

Uintah Basin Interagency Radio Users Guide



Revised 2/7/2013

UINTAH BASIN INTERAGENCY RADIO USERS GUIDE 2013

The Uintah Basin Interagency Radio Users Guide gives direction and instructions on the proper use of radios. If it is followed closely, a user will get the most out of the radio system.

It is very important for all persons going into the field to have communications with **Uintah Basin Interagency Fire Center (UBIFC)** at all times. In case of an emergency, radio communications will often be your only link to help.

Due to broken terrain, there will always be some areas you can not talk from. Mostly these are canyons, other areas of low terrain and areas where mountains are between you and the station you are calling. Some areas will have limited coverage, i.e., a mobile radio will work while a handheld will not. A few areas have no coverage and not even a mobile unit will work. Because of different radio types, power outputs, antenna types and the mountainous terrains, a radio coverage map is very difficult to draw up with any accuracy. Always check with your supervisor when going into questionable or new areas to determine if there might be problems with communications. When in doubt, conduct a "RADIO CHECK" with **UBIFC**.

RADIO OPERATION

1. Turn power "on" with on/off volume switch.
2. Turn squelch control until noise is heard in speaker, Set volume control to desired level then turn squelch control until speaker noise just quiets. On units with no squelch control, such as the King mobiles, press the "MONITOR" button to receive the noise and then set the volume to desired level.
3. Turn channel switch to the channel you want to receive and transmit on.

4. If you want to scan other frequencies, depress the "SCAN" button or select scan with "SCAN" switch. If so desired, select Priority channel to be monitored. Delete those channels you don't want to monitor.

If you have questions on operation of any part of your radio, contact your supervisor or the Communication Specialist.

UINTAH BASIN INTERAGENCY RADIO USERS GUIDELINES

In order to promote cooperation, good communications and short concise radio traffic, the following rules and practices shall be observed:

- All radio users must make every effort to handle all fire and emergency traffic in a modulated voice speaking slowly and clearly, and to keep emotions out of the voice. These emotions are transmitted right along with the message and only serve to excite the receiver and other personnel. Stay in contact with the dispatch office during emergency situations.
- When receiving a call while busy with another unit, break in and ask the calling station to stand by. Otherwise, considerable interference may develop from repeated calls and the calling unit may conclude his transmitter is out of order.
- Keep your lips a distance of not more than 1 inch from the face of the microphone at all times. Direct the voice across the face of mic rather than directly into it. Speak clearly, distinctly, and rather slowly and do not move your head back and forth and do not shout.
- When using a portable in the field, hold radio stationary. Do not transmit while walking. If the receiving station says they are receiving poorly, move the radio around or try a new location. Keep the radio upright with the antenna vertical. After establishing good contact, don't move from that location. With low powered portables, moving just a few feet will sometimes improve the communications or possibly cause them to get worse.

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- Long messages and conversations should be broken up into 30 second intervals by saying "Break", then waiting 10 seconds before resuming transmission. This accomplishes two things:
 1. It allows the station copying to assure that it understands the message, or if not, to ask for a repeat.
 2. It allows any station who may have an emergency transmission to go ahead with out waiting when minutes may be valuable.
- A message which must be relayed verbally, should be written before the sender undertakes to transmit it. The person doing the relaying should write the message down and read it back to the sender to be sure it is correct. The person relaying the message must not change it or rephrase it, as in so doing, the original emphasis or meaning is often lost.
- When transmitting to an aircraft, use "Affirmative" and repeat part of the message for confirmation. Aircraft are clear text just like everyone else.

PRECAUTION AND USE OF RADIO

- Radio messages can be received by other government radios and by private and commercial receivers. Therefore, it is imperative that all radio operators be especially careful that no message is sent over the air that could be embarrassing to the Government.
- The Government radio must be used only for official purposes; emergencies, fire and administration. Discussion of unofficial matters and visiting are prohibited.
- During fire season, fire management activities take priority over all other functions.

EXCEPTION: Emergencies involving injuries or death have the HIGHEST priority and may be transmitted at any time regardless of any other traffic.

