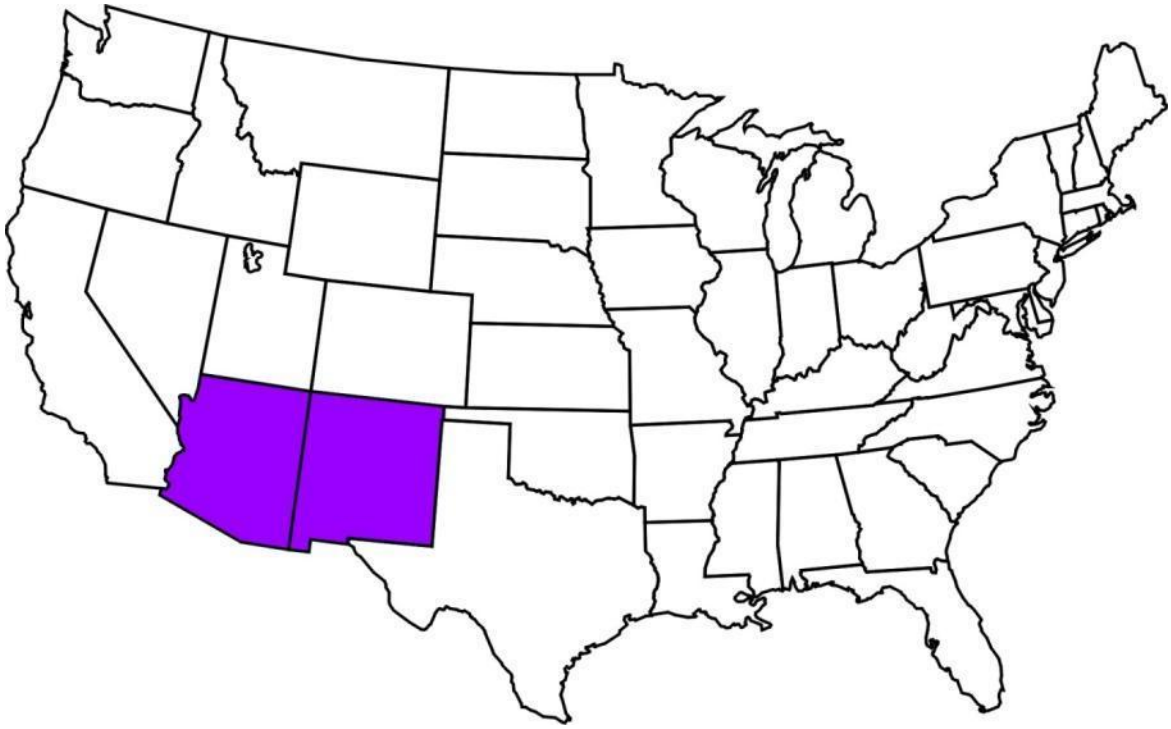
4. Aurora, CO

Colorado National Guard (Buckley Air Force Base)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Blackhawk (UH-60	Yes	150 mph

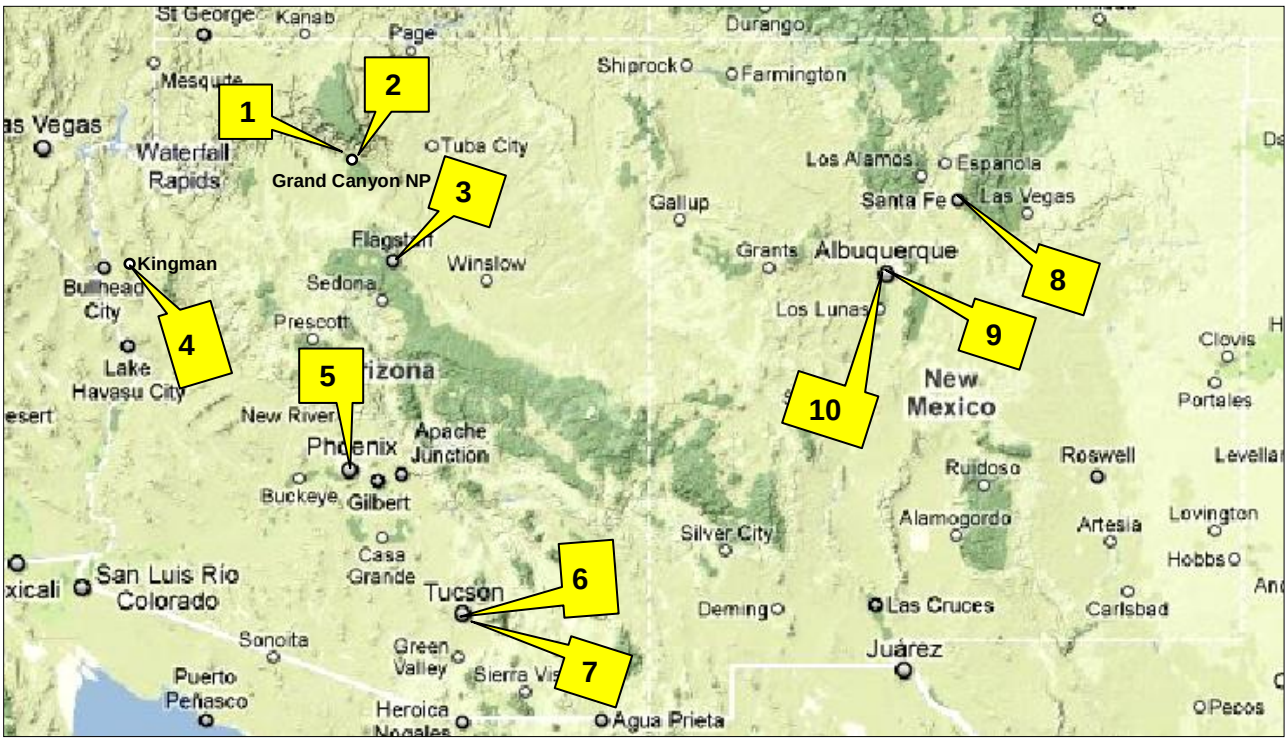
VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	1-1.5 Hours

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	350 miles
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Yes. Availability of medic determined by current staffing.
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	A heli-basket is available if requested.
Ordering Procedure:	GACC or 911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.



Southwestern Region

Helicopter Source Locations



1. **Grand Canyon, AZ** – *National Park Service (Short-haul)*
2. **Grand Canyon, AZ** – *National Park Service (Short-haul)*
3. **Flagstaff, AZ** – *Arizona Department of Public Safety (Short-haul)*
4. **Kingman, AZ** – *Arizona Department of Public Safety (Short-haul)*
5. **Phoenix, AZ** – *Arizona Department of Public Safety (Short-haul)*
6. **Tucson, AZ** – *Arizona Department of Public Safety (Short-haul)*
7. **Tucson, AZ** – *Active Military (Hoist)*
8. **Santa Fe, NM** – *New Mexico National Guard (Hoist)*
9. **Albuquerque, NM** – *Active Military (Hoist)*
10. **Albuquerque, NM** – *Bernalillo County Sherriff (Hoist)*

1. Grand Canyon, AZ

National Park Service

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
MD-900/207E	Yes	138 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	30 Minutes

Hoist Type:	None/Short-haul
Fuel Cycle:	2 Hours (280 Miles)
Refueling:	Can refuel @ FBOs (Jet-A). Also have fuel truck.
Medical Personnel:	EMT/Paramedic (includes Helitack support personnel)
Paid Extended Staffing:	Determined by flight request.
Paid Relocation:	Yes. Case-by case basis.
Notes:	This is a national fire resource helicopter. Available for long term assignment for national/regional incidents. Procurement can be initiated by MOU or incident "P" number. Check availability, may already be assigned to incident. Both helicopters are not available simultaneously.
Ordering Procedure:	Contact: Williams Dispatch Center (WDC), 928-635-8356, or Helicopter Program Manager Jay Lusher 928-606-3452 to check availability

2. Grand Canyon, AZ

National Park Service

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Bell 407	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	30 Minutes

Hoist Type:	None/Short-haul
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A). Also have fuel truck.
Medical Personnel:	EMT/Paramedic (includes Helitack support personnel)
Paid Extended Staffing:	Determined by flight request.
Paid Relocation:	Yes. Case-by case basis.
Notes:	This is a national fire resource helicopter. Available for long term assignment for national/regional incidents. Procurement can be initiated by MOU or incident "P" number. Check availability, may already be assigned to incident. Both helicopters are not available simultaneously.
Ordering Procedure:	Contact: Williams Dispatch Center (WDC), 928-635-8356, or Helicopter Program Manager Jay Lusher 928-606-3452 to check availability.

