State of Wyoming

Public Safety Communications Commission

~ 2016 Annual Report to the Governor of the State of Wyoming ~

Mission Statement and Statutory Responsibilities

The mission of the Wyoming Public Safety Communications Commission (PSCC) is to develop recommendations for policy and guidelines, identify technology and standards, and coordinate intergovernmental resources to facilitate statewide wireless communications interoperability with emphasis on public safety.

Wyoming Statute 9-2-1104 states the commission shall:

(ii)   Report in writing each year in October to the governor concerning any problems related to the installation, operation and maintenance of the system and shall make any recommendations it deems appropriate as part of the report.
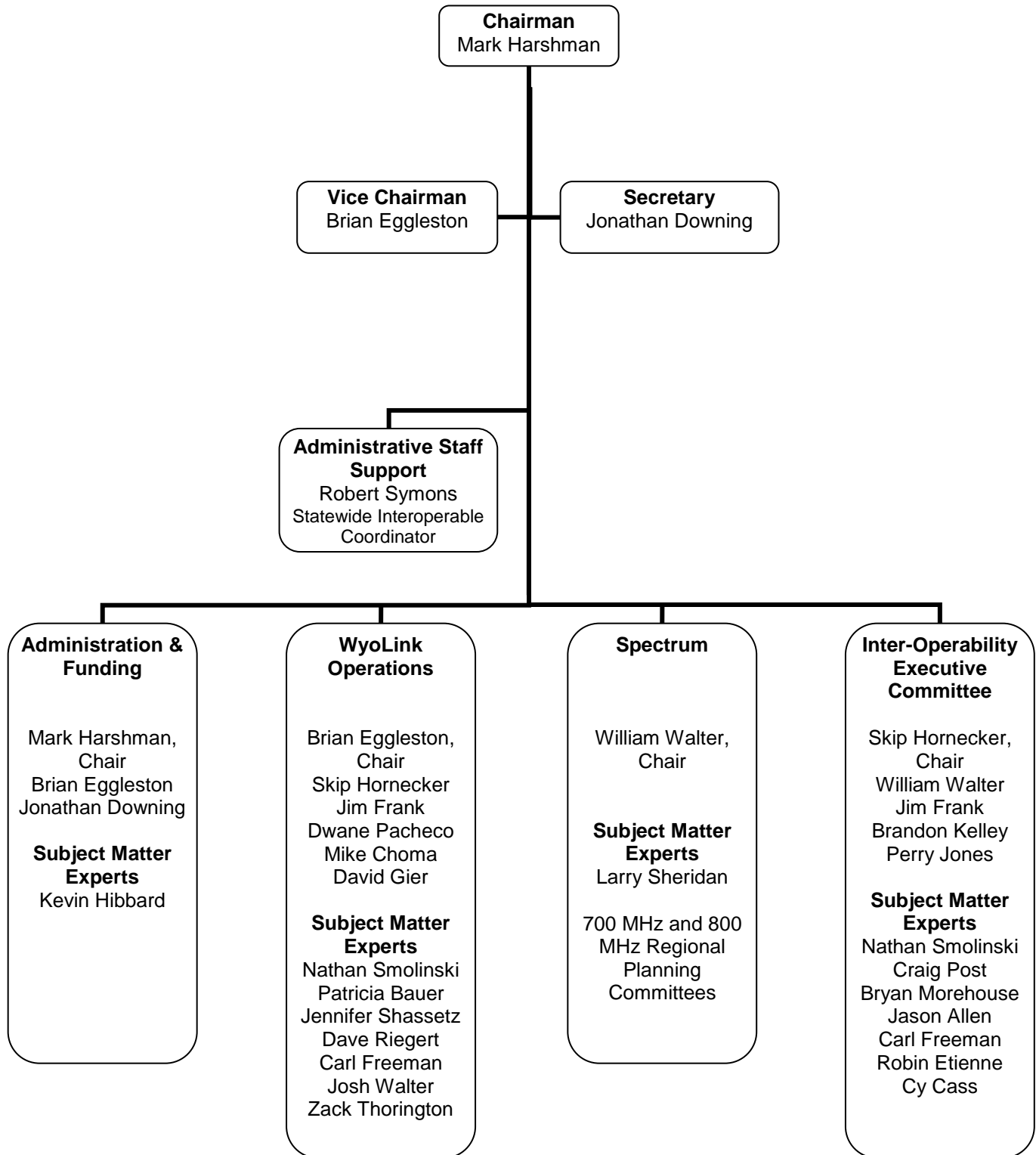
Achievements for 2016