- Every effort should be made to keep radio traffic to a minimum. Confine messages to the matter at hand only.
- The mention of names of people over the air not connected with an actual emergency or with the government agency should be avoided.
- Any employee of the Government may operate radios.
- **NO PROFANE LANGUAGE IS TO BE USED.**
- **UBIFC** may take control of the network in the event of a traffic jam or emergency, and is authorized to designate traffic priorities to meet dispatching needs. **UBIFC** also may, on occasion, instruct radio users to the correct procedures or improvements in message handling.
- International call signs (KOC 270, etc.) are established for some stations. They are to be used when a station initiates a call. The call sign will be used at the end of each completed communication.
- Report any interfering station to **UBIFC**. Record time, date, call letters or name, and nature of interference. Do not question or argue with the interfering station.
- Clear text will be used in all radios transmissions. (**DO NOT USE 10 CODES**)

RADIO REMINDERS

- For proper use of TONES assigned to repeaters, the user needs to clear them when turning radio on. To do this turn radio on, make sure the SCAN switch is in the OFF position and press the 0 key. This ensures that which ever repeater channel that is showing, the coorisponding tone is functioning properly.
- The “SCAN” switch is ON when it is in the up position pointing towards the word “scan”. It is OFF when in the down position pointing away from the word “scan”. It should be in the OFF position when clearing tones, changing groups, or programming.
- To change groups the user should make sure the SCAN switch is in the OFF position, press the # key, then press the number of the desired group, then press the ENT key. For example, if user is in GROUP 1 and needs to go to GROUP 2 the user will press #, 2, ENT.
- Radio Frequency assignment can change, be sure to have the Radio Tech update radios annually.
- To clone one radios frequencies to another using a clone cable the following steps should be followed: Attach the Master end of cloning cable to the Master Radio (It has the push-button switch), Turn on Master Radio, Put Master Radio into program mode by holding down the push button Master Switch on the cable and holding down the FCN key until - - - ID appears on the screen, enter 000000 and press the ENT key, attach the other end of cloning cable to the radio to be cloned, turn on clone radio, on the Master Radio press the * key and the screen will flash PROG, on the Master Radio press the * key and then the FCN key and the download will begin to the clone, if successful the Master Radio will resume flashing PROG if unsuccessful the Master Radio will flash FAIL, if successful turn both radios OFF and back to ON and they will be ready to operate.

PHONETIC ALPHABET

A - Alpha
B - Bravo
C - Charlie
D - Delta
E - Echo
F - Foxtrot
G - Golf
H - Hotel
I - India
J - Juliet
K - Kilo
L - Lima
M - Mike
N - November
O - Oscar
P - Papa
Q - Quebec
R - Romeo
S - Sierra
T - Tango
U - Uniform
V - Victor
W - Whiskey
X - X-Ray
Y - Yankee
Z - Zulu

CLEAR TEXT GUIDE

WORDS AND PHRASES	APPLICATIONS - EXAMPLES
<u>STANDARD REPLIES:</u>	
Affirmative	Yes
Can Handle	Used with the amount of equipment needed to handle the incident. Example: "Engine 141 can handle with units now at scene."
Copy, Copies	Used to acknowledge message received.
Disregard	Self-explanatory
Proceed	Indicates another unit may transmit. Example: "Go ahead Engine 111"
How do you copy?	Request for report on transmission quality.
Loud and Clear	Self-explanatory
Negative	No
Repeat	Self-explanatory
Standby	Self-explanatory
Unreadable	Signal received is not clear.
<u>STATUS REPORTING:</u>	
On scene	Used when units arrive at the scene of an incident.
Available (location)	Ready to respond to calls. Location is optional.
Available at residence	Used to indicate personnel are available and on-call at home.
Available at scene	No longer needed at scene and are available to respond to other calls.
En route (location)	Used to designate a non-emergency destination. Enroute is not substitute for responding.
In-quarters (location)	Used to indicate that a resource is at station. Example: "Patrol 121 in quarters, Vernal."
In-service	Unit is operating, but not in response to

	a fire.
Off duty (location)	Used to sign off when going off duty and are unavailable for calls.
Out-of-Contact (location)	Indicates unit is still on duty, but out of radio contact at the location specified.
Out-of-Service (location)	Indicates unit is not available due to mechanical problems.
Respond, responding	Used in dispatch. EX: “Squad 2 responding to....” Or “Squad 2, respond to”
Return to, Returning to	Used to direct units that are available to a station or other location.
<u>INFORMATIONAL:</u>	
Call by phone	Self-explanatory
Contact <i>message</i>	Relay message to person named.
Emergency Traffic	Used to gain control of the radio frequency to report an emergency in progress or a new incident.
False Alarm	Self-explanatory
Fire	Fire emergency requiring a response. Specify structure, field, forest, etc.
Fire Under Control	Self-explanatory
Is ... available for a phone call?	Self-explanatory
Let me talk to	Self-explanatory
Signing on, Signing off	Self-explanatory (Used by Fire Center)
Smoke	Suspected or unconfirmed fire.
What is your location?	Self-explanatory

RADIO CHANNELS

Simplex/Tactical Channels are for direct communications (line of sight).