3. Flagstaff, AZ
4. Kingman, AZ
5. Phoenix, AZ
6. Tucson, AZ

Arizona Department of Public Safety

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
5 – Bell 407's	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	Yes	24/7

Hoist Type:	None/Short-haul
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBO's (Jet A). Have fuel trucks/trailer for each unit.
Medical Personnel:	Paramedic
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	State Emergency Response helicopters. Available for medical, SAR, and LE missions. Immediate short term fire suppression (Bambi Bucket).
Ordering Procedure:	Contact: AZ Dept. of Public Safety Dispatch (EMSCOM) 602-223-2208. Aviation Bureau 602-223-2535 business hours.

7. Tucson, AZ

Active Military - Air Force (Davis-Monthan Air Force Base)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Pavehawk (HH60)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	No	Yes	1-2 hours

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	300 miles
Refueling:	Can refuel @ FBOs (Jet-A). Possible In-flight refueling
Medical Personnel:	Paramedic
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No.
Notes:	Direct contact: 305 RQS, LtCol Steve White, phone #: 520-228-5290 or 520-940-1577.
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

8. Santa Fe, NM

New Mexico National Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Blackhawk (UH-60A)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	No	Yes	2-3 Hours

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	350 miles
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Medic may be on board, depends on staffing.
Paid Extended Staffing:	No.
Paid Relocation:	No.
Notes:	
Ordering Procedure:	GACC or 911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

9. Albuquerque, NM

Active Military - Air Force (Kirtland Air Force Base)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Pavehawk (HH60)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	No	Yes	1-2 hours

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	300 miles
Refueling:	Can refuel @ FBOs (Jet-A). Possible In-flight refueling
Medical Personnel:	Paramedic
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No.
Notes:	Direct contact: 512 RQS, LtCol Sheila Black, phone #: 505-846-6414.
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

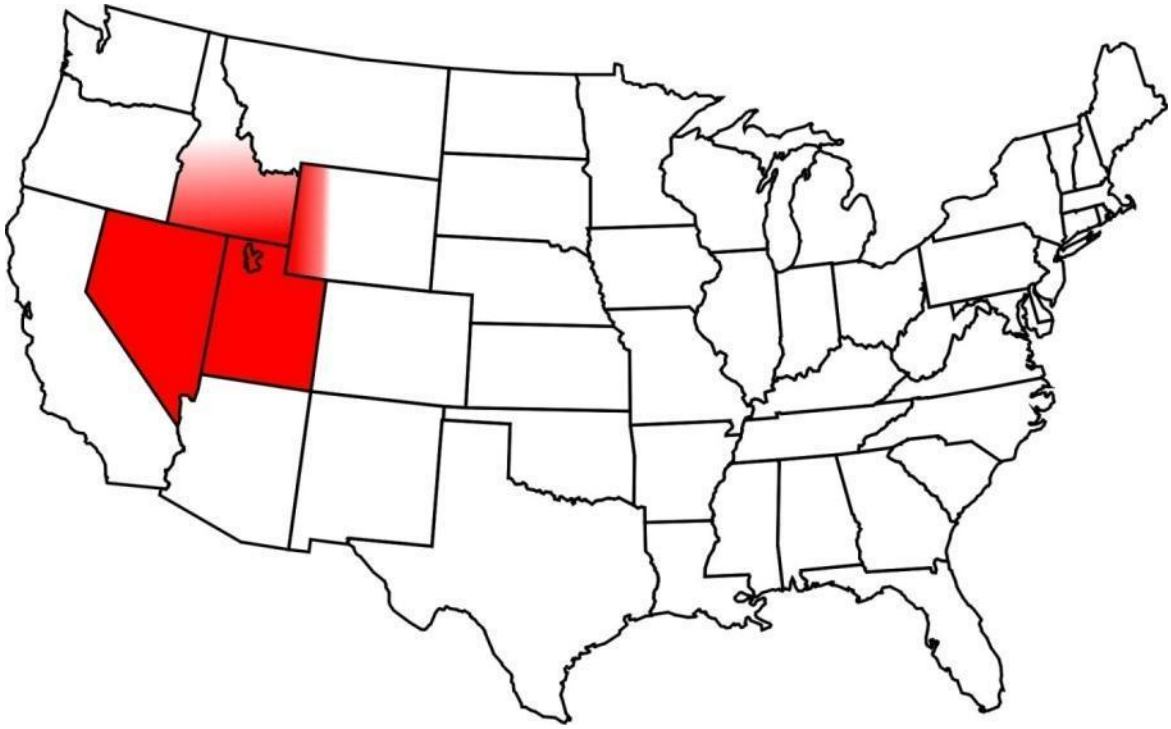
10. Albuquerque, NM

Bernalillo County Sheriff's Department

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Astar (AS350 B3)	Yes	138 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes Not Digital	No	1 Hour

Hoist Type:	Goodrich (Rated 400 lbs./250' cable)
Fuel Cycle:	2 Hours (280 Miles)
Refueling:	Can refuel @ FBOs (Jet-A). Also have fuel trailer.
Medical Personnel:	1st Responder/EMT
Paid Extended Staffing:	Determined by flight request.
Paid Relocation:	Possibly. Case-by case basis.
Notes:	
Ordering Procedure:	Contact: Bernalillo Sheriff's Dispatch Center, 505-798-7000 or Director of Helicopter Operations, Deputy Ralph Gonzales, 505-227-4098 or email, rgonzales@berno.gov to check availability.



Intermountain Region

Helicopter Source Locations

1. **Ogden, UT** - *Intermountain Life Flight (Hoist)*
2. **Provo, UT** - *Intermountain Life Flight (Hoist)*
3. **Teton NP, WY** – *National Park Service (Short-haul)*
4. **Jackson, WY** – *County SAR (Short-haul)*
5. **Boise, ID** - *ID National Guard (Hoist)*
6. **Las Vegas, NV –** *Las Vegas Metro Police Dept. (Hoist/Short-haul)*
7. **Las Vegas, NV -** *Active Military (Hoist)*
8. **Fallon, NV -** *Active Military (Hoist)*

1. Ogden, UT
2. Provo, UT

Intermountain Life Flight (hospital)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Augusta A109 (K2)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	Yes	30 Minutes

Hoist Type:	Goodrich (Rated 600 lbs./165' cable)
Fuel Cycle:	2 Hours (150 Miles from each base; Ogden, Provo)
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Flight Nurse or Paramedic
Paid Extended Staffing:	Available 24/7
Paid Relocation:	No
Notes:	Helicopters are stationed at McKay Dee Hospital in Ogden, Utah Valley Regional Medical Center in Provo, and Intermountain Medical Center in Salt Lake City. Have 2 helicopters..
Ordering Procedure:	Contact: Intermountain Life Fight Communication Center, 1-800-321-1911.

3. Teton NP, WY

National Park Service

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Astar (AS350 B3)	Yes	138 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	1 Hour

Hoist Type:	None/Short-haul
Fuel Cycle:	2 Hours (276 Miles)
Refueling:	Can refuel @ FBOs (Jet-A). Also have fuel truck.
Medical Personnel:	EMT/Paramedic (includes Helitack support personnel)
Paid Extended Staffing:	Determined by flight request.
Paid Relocation:	Yes. Case-by case basis.
Notes:	This is a national fire resource helicopter. May be available for long term assignment for national/regional incidents. Procurement can be initiated by MOU or incident "P" number. Check availability, may already be assigned to incident or limited to local area.
Ordering Procedure:	Contact: Eastern Great Basin Dispatch Center, 801-531-5320, or Teton National Park, 307-739-3333 to check availability.

