

**APPENDIX G:  
SUPPORTING DATA FOR LOCAL FIRE AND EMS ¾ CURRENT WIRELESS  
COMMUNICATIONS ENVIRONMENT (SECTION 3)**

**Table G-1: Types of Communications Equipment Used by Agencies**

	Hand-Held Land Portable Phone		Vehicle-Mounted Mobile Radio		Pagers		Citizens Band Radio		Amateur Radio	
	n	%	n	%	n	%	n	%	n	%
<b>Agency Size</b> 1-24	187	95.9%	192	98.5%	176	90.3%	23	11.8%	13	6.7%
25-49	203	97.6%	206	99.0%	199	95.7%	12	5.8%	10	4.8%
50-99	136	99.3%	137	100.0%	135	98.5%	12	8.8%	17	12.4%
100-249	306	98.7%	304	98.1%	300	96.8%	17	5.5%	51	16.5%
250+	134	100%	134	100.0%	130	97.0%	10	7.5%	32	23.9%
<b>Agency Type</b> Fire Departments	779	98.0%	786	98.9%	762	95.8%	62	7.8%	100	12.6%
EMS Departments	143	97.3%	144	98.0%	140	95.2%	10	6.8%	15	10.2%
Special	44	100%	43	97.7%	38	86.4%	2	4.5%	8	18.2%

	Telephone Line		FAX Line		Cellular Phone/Voice		Cellular Fax		Mobile Data Terminal	
	n	%	n	%	n	%	n	%	n	%
<b>Agency Size</b> 1-24	166	85.1%	92	47.2%	123	63.1%	5	2.6%	4	2.1%
25-49	185	88.9%	130	62.5%	168	80.8%	13	6.3%	4	1.9%
50-99	130	94.9%	111	81.0%	127	92.7%	20	14.6%	10	7.3%
100-249	292	94.2%	285	91.9%	295	95.2%	72	23.2%	52	16.8%
250+	131	97.8%	125	93.3%	130	97.0%	69	51.5%	47	35.1%
<b>Agency Type</b> Fire Departments	727	91.4%	590	74.2%	674	84.8%	149	18.7%	96	12.1%
EMS Departments	134	91.2%	112	76.2%	130	88.4%	24	16.3%	14	9.5%
Special	43	97.7%	41	93.2%	39	88.6%	6	13.6%	7	15.9%

	Mobile Laptop Computer		EKG or other Medical Telemetry		Fixed Wing Aircraft Radio		Helicopter Radio	
	1		1		1		1	
	n	%	n	%	n	%	n	%
<b>Agency Size</b> 1-24	6	3.1%	10	5.1%	15	7.7%	11	5.6%
25-49	23	11.1%	30	14.4%	7	3.4%	10	4.8%
50-99	18	13.1%	35	25.5%	10	7.3%	13	9.5%
100-249	82	26.5%	103	33.2%	20	6.5%	39	12.6%
250+	50	37.3%	59	44.0%	10	7.5%	36	26.9%
<b>Agency Type</b> Fire Departments	151	19.0%	170	21.4%	28	3.5%	70	8.8%
EMS Departments	21	14.3%	59	40.1%	11	7.5%	25	17.0%
Special	7	15.9%	8	18.2%	23	52.3%	14	31.8%

**Table G-2: Types of Communications Arrangements**

	Independently Owned		Communications Center Serving Multiple Agencies		Multi-agency/ Multi-jurisdictional Shared Center		Other		
	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	<b>1-24</b>	41	21.1%	103	53.1%	40	20.6%	10	5.2%
	<b>25-49</b>	26	12.7%	91	44.4%	75	36.6%	13	6.3%
	<b>50-99</b>	30	21.9%	68	49.6%	29	21.2%	10	7.3%
	<b>100-249</b>	68	22.5%	151	50.0%	70	23.2%	13	4.3%
	<b>250+</b>	47	35.9%	57	43.5%	20	15.3%	7	5.3%
<b>Agency Type</b>	<b>Fire Departments</b>	150	19.2%	388	49.7%	200	25.6%	43	5.5%
	<b>EMS Departments</b>	43	29.9%	66	45.8%	28	19.4%	7	4.9%
	<b>Special</b>	19	43.2%	16	36.4%	6	13.6%	3	6.8%

**Table G-3: Type of Fire Department versus Types of Communications Arrangements**

	Independently Owned		Communications Center Serving Multiple Agencies		Multi-agency / Multi-jurisdictional Shared Center		Other		
	n	%	n	%	n	%	n	%	
<b>Type of Fire Department</b>	<b>Volunteer</b>	52	13.1%	208	52.3%	124	31.2%	14	3.5%
	<b>Career</b>	68	27.4%	116	46.8%	41	16.5%	23	9.3%
	<b>Combination</b>	30	22.2%	64	47.4%	35	25.9%	6	4.4%

