

## FEClientNet Survey Summary

72 agencies participated in the **FEClientNet** Survey.

Agency Name	Federal	State	County	City	Private	Law	Fire	LG	Other
90th Medical Group (USAF)	X								X
Albany County Firefighters			X				X		X
Alpha Communications					X				X
Baggs Volunteer Fire Department				X			X		X
Baggs, Town of				X				X	
Bar Nunn Volunteer Fire Department				X			X		
Basin Police Department				X		X			
Bear River, Town of				X				X	
Big Horn County Fire District #1			X				X		
BLM	X								
Buffalo Police Department				X		X			
Campbell County Memorial Hospital					X				
Casper, City of				X			X		
Cheyenne Fire & Rescue Department				X			X		
Cheyenne Police Department				X		X			
Cody, City of				X				X	
Converse County School District #2				X					
Diamondville, Town of				X		X			
Edgerton, Town of				X				X	
Elk Mountain Volunteer Fire Department				X			X		
Evanston Police Department				X		X			
Fremont County EMA			X						
Gillette Police Department				X		X			
Goshen County School District #1				X					
Green River Police Department				X		X			
Jackson / Teton County Fire Department			X				X		
Johnson County Sheriff's Office			X			X			
Kemmerer Police Department				X		X			
Kirby, Town of				X				X	
Laramie County Fire District #10			X				X		
Laramie Police Department				X		X			
Lincoln County Sheriff's Office			X			X			
Lingle EMA				X					
Lingle Police Department				X		X			
Lingle Volunteer Fire Department				X			X		
Lovell, Town of				X				X	X
Moorcroft Police Department				X		X			
Natrona County Fire Protection District			X				X		
Newcastle Police Department				X		X			
Newcastle Volunteer Fire Department				X			X		
North Albany			X						
Park County Fire District #2			X				X		
Park County Sheriff's Office			X			X			
Pine Haven Fire Department				X			X		
Platte County Sheriff's Office/EMA			X			X			
Powell Police Department				X		X			
Rock River, Town of				X				X	
Rock Springs Police Department				X		X			
Saratoga Police Department				X		X			
Sheridan Fire-Rescue				X			X		
Sheridan Police Department				X		X			
Sheridan, City of				X				X	
Sinclair Police Department				X		X			
Sublette County Sheriff's Office			X			X			X
Sweetwater County EMA			X						X
Teton County Sheriff's Office			X			X			X
Thermopolis Police Department				X		X			X
Torrington Police Department				X				X	
Uinta County Fire Protection			X				X		

Agency Name	Federal	State	County	City	Private	Law	Fire	LG	Other
Junta County Government			X			X			
University of Wyoming Police		X				X			X
Wamsutter Police Department				X		X			
Washakie County Sheriff's Office			X			X			
Weston County Health Services			X						X
Worland Police Department				X		X			
Wyoming DOT - Maintenance		X							X
Wyoming Law Enforcement Academy		X				X			X
Wyoming Mutual Aid		X							X
Wyoming SALECS		X							
Wyoming State Forestry Division		X							
Wyoming State Patrol		X				X			X
Yoder, Town of				X				X	
Totals	2	7	19	42	2	31	16	10	15
Percentage of Total	2.8%	9.7%	26.4%	58.3%	2.8%	43.1%	22.2%	13.9%	20.8%

Notes:

LG = Local Government

Other = Non-listed types

### Use of VHF Low-band, 220 MHz, 700 MHz, or 4.9 GHz

Band	VHF Lo	220 MHz	700 MHz	4.9 GHz
Used	16	1	0	0
Percentage	22%	1.4%	0%	0%

VHF Low-band: Sweetwater County EMA, Town of Diamondville, Newcastle Volunteer FD, Basin PD, Bar Nunn Volunteer FD, Wamsutter PD, Town of Lovell, Town of Rock River, Gillette PD, Rock Springs PD, Laramie PD, Teton County SO, City of Cody, Cheyenne PD, WY State Forestry Division, Weston County Health Services.

220 MHz: Pine Haven FD

## Use of VHF High-band

Used by 68 agencies: All agencies listed as participating (pages 1 & 2), except:  
Town of Kirby, Town of Bear River, Kemmerer PD, and City of Casper.

<u>Licenses</u>	<u>Per Agency</u>	<u>Total</u>
One License	32	32
Two Licenses	9	18
Three Licenses	6	18
Four Licenses	1	4
Five Licenses	3	15
BLM		57
SALECS		63
Maintenance		57
Highway Patrol		25
<u>Mutual Aid</u>		<u>23</u>
Grand Total		312

<u>System Use</u>	
Exclusive	25 - 42%
No answer	8
Shared	35 - 58% (see next page)

Agency	Sharing With
Sweetwater County Emergency Management	Community Nursing
Converse County School District #2	Casper bus garage on same frequency
Laramie County Fire District #10	Cheyenne 911 other services
Natrona County Fire Protection District	Natrona County Road & Bridge
Town of Diamondville	All other PDs in the state
Basin Police Dept.	Greybull Police Dept.
Bar Nunn Volunteer Fire Dept.	Town of Bar Nunn
Wamsutter Police Dept.	Wamsutter Fire and Ambulance
Johnson County Sheriff's Office	All emergency services
Platte County Sheriffs Office/EMA	Law Enforcement, Fire, Ambulance
Buffalo Police Department	Sheriff/SALECS/City & County Fire/City Maintenance/Mutual Aid/BLM
Wyoming Law Enforcement Academy	Highway Patrol
Town of Rock River	Albany County/Laramie
Pine Haven Fire Department	Crook County
Worland Police Dept	Washakie Ambulance
Uinta County Government	All county emergency agencies
Lincoln County Sheriff's Office	Fire, EMS
Teton County Sheriffs Office	SAR, Emergency Management, PD
Uinta County Fire Protection	Evanston Fire, Lyman Fire, Mountain View Fire
Town of Yoder	Yoder Volunteer Fire Department
Sheridan Police Department	Local Government Public Safety/8+ other agencies
Town of Baggs	Baggs Police Department
Town of Edgerton	Salt Creek Joint Powers Board

Agency	Sharing With
North Albany	Many ranches, Albany County School District
City of Sheridan Fire-Rescue	Local Government Public Safety - Sheridan Police, Sheridan County Sheriff, Sheridan County Fire Districts, Wyoming Highway Patrol
City of Sheridan	Local Public Safety, Sheridan Police, Sheridan Fire-Rescue
Park County Sheriff's Office	Other public safety agencies
BLM	US Forest Service
Washakie County Sheriff's Office	Worland P.D.
Albany County Firefighters	Albany County Sheriff and Road
Newcastle Police Dept	Weston Co SO
Alpha Communications	police, sheriff, fire
Thermopolis P D	Thermopolis PD/HSC SO

Coverage

Adequate - 38

Not adequate - 22

No answer - 4

<u>Channels</u>	<u># of Agencies</u>	<u>Totals</u>	
None listed	18	0	
One	24	24	
Two	11	22	
Three	4	12	
Four	4	16	
Five	3	15	
Six	1	6	
Eight	5	40	
15	1	15	
<u>44</u>	<u>1</u>	<u>44</u>	
Grand Total	54	194	Average of 3.6 channels/agency