The Public Safety Communications Commission (PSCC) and the WyoLink program have achieved many accomplishments and goals this past year:

- ➢ 75 total WyoLink sites operational
- ➢ Seven local government owned 800 MHz sites are operational in Casper, Cheyenne, Gillette and Glenrock. These sites provide seamless interoperability between the WyoLink VHF users and 800 MHz users
- ➢ WyoLink operating software was updated to Version 7.16
- ➢ Dispatch Center Grant developed, application process defined, grant applications processed and five grant awards for a total of $756,998. Grants were awarded to: Riverton Police Department - $156,371, Sheridan Police Department - $149,153, Niobrara County - $132,960, Crook County - $123,248 and Teton County - $195,269
- ➢ Quarterly PSCC meetings were held in Cheyenne (December 2015), Casper (March 2016), Riverton (June 2016) and Gillette (September 2016).
- ➢ Approved the revised WyoLink Handbook
- ➢ Completed and approved the Statewide Interoperable Communication Plan (SCIP) and forwarded to Department of Homeland Security, Office of Emergency Communications
- ➢ Public Safety Communications Commission Administrative Staff Support moved from Wyoming Office of Homeland Security to Wyoming Department of Transportation

Commission Members and Operating Structure

The PSCC is comprised of representatives appointed by the Governor from the following public safety agencies, professional associations, and state departments:

Representing	Name	Location
Wyoming Police Chief's Association	Dwane Pacheco, Police Chief	Rock Springs
Wyoming Sheriff's Association	Skip Hornecker, Sheriff	Fremont County
Division of Criminal Investigation, Office of the Attorney General	Brian Eggleston, DCI	Riverton
Wyoming Game and Fish Department	Mike Choma, Wildlife Law Enforcement Supervisor	Casper
Wyoming Department of Transportation	Major Perry Jones, Wyoming Highway Patrol	Cheyenne
Wyoming Livestock Board	Jimmy Siler, Law Enforcement Administrator	Cheyenne
Department of State Parks and Cultural Resources	Dennis Cease, Law Enforcement Supervisor	Laramie
Wyoming Fire Chief's Association	Mark Harshman, Division Chief Casper Fire Department	Casper
Wyoming State Fire Marshal	Mark Young, Assistant State Fire Marshal	Cheyenne
Wyoming Office of Homeland Security	Jim Frank, Senior Communications Officer	Cheyenne
The Public at Large	Jonathan Downing	Cheyenne
Ambulance and Emergency Medical Services Organization	David Gier	Rawlins
Municipal Government or a municipal government association	William (Doug) Frank, Glenrock Mayor	Glenrock
County Government or county government association	Lindy Glode, Carbon County Commissioner	Saratoga
Wyoming Department of Health	Brandon Kelley, EMS Education & Compliance Supervisor	Cheyenne
Tribal Government or tribal government association	Leslie Shakespeare, Eastern Shoshone Tribal Liaison	Fort Washakie
Federal Government or federal government association	William Walter	Cheyenne

Chairman
Mark Harshman

Vice Chairman
Brian Eggleston

Secretary
Jonathan Downing

Administrative Staff Support
Robert Symons
Statewide Interoperable Coordinator

Administration & Funding

Mark Harshman, Chair
Brian Eggleston
Jonathan Downing

Subject Matter Experts
Kevin Hibbard

WyoLink Operations

Brian Eggleston, Chair
Skip Hornecker
Jim Frank
Dwane Pacheco
Mike Choma
David Gier

Subject Matter Experts
Nathan Smolinski
Patricia Bauer
Jennifer Shassetz
Dave Riegert
Carl Freeman
Josh Walter
Zack Thorington

Spectrum

William Walter, Chair

Subject Matter Experts
Larry Sheridan

700 MHz and 800 MHz Regional Planning Committees

Inter-Operability Executive Committee

Skip Hornecker, Chair
William Walter
Jim Frank
Brandon Kelley
Perry Jones

Subject Matter Experts
Nathan Smolinski
Craig Post
Bryan Morehouse
Jason Allen
Carl Freeman
Robin Etienne
Cy Cass

Wyoming PSCC Organization Chart
(Effective 10/31/2016)

Activities

Ongoing projects include:

- ➢ WyoLink Usage Audit
- ➢ PSCC Recommendations for WyoLink
- ➢ PSCC and WyoLink website updates at http://WyoLink.wyoming.gov
- ➢ WyoLink coverage testing and mapping
- ➢ Update Wyoming Communication Field Operating Guide
- ➢ Nationwide Public Safety Broadband Network and FirstNet planning

Priorities for 2017

- ➢ Continue the emphasis on increasing utilization and partnerships
- ➢ Communication and collaboration with potential user agencies on WyoLink membership
- ➢ Collaboration with the Governor's Office, Homeland Security, and WYDOT reviewing PSCC governance structure and developing legislation for potential modifications
- ➢ Work with the Wyoming Office of the Chief Information Officer (CIO) and Department of Enterprise Technology Services on public safety broadband usage and needs through the State and Local Improvement Grant Program (SLIGP)

Challenges

WyoLink Funding

The Public Safety Communications Commission (PSCC), with the assistance of the Department Administration and Information, Budget and Economic Analysis Divisions, developed their recommendations for fiscal years 2017/2018 and 2019/2020. This process used a survey of all current WyoLink members to develop the list of recommendations and budgetary costs. The survey resulted in 179 responses from the 297 WyoLink members, a 60% response rate. The questions within the survey requested information about usage, coverage, dependability, training, system maintenance, consoles and end users equipment purchases.

The PSCC reviewed the WyoLink survey results and identified recommendations for: mobile radio coverage, portable radio coverage, replacement of WyoLink Site base radios, ongoing hardware and software maintenance costs, improvements to training and radio frequency challenges. Six (6) additional core towers were identified with a one-time funding of $6 million and nine (9) portable radio enhancement sites with a one-time funding of $9 million.

The vendor has stated the Quantar Base radio will be obsoleted in 2020 and must be replaced before WyoLink can be upgraded to version 7.18. The 346 Quantar base radios will need to be replaced with GTR8000 base radios with an estimated cost of $6,700,000. Hardware and software maintenance costs are estimated at $4,895,654 for biennial fiscal years 2017/2018, which includes an approximate savings of $1,066,824 with a conversion of leased T1 lines to the Broadband Unified Network. The estimated biennial fiscal years 2019/2020 maintenance costs are $5,073,104.

The Public Safety Communications Commission will work with the Governor's Office, Wyoming Department of Transportation, and Administration and Information Budget Division to review the WyoLink recommendations and development of funding mechanisms.