**Table G-4: Agencies Topography/Terrain versus Types of Communications Arrangements**

	Independently Owned		Communications Center Serving Multiple Agencies		Multi-agency / Multi-jurisdictional Shared Center		Other		
	n	%	n	%	n	%	n	%	
<b>Terrain Types</b>	<b>Waterways</b>	45	29.8%	70	46.4%	26	17.2%	10	6.6%
	<b>Relatively flat</b>	137	27.5%	238	47.7%	98	19.6%	26	5.2%
	<b>Rolling hills</b>	66	16.1%	204	49.8%	119	29.0%	21	5.1%
	<b>Mountainous</b>	27	18.4%	66	44.9%	46	31.3%	8	5.4%
	<b>Heavily</b>	17	10.3%	84	50.9%	58	35.2%	6	3.6%

**Table G-5: Agencies Current Frequency Band**

	Low-Band VHF		High-Band VHF		Low-Band UHF		800 MHz		Other		
	n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	<b>1-24</b>	33	16.9%	134	68.7%	37	19.0%	11	5.6%	8	4.1%
	<b>25-49</b>	56	26.9%	156	75.0%	38	18.3%	17	8.2%	5	2.4%
	<b>50-99</b>	50	36.5%	96	70.1%	49	35.8%	29	21.2%	5	3.6%
	<b>100-249</b>	88	28.4%	214	69.0%	117	37.7%	109	35.2%	8	2.6%
	<b>250+</b>	27	20.1%	87	64.9%	67	50.0%	78	58.2%	7	5.2%
<b>Agency Type</b>	<b>Fire Departments</b>	205	25.8%	550	69.2%	217	27.3%	194	24.4%	17	2.1%
	<b>EMS Departments</b>	39	26.5%	110	74.8%	71	48.3%	34	23.1%	7	4.8%
	<b>Special</b>	10	22.7%	27	61.4%	20	45.5%	16	36.4%	9	20.5%

**Table G-6: Type of Fire Department versus Current Frequency Band**

		Low-Band VHF		High-Band VHF		Low-Band UHF		800 MHz		Other	
		n	%	n	%	n	%	n	%	n	%
<b>Type of Fire Department</b>	<b>Volunteer</b>	129	32.0%	278	69.0%	75	18.6%	27	6.7%	2	.5%
	<b>Career</b>	35	13.8%	163	64.2%	94	37.0%	122	48.0%	8	3.1%
	<b>Combination</b>	41	30.1%	109	80.1%	48	35.3%	45	33.1%	7	5.1%

**Table G-7: Current Primary Land Mobile Radio Base System**

		Analog		Digital	
		n	%	n	%
<b>Agency Size</b>	<b>1-24</b>	129	75.0%	43	25.0%
	<b>25-49</b>	169	86.7%	26	13.3%
	<b>50-99</b>	113	85.6%	19	14.4%
	<b>100-249</b>	255	87.9%	35	12.1%
	<b>250+</b>	116	90.6%	12	9.4%
<b>Agency Type</b>	<b>Fire Departments</b>	638	86.1%	103	13.9%
	<b>EMS Departments</b>	115	83.3%	23	16.7%
	<b>Special</b>	29	76.3%	9	23.7%

**Table G-8: Preferred Primary Land Mobile Radio Base for Next System**

		Analog		Digital		Don't Know	
		n	%	n	%	n	%
<b>Agency Size</b>	<b>1-24</b>	6	8.2%	20	27.4%	47	64.4%
	<b>25-49</b>	15	15.8%	27	28.4%	53	55.8%
	<b>50-99</b>	9	11.1%	33	40.7%	39	48.1%
	<b>100-249</b>	27	13.8%	100	51.0%	69	35.2%
	<b>250+</b>	13	13.8%	59	62.8%	22	23.4%
<b>Agency Type</b>	<b>Fire Departments</b>	54	12.6%	180	41.9%	196	45.6%
	<b>EMS Departments</b>	12	13.8%	48	55.2%	27	31.0%
	<b>Special</b>	4	18.2%	11	50.0%	7	31.8%