Repeater Channels are for communicating long distances over mountainous terrain. By placing a repeater on a mountain top, the radio coverage can be extended by many miles. A repeater is a radio that receives a signal on one frequency and automatically retransmits on another.

To use repeaters: All of the repeaters are tone protected, which means you must use a tone when transmitting. When using any of the repeaters, key your microphone and pause for two seconds before talking. If you do not pause before talking the first couple words may be lost.

For After Hours Emergency Radio and Phone Communications:

From May 1 through September 30, the Fire Center is open for phone and radio calls 7 days a week from 0800 to 1800.

For after hours telephone communications: During May 1 through September 30, fire season period, the Fire Centers' telephone system will forward after hours incoming phone calls to an off-duty employee, therefore you can reach help 24 hours a day by calling 435-789-7021.

For after hours radio communications: If phone contact is not possible and there is an emergency follow these directions for radio use:

- 1) Select FS Group 6, Channel 14 or 15** to contact Central Dispatch (911). Speak in clear text to Central Dispatch (10 code not needed).
- 2) Central Dispatch will call the Fire Center with the report of the emergency and help will be on the way.**

***Note:** Channel 14 is West EMS for use in Duchesne County; channel 15 is East EMS for use in Uintah County.

***Note:** Fire Center hours of operation outside of the fire season is 0800-1700 Monday-Friday, October 1-April 30. During this time period after hours phone forwarding will not be active, however an answering machine will provide an emergency phone number to call. Emergency radio contact is available year round.

VEHICLES

Ch	Channel Name	Abbr	Receive	Transmit	Tone
1	FS Simplex	01FS Sim	172.2250	172.2250	
2	FS East Park	02FS E P	172.2250	170.5500	136.5
3	FS Little Mountain	03FS L M	172.2250	170.5500	131.8
4	FS No Name	04FS N N	172.2250	170.5500	123.0
5	FS Dry Ridge	05FS D R	172.2250	170.5500	110.9
6	FS Indian Canyon	06FS I C	172.2250	170.5500	146.2
7	FS Tabby Mountain	07FS T M	172.2250	170.5500	167.9
8	BLM Blue Mountain	08BL B M	172.6250	164.9500	123.0
9	BLM Goslin Mountain	09BL Gos	172.6250	164.9500	110.9
10	BLM Hoy Mountain	10BL H M	172.6250	164.9500	146.2
11					
12	BLM Tabby Mountain	12BL T M	169.8125	162.1625	136.5
13	BLM Divide Ridge	13BL Div	169.8125	162.1625	131.8
14	BLM Range Creek	14BL R C	169.8125	162.1625	156.7
15	BIA Simplex	15BI Sim	167.0250	167.0250	
16	BIA Repeat	16BI Rep	167.0250	164.7750	103.5
17	NPS Simplex	17NP Sim	166.3750	166.3750	
18	NPS Blue Mountain	18NP B M	169.7250	166.3750	114.8
19	NPS Roundtop	19NP R T	171.5375	166.3750	110.9
20	(CO) Zenobia	20BL Zen	172.7250	164.5250	110.9
21	State Asphalt	21ST Asp	155.7300	159.1650	203.5
22	State Tabby Mountain	22ST T M	155.1000	159.2400	151.4
23	West EMS	23 W EMS	155.8350	151.2800	167.9
24	East EMS	24 E EMS	155.0550	151.2350	114.8
25	(CO) BLM Juniper	25BL Jun	172.7250	164.5250	131.8
26	(CO) BLM Cathedral	26BL Cat	173.6750	164.6250	192.8
27	Air Guard	27Air Grd	168.6250	168.6250	110.9
28	Air to Ground 18	28ATG 18	168.0125	168.0125	
29	Air to Ground 51	29ATG 51	168.3125	168.3125	
30	TAC 1 (BLM)	30TAC 1	166.2375	166.2375	
31	TAC 2 (BLM)	31TAC 2	166.9625	166.9625	
32	TAC 3 (BLM)	32TAC 3	169.3625	169.3625	
33	TAC 4 (ST) BIA	33TAC 4	156.0675	156.0675	
34	TAC 5 (FS)	34TAC 5	168.1750	168.1750	
35	TAC 6 (FS)	35TAC 6	168.7250	168.7250	
36	TAC 7 (FS)	36TAC 7	169.9000	169.9000	
37	TAC 8 (ST) BIA	37TAC 8	156.1275	156.1275	
38	State Fire Marshal	38 ST F M	154.2800	154.2800	
39	State Division	39 ST Div	159.4350	159.4350	
40	Statewide 1	40STWD 1	155.5050	155.5050	162.2
41	DNR	41DNR	155.7750	155.7750	210.7
42	FWS Blue Mountain	42FWS BL	172.7500	171.4500	141.3
43	FS Simplex Logistics	43SM Log	171.4750	171.4750	
44	FS East Park Logistics	44EP Log	171.4750	162.2250	136.5
45	FS Little MT Logistics	45LM Log	171.4750	162.2250	131.8
46	FS Tabby Logistics	46TM Log	171.4750	162.2250	167.9
47	FS Simplex Comm Use	47Common	168.6125	168.6125	
48	FS Simplex Local Area	48 Local	163.7125	163.7125	