4. Jackson, WY

Teton County SAR

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Bell 407	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	45 Minutes

Hoist Type:	None/Short-haul
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBO's (Jet A). Have fuel trucks/trailer for each unit.
Medical Personnel:	Paramedic/Physicians
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	Inter-state response.
Ordering Procedure:	Contact Doug Meyer, 307-413-0445 for availability.

5. Boise, ID

Idaho National Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Blackhawk (UH-60)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	1 Hour/Weekdays 4 Hours/Weekends

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	350 miles
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	No medical personnel aboard during the 2009 fire season due to overseas deployment. Likely in subsequent years.
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	Aircraft will deploy into Washington and Oregon for emergency rescues if tasked by ARFCC (see ordering procedures below). Information from Lt. Colonel Clemens @ phone #208-272-3984 (or flight ops #208-272-3976).
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

6. Las Vegas, NV

Las Vegas Metro Police Dept.

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
2-Bell 205 (UH-1H) Restricted 33MD 530F 1- Bell 407	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	Yes	1 Hour

Hoist Type:	Yes (Not Known)
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A).
Medical Personnel:	EMT
Paid Extended Staffing:	24/7
Paid Relocation:	
Notes:	Direct Contact: Sgt. Mike Petricka, 702-828-3552 to check availability.
Ordering Procedure:	911 dispatch center should coordinate request through appropriate GACC.

7. Las Vegas, NV

Active Military - Air Force (Nellis Air Force Base)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Pavehawk (HH60)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	No	Yes	1-2 hours

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	300 miles
Refueling:	Can refuel @ FBOs (Jet-A). Possible In-flight refueling
Medical Personnel:	Paramedic
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No.
Notes:	Direct contact: Base Operator, 702-652-1110, ask for Para-rescue Operations Officer
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

8. Fallon, NV

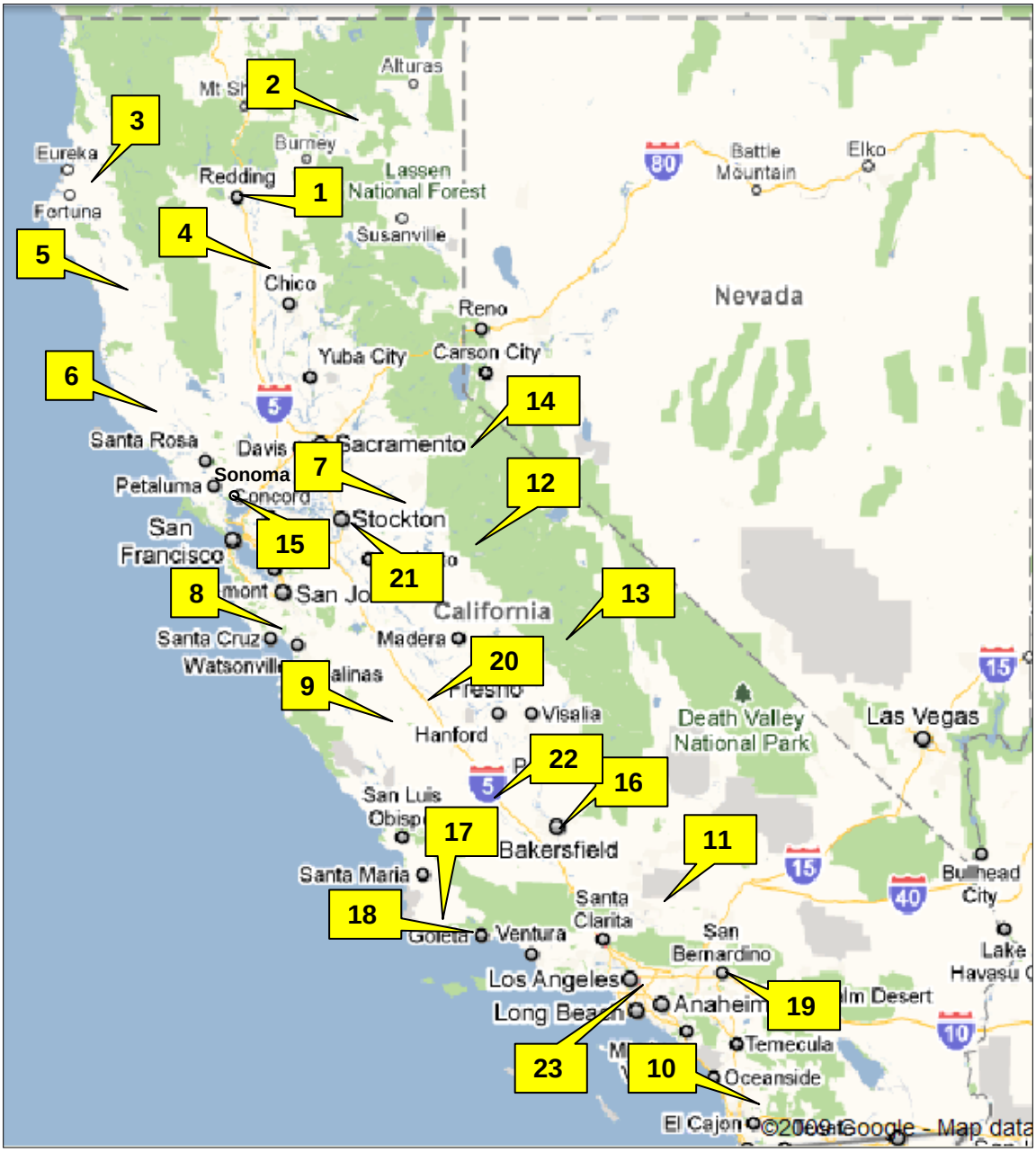
Active Military - Navy (Fallon Naval Air Station)

Make & Model			Perform @ 7000'/90° F.	Cruise Speed
Seahawk (HH-60)			Yes	144 mph
VFR	**IFR**	**FM Radio Programmable**	**VFR**	**IFR**
Yes	Yes	Yes	Yes	Yes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	300 miles
Refueling:	Can refuel @ FBOs (Jet-A). Prefer those w/ Govt. contract.
Medical Personnel:	EMT
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No
Notes:	
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

Pacific Southwest Region

Helicopter Source Locations



1. **Redding**-*CA Highway Patrol*
2. **Biebe**-*CalFire (Short-haul)*
3. **Kneeland**-*CalFire (Short-haul)*
4. **Vina**-*CalFire (Short-haul)*
5. **Howard Frst**-*CalFire (Shrt-hl)*
6. **Boggs Mtn**-*CalFire (Shrt-hl)*
7. **Columbia**-*CalFire (Shrt-hl)*
8. **Alma**-*CalFire (Shrt-hl)*
9. **Bear Valley**-*CalFire (Shrt-hl)*
10. **Gillespie**-*CalFire (Shrt-hl)*
11. **Prado**-*CalFire (Shrt-hl-)*
12. **Yosemite NP**-*NPS (Shrt-hl)*
13. **Seq/Kings NP**-*NPS (Shrt-hl)*
14. **Placerville**-*Sheriff (Shrt-hl)*
15. **Sonoma**-*Sheriff (Shrt-hl)*
16. **Bakerfield**-*Fire Dept .(Hoist)*
17. **Santa Ynez**-*Fire Dept .(Hoist)*
18. **Camarillo**-*Fire Dept .(Hoist)*
19. **San Bernardino**-*Sheriff (Hoist)*
20. **Mather**-*National Guard (Hoist)*
21. **Stockton**-*National Guard (Hoist)*
22. **Los Almts**-*National Guard (Hoist)*
23. **Orange Co**-*Fire Dept .(Hoist)*

1. Redding, CA

California Highway Patrol

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
A Star (AS 350-B3)	Yes	138 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	30 Minutes

Hoist Type:	Breeze Eastern (Rated 450 lbs./165' cable)
Fuel Cycle:	2 Hours (276 Miles)
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	1 Paramedic
Paid Extended Staffing:	Extended staffing provided
Paid Relocation:	No
Notes:	Can cross Oregon border for critical rescue missions. Pilot-Sgt. Steve Young (Phone #: 503-225-2040)
Ordering Procedure:	California Highway Patrol Communication Center @ Redding, CA – Phone #: 530-242-3210 (24 hrs/day). Air crew direct #: 530-225-2040.