**Table G-9: Current Primary Land Mobile Radio System Architecture**

		Conventional		Trunked	
		n	%	n	%
<b>Agency Size</b>	<b>1-24</b>	160	88.4%	21	11.6%
	<b>25-49</b>	181	91.4%	17	8.6%
	<b>50-99</b>	113	84.3%	21	15.7%
	<b>100-249</b>	209	70.8%	86	29.2%
	<b>250+</b>	79	60.8%	51	39.2%
<b>Agency Type</b>	<b>Fire Departments</b>	600	79.3%	157	20.7%
	<b>EMS Departments</b>	115	82.7%	24	17.3%
	<b>Special</b>	27	64.3%	15	35.7%

**Table G-10: Preferred Primary Land Mobile Radio Architecture for Next System**

		Conventional		Trunked		Don't Know	
		n	%	n	%	n	%
<b>Agency Size</b>	<b>1-24</b>	21	29.6%	12	16.9%	38	53.5%
	<b>25-49</b>	30	30.3%	32	32.3%	37	37.4%
	<b>50-99</b>	19	23.2%	28	34.1%	35	42.7%
	<b>100-249</b>	41	20.7%	110	55.6%	47	23.7%
	<b>250+</b>	14	14.7%	68	71.6%	13	13.7%
<b>Agency Type</b>	<b>Fire Departments</b>	97	22.3%	199	45.7%	139	32.0%
	<b>EMS Departments</b>	25	28.4%	38	43.2%	25	28.4%
	<b>Special</b>	3	13.6%	13	59.1%	6	27.3%

**Table G-11: Use Paging for Emergency Alerting of Personnel**

		Yes		No	
		n	%	n	%
<b>Agency Size</b>	<b>1-24</b>	171	88.1%	23	11.9%
	<b>25-49</b>	187	93.0%	14	7.0%
	<b>50-99</b>	120	89.6%	14	10.4%
	<b>100-249</b>	260	85.2%	45	14.8%
	<b>250+</b>	109	82.0%	24	18.0%
<b>Agency Type</b>	<b>Fire Departments</b>	684	87.6%	97	12.4%
	<b>EMS Departments</b>	130	90.9%	13	9.1%
	<b>Special</b>	33	75.0%	11	25.0%

**Table G-12: Use of Paging for Emergency Alerting of Personnel by Type of Fire Department**

		Yes		No	
		n	%	n	%
<b>Type of Fire Department</b>	<b>Volunteer</b>	376	95.7%	17	4.3%
	<b>Career</b>	177	70.5%	74	29.5%
	<b>Combination</b>	131	96.3%	5	3.7%

**Table G-13: Type of Paging System Used**

		Tone and/or Voice		Alphanumeric/Digital		Both		Other	
		n	%	n	%	n	%	n	%
<b>Agency Size</b>	<b>1-24</b>	127	75.1%	17	10.1%	24	14.2%	1	.6%
	<b>25-49</b>	146	77.7%	11	5.9%	31	16.5%		
	<b>50-99</b>	85	70.8%	10	8.3%	25	20.8%		
	<b>100-249</b>	125	48.6%	53	20.6%	78	30.4%	1	.4%
	<b>250+</b>	36	32.4%	34	30.6%	40	36.0%	1	.9%
<b>Agency Type</b>	<b>Fire Departments</b>	442	64.6%	86	12.6%	153	22.4%	3	.4%
	<b>EMS Departments</b>	63	49.2%	27	21.1%	38	29.7%		
	<b>Special</b>	14	42.4%	12	36.4%	7	21.2%		

**Table G-14: Agencies Satisfaction with Paging**

	1		2		3		4		5		Avg
	n	%	n	%	n	%	n	%	n	%	
Agency Size 1-24	6	3.5%	18	10.6%	46	27.1%	67	39.4%	33	19.4%	3.61
25-49	7	3.7%	22	11.8%	56	29.9%	76	40.6%	26	13.9%	3.49
50-99	6	5.0%	12	10.1%	44	37.0%	44	37.0%	13	10.9%	3.39
100-249	7	2.7%	23	8.8%	73	28.1%	117	45.0%	40	15.4%	3.62
250+	2	1.8%	17	15.0%	32	28.3%	46	40.7%	16	14.2%	3.50
Agency Type Fire Departments	22	3.2%	75	10.9%	200	29.0%	281	40.8%	111	16.1%	3.56
EMS Departments	2	1.6%	13	10.1%	45	34.9%	55	42.6%	14	10.9%	3.51
Special	4	12.9%	4	12.9%	6	19.4%	14	45.2%	3	9.7%	3.26