WyoLink Coverage

The WyoLink users survey and mobile radio coverage testing has identified areas with poor or no WyoLink coverage. The PSCC identified the following priorities for improved WyoLink coverage and based their recommendations on those areas which would improve mobile radio coverage (core) and community based portable radio coverage.
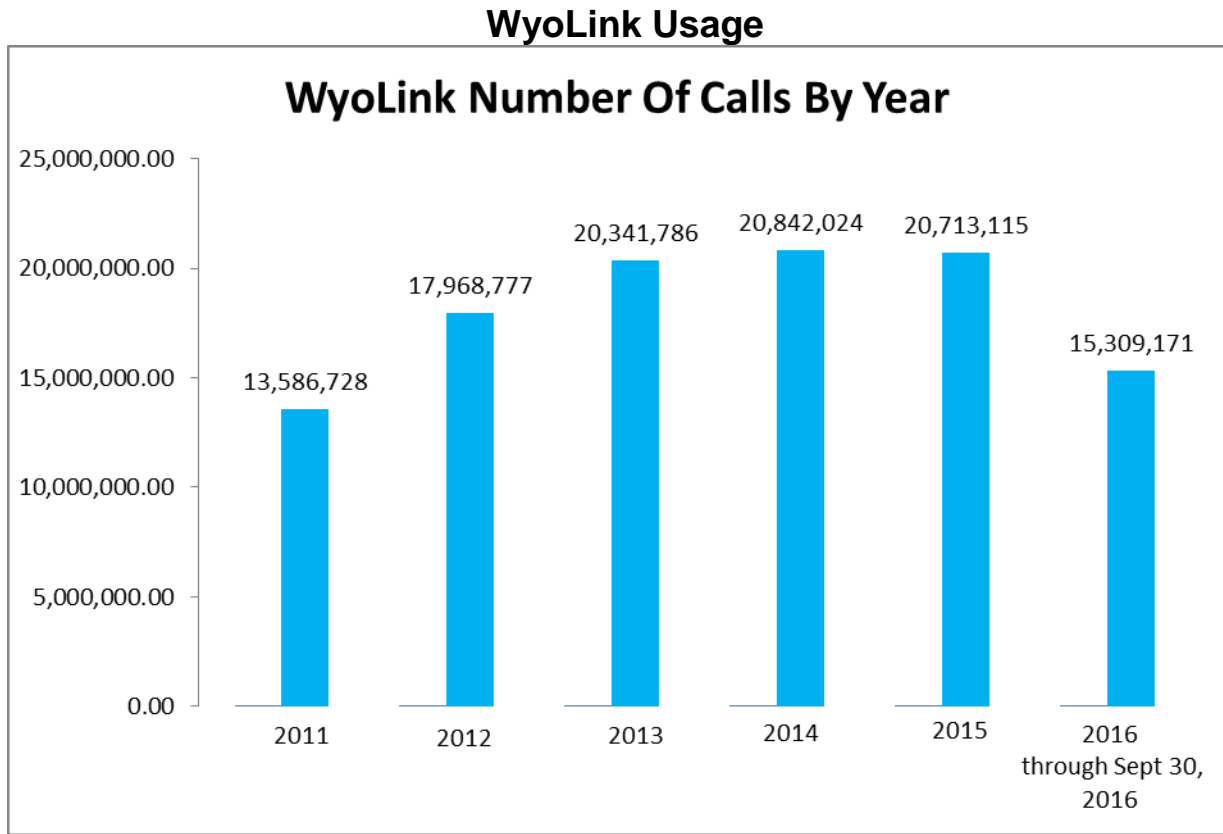
The core areas recommended include: Alcova Reservoir area, Natrona County has added a 800 MHz site and a VHF addition to this site would improve coverage for all WyoLink users. The Bondurant area in north western Sublette County, Northern Goshen County, southern portion of Big Horn Mountains between Buffalo and Worland – Ten Sleep area, northern Big Horn County and Orin Junction area. The portable enhancement areas include Rock Springs, Evanston, Jackson, Buffalo, Newcastle, Sundance, Greybull, Lusk and Wright. Potential construction savings could be realized by adding to existing sites, Alcova, or through placement of core sites which could also improve portable radio coverage, northern Goshen County and Lusk. The PSCC, WYDOT and WyoLink will review all potential new sites for sharing opportunities and locations which could improve both core and portable radio coverage needs.

FirstNet - National Public Safety Broadband Network (NPSBN)

The National Public Safety Broadband Network (NPSBN) will be a public safety data communication system and **FirstNet will not replace WyoLink for public safety voice communications**. The State of Wyoming has designated Troy Babbitt as the state point of contact (SPOC) and the PSCC has created a Broadband Work Group to assist with the governance of the public safety broadband effort in Wyoming.

FirstNet has stated it will award the private partnership according to the Request for Proposal for the development and operation of the National Public Safety Broadband Network (NPSBN) in November or December 2016. Upon the naming of the private partner, members of the FirstNet outreach and design teams will work closely with the designated state point of contact to develop and deliver a network deployment plan. FirstNet will then provide the Governor a notice of completion of the request for proposal process, the details of the proposed plan and the funding level for the state. FirstNet's goal is to present the Wyoming NPSBN plan to the Governor in the third quarter of 2017. The Governor will have 90 days to review the plan and then determine if Wyoming will Opt-In or Opt-Out of the NPSBN plan. If the Governor decides to Opt-In to the FirstNet Wyoming plan, FirstNet and their partner will build and operate the Radio Access Network (RAN) in Wyoming with no funding from the state of Wyoming. The user fees from agencies participating in the NPSBN will be used to expand and operate the network.

If the governor decides to Opt-Out, the Governor is required to notify FirstNet, National Telecommunications and Information Administration (NTIA) and Federal Communications Commission (FCC). After providing the Opt-Out notification, the Governor has 180 days to develop and complete requests for proposals for the construction, maintenance and operations of the Radio Access Network (RAN) within the state. Wyoming is then required to submit an alternative plan to the FCC that is interoperable with the NPSBN and complies with the minimum technical interoperability requires under the Act.