2. Bieber, CA
3. Kneeland
4. Vina
5. Howard Forest
6. Boggs Mountain
7. Columbia
8. Alma
9. Bear Valley
10. Gillespie
11. Prado

Cal Fire (California Department of Forestry)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
11 Bell 205 (UH-1H) Restricted Super Huey	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	1 Hour

Hoist Type:	None/Short-haul
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A). Fuel truck??
Medical Personnel:	??
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	Cal Fire has helicopter bases throughout CA and is available for emergency use determined by location and need. For Northern CA, contact ONC GACC (24 hour #): 530-226-2800. Southern CA, contact OSC GACC (24 hour #): 951-276-6725.
Ordering Procedure:	911 dispatch center should coordinate requests through appropriate CA GACC.

12. Yosemite, CA

National Park Service

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Bell 205 ++	Yes	125 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	30 Minutes

Hoist Type:	None/Short-haul
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A). Also have fuel truck.
Medical Personnel:	EMT/Paramedic (includes Helitack support personnel)
Paid Extended Staffing:	Determined by flight request.
Paid Relocation:	Yes. Case-by case basis.
Notes:	Available for Inter-state response.
Ordering Procedure:	Contact: Yosemite Dispatch, 209-379-1999 or 209-379-1189 to check availability.

13. Sequoia and Kings Canyon National Parks, CA

National Park Service

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
AStar (AS350B2)	Yes	135 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	30 minutes

Hoist Type:	None/Short-haul
Fuel Cycle:	2.5 Hours (340 Miles)
Refueling:	Can refuel @ FBOs (Jet-A). Also have fuel truck.
Medical Personnel:	EMT/Park Medic (Can also provide Helitack support personnel)
Paid Extended Staffing:	Determined by flight request.
Paid Relocation:	Yes. Case-by case basis.
Notes:	This is a park fire/rescue helicopter. Available for short term assignment and local response. (about 50 mile radius from park boundary). Procurement can be initiated by local agreements or incident order request.
Ordering Procedure:	Contact: Southern California Geographic Area Coordination Center (OSC) 951-276-6725, or CA-KNP 24hr Dispatch, 559-565-3195 or normal hours fire dispatch 559-565-3164.

14. Placerville, CA

Placer County Sheriff

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Astar (AS350 B3)	Yes	138 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	45 Minutes

Hoist Type:	None/Short-haul
Fuel Cycle:	2 Hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A).
Medical Personnel:	EMT
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	Contact Placer Co. Air Operations, 530-885-1898 or 530-308-6015 for availability.
Ordering Procedure:	911 dispatch center should coordinate request through appropriate CA GACC.

15. Sonoma, CA

Sonoma County Sheriff

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Bell 407	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	Yes	30 Minutes

Hoist Type:	None/Short-haul
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBO's (Jet A). Have fuel trucks/trailer
Medical Personnel:	Paramedic
Paid Extended Staffing:	24/7
Paid Relocation:	No
Notes:	Contact Sonoma Co. Emergency Dispatch, 707-5652121 for availability.
Ordering Procedure:	911 dispatch center should coordinate request through appropriate CA GACC.

16. Bakersfield, CA

Kern County Fire Dept.

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
2 Bell 205 (UH-1H) Restricted	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	Yes	1 Hour

Hoist Type:	Yes (Not Known)
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A).
Medical Personnel:	EMT
Paid Extended Staffing:	24/7
Paid Relocation:	Willing to periodically release 1 helicopter.
Notes:	Contact: 661-896-1135 to check availability.
Ordering Procedure:	911 dispatch center should coordinate request through appropriate CA GACC.

17. Santa Ynez, CA

Santa Barbara County Fire Dept.

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
2 Bell 205 (UH-1H) Restricted	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	1 Hour

Hoist Type:	Yes (Not Known)
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A). Fuel truck & mechanic
Medical Personnel:	Paramedic/helitack
Paid Extended Staffing:	24/7
Paid Relocation:	Eager to deploy out of area for payment.
Notes:	
Ordering Procedure:	911 dispatch center should coordinate request through appropriate CA GACC.

18. Camarillo, CA

Ventura County Fire Dept.

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
3-Bell 205 1-Bell 212	Marginal	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	1 Hour

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A).
Medical Personnel:	Paramedic
Paid Extended Staffing:	Possibly
Paid Relocation:	Able to travel for payment case-by-case basis.
Notes:	Have limited crews, available for only few days.
Ordering Procedure:	911 dispatch center should coordinate request through appropriate CA GACC.

19. San Bernardino, CA

San Bernardino County Sheriff

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
6 AStar (AS350B3)/ 2 UH1H/1 B212	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	1 Hour

Hoist Type:	Goodrich (Rated 600 lbs./165' cable)
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A).
Medical Personnel:	EMT
Paid Extended Staffing:	Possibly
Paid Relocation:	Able to travel for payment case-by-case basis.
Notes:	
Ordering Procedure:	Contact: San Bernardino County Sheriff's Department Aviation Division, 909-356-3800.

20. Mather, CA
21. Stockton
22. Los Alamitos

California Army National Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
11 Blackhawk (UH-60- (different models)	Varies	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Could install, but need to request	Yes	2-3 Hours

Hoist Type:	Need advance notice to provide variable hoist models
Fuel Cycle:	250 miles
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Medical personnel may vary.
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	These 11 helicopters are in deployment rotation and available on a case-by-case basis. Direct contact: Lt. Colonel Lou Carmona, (o) 916-854-1403 or (c) 916-439-3545.
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

23. Orange County, CA

Orange County Fire Authority

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Bell 412 EP	Yes	125 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	Yes	30 min.

Hoist Type:	Goodrich, External (Rated 600lbs./250' cable)
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A). Agency fuel truck available upon request.
Medical Personnel:	EMT
Paid Extended Staffing:	Yes
Paid Relocation:	Possible
Notes:	Contact OCFA Emergency Command Center for availability 714-573-6500
Ordering Procedure:	Coordinate request through appropriate CA GACC.

Pacific Northwest Region

Helicopter Source Locations

1. **North Bend, OR** - *Coast Guard (Hoist)*
2. **Salem, OR** - *Oregon National Guard (Hoist)*
3. **Astoria, OR** - *Coast Guard (Hoist)*
4. **Port Angeles, WA** - *Coast Guard (Hoist)*
5. **Snohomish, WA** - *Snohomish County (Hoist/Short-haul)*
6. **Seattle, WA** - *King County (Hoist)*
7. **Spokane, WA** - *Air Force Survival School (Hoist)*
8. **Oak Harbor, WA**- *Whidbey Island NAS (Hoist)*
9. ***Marblemount, WA***- *National Park Service (Short-haul)*

1. North Bend, OR

Coast Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Dauphin (HH-65C)	No	143 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	No	Yes	30 Minutes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	240 miles (average)
Refueling:	Can refuel @ FBOs (Jet-A). Prefer those w/ Govt. contract.
Medical Personnel:	EMT (Rescue Swimmer)
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No
Notes:	May be tasked for inland rescue by the Air Force Rescue Coordination Center if no other resources are available. Seldom go east of the Interstate. Reluctant to put aircraft into active fire environment. Information provided by district # 13, Coast Guard Command Center (ph #: 206-220-7001; email: D13.cc@uscg.mil)
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

2. Salem, OR

Oregon National Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Blackhawk (UH-60A)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	2-3 Hours