**Table G-15: Severity of Problems Regarding Land Mobile Radio System**

Problem Rating (1 = Not a Problem to 5 = Major Problem)	Not Enough Channels		Not Enough Talk Groups		Dead Spots		Fading		Frequency Interference	
	n	%	n	%	n	%	n	%	n	%
1	358	36.9%	458	52.0%	108	11.2%	259	27.6%	268	28.1%
2	145	14.9%	138	15.7%	180	18.6%	253	27.0%	199	20.8%
3	162	16.7%	133	15.1%	251	26.0%	220	23.5%	174	18.2%
4	137	14.1%	77	8.8%	202	20.9%	130	13.9%	166	17.4%
5	168	17.3%	74	8.4%	225	23.3%	75	8.0%	148	15.5%

Problem Rating (1 = Not a Problem to 5 = Major Problem)	Static		Battery Problems		Limited Equipment		Outdated Equipment		Equipment Size/Weight	
	n	%	n	%	n	%	n	%	n	%
1	339	35.6%	317	33.4%	267	28.2%	265	27.8%	387	41.0%
2	268	28.2%	268	28.3%	172	18.1%	192	20.2%	265	28.1%
3	194	20.4%	212	22.4%	202	21.3%	194	20.4%	195	20.7%
4	106	11.1%	101	10.7%	185	19.5%	152	16.0%	75	8.0%
5	44	4.6%	50	5.3%	122	12.9%	149	15.7%	21	2.2%

Problem Rating (1 = Not a Problem to 5 = Major Problem)	Different Types of Equipment		Operational Difficulty	
	n	%	n	%
1	346	36.6%	370	39.2%
2	248	26.2%	313	33.1%
3	192	20.3%	187	19.8%
4	105	11.1%	49	5.2%
5	55	5.8%	26	2.8%

**Table G-16: Severity of Problems Regarding Land Mobile Radio System by Agency Size and Type**

		Not Enough Channels										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	1-24	100	52.1%	36	18.8%	24	12.5%	14	7.3%	18	9.4%	2.03
	25-49	81	39.3%	41	19.9%	34	16.5%	27	13.1%	23	11.2%	2.37
	50-99	49	36.8%	15	11.3%	21	15.8%	24	18.0%	24	18.0%	2.69
	100-249	87	28.4%	43	14.1%	56	18.3%	45	14.7%	75	24.5%	2.93
	250+	41	30.8%	10	7.5%	27	20.3%	27	20.3%	28	21.1%	2.93
<b>Agency Type</b>	Fire Departments	290	37.1%	113	14.5%	123	15.7%	118	15.1%	138	17.6%	2.62
	EMS Departments	50	34.7%	26	18.1%	35	24.3%	13	9.0%	20	13.9%	2.49
	Special	18	40.9%	6	13.6%	4	9.1%	6	13.6%	10	22.7%	2.64

		Not Enough Talk Groups										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	1-24	110	61.8%	26	14.6%	27	15.2%	8	4.5%	7	3.9%	1.74
	25-49	102	52.3%	37	19.0%	30	15.4%	16	8.2%	10	5.1%	1.95
	50-99	55	44.4%	19	15.3%	23	18.5%	17	13.7%	10	8.1%	2.26
	100-249	133	49.3%	41	15.2%	40	14.8%	22	8.1%	34	12.6%	2.20
	250+	58	51.3%	15	13.3%	13	11.5%	14	12.4%	13	11.5%	2.19
<b>Agency Type</b>	Fire Departments	369	52.1%	108	15.3%	112	15.8%	65	9.2%	54	7.6%	2.05
	EMS Departments	64	48.9%	21	16.0%	20	15.3%	9	6.9%	17	13.0%	2.19
	Special	25	61.0%	9	22.0%	1	2.4%	3	7.3%	3	7.3%	1.78

		Dead Spots										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	1-24	24	12.5%	25	13.0%	50	26.0%	38	19.8%	55	28.6%	3.39
	25-49	29	14.1%	30	14.6%	51	24.9%	47	22.9%	48	23.4%	3.27
	50-99	13	9.7%	30	22.4%	28	20.9%	32	23.9%	31	23.1%	3.28
	100-249	31	10.3%	65	21.5%	78	25.8%	61	20.2%	67	22.2%	3.23
	250+	11	8.3%	30	22.6%	44	33.1%	24	18.0%	24	18.0%	3.15
<b>Agency Type</b>	Fire Departments	87	11.2%	153	19.6%	206	26.4%	156	20.0%	178	22.8%	3.24
	EMS Departments	11	7.7%	20	14.0%	36	25.2%	38	26.6%	38	26.6%	3.50
	Special	10	23.3%	7	16.3%	9	20.9%	8	18.6%	9	20.9%	2.98