Are number of channels adequate

Yes - 37

No - 21

No answer - 10

Normal annual peak number of simultaneous users

No answer - 27  
 One - 2 May be underutilized channels (< 10 users)  
 Two - 9 May be underutilized channels  
 Three - 2 May be underutilized channels  
 Four - 3 May be underutilized channels  
 Five - 3 May be underutilized channels  
 Six - 4 May be underutilized channels  
 Eight - 1 May be underutilized channels  
 Ten - 3 May be underutilized channels  
 Thirteen - 1  
 Fourteen - 1  
 Fifteen - 4  
 Twenty - 2 Probably over utilized channels (> 20 users)  
 25 - 2 Probably over utilized channels  
 Forty - 1 Probably over utilized channels  
 41 - 1 Probably over utilized channels  
 65 - 1 Probably overloaded channels (> 50 users)  
 120 - 1 Probably overloaded channels

Describe traffic volume and seasonal patterns
Low traffic normally, increases with bad weather and special events.
During large scale emergencies we have considerable traffic, otherwise it is day to day use
During school days/hours
Heavy traffic 7:00am-8:00am & 2:00pm-4:30pm
Very busy anytime weather is bad
300 Emergency responses per year with additional administrative traffic
Light, this is a secondary system – SO maintains the primary system
When we have a call it is high use
Heavy summer/light to moderate rest of year
Heavy in summer fire season
Moderate traffic between base station and mobiles
Summer fire responder information mostly
Summer time, winter storms busier
Depends on units on duty
Busiest 3-11 shifts and summer months
Low traffic
Minimal
Very busy summer, bad weather and holiday weekends
Heavier traffic in summer months
Summer is the busiest followed by the winter season
OK
Normal law enforcement / fire / EMS usage
Low, year round
Busy - summer/winter, slow - fall/spring
Summer months - higher traffic volume, but used on every emergency call
Minimal year round
Minimal year round
Tolerable
Used by MTC and fire dept
Traffic volume very high

Describe traffic volume and seasonal patterns
Most of year it is low - ranch to ranch (no land line communications), during fire season is very heavy at times
Volume becomes quite high during emergency incidents and real congested during multiple incidents
Multiple city departments using system during working hours, limited use at other times
Very high during tourist & hunting seasons
June through September peak
Low, year round
Normal
Normal
High in summer
High in summer

Are additional channels needed, if so when?

53 users need zero channels or didn't answer  
 Six users need one channel (no time given, ASAP, future, NCIC use, now)  
 Six users need two channels (any fire, future, 2006, 3-11 shifts, emergencies, now)  
 One user needs several (immediately)  
 One user needs three channels (within next 1-2 years)  
 One user needs five channels (summer)

Is mobile data implemented, if so when?

No answer - 8  
 No - 43  
 Planned - 6 (12%)  
     Two - unspecified  
     One - summer 2003  
     One - 2004  
     One - within 4-5 years  
     One - within 5-10 years  
 Yes - 2 (4%)

Is voice encryption implemented, if so when?

No answer - 15  
 No - 41  
 Yes - 12 (23%)  
     Ten - unspecified  
     One - 1996  
     One - 2006

Is trunking implemented, if so when?

No answer - 18  
 No - 48  
 Planned - 2 (4%)  
     One - Unknown (Powell PD)  
     One - 2004 (Warren AFB)

Is digital modulation implemented, if so when?

No answer - 17  
No - 49  
Yes/planned - 2 (4%)  
    Yes - BLM  
    Planned - Warren AFB - 2004

Is narrow channel bandwidth implemented, if so when?

No answer - 18  
No - 43  
Yes - 3 (6%)  
Planned - 4 (8%)  
Yes/planned - 7 (14%)  
    One - Some capable now  
    One - 2004 (Warren AFB)

Number of Base Stations

No answer/none - 19		
Many - 1		
One - 20	20	
Two - 11	22	
Three - 8	24	
Four - 1	4	
Five - 2	10	
Six - 2	12	
Seven - 1	7	
Eight - 1	8	
Nine - 1	9	
Fourteen - 1	14	
Totals - 48	130	Average - 2.7 per agency

Site Ownership

Owned - 30 (64%)  
Leased - 17 (36%)  
No answer - 21

Tower Type

No answer - 34  
Self-support - 22 (65%)  
Guyed - 10 (29%)  
Monopole - 2 (6%)

Tower Age/Condition

Range: 1 to 50+ years, average - 18 years  
Excellent - 1  
Good - 21  
    Excellent/good (88%)  
Fair - 3 (12%)

Number of antennas on tower

Range: 1 to 14, average - 6

Quality of Lightning/Grounding

Adequate - 35 (87%)  
Non-adequate - 5 (13%)

Shelter Structure/Condition

Wood, masonry/concrete/brick/cinder block, metal, fiberglass, or part of building  
Condition: Some adequate, mostly good or better

Access to Site

73% described as easy (located on buildings, in town, paved roads)  
27% described as difficult (no winter access, 4wd required, etc.)

Heating

Yes - 29 (69%)  
No - 13 (31%)

Ventilation

Yes - 25 (64%)  
No - 14 (36%)

Air Conditioning

Yes - 13 (32%)  
No - 28 (68%)

Primary Power

Commercial power - 38 (88%)  
Generator only - 2 (5%)  
Commercial/generator - 2 (5%)  
Commercial/solar - 1 (2%)

Generator

Range: 15 to 650 kW, average: 85 kW  
Fuel Type: Diesel - 8 (40%), Propane - 8 (40%), Natural Gas - 4 (20%)  
Run-time: Range: 5 to 240 hours, average: 62 hours (two - unlimited)

UPS

Yes - 11  
No - 11  
Average capacity - 5700 watts  
50% supply power to more than the radio equipment  
Run-time: Range: 0.25 to 24 hours, average - 8.5 hours (three listed at 24 hours)

Site Security

Within secure or 24-hr manned building - 5 (29%)  
None - 8 (47%)  
Lock and fence - 1 (6%)  
Alarmed - 3 (18%)

Shelter Security

Within secure or 24-hr manned building - 6 (35%)  
None - 7 (41%)  
Alarmed - 4 (24%)



Vehicle radios

Total - 4190, average per agency - 76  
Data capable - 49 (three agencies)  
Transmit power: Maximum - 110 watts, minimum - 35 watts  
Antenna gain: 3-5 dB  
Radio age: <1 to 15 years, average 7.2

Portable radios

Total - 3277, average per agency - 60  
Data capable - zero  
Transmit power: Maximum - 50 watts, minimum - 4 watts, 81% - 5 watts  
Radio age: 1 to 15 years, average 6.5  
In-vehicle repeaters - 5 agencies (two cross-band to UHF)

Portable Accessories

Speaker/microphone
Speaker microphones, 12 volt chargers
Field programmable Bendix/King
Microphone
Lapel mikes
Speaker mike, high gain antenna
Remote microphones only
Hand mikes
Lapel mic/speakers, some leather cases
Speaker microphone
Scan, page
Lapel mike
None
Holder and shoulder microphones
Collar microphones
Lapel microphone
Speaker microphones
Basic
Remote microphone/ear piece
None
Speaker mikes
Lapel microphone/chargers/cases
Speaker/microphones
Remote mike
Shoulder misc
Speaker/microphone - charger
Speaker/microphone charger