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	350 miles
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Not Known
Paid Extended Staffing:	On Call (crew not always available). Contact Jim Ziobro, Staff Fire Aviation Specialist with Oregon Department of Forestry, for more information (phone # 503-945-7508, *email: jziobro@odf.state.or.us*)
Paid Relocation:	Through the use of "Operation Smokey". Contact Jim Ziobro, Staff Fire Aviation Specialist with Oregon Department of Forestry, for more information (phone # 503-945-7508, *email: jziobro@odf.state.or.us*)
Notes:	On loan from the Idaho National Guard for summer of 2009 while OR aircraft are deployed overseas. Only capable of performing a rescue and transporting patient to closest medical personnel during 2009 fire season. For more information contact: Major Mark Ulvin - phone #: 503-580-8320.
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

3. Astoria, OR

Coast Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Jayhawk (HH-60J)	Yes	144 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	30 Minutes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	300 miles
Refueling:	Can refuel @ FBOs (Jet-A). Prefer those w/ Govt. contract.
Medical Personnel:	EMT (Rescue Swimmer)
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No
Notes:	May be tasked for inland rescue by the Air Force Rescue Coordination Center if no other resources are available. Seldom go east of the Interstate. Reluctant to put aircraft into active fire environment. Information provided by district # 13, Coast Guard Command Center (ph #: 206-220-7001).
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

4. Port Angeles, WA

Coast Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Dolphin (Dauphin HH-65C)	No	143 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	No	Yes	30 Minutes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	240 miles (average)
Refueling:	Can refuel @ FBOs (Jet-A). Prefer those w/ Govt. contract.
Medical Personnel:	EMT (Rescue Swimmer)
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No
Notes:	May be tasked for inland rescue by the Air Force Rescue Coordination Center if no other resources are available. Seldom go east of the Interstate. Reluctant to put aircraft into active fire environment. Information provided by district # 13, Coast Guard Command Center (ph #: 206-220-7001; email: D13.cc@uscg.mil)
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

5. Snohomish, WA

Snohomish County

Make & Model			Perform @ 7000'/90° F.	Cruise Speed
Bell 205 (UH-1H)			Marginal	126 mph
VFR	**IFR**	**FM Radio Programmable**	**Night Vision Goggles (NVG)**	**Order Response Time**
Yes	No	Yes /non programmable	No	1 Hour

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	315 miles (2.5 hours)
Refueling:	Can refuel @ FBOs (Jet-A). Also have fuel truck.
Medical Personnel:	1 Paramedic (Also short-haul trained)
Paid Extended Staffing:	Yes
Paid Relocation:	Yes
Notes:	Snohomish County would be receptive to entering into an agreement that would allow pre-positioning of the aircraft closer to ongoing incidents in exchange for payment. For further information contact Captain Tim Shea @ phone #425-388-3913 (email: tim.shea@co.snohomish.wa.us) Chief pilot – Bill Quistors @ cell # 425-754-5489 (email: William.quistors@co.snohomish.wa.us).
Ordering Procedure:	911 dispatch center should coordinate through Washington Emergency Operations Center, phone #: 800-258-5990.

6. Seattle, WA

King County

Make & Model			Perform @ 7000'/90° F.	Cruise Speed
Bell 205 (UH-1H)			Marginal	126 mph
VFR	**IFR**	**FM Radio Programmable**	**Night Vision Goggles (NVG)**	**Order Response Time**
Yes	No	Yes	Yes	1 Hour

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	315 miles (2.5 hours)
Refueling:	Can refuel @ FBOs (Jet-A).
Medical Personnel:	No medical personnel/provide rescuer for lowering/raising.
Paid Extended Staffing:	Yes
Paid Relocation:	No
Notes:	Further discussion contact: Capt Johanknecht – phone #: 206-205-8251 or Chief Pilot Keith Potter - phone #: 206-296-2740.
Ordering Procedure:	911 dispatch center should coordinate through Washington Emergency Operations Center, phone #: 800-258-5990.

7. Spokane, WA

Air Force Survival School

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Bell 212 (UH-1N)	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	1 Hour

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	315 miles (2.5 hours)
Refueling:	Can refuel @ FBOs (Jet-A).
Medical Personnel:	No medical personnel
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

8. Oak Harbor, WA

Whidbey Island Naval Air Station

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Knighthawk (MH-60S)	Yes	144 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	30 Minutes

Hoist Type:	Goodrich (Rated 600 lbs./200' cable)
Fuel Cycle:	300 miles
Refueling:	Can refuel @ FBOs (Jet-A). Prefer those w/ Govt. contract.
Medical Personnel:	EMT (Rescue Swimmer)
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No
Notes:	
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

9. North Cascades NP

National Park Service

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
MD 500D	Yes/Marginal	122 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	1 Hour

Hoist Type:	None/Short-haul
Fuel Cycle:	2 hours (250 miles)
Refueling:	Fuel truck travels with helicopter
Medical Personnel:	All short-haulers/spotters are EMT/B
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	This short-haul resource is restricted to local response (Mount Baker, Okanogan, Wenatchee, Olympic Colville).
Ordering Procedure:	Contact: North Cascades Dispatch, 360-854-7249 to check availability.

Southern Region

Helicopter Source Locations

1. **Austin, TX** – *Travis County Public Safety (Hoist)*
2. **Lake Charles, LA** – *Priority 1 Air Rescue (Hoist)*
3. **Cherry Point, NC** – *Active Military (Hoist)*
4. **Elizabeth City, NC** – *Coast Guard (Hoist)*
5. **Salisbury, NC -** *National Guard (Hoist)*
6. **Austin, TX –** *Texas Department of Public Safety (Hoist)*
7. **Alpine, TX -** *Texas Department of Public Safety (Hoist)*
8. **Longview, TX -** *Texas Department of Public Safety (Hoist)*
9. **Albany, GA –** *Georgia Aviation Authority (Short-haul)*
10. **Athens, GA-** *Georgia Aviation Authority (Short-haul)*
11. **Atlanta, GA** - *Georgia Aviation Authority (Short-haul)*
12. **Marietta, GA** - *Georgia Aviation Authority (Short-haul)*
13. **Kennesaw, GA** - *Georgia Aviation Authority (Hoist)*
14. **Dahlonega, GA** – *Active Army (Hoist)*
15. **Jacksonville, FL** – *Active Navy (Hoist)*
16. **Miami-Dade, FL** – *Miami-Dade Fire Rescue (Hoist)*

1. Austin , TX

Travis County Public Safety, Shock Trauma Air Rescue (STAR)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Eurocopter (EC-145)	Yes	153 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	No	15 minutes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	2 Hours (350 miles)
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Paramedic/Flight Nurse/Advanced Life Support
Paid Extended Staffing:	24/7
Paid Relocation:	No
Notes:	Will respond to emergencies within 19 county response area surrounding Austin, TX.
Ordering Procedure:	911 dispatch center should coordinate through STAR Communication Center: 1-800-531-7827.

2. Nationwide/ Lake Charles, LA

Era Helicopters & Priority 1 Air Rescue

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Augusta (AW-139) or Bell 212/412	Yes Marginal 212/412	180 mph 130/140 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	No	30 minutes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	2 Hours (350 miles)
Refueling:	Can refuel @ FBOs (Jet-A) Can provide fuel truck if requested.
Medical Personnel:	EMT/Paramedic
Paid Extended Staffing:	Yes.
Paid Relocation:	Yes. This is a full service commercial source now available that is FAA Part 133, Class D certified.
Notes:	Era Helicopters, through a teaming arrangement with Priority 1 Air Rescue Inc. (P1AR), now offers FAA-approved full-service Search and Rescue (SAR) and Emergency Medical Services capability and turnkey solutions to meet government needs.
Ordering Procedure:	Currently there is not a procurement mechanism in place to utilize services. For additional information contact: Era Helicopters, or Priority 1 Air Rescue, http://www.erahelicopters.com/e4/e1655/index_eng.html, or http://www.priority1airrescue.com/SARMedevac.html, Phone: Era, 337-478-6131 or P1AR (Brad Matheson) 360-305-1796.