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GPH and DPH Models

Ashley National Forest FS Group 1/ BLM Zone 8

Ch	Channel Name	Abbr	Receive	Transmit	Tone
1	FS Simplex	Simplex	172.2250	172.2250	
2	FS East Park	East Prk	172.2250	170.5500	136.5
3	FS Little Mountain	Little M	172.2250	170.5500	131.8
4	FS No Name	No Name	172.2250	170.5500	123.0
5	FS Dry Ridge	Dry Ridg	172.2250	170.5500	110.9
6	FS Indian Canyon	Indian C	172.2250	170.5500	146.2
7	FS Tabby	Tabby	172.2250	170.5500	167.9
8	Air to Ground 18	ATG 18	168.0125	168.0125	
9	Air to Ground 51	ATG 51	168.3125	168.3125	
10	TAC 5 (FS)	TAC 5	168.1750	168.1750	
11	TAC 6 (FS)	TAC 6	168.7250	168.7250	
12	TAC 7 (FS)	TAC 7	169.900	169.9000	
13	State Fire Marshal	St ate FM	154.2800	154.2800	
14	FWS Blue Mountain	FWS Blue	172.7500	171.4500	141.3
15					
16	Air Guard	Air Grd	168.6250	168.6250	110.9

BLM – Green River District FS Group 2/ BLM Zone 9

Ch	Channel Name	Abbr	Receive	Transmit	Tone
1	BLM Blue Mountain	Blue Mtn	172.6250	164.9500	123.0
2	BLM Goslin Mountain	Goslin	172.6250	164.9500	110.9
3	BLM Hoy Mountain	Hoy	172.6250	164.9500	146.2
4	FS Little Mountain	Little M	172.2250	170.5500	131.8
5	BLM Tabby Mountain	Tabby	169.8125	162.1625	136.5
6	BLM Divide Ridge	Divide	169.8125	162.1625	131.8
7	BLM Range Creek	Range Cr	169.8125	162.1625	156.7
8	Air to Ground 18	ATG 18	168.0125	168.0125	
9	Air to Ground 51	ATG 51	168.3125	168.3125	
10	TAC 1 (BLM)	TAC 1	166.2375	166.2375	
11	TAC 2 (BLM)	TAC 2	166.9625	166.9625	
12	TAC 3 (BLM)	TAC 3	169.3625	169.3625	
13	State Fire Marshal	St ate FM	154.2800	154.2800	
14	FWS Blue Mountain	FWS Blue	172.7500	171.4500	141.3
15					
16	Air Guard	Air Grd	168.6250	168.6250	110.9