Control Stations

One - 22	22
Two - 11	22
Three - 1	3
Six - 1	6
Seven - 1	7
Nine - 4	36
Twenty - 1	20



Static

No - 12

Occasional - 44

Objectionable - 42

Occasional/objectionable (88%)

System Maintenance

Radio Dealer - 44

Factory Service - 1

Wireless Service - 1

Self-Maintained - 14

Other Agency Agreement - 2

Sinclair PD & Carbon County SO

State Forestry and WY-DOT

Combination (not specified) - 4

Note: Combinations that were detailed are included in specific counts above

Worland PD - Multiple radio dealers

Park County SO - Self and outside contracts

Mutual Aid - Self and radio dealers

Sweetwater County EMA - Self and radio dealers

In-house Test/Programming Equipment

Newcastle Volunteer FD - clone cable

Jackson/Teton County FD - mobile and pager programmers

Uinta County Government/Fire Protection - service monitors, meters, etc.

Town of Yoder - clone cable

Park County Sheriff's Office - basic radio programming & RF measuring equipment

WHP/WYDOT Maintenance - full line radio repair shop

Adequate - 17

Not adequate - 10

In-house Spare Equipment

Additional portables & mobiles - 3 agencies

Replacement antennas and batteries

Spare mobile radios

One back up

Spare control cards

CEB cards

Limited

Power supply

Spare boards and radios - 3 agencies

Spare components for all key components

Obsolete

Base stations, mobile and portables

Maritrax

Adequate - 19

Not adequate - 15

Annual System Maintenance Budget/Costs

Loaded Labor:

Low - \$300

High - \$17,500

Average - \$3,850  
Agencies submitted - 10  
State systems (SALECS, HP, Maintenance, Mutual Aid) - \$618,144

Periodic Recapitalization:

Low - \$0 (4 agencies)  
High - \$37,000  
Average - \$5,200  
Agencies submitted - 10

Facility Lease:

Low - \$0 (5 agencies)  
High - \$1,000  
Average - \$208  
Agencies submitted - 9

Telco:

Low - \$0 (4 agencies)  
High - \$11,000  
Average - \$2,405  
Agencies submitted - 8

Backbone Microwave Maintenance:

Low - \$0 (6 agencies)  
High - \$11,000  
Average - \$2,405  
Agencies submitted - 6  
State systems (SALECS, HP, Maintenance, Mutual Aid) - \$229,905

Other Maintenance:

Low - \$0 (2 agencies)  
High - \$5,196  
Average - \$1,427  
Agencies submitted - 11

Items included:

- Preventive maintenance checks & unplanned repairs
- Repeater and radio repairs as needed
- Antenna replacement, radio repair
- Maintenance contract
- General maintenance
- Payment to CCSO for dispatch services
- Routine repairs
- Batteries/antennas/microphones
- Maintenance contract with radio dealer

Total System Maintenance:

Low - \$0 (2 agencies)  
High - \$70,000  
Average - \$8,075  
Agencies submitted - 26  
State systems (SALECS, HP, Maintenance, Mutual Aid) - \$2,049,253

Rank System Problems (by priority)

Statewide Coverage:

No answer - 10  
Highest (1) - 14  
(2) - 3  
(3) - 8  
(4) - 5  
Lowest (5) - 28  
Average - 3.52

System Reliability:

No answer - 8  
Highest (1) - 24  
(2) - 14  
(3) - 8  
(4) - 5  
Lowest (5) - 9  
Average - 2.35

Interoperability:

No answer - 9  
Highest (1) - 11  
(2) - 16  
(3) - 16  
(4) - 7  
Lowest (5) - 9  
Average - 2.78

Congestion:

No answer - 8  
Highest (1) - 18  
(2) - 9  
(3) - 13  
(4) - 10  
Lowest (5) - 10  
Average - 2.75

Interference:

No answer - 8  
Highest (1) - 11  
(2) - 18  
(3) - 12  
(4) - 12  
Lowest (5) - 7  
Average - 2.77

Highest (1) - System Reliability @ 2.35  
(2) - Congestion @ 2.75  
(3) - Interference @ 2.77  
(4) - Interoperability @ 2.78  
Lowest (5) - Statewide Coverage @ 3.52

Agency	VHF Hi-Band Remarks
90th Medical Group (USAF)	We operate a joint dispatch center providing primary dispatch for military medical units, backup dispatch for military fire units, and backup dispatch for local civilian fire & EMS units
Sweetwater County EMA	None of the system problems apply. Our highest ranking problem is countywide coverage and funding to maintain system
Goshen County School District #1	I am unable to provide all the information asked for, if there are any questions that need to be answered to better help in the project, please email me and I can research them for the answer. I feel that a system like the one being researched would be a...
Converse County School District #2	We also have four cell phones for activity buses and any dip or hill causes reception or calling problems
Laramie County Fire District #10	We operate 12 mobile (vehicle) 50-watt radios, two 50-watt base stations (one with a pager repeater) and 21 5-watt handheld radios. Most of our communications are on the Cheyenne 911 frequency through the Harriman repeater. We also have access to four "T...
Park County Fire District #2	We do not currently have any interoperability concerns. All county resources can communicate very effectively. Don't take any action that will be detrimental to the current interoperability we enjoy with the Federal Fire Agencies (USFS, BLM, BIA, NPS)
Cheyenne Fire & Rescue Dept.	This system is used as our primary alerting paging method
Newcastle Volunteer FD	I would like to know why we need a new system to start with. Is the new proposed system going to be better than what I already have and will it work as well as the present system. The only thing I could use is two more channels
Basin PD	Sheriff's Dept provides our dispatch, between SO, PD's, Fire, EMS, page for mental health, page for CARES, dispatch for search & rescue, we have congestion. We also experience line leakage in about three areas in town, plus if we are any where the Jail...
Bar Nunn Volunteer FD	Dispatch duties are carried out by Natrona County Joint Dispatch. They own, maintain all towers. Only 1 repeater channel available and that is for the Sheriff's Office. Can use in emergency if need to. Not used for normal fire dispatches
Elk Mountain Volunteer FD	Our system has been very reliable so far. We have replaced some of our handheld radios over the last 2 years
Platte County SO/EMA	Some of the questions I cannot answer and we will be adding another repeater this year at Pine Ridge. I do not have the details yet
Big Horn County Fire Protection District #1	Our system works very well for our needs. It covers our area very well
University of WY Police	Our radio's experience some bleed over even though we have PL tone. We have to pause before transmitting or it doesn't come in to the base. Communications Source in Cheyenne, Gary Vondrak is the owner, they do all of our repair and installs
Town of Lovell	Our system works well for what we need
Buffalo PD	County Fire and Road&Bridge are on the same channel and also coming in on that channel is skip from Lodge