3. Cherry Point, NC

Active Military (Marine Corps Air Station)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
CH-46	Yes	155 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
yes	No	No	No	2-3 Hours

Hoist Type:	Yes
Fuel Cycle:	2 Hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	EMT
Paid Extended Staffing:	No
Paid Relocation:	Within county only, case-by-case basis.
Notes:	Direct contact: Duty Officer, 252-466-2233
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

4. Elizabeth City, NC

Coast Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Jayhawk (HH-60J)	Yes	144 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	30 Minutes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	300 miles
Refueling:	Can refuel @ FBOs (Jet-A). Prefer those w/ Govt. contract.
Medical Personnel:	EMT (Rescue Swimmer)
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No. Case-by-case basis
Notes:	Direct contact: Duty Officer, 252-335-6333 or 5th Coast Guard District, Portsmouth, VA, 757-398-6333.
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

5. Salisbury, NC

North Carolina National Guard/NC Helicopter & Aquatic Rescue Team (NCHART)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Blackhawk (UH-60L)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	1.5 Hours

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	2 Hours (300 miles)
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	EMT
Paid Extended Staffing:	Yes
Paid Relocation:	Yes, coordinate through AFRCC.
Notes:	NCNG/NCHART can provide wilderness/water rescue using either hoist or short-haul.
Ordering Procedure:	911 dispatch center should coordinate requests through the North Carolina Emergency Operations Center (EOC) at phone #: 800-858-0368 (24-hour). They will coordinate through the Air Force Rescue Coordination Center (AFRCC).

6. Austin,, TX
7. Alpine, TX
8. Longview, TX

Texas Department of Public Safety

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
2-AStar (AS350-B3) 1-Eurocopter (EC-145)	Yes	138 mph 153 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	State mutual aid freqs.	Yes	1 Hour

Hoist Type:	Goodrich (Rated 400 lbs./250' cable)
Fuel Cycle:	2 Hours (350 miles)
Refueling:	Can refuel @ FBOs (Jet-A). Have fuel trailers for extended use.
Medical Personnel:	No
Paid Extended Staffing:	No
Paid Relocation:	Case-by-case basis
Notes:	TX DPS has a total of 15 helicopters, 3 with hoist capability, prepositioned around the state.
Ordering Procedure:	911 dispatch center should coordinate requests through TX DPS dispatch at phone #: 512-424-7391.

9. Albany, GA
10. Athens, GA
11. Atlanta, GA
12. Marietta, GA

Georgia Aviation Authority

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Bell 407	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	Yes	1 Hour

Hoist Type:	None/Short-haul
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBO's (Jet A). Have fuel trucks/trailer if needed.
Medical Personnel:	No
Paid Extended Staffing:	No
Paid Relocation:	Possibly, under Georgia Mutual Aid Agreement
Notes:	Inter-state response.
Ordering Procedure:	911 dispatch center should coordinate requests through Georgia Aviation Authority dispatch at phone #: (day) 404-699-4483, (night) 404-624-6077.

13. Kennesaw, GA

Georgia Aviation Authority

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
(2) Bell 205 (UH-1H)	Marginal	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	Yes	1 Hour

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBO's (Jet A). Have fuel trucks/trailer if needed.
Medical Personnel:	No
Paid Extended Staffing:	No
Paid Relocation:	Possibly, under Georgia Mutual Aid Agreement
Notes:	Inter-state response.
Ordering Procedure:	911 dispatch center should coordinate requests through Georgia Aviation Authority dispatch at phone #: (day) 404-699-4483, (night) 404-624-6077.

14. Dahlonega, GA

Army 5th Ranger Training Battalion

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
UH-72 (Eurocopter EC-145)	Yes	153 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	15 minutes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBO's (Jet A).
Medical Personnel:	Medic/EMT
Paid Extended Staffing:	No
Paid Relocation:	No
Notes:	Limited use. On standby for Army Ranger training battalion.
Ordering Procedure:	911 dispatch center should coordinate requests through Camp Frank D. Merrill phone #: 706-864-3367 (extension 238 or 234).

15. Jacksonville, FL

Jacksonville Naval Air Station

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Seahawk (MH-60R)	Yes	144 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	30 Minutes

Hoist Type:	Goodrich (Rated 600 lbs./200' cable)
Fuel Cycle:	300 miles
Refueling:	Can refuel @ FBOs (Jet-A).
Medical Personnel:	EMT (Rescue Swimmer)
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No
Notes:	
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

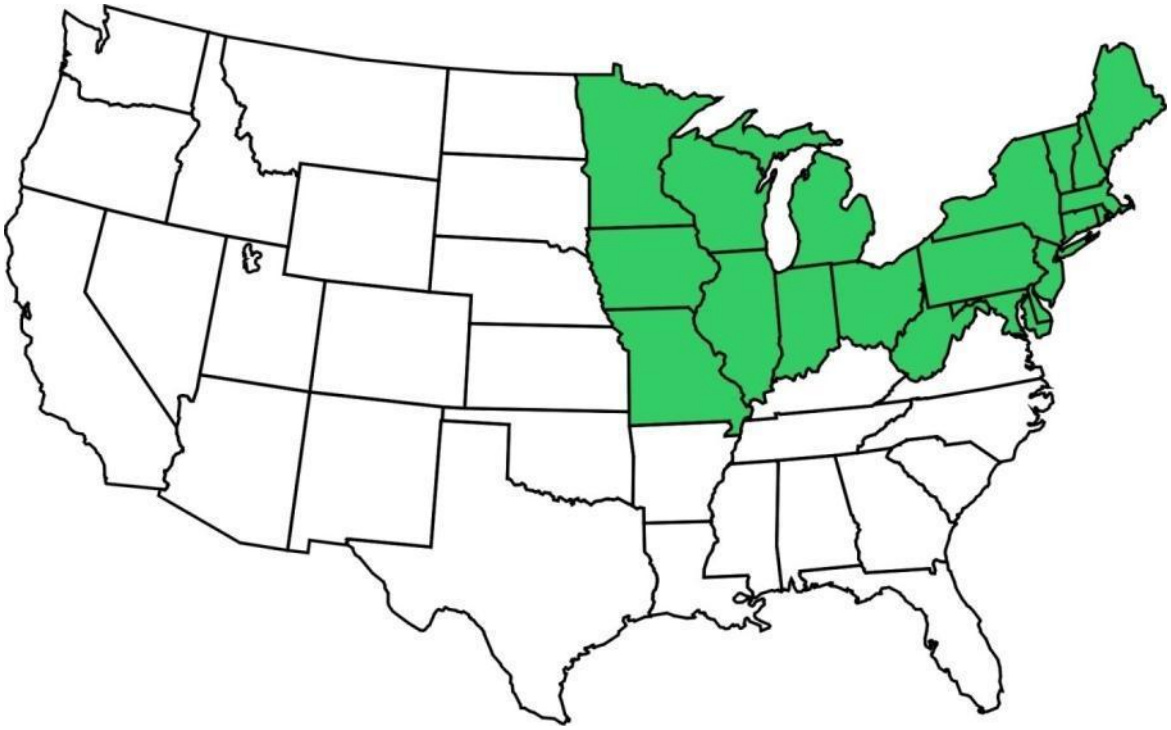
16. Miami-Dade, FL

Miami-Dade Fire Rescue (Tamiami & Opa-locka airports)

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
(4) Bell 412 EP	Yes	125 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	Yes	30 min.

Hoist Type:	Goodrich, External (Rated 600lbs./250' cable)
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A).
Medical Personnel:	EMT
Paid Extended Staffing:	Yes
Paid Relocation:	No
Notes:	When you dial 911 from a land line in Miami-Dade County, it gets routed to the appropriate regional 911 receiving center. The address that you are calling from will automatically come up in the system, but the operator will ask you for the address anyway for verification, and in case the emergency is not at the exact location that you are calling from.
Ordering Procedure:	911 dispatch center should coordinate requests through 911 Miami-Dade County Dispatch.