**BIA - Uintah & Ouray Agency
FS Group 3/ BLM Zone 10**

Ch	Channel Name	Abbr	Receive	Transmit	Tone
1	BIA Simplex	Simplex	167.0250	167.0250	
2	BIA Repeat	Repeat	167.0250	164.7750	103.5
3	FS Little Mountain	Little M	172.2250	170.5500	131.8
4	BLM Tabby	Tabby	169.8125	162.1625	136.5
5	BLM Range Creek	Range Cr	169.8125	162.1625	156.7
6	BLM Divide	Divide	169.8125	162.1625	131.8
7	Air to Ground 18	ATG 18	168.0125	168.0125	
8	Air to Ground 51	ATG 51	168.3125	168.3125	
9	TAC 4 (ST) BIA	TAC 4	156.0675	156.0675	
10	TAC 8 (ST) BIA	TAC 8	156.1275	156.1275	
11	State Fire Marshal	State FM	154.2800	154.2800	
12	FWS Blue Mountain	FWS Blue	172.7500	171.4500	141.3
13					
14					
15					
16	Air Guard	Air Grd	168.6250	168.6250	110.9

**State of Utah Northeast
FS Group 4/ BLM Zone 11**

Ch	Channel Name	Abbr	Receive	Transmit	Tone
1	State Asphalt	Asphalt	155.7300	159.1650	203.5
2	State Tabby	ST Tabby	155.1000	159.2400	151.4
3	State Division (TAC)	ST DIV	159.4350	159.4350	
4	West EMS	West EMS	155.8350	151.2800	167.9
5	East EMS	East EMS	155.0550	151.2350	114.8
6	State Fire Marshal	State FM	154.2800	154.2800	
7	Air to Ground 18	ATG 18	168.0125	168.0125	
8	Air to Ground 51	ATG 51	168.3125	168.3125	
9	BLM Blue Mountain	Blue Mtn	172.6250	164.9500	123.0
10	BLM Tabby	BL Tabby	169.8125	162.1625	136.5
11	BIA repeat	BIA Rpt	167.0250	164.7750	103.5
12	DNR	DNR	155.7750	155.7750	210.7
13	TAC 4 (ST)	TAC 4	156.0675	156.0675	
14	Statewide 1	STWD1	155.5050	155.5050	162.2
15					
16	Air Guard	Air Grd	168.6250	168.6250	110.9

ALL State Frequencies have a tone on both the Transmit and Receive.

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**NPS - Dinosaur National Monument
FS Group 5/ BLM Zone 12**

Ch	Channel Name	Abbr	Receive	NAC	Transmit	NAC	Tone
1	NPS Local	Local	166.3750	420-M 1056-BK	166.3750	420-M 1056-BK	
2	NPS Roundtop	Roundtop	171.5375	420-M 1056-BK	166.3750	400-M 1024-BK	110.9
3	NPS Blue	NPS Blue	169.7250	420-M 1056-BK	166.3750	410-M 1040-BK	114.8
4	NPS Work	Work	168.3500		168.3500		
5	Zenobia (CO)	Zenobia	172.7250		164.5250		110.9
6	BLM Cathedral (CO)	Cathedrl	173.6750		164.6250		192.8
7	BLM Juniper (CO)	Juniper	172.7250		164.5250		131.8
8	NWCO Fire Tac 7	Fire Tac	169.2875		169.2875		
9	Rangely VFD	Rangely	154.4450		154.4450		
10	NZ Air to Ground 36	ATG 36	172.2500		172.2500		
11	NZ Air to Ground 58	ATG 58	169.0875		169.0875		
12	BLM Blue (UT)	BLM Blue	172.6250		164.9500		123.0
13	TAC 1 (BLM)	TAC 1	166.2375		166.2375		
14	State Fire Marshal / Fern 1	SFM/Fern	154.2800		154.2800		
15	Air to Ground 18	ATG 18	168.0125		168.0125		
16	Air Guard	Air Grd	168.6250		168.6250		110.9

**Ashley National Forest
FS Group 6**

Ch	Channel Name	Abbr	Receive	Transmit	Tone
1	FS Simplex	Simplex	172.2250	172.2250	
2	FS Simplex Logistics	Sim Log	171.4750	171.4750	
3	FS Simplex Common Use	Sim Comm	168.6125	168.6125	
4	FS Simplex Local Area	Sim Local	163.7125	163.7125	
5	FS East Park	East Park	172.2250	170.5500	136.5
6	FS Little Mountain	Little M	172.2250	170.5500	131.8
7	FS No Name	No Name	172.2250	170.5500	123.0
8	FS Dry Ridge	Dry Ridg	172.2250	170.5500	110.9
9	FS Indian Canyon	Indian C	172.2250	170.5500	146.2
10	FS Tabby	Tabby	172.2250	170.5500	167.9
11	FS East Park Logistics	East Log	171.4750	162.2250	136.5
12	FS Little Mountain Logistics	Little Log	171.4750	162.2250	131.8
13	FS Tabby Logistics	Tabby Log	171.4750	162.2250	167.9
14	West EMS	West EMS	155.8350	151.2800	167.9
15	East EMS	East EMS	155.0550	151.2350	114.8