Agency	VHF Hi-Band Remarks
	Grass, MT where they handle fire and have an automatic thing programmed in to give morse code of their call letters every ½ hour or so. This c...
Sinclair PD	The Sinclair Police Dept. is dispatched through the Carbon County Sheriff's Dept. Sinclair PD has no Communications Center other than the Carbon County SO Dispatch Center
Lingle PD	The Town of Lingle (PD, Fire, EMS and Emergency Management), are all dispatched out of the Torrington Central Dispatch center at Torrington PD. In our area there are numerous DEAD ZONES and portables are more effected than mobiles
Town of Lingle EMA	The Town of Lingle (PD, Fire, EMS and Emergency Management) are all dispatched out of Torrington Central Dispatch at Torrington P.D. In the Town of Lingle and the surrounding area there are several Dead Zones, which effect the portable more so than the mobiles
Pine Haven FD	I joined the Pine Haven Fire Department on December 12, 2002 to help set-up a communication system. In the past on any responses to emergencies outside of the town limits they have been using the Crook County Frequency 154.325 in the three (3) Fire Tr...
Uinta County Government	As a general rule we find conventional radio adequate for our needs
Uinta County Fire Protection	VHF conventional radio is adequate for our needs
Sheridan PD	The Sheridan Police Department does not have a great problem with interoperability, however we are the PSAP for Sheridan County and dispatch for the Sheridan County SO, Sheridan Fire & Rescue, and 5 Fire Districts who do have interoperability problems. This ma...
Baggs Volunteer FD	VHF High Band system for Fire Department is adequate. Fire Department has considerable money invested in present system. We are a small volunteer department and cannot afford to buy all new radio equipment
Moorcroft PD	Continuous system problems are always described by repair personnel as caused by town's location
Fremont County EMA	I am still processing information with our radio technical staff on this survey. Will submit ASAP
North Albany	Albany County School District has put all bus traffic on this frequency as it is very clear. They abuse it, talk over every one and make it so many radios are left off or not listened to
City of Sheridan Fire-Rescue	All of these system problems are important and need to be addressed
City of Sheridan	All problems have a high priority
Washakie County SO	Our system is adequate for this area

## Use of UHF Band

Used by 4 agencies: Sweetwater County EMA, Torrington PD, Buffalo PD, Campbell County Memorial Hospital

<u>Licenses</u>	<u>Per Agency</u>	<u>Total</u>
One License	4	4

<u>System Use</u>	
Exclusive	2
Shared	2 (see below)

Agency	Sharing With
Sweetwater County Emergency Management	Community Nursing
Buffalo Police Department	Sheriff/SALECS/City & County Fire/city maintenance/mutual aid/BLM

Coverage  
 Adequate - 2  
 Not adequate - 1  
 No answer - 1

<u>Channels</u>	<u>Per Agency</u>	<u>Totals</u>	
None listed	1	0	
One	2	2	
Eight	1	8	
Grand Total	3	10	Average - 3.3 per agency

Are number of channels adequate  
 Yes - 3  
 No - 1

Normal annual peak number of simultaneous users  
 No answer - 1

<u># of Users</u>	<u>Per agency</u>	<u>Total</u>	
Three	1	3	
Five	1	5	
<u>Fifteen</u>	<u>1</u>	<u>15</u>	
Totals	3	30	Average - 10 per agency

Describe traffic volume and seasonal patterns
Low traffic normally
During large scale emergencies
Very busy summers

Are additional channels needed, if so when?  
 3 users need zero channels or didn't answer  
 1 user needs three channels (within next 1-2 years)



Is mobile data implemented, if so when?

No answer - 1  
No - 2  
Yes - 1

Is voice encryption implemented, if so when?

No answer - 1  
No - 3

Is trunking implemented, if so when?

No answer - 1  
No - 3

Is digital modulation implemented, if so when?

No answer - 1  
No - 3

Is narrow channel bandwidth implemented, if so when?

No answer - 1  
No - 3

Number of Base Stations

No answer/none - 1  
One - 2  
Two - 1

Site Ownership

Owned - 2  
Leased - 1  
No answer - 1

Tower Type

No answer - 1  
Self-support - 2  
Guyed - 1

Tower Age/Condition

20 years - 1  
20+ years - 1  
24+ years - 1  
No answer - 1  
Good - 1  
No answer - 3

Number of antennas on tower

No answer - 1  
Six - 2  
Ten - 1

Quality of Lightning/Grounding

Adequate - 2  
No Answer - 2

Shelter Structure/Condition

- 2 - No answer
- 1 - Wood, building in good shape
- 1 - Brick, good

Access to Site

- 1 - No answer
- 1 - Main road to airport and Kaycee repeater on Tisdale Mountain through two private land owners on private roads, have locked gates
- 1 - Mostly good access/snow vehicle required in winter
- 1 - Good

Heating

- No answer - 1
- Yes - 2
- No - 1

Ventilation

- No answer - 1
- Yes - 3

Air Conditioning

- No answer - 1
- Yes - 1
- No - 2

Primary Power

- No answer - 2
- Commercial power - 2

Generator

- 3 - No answer - 3
- 1 - 100 kW propane

UPS

- No answer - 4

Site Security

- No answer - 3
- None - 1

Shelter Security

- No answer - 3
- None - 1

Vehicle radios

- Total - 38, average per agency - 9.5
- Data capable - 10 (one agency)
- Transmit power: Maximum - 100 watts, minimum - 1 watts
- Antenna gain: 5 dB
- Radio age: 2 to 8 years

Portable radios

Total - 34  
Data capable - zero  
Transmit power: Maximum - 50 watts, minimum - 5 watts  
Radio age: 2 to 8 years  
In-vehicle repeaters - 1 agencies (In-band)

Portable Accessories

Antennas
Batteries

Control Stations

One - 2  
Two - 1  
No answer - 1  
Total - 4  
Age: 2 years

Dispatch Centers

Locations - 6  
Consoles - 3  
Shared: Yes - 2, No - 1, No answer - 1

Agency	Console Shared With
Torrington Police Dept	Sheriff's Office, Fire Departments, small towns
Buffalo Police Department	SO, BLM, City and County - Fire/Road&Bridge, SALECS, Mutual Aid, City Maintenance

Interference

No - 1  
Occasional - 2  
No answer - 1

Static

No - 2  
Occasional - 1  
No answer - 1

System Maintenance

Radio Dealer - 3  
Self-Maintained - 1  
Not specified - 1  
Note: Combinations that were detailed are included in specific counts above  
Sweetwater County EMA - Self and radio dealers

In-house Test/Programming Equipment

Adequate - 1  
Not adequate - 1  
No answer - 2

In-house Spare Equipment

Replacement antennas and batteries  
Adequate - 1  
Not adequate - 1  
No answer - 2

Annual System Maintenance Budget/Costs

Minimal - 1

No answer - 3

Periodic Recapitalization:

None - 1

No answer - 3

Facility Lease:

\$100.00 - 1

No answer - 3

Telco:

No answer - 4

Backbone Microwave Maintenance:

No answer - 4

Other Maintenance:

No answer - 4

Total System Maintenance:

No answer - 3

One agency submitted - \$10,000 annual budget

Rank System Problems (by priority)

Statewide Coverage:

No answer - 2

Highest (1) - 2

(2) - 0

(3) - 0

(4) - 0

Lowest (5) - 0

System Reliability:

No answer - 2

Highest (1) - 1

(2) - 0

(3) - 1

(4) - 0

Lowest (5) - 0

Interoperability:

No answer - 2

Highest (1) - 0

(2) - 1

(3) - 0

(4) - 0

Lowest (5) - 1

Congestion:

No answer - 2  
Highest (1) - 1  
(2) - 0  
(3) - 0  
(4) - 0  
Lowest (5) - 1

Interference:

No answer - 2  
Highest (1) - 1  
(2) - 0  
(3) - 0  
(4) - 0  
Lowest (5) - 1

Highest (1) - Statewide Coverage @ 1.0  
(2) - System Reliability @ 2.0  
(3) - Interference & Congestion @ 3.0  
(4) -  
Lowest (5) - Interoperability @ 3.5

Agency	UHF Band Remarks
Buffalo PD	County fire, road and bridge and school buses run on one channel and Lodge Grass MT uses the same channel to page their fire dept and have morse code programmed in to play every hour or so which also covers us a lot, especially when busy.

## Use of 800/900 MHz Band

Used by 5 agencies: City of Casper, Buffalo PD, Cheyenne Fire and Rescue Department, 90<sup>th</sup> Medical Group - Warren AFB, Natrona County Fire Protection District

<u>Licenses</u>	<u>Per Agency</u>	<u>Total</u>
One License	3	3
<u>Grand Total</u>		<u>3</u>

<u>System Use</u>	
Exclusive	2
Shared	3 (see below)

Agency	Sharing With
90 <sup>th</sup> Medical Group (USAF)	Cheyenne Fire Department
Natrona County Fire Protection District	No information provided
Buffalo Police Department	SO/BLM/SALECS/county fire, road and bridge, school buses/city fire/mutual aid/city maintenance

Coverage  
 Adequate - 3  
 Not adequate - 2

<u>Channels</u>	<u>Per Agency</u>	<u>Totals</u>	
None listed	1	0	
One	1	1	
Five	2	10	
Eight	1	8	
<u>Grand Total</u>	4	19	Average - 4.75 per agency

Are number of channels adequate  
 Yes - 2  
 No - 2  
 No answer - 1

Normal annual peak number of simultaneous users  
 No answer - 2  
 Five - 1  
 Twenty - 1  
 150 - 1

<u>Describe traffic volume and seasonal patterns</u>
Very busy summers, holiday weekends and weather related problems.
Dramatic traffic increases with working fires, multiple car crashes, special events, etc.

Are additional channels needed, if so when?  
 2 users did not answer  
 2 users need three channels (ASAP)  
 1 user needs five channels (2003)

Is mobile data implemented, if so when?

No - 3

Planned - 2

One - unspecified

One - within 3 years

Is voice encryption implemented, if so when?

Planned - 1, currently under construction

No - 2

Yes - 2

Is trunking implemented, if so when?

No - 2

Yes - 3

Is digital modulation implemented, if so when?

No answer - 1

No - 2

Yes - 2

Number of Base Stations

No answer/none - 1

One - 2

Two - 1

Five - 1

Total - 9

Site Ownership

Owned - 5

Tower Type

No answer - 1

Self-support - 3

Guyed - 1

Tower Age/Condition

No answer/unknown - 2

Under construction - 1

24+ years - 1

New (built August 2002) - 1

Number of antennas on tower

No answer - 2

VHF and a microwave dish - 1

Five - 1

Six - 1

Quality of Lightning/Grounding

Adequate - 2

No answer - 3

Shelter Structure/Condition

No answer - 3

Pre engineered equipment shelter - 1

Miller 12' X 22' concrete 2 room building on a concrete foundation with 8' walls that extend below the frost line, building set in April of 2002 - 1

Access to Site

No answer - 2

Described as easy - 3

Heating

No answer - 2

Yes - 2

No - 1

Ventilation

No answer - 3

Yes - 2

Air Conditioning

No answer - 2

Yes - 2

No - 1

Primary Power

No answer - 2

Commercial power - 3

Generator

No answer - 4

35 kW, propane -1

UPS

No answer - 3

Yes - 2 (One at 18 kVA)

Site Security

No answer/unknown - 4

Video system to be installed in next few months with live feed to dispatch center - 1

Shelter Security

No answer/unknown - 4

Intrusion alarms on entry doors, full MOSCAD monitoring of all system at site with alarms relayed to the Casper dispatch center and Motorola Network Monitoring Service - 1

Vehicle radios

Total - 143

Data capable - 92 (one agency - Casper)

Transmit power: Maximum - 50 watts (one agency), minimum - 35 watts (two agencies)

Antenna gain: None reported

Radio age: No answer - 2, One - 1, Eight - 1, One - New

Portable radios

Total - 312

Data capable - 189 (City of Casper)

Transmit power: Maximum - 50 watts - 1, minimum - 3 watts - 2

Radio age: No answer - 4, New - 1

In-vehicle repeaters - 5 agencies (two cross-band to UHF)



Portable Accessories

Carriers and shoulder mic

Control Stations

Two - 1  
Eight - 1  
Seventeen - 1  
Total - 27

Dispatch Centers

Locations - 4  
Consoles - 10  
Shared: Yes - 3, No answer - 2

Agency	Console Shared With
Cheyenne Fire and Rescue Department	Vol. Fire Dist., EMS
City of Casper	Natrona County Fire Protection District, Mill FD, Bar Nunn FD, Casper Mountain FD, Airport FD, Salt Creek Emergency Services, Wyoming Medical Center, Natrona County Sheriff , and several smaller users
Buffalo Police Department	SO/BLM/SALECS/county fire, road and bridge ,school buses/city fire/city maintenance/mutual aid

Interference

No answer - 2  
No - 2  
Occasional - 1

Static

No Answer - 2  
No - 2  
Occasional - 1

System Maintenance

No answer - 2  
Radio Dealer - 2  
Factory Service - 1

In-house Test/Programming Equipment

No answer - 4  
Adequate - 1

In-house Spare Equipment

No answer - 5

Annual System Maintenance Budget/Costs

Loaded Labor:  
No answer - 5

Periodic Recapitalization:

No answer - 5

Facility Lease:

No answer - 4  
Leased - 1

Telco:

No answer - 5

Backbone Microwave Maintenance:

No answer - 4  
Owned - 1

Other Maintenance:

No answer -5

Total System Maintenance:

No answer - 5

Rank System Problems (by priority)

Statewide Coverage:

No answer - 1  
Highest (1) - 2  
(2) - 0  
(3) - 1  
(4) - 0  
Lowest (5) - 1

System Reliability:

No answer - 2  
Highest (1) - 1  
(2) - 0  
(3) - 1  
(4) - 0  
Lowest (5) - 1

Interoperability:

No answer - 1  
Highest (1) - 0  
(2) - 1  
(3) - 2  
(4) - 0  
Lowest (5) - 1

Congestion:

No answer - 2  
Highest (1) - 1  
(2) - 0  
(3) - 1  
(4) - 0  
Lowest (5) - 1

Interference:

- No answer - 2
- Highest (1) - 1
- (2) - 0
- (3) - 1
- (4) - 0
- Lowest (5) - 1

- Highest (1) - Statewide Coverage @ 2.5
- (2) - System Reliability & Interference & Congestion @ 3.0
- (3) -
- (4) -
- Lowest (5) - Interoperability @ 3.25

Agency	800/900 MHz Remarks
Cheyenne Fire and Rescue Department	This system is currently in the procurement/implementation phase with scheduled completion in the fall of 2003.
Buffalo PD	County fire, road and bridge and school buses are on one channel and also on the same channel Lodge Grass in MT pages and talks to their fire dept and also have in morse code every hour it gives their call letters which no matter what is going on the
City of Casper	The City of Casper has a state of the art communications system that meets all of our needs. I am anticipating that we will install a stand alone mobile data system for police and fire within 2003. The system has room for future growth, for example

## Commercial Alternatives

Alternatives Tried/Considered to PSMC  
Agencies - 25

Which Technologies Have Been Tried

Cellular - 24

PCS - 1

Combinations - 4

Cellular and Wireless - 1

Cellular and Radio - 1

Cellular and Satellite - 2

Results of Trying Alternative Technology

Highly Satisfactory - 2

Partly Satisfactory - 20

Unsatisfactory - 5

Less than highly satisfied with alternative services:

Agency	Comments
Sweetwater County EMA	Rural cellular coverage, lots of dead spots and channel capability when an emergency occurs.
Converse County School District #2	Some areas in WY are part digital, part analog. There doesn't seem to be enough towers -- hills, valleys and sometimes just lower spots on the interstate causes havoc
Park County Fire District #2	Cell phones afford us an alternative to strictly using land mobile radios for some types of communications.
Natrona County Fire Protection District	Dead areas for cellular/wireless is used only for data transmission to our station from our dispatch center, it works fine
Cheyenne Fire & Rescue Dept.	Good for daily administrative functions, unreliable for emergencies
Town of Diamondville	Poor coverage areas and heavy use times with no service. High cost of using
Basin PD	Unreliable compared to our current radio system, cell site is down once and a while, on some days the traffic is very heavy, missed calls or dropped calls
Wamsutter PD	Cell phone coverage is not adequate in our area to completely eliminate a mobile radio system
Torrington PD	Cost
Sinclair PD	Cellular phone and radio conversations are not secure.
Sublette County SO	Cost to much
Pine Haven FD	There are not enough towers in NE Wyoming to maintain a signal
Uinta County Government	Sometimes cellular coverage is spotty
Teton County SO	Still have coverage issues
Uinta County Fire Protection	Cellular coverage is spotty
Sheridan PD	Cell phone service is too sporadic and spotty to be effective in our county. We use cell phones just for a backup and not an alternative.
North Albany	There are not enough towers to service this mountainous area, lots of dead spots! But we do use them where possible

Agency	Comments
Campbell County Memorial Hospital	Cellular complements radio communication but isn't capable of all aspects of emergency services communication
WY State Forestry Division	Limited coverage by commercial service available: only provides one-on-one communication.
City of Sheridan Fire-Rescue	The cell phone coverage has the same coverage problems as the current wireless system, large areas with no or weak service.
City of Sheridan	Limited coverage and cost.
BLM	Encounter dead spots with cellular. Satellite highly satisfactory

## Future Radio System Needs

### Public Safety Radio System Improvements (funded by October 2002)

#### Base Stations

Agencies - 7

Quantity - 11

Average Budget - \$45,200 (Note: 6 base stations show funding)

Agency	Quantity	Budget	Implementation Date
Town of Kirby	1	\$0	None
Basin PD	1	\$1,200	½002
Johnson County SO	2	\$160,000	
Torrington PD	1	\$30,000	2005
University of WY Police	2		
Buffalo PD	2	\$80,000	October 2000
Alpha Communications	2		

#### Repeaters

Agencies - 7

Quantity - 13

Average Budget - \$10,750 (Note: 10 repeaters show funding)

Agency	Quantity	Budget	Implementation Date
Torrington PD	1	\$5,000	2005
Platte County SO/EMA	1	\$10,000	
Buffalo PD	2	\$60,000	October 2000
Jackson / Teton County FD	4	\$15,000	Complete
Lincoln County SO	1	\$10,000	01/02/2003
Washakie County SO	1	\$7,500	01-30-03
Alpha Communications	3		

#### Mobiles

Agencies - 13

Quantity - 104

Average Budget - \$4,390 (Note: 49 mobiles show funding)

Agency	Quantity	Budget	Implementation Date
Town of Diamondville	2	\$900	10/2001
Town of Bear River	1	\$154,000	Jan. 2003
Wamsutter PD	2		1/15/02
Green River PD	2	\$8,000	3-31-03
Torrington PD	6	\$6,000	2006
Buffalo PD	18		
Jackson / Teton County FD	10	\$10,000	Complete
Teton County SO	6	\$9,000	10/2002
Town of Edgerton	6	\$2,000	
Cheyenne PD	12	\$9,600	
Campbell County Memorial Hospital	1	\$6,600	Feb 03
WHP	3	\$9,000	4/03
Alpha Communications	35		

Portables

Agencies - 12

Quantity - 243

Average Budget - \$500 (Note: 174 portables show funding)

Agency	Quantity	Budget	Implementation Date
Elk Mountain Volunteer FD	1	\$650	3/1/03
Torrington PD	15	\$10,000	2007
University of WY Police	15		
Buffalo PD	19		
Sinclair PD	3	\$3,500	07/99
Jackson / Teton County FD	6	\$4,000	Complete
Teton County SO	4	\$3,600	10/2002
Town of Edgerton	14	\$8,500	
Campbell County Memorial Hospital	2	\$1,200	March 03
City of Sheridan Fire-Rescue	4	\$2,500	10/01/2002
Maintenance	125	\$53,000	5-1-03
Alpha Communications	35		

Control Stations

Agencies - 3

Quantity - 9

Average Budget - \$25,714 (Note: 7 control stations show funding)

Agency	Quantity	Budget	Implementation Date
Buffalo PD	2	\$140,000	October 2000
Maintenance	5	\$40,000	6-1-03
Alpha Communications	2		

Dispatch Consoles

Agencies - 4

Quantity - 7

Average Budget - \$48,800 (Note: 5 dispatch consoles show funding)

Agency	Quantity	Budget	Implementation Date
Johnson County SO	2	\$64,000	
Torrington PD	1	\$20,000	2006
Buffalo PD	2	\$160,000	October 2000
Alpha Communications	2		

Dispatch Locations

Agencies - 2

Quantity - 2

Average Budget - Unknown (Note: No dispatch locations show funding)

Agency	Quantity	Budget	Implementation Date
Buffalo PD	1		
Alpha Communications	1		

Mobile Data Terminals  
 Agencies - 2  
 Quantity - 16  
 Average Budget - \$14,000

Agency	Quantity	Budget	Implementation Date
Torrington PD	6	\$10,000	2007
Laramie PD	10	\$214,000	9/03

Radio Channels  
 Agencies - 4  
 Quantity - 15  
 Average Budget - \$1,800 (Note: 3 channels show funding)