Eastern Region

Helicopter Source Locations

1. **Saint Paul, MN** – *Minnesota State patrol (Short-haul)*
2. **Aitkin, MN** – *Minnesota State patrol (Short-haul)*
3. **St. Cloud, MN** – *Minnesota National Guard (Hoist)*
4. **Howell, MI** – *Construction Helicopters (Hoist)*
5. **Traverse City, MI** – *Coast Guard (Hoist)*
6. **Ft. Indiantown Gap, PA** – *Pennsylvania National Guard (Hoist)*
7. **Statewide, MD (8 Helicopters)** – *Maryland State Police (Hoist)*
8. **Washington DC** – *US Park Police (Hoist)*
9. **Statewide, NY** – **(13 Helicopters)** *New York State Police (Hoist)*
10. **Bangor, ME** – *Maine National Guard (Hoist)*

1. Saint Paul, MN
2. Aitkin, MN

Minnesota State Patrol, Department of Public Safety

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Bell 407 & Bell L4	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	30-45 minutes

Hoist Type:	No Hoist/Short-haul
Fuel Cycle:	2 hours (250 miles)
Refueling:	Can refuel @ FBO's (Jet A).
Medical Personnel:	2 Paramedics
Paid Extended Staffing:	In-state/Intra-state with Governors approval.
Paid Relocation:	Case-by-case, short term assignments have been performed in the past. Cooperative agreement in place through MN Dept. of Natural Resources (MNDNR).
Notes:	Response time is approximately 1 hour from Aitkin, 2 hours from Saint Paul to Ely air Attack Base, Superior NF.
Ordering Procedure:	911 dispatch center should coordinate requests through DPS Dispatch: 651-582-1509 or 651-296-3170. Direct contact to Chief Pilot, John Mock: 651-296-2811.

3. St. Cloud, MN

Minnesota National Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Blackhawk (UH-60)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	2-3 hours

Hoist Type:	Goodrich (Rated 600 lbs/250' cable) 2 units have hoists. Must request hoists.
Fuel Cycle:	350 miles
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Flight Medics
Paid Extended Staffing:	24/7
Paid Relocation:	Case-by-case. MIFC agreement through Dept of Emergency Management or MNDNR.
Notes:	Direct contact: Holman Field, SFC Stacey Haak, 651-281-2404, or cell, 763-670-5308.
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

4. Howell, MI

Construction Helicopters

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Sikorky (S58T)	Yes	126 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	2 Hours

Hoist Type:	Hoist
Fuel Cycle:	2 Hours (250 miles)
Refueling:	Can refuel @ FBOs (Jet-A). Fuel truck & mechanic
Medical Personnel:	As assigned by local authorities.
Paid Extended Staffing:	Yes
Paid Relocation:	Yes, Exclusive use and CWN contract.
Notes:	1 hour response time from the Huron Manistee NF Direct contact: Jim Russel, 734-438-6362
Ordering Procedure:	Contact Eastern Area Coordination Center, phone #: 612-713-7300

5. Traverse City, MI

Coast Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
5 Dolphins (Dauphin HH-65C)	No	143 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	30 Minutes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	240 miles (average)
Refueling:	Can refuel @ FBOs (Jet-A). Prefer those w/ Govt. contract.
Medical Personnel:	EMT (Rescue Swimmer)
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No
Notes:	May be tasked for inland rescue by the Air Force Rescue Coordination Center if no other resources are available. Available in Great Lakes area on case-by-case basis. Direct contact: Officer on Duty, 231-922-8210.
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

6. Fort Indiantown Gap, PA

Pennsylvania National Guard

Make & Model			Perform @ 7000'/90° F.	Cruise Speed
Blackhawk (UH-60)			Yes	150 mph
VFR	**IFR**	**FM Radio Programmable**	**Night Vision Goggles (NVG)**	**Order Response Time**
Yes	Yes	No	No	2-3 hours

Hoist Type:	Goodrich (Rated 600 lbs/250' cable)
Fuel Cycle:	2 Hours (300 miles)
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Not Known
Paid Extended Staffing:	No
Paid Relocation:	Case-by-case. Governor's approval.
Notes:	Availability determined by overseas deployments.
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

7. Maryland Statewide

Maryland State Police

Make & Model			Perform @ 7000'/90° F.	Cruise Speed
(8) Eurocopter (Dauphin-AS365N1)			Marginal	161 mph
VFR	**IFR**	**FM Radio Programmable**	**Night Vision Goggles (NVG)**	**Order Response Time**
Yes	Yes	Yes	Yes	30 minutes

Hoist Type:	Goodrich (Rated 600 lbs./295' cable)
Fuel Cycle:	2 Hours (300 miles)
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Flight Paramedic
Paid Extended Staffing:	24/7
Paid Relocation:	No.
Notes:	Maryland State Police (MSP) has 8 helicopters throughout the state located at: Baltimore, Forestville, Frederick, Salisbury, Centreville, California, Sandy Spring and Wiley Ford, WV.
Ordering Procedure:	911 dispatch center should coordinate requests through MSP SYSCOM Dispatch: 800-468-5090 or 410-706-8080/81/82

8. Washington DC

U.S. Park Police

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
(2) Bell 412's	Marginal	140 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	No	30 Minutes

Hoist Type:	Goodrich (Rated 600 lbs/250' cable)
Fuel Cycle:	2 Hours (250 Miles)
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Paramedic
Paid Extended Staffing:	24/7
Paid Relocation:	No
Notes:	
Ordering Procedure:	911 dispatch center should coordinate requests through USPP Officer-On-Duty, 202-690-0773:

9. New York Statewide

New York State Police

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Bell 430/407 UH-1	Marginal	161 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	30 Minutes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	2 Hours (300 miles)
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	Paramedic
Paid Extended Staffing:	24/7
Paid Relocation:	No
Notes:	New York State Police has 13 helicopters throughout the state located at 5 stations, Albany, Saranac Lake, Newburgh, Syracuse and Batavia.
Ordering Procedure:	911 dispatch center should coordinate requests through New York State 911 number.

10. Bangor, ME

Maine National Guard

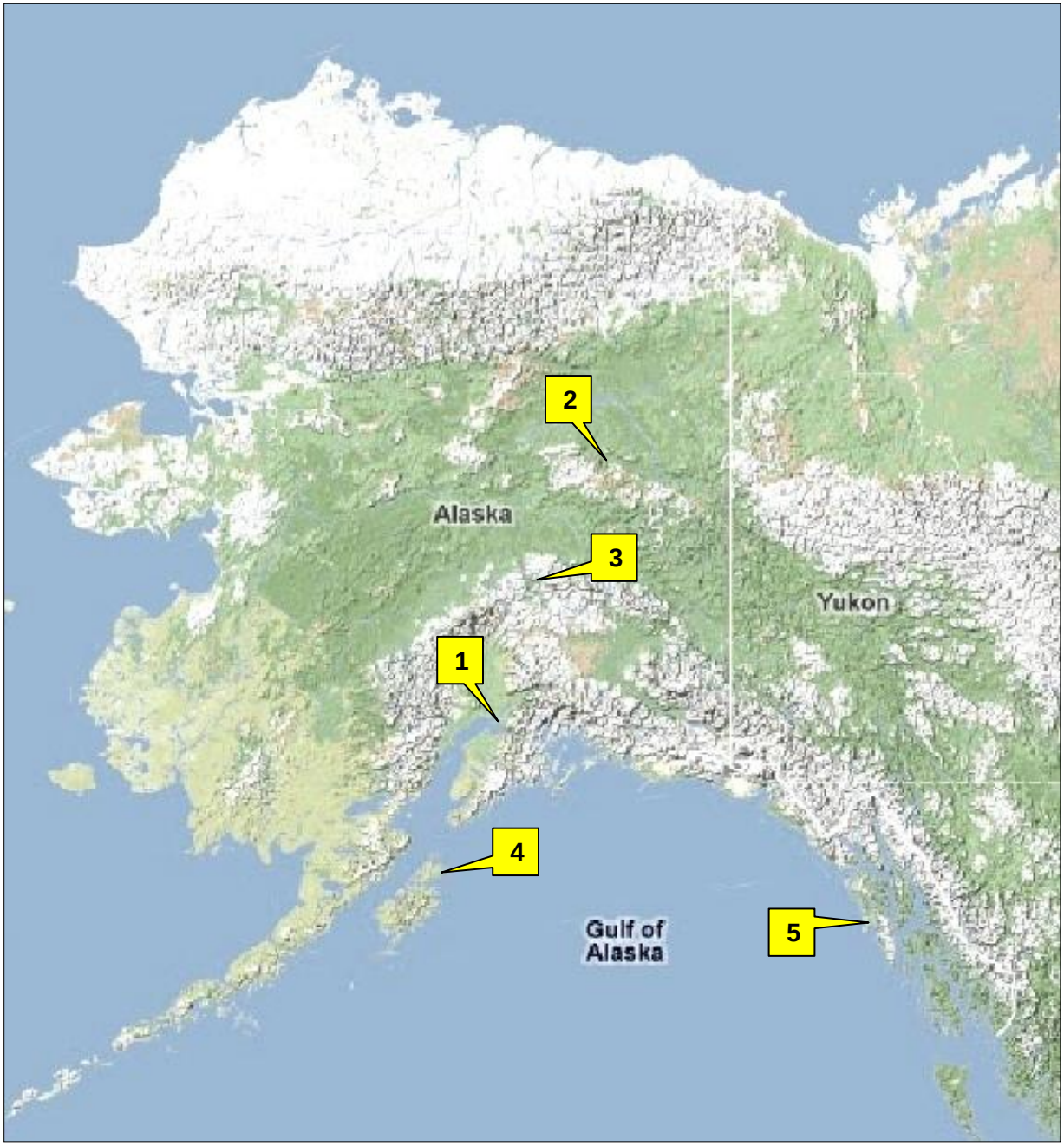
Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Blackhawk (UH-60)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	No	No	2-3 hours