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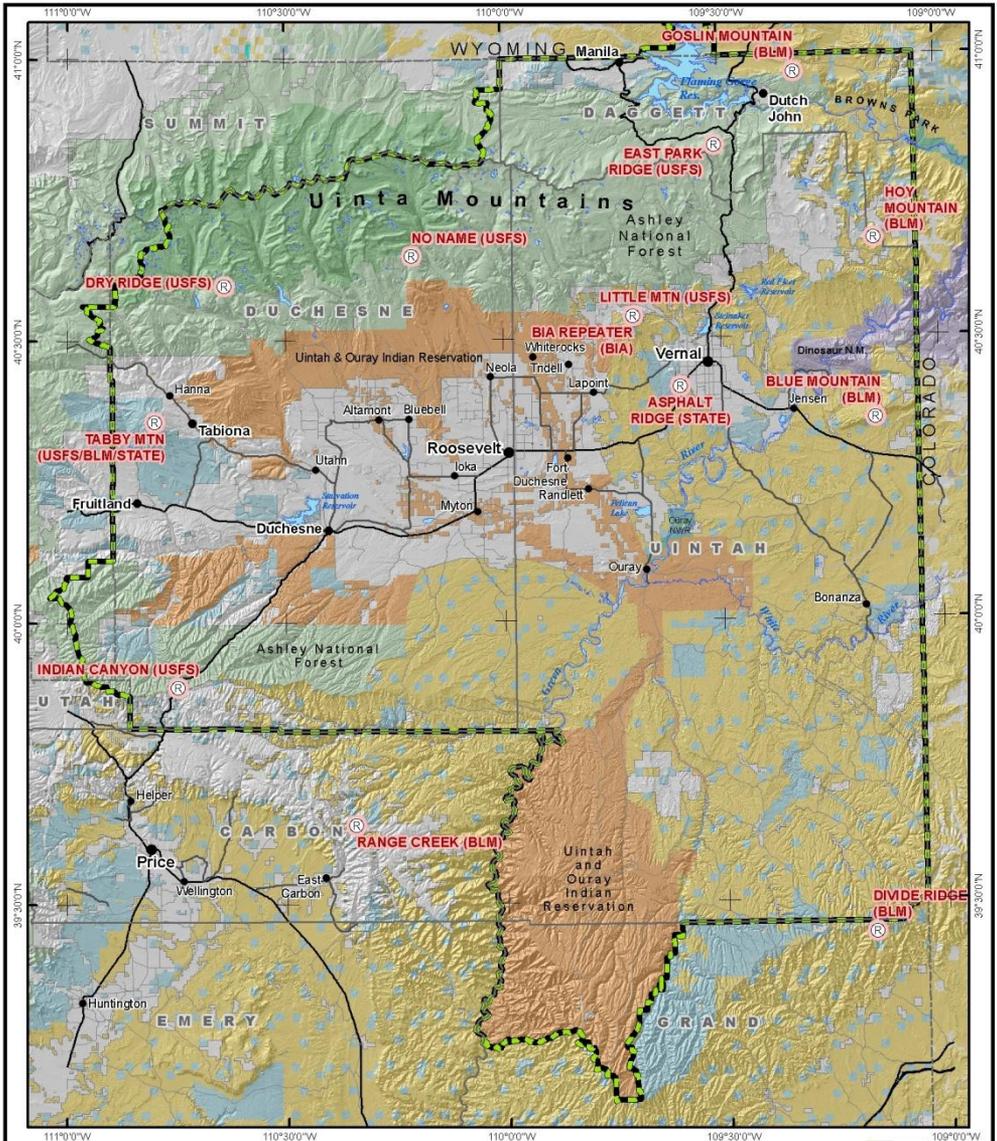
Utah State Fire Marshal and Colorado Fern 1 are the same frequency
All NPS frequencies are digital and analog-mixed mode
****NAC is used for digital frequencies****

This is only important if you are programming digital or mixed mode into your radios. If you are purely analog, you can disregard, but know that the park is in mixed mode- digital and analog.