WyoLink Usage

WyoLink Number Of Calls By Year

WyoLink Usage by Time - Oct 2015 – Sept 2016: **38,334:47:30** (hours:minutes:seconds)

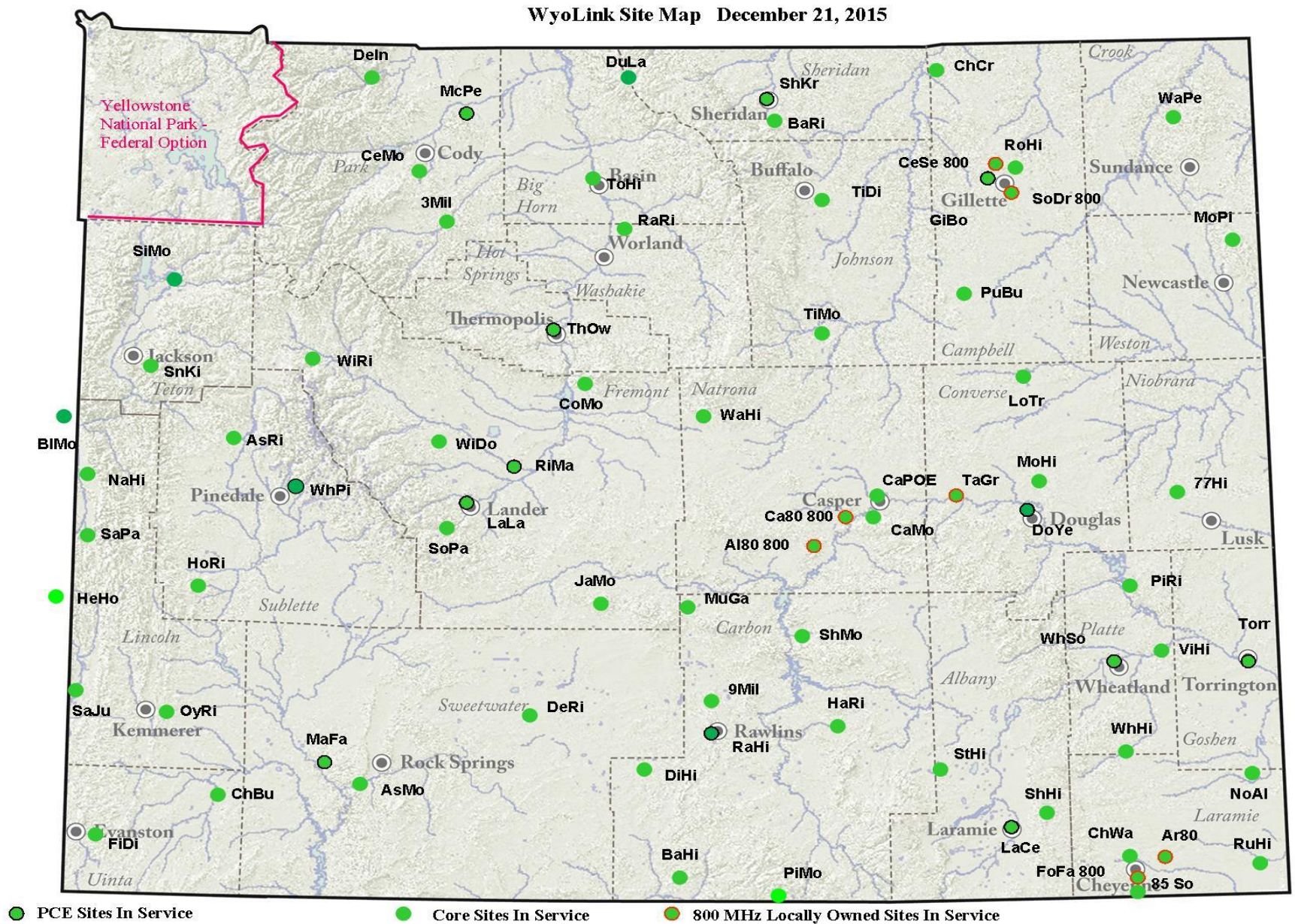WyoLink Calls – Oct 2015 – Sept 2016: **20,731,134** Calls

WyoLink Busies – Oct 2015 – Sept 2016: **8:47:46** (hours:minutes:seconds)