Hoist Type:	Goodrich (Rated 600 lbs/250' cable)
Fuel Cycle:	2 Hours (300 miles)
Refueling:	Can refuel @ FBOs (Jet-A)
Medical Personnel:	???
Paid Extended Staffing:	???
Paid Relocation:	Case-by-case. Governor's approval.
Notes:	Availability determined by overseas deployments. Direct contact: 207-735-110
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, and National Guard resources through the Air Force Rescue Coordination Center (AFRCC) at phone #: 800-851-3051.

Alaska Region

Helicopter Source Locations



1. **Anchorage, AK** – *Alaska Air National Guard (Hoist)*
2. **Fairbanks, AK** – *Alaska Air National Guard (Hoist)*
3. **Denali NP** – *National Park Service (Short-haul)*
4. **Kodiak, AK** – *Coast Guard (Hoist)*
5. **Sitka, AK** – *Coast Guard (Hoist)*

1. Anchorage, AK
2. Fairbanks, AK

Alaska Air National Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Pavehawk (HH60)	Yes	150 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	1-2 hours

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	300 miles
Refueling:	Can refuel @ FBOs (Jet-A). Possible In-flight refueling
Medical Personnel:	Paramedic
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No.
Notes:	
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, National Guard and National Park Service resources through the 11th Rescue Coordination Center (RCC), Elmendorf AFB, Fairbanks, AK at phone #: 800-420-7230 or 907-551-7230.

3. Denali NP

National Park Service

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Astar (AS350 B3)	Yes	138 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	No	Yes	No	1 Hour

Hoist Type:	None/Short-haul
Fuel Cycle:	2 Hours (276 Miles)
Refueling:	Can refuel @ FBOs (Jet-A). Also have fuel truck.
Medical Personnel:	EMT (includes Helitack support personnel)
Paid Extended Staffing:	Determined by flight request.
Paid Relocation:	Yes. Case-by case basis.
Notes:	
Ordering Procedure:	Contact: Denali Communications Center, 907-683-9555, or South District Ranger, John Leonard, 907-733-2231, to check availability.

4. Kodiak, AK
5. Sitka, AK

Coast Guard

Make & Model	Perform @ 7000'/90° F.	Cruise Speed
Jayhawk (HH-60J)	Yes	144 mph

VFR	IFR	FM Radio Programmable	Night Vision Goggles (NVG)	Order Response Time
Yes	Yes	Yes	Yes	30 Minutes

Hoist Type:	Goodrich (Rated 600 lbs./250' cable)
Fuel Cycle:	300 miles
Refueling:	Can refuel @ FBOs (Jet-A). Prefer those w/ Govt. contract.
Medical Personnel:	EMT (Rescue Swimmer)
Paid Extended Staffing:	Extended staffing provided (24 hrs/Day)
Paid Relocation:	No. Case-by-case basis
Notes:	For SE AK may also contact USCG Juneau Command at: 800-478-5555.
Ordering Procedure:	911 dispatch center should coordinate requests for military, Coast Guard, National Guard and National Park Service resources through the 11th Rescue Coordination Center (RCC), Elmendorf AFB, Fairbanks, AK at phone #: 800-420-7230 or 907-551-7230.

Appendix 1 EHE Source List Template

Below is a template of the format being utilized for this document, please fill in information as described in the table. If you would like additional information or have questions, contact:

National Helicopter Support Specialist (208) 387-5634
USDA-Forest Service
3833 S. Development Ave.
Boise, ID 83705-5398
vince_welbaum@fs.fed.us

Location of Helicopter

Organization					
If Available Insert Photograph of Helicopter Make & Model	**Make & Model**			**Perform @ 7000'/90° F.**	**Cruise Speed**
	VFR	**IFR**	**FM Radio Programmable**	**Night Vision Goggles (NVG)**	**Order Response Time**

Hoist Type:	
Fuel Cycle:	
Refueling:	
Medical Personnel:	
Paid Extended Staffing:	
Paid Relocation:	
Notes:	
Ordering Procedure:	

Appendix 2 EHE Mission Planning

The following information was compiled by the Intermountain Healthcare Life Flight Program, Salt Lake City, UT and is intended to assist those involved in mission planning for an emergency extraction.

Their website states, “A hoist rescue is a great tool for extracting patients from challenging environments however this type of operation does have some limitations. Good communication between the requesting agency and Life Flight is critical in creating a plan to best serve all agencies and the patient safely.”

For additional information go to their website:
http://intermountainhealthcare.org/services/lifeflight/about/teams/Pages/hoist.aspx

Minor revisions have been incorporated into the information to fit the audience.

Mission planning should begin with these types of questions:

- What is the nature of the intended short-haul/hoist rescue?
- What is the weather at the scene?
- What do you want the rescuer to do?
- What is the plan if the rescuer cannot complete the mission?
- Patient information (i.e. location, mechanism of injury, condition, anyone with the patient, contact)
- Is there a Command Post (location, IC contact, radio frequencies)?
- Is SAR at the scene or deployed?
- Is there a landing area (near the patient, near the Command Post)?
- Where is the nearest location for jet fuel?
- Is there anything else you want us to do before we leave the area?

Factors That Limit Hoist Operations:

- Winds are greater than 20 mph, poor visibility, or severe weather.
- If total weight of patient and equipment exceeds 450 lbs.
- Hoist operations are not conducted at night.
- Over water.

We may not be able to complete a short-haul/hoist mission if:

- There are unresolved communications issues or safety problems.
- Near dusk.
- Patient location requires technical rescue.
- There’s avalanche potential at patient location

Initial Short-haul/Hoist Risk Assessment:

- Life threatening injury or illness.
- Time dependent injury.
- Ground evacuation may endanger patient and/or other personnel.
- Ground evacuation would be time consuming.
- Ground evacuation is not possible.
- No landing area near the patient.

TOMAS

Terrain: (Alpine, forest, slope, snow, etc.) When possible, establish a nearby alternate landing area.
Obstacles: (Trees, cliffs, rock scree, loose debri, dust, wires, limited daylight, rotor wash, etc.)
Method: (net, bag, litter, harnesses, tag line, etc.) Logistics, type of insertion/extraction.
Alternatives: Standby and/or assist SAR with a ground rescue, land near victim.
Safety: Team reviews available information and identifies concerns. Determines “Go/No Go” decision and justifies why.