Interoperability VTAC Frequencies
FS Group10 /BLM Zone 16

Ch	Channel Name	Mob RX	RX PL		Mob TX	TX PL
	VCALL	VCALL	155.7525		155.7525	
	VTAC 11	VTAC11	151.1375		151.1375	156.7
	VTAC 12	VTAC12	154.4525		154.4525	156.7
	VTAC 13	VTAC13	158.7375		158.7375	156.7
	VTAC 14	VTAC14	159.4725		159.4725	156.7
	VTAC REPEATER 37	VTAC37	154.4525		158.7375	136.5
	VTAC REPEATER 2	VRPT2	155.025	141.4	155.985	210.7
	VTAC REPEATER 3	VRPT 3	155.895	131.8	151.1975	186.2
	VTAC REPEATER 4	VPRT 4	158.7975	127.3	154.3025	203.5

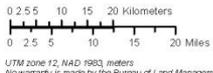
To Change Groups - press #, Select Group Number (1-6), press ENT



Frequency Map

Uintah Basin Interagency Fire Center

March 2010



UTM zone 12, NAD 1983, meters
 No warranty is made by the Bureau of Land Management
 for use of any of the data for purposes not intended by BLM

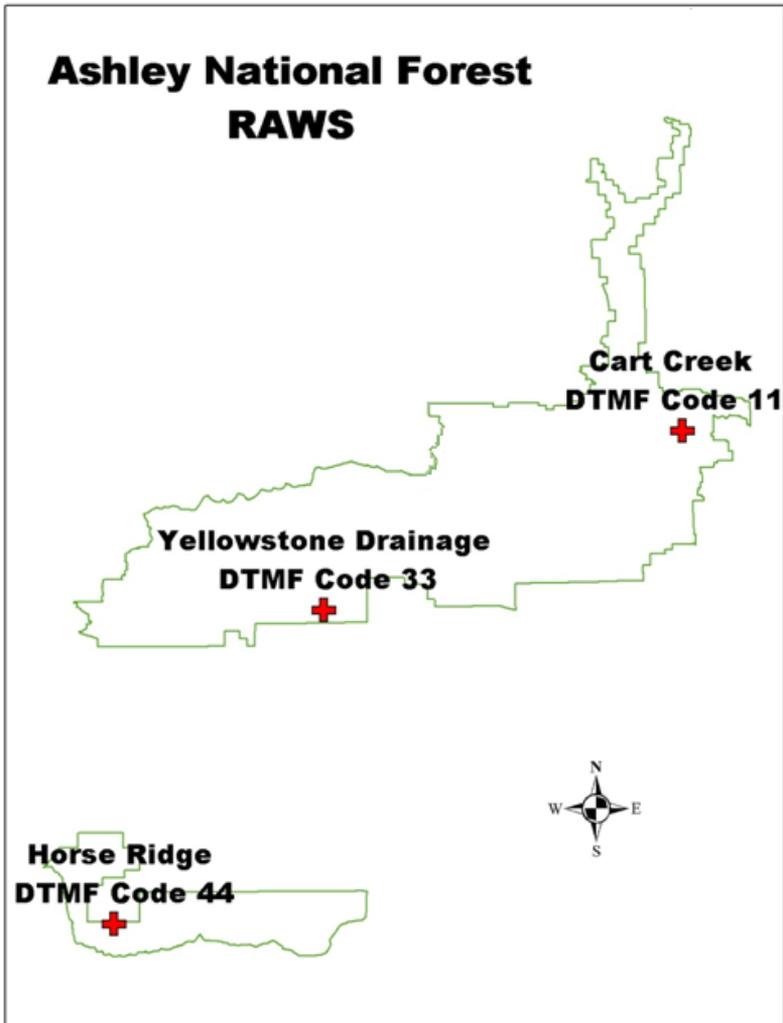
Legend

- Repeater
- UBIFC Boundary
- Bureau of Land Management
- Indian Trust Land
- National Park Service
- Private
- State
- US Fish & Wildlife Service
- US Forest Service
- USFS Wilderness Area



Utah

RAWS Voice Synthesizer DTMF Tones



Cart Creek RAWS	11
Yellowstone Drainage RAWS	33
Horse Ridge RAWS	44
Ashley # 1 Portable	99
Ashley # 2 Portable	55
Ashley # 3 Portable	12