Agency	Quantity	Budget	Implementation Date
Torrington PD	2	\$5,000	2007
Buffalo PD	8		
City of Sheridan Fire-Rescue	1	\$400	2/1/2003
Alpha Communications	4		

Other Growth Components (funded by October 2002)

Agency	Future Growth
Newcastle Volunteer FD	None at this time
Town of Bear River	FEMA granted \$138,600.00
Basin PD	No growth in these areas
Wamsutter PD	Also purchased 8 new pagers for ambulance and fire
Jackson / Teton County FD	We are working on updating all of our mobile radio
Cheyenne PD	Planning on combining with the Sheriff's Dept
BLM	Remote control of base and repeater stations
Washakie County SO	Nothing new planned at this time. dispatch center

Public Safety Radio System Expected Growth (next five years - not included previously)

Base Stations  
 Agencies - 20  
 Quantity - 44

Agency	Base Stations
90th Medical Group (USAF)	6
Natrona County Fire Protection District	3
Newcastle Volunteer FD	1
Town of Bear River	1
Basin PD	1
Powell PD	2
Buffalo PD	1
Jackson / Teton County FD	1
Gillette PD	1
City of Casper	5
Pine Haven FD	1
Town of Yoder	1



Agency	Base Stations
Sheridan PD	1
Town of Edgerton	4
BLM	2
WHP	3
Mutual Aid	3
Maintenance	3
SALECS	3
Alpha Communications	1

**Mobiles**

Agencies - 32

Quantity - 482

Agency	Mobiles
Natrona County Fire Protection District	10
Town of Diamondville	1
Newcastle Volunteer FD	3
Town of Bear River	1
Basin PD	1
Bar Nunn Volunteer FD	6
Wamsutter PD	1
Elk Mountain Volunteer FD	2
Green River PD	10
Johnson County SO	3
Powell PD	3
Buffalo PD	4
Sinclair PD	1
Jackson / Teton County FD	30
Gillette PD	3
Rock Springs PD	3
City of Casper	243
Pine Haven FD	4
Lincoln County SO	15
Teton County SO	4
Town of Yoder	15
Sheridan PD	5
Moorcroft PD	Two
Town of Edgerton	5
Cheyenne PD	5-10
City of Sheridan	10
BLM	20
Albany County Firefighters	20
WHP	15
Maintenance	25
Newcastle PD	2
Alpha Communications	5

Portables

Agencies - 32  
Quantity - 638

Agency	Portables
Natrona County Fire Protection District	20
Town of Diamondville	3
Newcastle Volunteer FD	5
Basin PD	2
Bar Nunn Volunteer FD	10
Wamsutter PD	2
Elk Mountain Volunteer FD	1
Green River PD	20
Johnson County SO	3
Platte County SO/EMA	25
Buffalo PD	4
Sinclair PD	3
Jackson / Teton County FD	50
Gillette PD	3
Rock Springs PD	3
City of Casper	263
Pine Haven FD	10
Lincoln County SO	15
Teton County SO	4
Town of Yoder	25
Sheridan PD	5
Moorcroft PD	Two
Town of Edgerton	5
Cheyenne PD	5-10
City of Sheridan Fire-Rescue	5
City of Sheridan	5
BLM	20
Albany County Firefighters	65
WHP	15
Maintenance	25
Newcastle PD	5
Alpha Communications	5

Control Stations

Agencies - 6  
Quantity - 35

Agency	Control Stations
90th Medical Group (USAF)	3
Town of Diamondville	1
Buffalo PD	1
City of Casper	27
BLM	2
Alpha Communications	1

Dispatch Consoles

Agencies - 8  
Quantity - 17

Agency	Dispatch Consoles
90th Medical Group (USAF)	3
Newcastle Volunteer FD	1
Platte County SO/EMA	1
Buffalo PD	1
Rock Springs PD	2
Cheyenne PD	4-6
BLM	2
Alpha Communications	1

Mobile Data Terminals

Agencies - 9  
Quantity - 234

Agency	Mobile Data Terminals
90th Medical Group (USAF)	12
Natrona County Fire Protection District	20
Green River PD	23
Powell PD	15
Gillette PD	30
Rock Springs PD	40
City of Casper	80
Laramie PD	10
Teton County SO	4

Additional Radio Channels

Agencies - 12  
Quantity - 29

Agency	Radio Channels
90th Medical Group (USAF)	4
Natrona County Fire Protection District	2
Newcastle Volunteer FD	2
Basin PD	1
Bar Nunn Volunteer FD	5
Johnson County SO	2
Platte County SO/EMA	1
Buffalo PD	3
Gillette PD	1
Rock Springs PD	1
City of Casper	5
Alpha Communications	2

Other Growth Components  
Agencies - 12

Agency	Other Growth Components/Comments
90th Medical Group (USAF)	Projected implementation of military VHF digital trunked radio system in 2006.
Converse County School District #2	More cell phones and update radios -- most are parts obsolete
Cheyenne Fire & Rescue Dept.	It is anticipated that this system will provide a migration path for other sub groups of the City of Cheyenne, i.e., Public Works, Police, Transit, Engineering
Town of Bear River	We are in the process of getting a \$86,000 grant for a future fire building to store the fire truck. We also applied for a \$1000 grant with Wal-Mart for radios, pagers, etc. in which we have not heard back as of yet.
Basin PD	Attempting to set up a mobile command post, dispatch center in 2003 in case of disaster. The vehicle, 1992 Type 1 ambulance, was donated for this project, and all necessary items to convert vehicle are done through donations by the communities, we hope
Wamsutter PD	Will need to replace between 2 to 5 pagers
Buffalo PD	Need to get Road & Bridge and school buses on own channels. Get with Forest Service and put their radios in dispatch and in vehicles and portable to use their repeaters where we can have better coverage on the mountains. Put up a couple more repeaters
City of Casper	We are currently working with Motorola for the above build-out plan
Pine Haven FD	Radio controlled warning siren system
City of Sheridan Fire-Rescue	Replacement of older mobile and portable radios. Additional frequency for tactical operations and interoperability problems. Paging system.
Park County SO	Very difficult to estimate growth as all requests for additional services have been refused because of uncertain path toward statewide plan and financial reasons.
WHP	Microwave migration project

Does your organization need to communicate using voice PSMC with others that cannot now be done? Agencies - 19 (26%)

Agency	Voice Interop Needed	With Whom?
Cheyenne Fire & Rescue Dept.	yes	With just about anyone you can think of at times
Town of Kirby	yes	Thermopolis Police & Fire Dept. located 12 miles to the south.
Town of Bear River	yes	Uinta County, US Forest Service, Highway Patrol, BLM & Deseret (State of Utah)
Basin PD	yes	Law Enforcement, Fire, EMS, Search and Rescue, WY Hwy Patrol, etc.
Torrington PD	yes	Nebraska State Patrol, Scottsbluff NE, Gering NE
Buffalo PD	yes	Forest Service could use dispatch when their's is closed and we could use their radio towers for safety of all involved
Sinclair PD	yes	Rawlins Police Department Rawlins, (Carbon County) WY
Laramie PD	yes	Forest Service, State Patrol, WYDOT, various depending on situation
Moorcroft PD	yes	Wyoming Highway Patrol
WY State Forestry Division	yes	NE Fire, BLM narrowband digital, 800MHz system; others?
City of Sheridan Fire-Rescue	yes	Surrounding counties and other local government public safety agencies.
City of Sheridan	yes	Local Government Public Safety Agencies
Park County SO	yes	
BLM	yes	All State and local fire & law organizations
Albany County Firefighters	yes	
WHP	yes	See interview with WHP 12/2002.
Mutual Aid	yes	Reference statewide consultant interviews and various agency web surveys to answer this, and rate priority. Various-MA is not repeated WHP- MA is muted at dispatch, Patrol Troopers monitor the frequency and notify dispatch of traffic on their frequency
Maintenance	yes	Often have to relay messages through dispatchers, even when communication with WHP
SALECS	yes	See interview and web-based survey input from Livestock Board, Game and Fish and DCI.