Average busy wait – **2 seconds**   Percentage of busies by time - **0.022%**

WyoLink Availability: **99.939%** of total possible time

WyoLink Usage by all Users – October 1, 2015 through September 30, 2016

Name	Air Time in Hours:Minutes:Seconds	Percentage of System Usage by Time
Natrona County	5,330:28:42	13.91%
Fremont County	3,956:39:30	10.32%
Laramie County	3,889:30:00	10.15%
Sweetwater County	2,635:48:42	6.88%
Campbell County	2,625:03:36	6.85%
Albany County	1,805:57:30	4.71%
Platte County	1,562:56:18	4.08%
Park County	1,235:43:00	3.22%
Converse County	1,112:22:36	2.90%
Sheridan County	945:13:18	2.47%
Carbon County	747:40:12	1.95%
Lincoln County	740:12:12	1.93%
Goshen County	678:04:18	1.77%
Washakie County	556:59:18	1.45%
Sublette County	432:52:06	1.13%
Crook County	311:12:54	0.81%
Niobrara County	241:06:00	0.63%
Hot Springs County	186:00:54	0.49%
Teton County	44:58:18	0.12%
Johnson County	6:38:18	0.02%
Big Horn County	6:24:48	0.02%
Weston County	1:13:12	0.00%
Uinta County	0:19:00	0.00%
County Total	**29,053:21:42**	**75.79%**
State Agencies	**8,937:17:00**	**23.31%**
Federal Agencies	**344:08:48**	**0.90%**

WyoLink Site Map   December 21, 2015

Yellowstone National Park - Federal Option

● PCE Sites In Service   ● Core Sites In Service   ● 800 MHz Locally Owned Sites In Service

WyoLink Site Names	Abbreviation	WyoLink Site Names	Abbreviation	Portable Coverage Site	Abbreviation
3 Mile	3Mil	Narrows Hill	NaHi	Douglas Yellowstone Hwy	DoYe
77 Hill	77Hi	Nine Mile Hill	9Mil	Gillette Boxelder Road	GiBo
85 South	85So	North Albin	NoAl	Laramie Cemetery	LaCe
Aspen Mountain	AsMo	Oyster Ridge	OyRi	Lander Landfill	LaLa
Aspen Ridge	AsRi	Pine Ridge	PiRi	Mans Face –Green River	MaFa
Baggs Hill	BaHi	Pinkham Mountain	PiMo	McCullough Peaks – Powell	McPe
Banner Ridge	BaRi	Pumpkin Buttes	PuBu	Rawlins Hill	RaHi
Black Mountain	BlMo	Rattlesnake Ridge	RaRi	Riverton Main Street	RiMa
Casper Mountain	CaMo	Rozet Hill	RoHi	Sheridan Kroe Lane	ShKr
Casper Port of Entry	CaPo	Russell Hill	RuHi	Thermopolis Owl Creek Rd	ThOw
Cedar Mountain	CeMo	Sage Junction	SaJu	Torrington	Torr
Cheyenne Water Tank	ChWa	Salt Pass	SaPa	Wheatland South Street	WhSo
Chicken Creek	ChCr	Sherman Hill	ShHi	White Pine - Pinedale	WhPi
Church Buttes	ChBu	Shirley Mountain	ShMo		
Copper Mountain	CoMo	Signal Mountain	SiMo	**Locally Owned Sites**	
Dead Indian	DeIn	Snow King	SnKi	Casper Mountain 800	Ca80 (Casper)
Delaney Rim	DeRi	South Pass	SoPa	Cemetery Separation 800	CeSe (Gillette)
Divide Hill	DiHi	Strouss Hill	StHi	Southern Drive 800	SoDr (Gillette)
Duncan Lake	DuLa	Tisdale Divide	TiDi	Fox Farm 800	FoFa (Cheyenne)
First Divide	FiDi	Tisdale Mountain	TiMo	Archer 800	Ar80 (Cheyenne)
Halleck Ridge	HaRi	Torch Hill	ToHi	Alcova Reservoir 800	Al80 (Casper)
Hell Hole	HeHo	Virgin Hill	ViHi	Tall Grass 800	TaGr (Glenrock)
Hogsback Ridge	HoRi	Waltman Hill	WaHi		
Jade Mountain	JaMo	Warren Peak	WaPe	**WyoLink Core Sites**	**55**
Lone Tree	LoTr	Whitcomb Hill	WhHi	**Portable Coverage Sites**	**13**
Morton Hill	MoHi	Windy Ridge	WiRi	**Locally Owned Sites**	**7**
Mount Pisgah	MoPi	Winkleman Dome	WiDo	**Microwave Only**	**1**
Muddy Gap	MuGa	**Rendezvous Peak (Microwave Only)**	**RePe**	**Total**	**75**