How important is this need?  
 Mission Critical - 9  
 Regular Operations - 15  
 Optional -16

Does your organization need to communicate using data PSMC with others that cannot now be done? Agencies - 11 (15%)

Agency	Data Interop Needed	With Whom?
90th Medical Group (USAF)	yes	Cheyenne Fire Dept.
Cheyenne Fire & Rescue Dept.	yes	
Town of Bear River	yes	Uinta County, US Forest Service, Highway Patrol, BLM & Deseret (State of Utah)
Green River PD	yes	NCIC
Sinclair PD	yes	Rawlins Police Department Rawlins, (Carbon County) WY
Gillette PD	yes	
City of Sheridan Fire-Rescue	yes	Local government public safety.
WHP	yes	Check for 10-27, 28 and 29 as discussed at WHP interview.
Mutual Aid	yes	Reference statewide interviews.
Maintenance	yes	Documented data comms records in ITS strategic plan. RE has a copy.
SALECS	yes	See interview and web-based survey input from Livestock Board, Game and Fish and DCI

How important is this need?  
 Mission Critical - 1  
 Regular Operations - 6  
 Optional - 24

Does your organization require encryption for voice or data PSMC communications?  
 Agencies - 17 (24%)

How important is this need?  
 Mission Critical - 7  
 Regular Operations - 8  
 Optional - 20

In light of recent events, what other system features or capabilities would be required to enhance Homeland Security? Input from 22 agencies.

Agency	Homeland Security Features
90th Medical Group (USAF)	Military systems require NSA (National Security Agency) approved Type I encryption.
Sweetwater County EMA	EMP
Park County Fire District #2	Possibly some preassigned simplex frequencies for major incidents to be used as tactical channels.
Town of Kirby	Kirby does not have a policeman or any means to communicate other than a land line telephone. Cell phones do not work in Kirby. If the telephone system was taken out by terrorist, Kirby would lose all contact with the outside world.
Town of Diamondville	Data transmission
Newcastle Volunteer FD	Total encryption of all frequencies used.
Town of Bear River	That our radio capabilities are good enough to get all incoming fires, etc. to help everyone in the community as soon as we get the call.
Basin PD	Basically encryption would help, additional dispatchers would also be of benefit on a day-to-day basis, we have a second frequency, 155.250 that we can use, but it does not go through dispatch, we use this to communicate with each other without aid
Wamsutter PD	Better dissemination of information to our small jurisdiction as to alerts, info. etc.
Buffalo PD	We need another location for dispatch to be able to work from and use pagers because at this point we have only one location and one other possible radio to talk on a couple channels but no other way of paging and all information needed is also in on
Sinclair PD	An ability to communicate, when necessary, with other local agencies in a timely manner. Mutual Aid and cross-channel are not reliable alternatives.
City of Casper	Additional portable radios for out of area resources that may respond into our area.
Town of Yoder	A repeater to improve geographical coverage. Satellite phones to have in our command unit.
Sheridan PD	Full time encryption of radio channels would be a good idea.
City of Sheridan Fire-Rescue	The State of Wyoming is considering regional response teams for hazardous material incidents and weapons of mass destruction incidents - communications within this system will be critical.
City of Sheridan	Joint communication with all agencies involved.
Park County SO	In future system - Tactical talk groups available to all agencies and that also appear at all dispatch points. They would be a common channel to use for a multi-agency response so everyone can know what's going on.
BLM	AVL
WHP	See results of WHP interview 12/02.
Mutual Aid	Reference statewide interviews, individual agency web surveys.
SALECS	See interview and web-based survey results.
Thermopolis PD	Interoperability

Rate future enhanced features you will need to provide for resolving life-safety issues that are not currently being met:

Feature	No Response	High (3)	Medium (2)	Low (1)	Overall Rating
Paging	17	23	17	13	2.189
Statewide Roaming Coverage	16	16	15	25	1.839
Mobile Data Access	17	15	16	24	1.836
Automatic Vehicle Location	15	9	24	24	1.737
Mobile Identification	19	9	15	29	1.623
Mobile Video	17	8	15	31	1.574
Mobile E-mail	18	7	12	35	1.481
Mobile Card Swipe	21	5	10	36	1.392
Mobile Voicemail	18	3	15	36	1.389
Mobile Printing	19	5	10	38	1.377
Other - Encryption		1			
Other - Radio activated siren		1			



What other features, benefits, design considerations, and general input do you have to offer concerning your future radio system requirements?

Agency	Comments
90th Medical Group (USAF)	Must be a modular system capable of future expansion. Should also use commercial off-the-shelf technologies/equipment and be software upgradeable.
Newcastle Volunteer FD	The new system "must" be user friendly. NO laptop programing or software.
Town of Bear River	The town's goal is to have the same radio capabilities as the surrounding counties so we are able to help our town with fires as well as the surrounding communities. We plan on communicating with the Highway Patrol, Uinta County, BLM & Deseret
Basin PD	Due to the vast open area in Wyoming, radio communication is very critical, on my way to WLEA I have had two occasions where I tried to contact Patrol on Mutual Aid and had not been able, one for a stranded motorist and one for an ambulance
Buffalo PD	More repeaters and towers to eliminate the dead spots. More personnel to work peak times.
City of Casper	This survey is to technical.
Pine Haven FD	Pine Haven, WY located next to Keyhole State Park and Reservoir was incorporated on March 17, 1987 and is one of the fastest growing towns in the State. As of December 13, 2002 we had 189 homes on the town water system with 140 being occupied by permanent residents
Town of Yoder	With the rumor of the State going to 800 MHz, it would be helpful for the government to give funding to low income communities, such as Yoder, to help with the change over. The cost of buying new radio equipment solely purchased by the Town of Yoder
North Albany	Our system works great. We can talk to Forest Service, BLM, County (if we did not have bus traffic)
City of Sheridan Fire-Rescue	The wireless equipment being used today is old and has passed its prime operating age. We are experiencing more problems and repairs are getting expensive and parts are becoming scarce. Wireless communications is critical to the operation of the Fire Department
Mutual Aid	Vehicle and Portable Radios: guessed on dispatch list of agencies authorized to use MA. See statewide interview results and various agency web surveys.