		Fading										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	1-24	48	25.8%	35	18.8%	57	30.6%	26	14.0%	20	10.8%	2.65
	25-49	51	25.5%	52	26.0%	50	25.0%	30	15.0%	17	8.5%	2.55
	50-99	36	27.9%	38	29.5%	24	18.6%	21	16.3%	10	7.8%	2.47
	100-249	89	30.3%	90	30.6%	60	20.4%	38	12.9%	17	5.8%	2.33
	250+	35	27.3%	38	29.7%	29	22.7%	15	11.7%	11	8.6%	2.45
<b>Agency Type</b>	Fire Departments	224	29.7%	201	26.7%	165	21.9%	111	14.7%	53	7.0%	2.43
	EMS Departments	19	13.6%	45	32.1%	42	30.0%	13	9.3%	21	15.0%	2.80
	Special	16	37.2%	7	16.3%	13	30.2%	6	14.0%	1	2.3%	2.28

**Table G-16: Severity of Problems Regarding Land Mobile Radio System by Agency Size and Type (continued)**

		Frequency Interference										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	<b>1-24</b>	59	31.4%	37	19.7%	32	17.0%	29	15.4%	31	16.5%	2.66
	<b>25-49</b>	42	20.6%	34	16.7%	47	23.0%	40	19.6%	41	20.1%	3.02
	<b>50-99</b>	31	23.5%	26	19.7%	19	14.4%	33	25.0%	23	17.4%	2.93
	<b>100-249</b>	88	29.3%	70	23.3%	53	17.7%	46	15.3%	43	14.3%	2.62
	<b>250+</b>	48	36.6%	32	24.4%	23	17.6%	18	13.7%	10	7.6%	2.31
<b>Agency Type</b>	<b>Fire Departments</b>	225	29.2%	166	21.6%	136	17.7%	131	17.0%	112	14.5%	2.66
	<b>EMS Departments</b>	24	16.9%	26	18.3%	31	21.8%	31	21.8%	30	21.1%	3.12
	<b>Special</b>	19	44.2%	7	16.3%	7	16.3%	4	9.3%	6	14.0%	2.33

		Static										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	<b>1-24</b>	69	36.5%	47	24.9%	35	18.5%	27	14.3%	11	5.8%	2.28
	<b>25-49</b>	71	34.6%	54	26.3%	49	23.9%	20	9.8%	11	5.4%	2.25
	<b>50-99</b>	39	29.8%	43	32.8%	23	17.6%	20	15.3%	6	4.6%	2.32
	<b>100-249</b>	104	35.0%	85	28.6%	63	21.2%	33	11.1%	12	4.0%	2.21
	<b>250+</b>	56	43.4%	39	30.2%	24	18.6%	6	4.7%	4	3.1%	1.94
<b>Agency Type</b>	<b>Fire Departments</b>	283	36.9%	219	28.6%	137	17.9%	90	11.7%	37	4.8%	2.19
	<b>EMS Departments</b>	38	26.8%	37	26.1%	49	34.5%	11	7.7%	7	4.9%	2.38
	<b>Special</b>	18	41.9%	12	27.9%	8	18.6%	5	11.6%			2.00

		Battery Problems										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	<b>1-24</b>	69	36.5%	48	25.4%	44	23.3%	20	10.6%	8	4.2%	2.21
	<b>25-49</b>	79	38.9%	53	26.1%	44	21.7%	17	8.4%	10	4.9%	2.14
	<b>50-99</b>	41	31.3%	35	26.7%	30	22.9%	17	13.0%	8	6.1%	2.36
	<b>100-249</b>	89	30.1%	101	34.1%	62	20.9%	28	9.5%	16	5.4%	2.26
	<b>250+</b>	39	30.2%	31	24.0%	32	24.8%	19	14.7%	8	6.2%	2.43
<b>Agency Type</b>	<b>Fire Departments</b>	257	33.6%	213	27.8%	170	22.2%	84	11.0%	41	5.4%	2.27
	<b>EMS Departments</b>	47	33.6%	38	27.1%	35	25.0%	14	10.0%	6	4.3%	2.24
	<b>Special</b>	13	30.2%	17	39.5%	7	16.3%	3	7.0%	3	7.0%	2.21

		Not Enough Equipment										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	<b>1-24</b>	40	21.1%	38	20.0%	40	21.1%	36	18.9%	36	18.9%	2.95
	<b>25-49</b>	64	31.2%	29	14.1%	49	23.9%	34	16.6%	29	14.1%	2.68
	<b>50-99</b>	38	29.2%	25	19.2%	25	19.2%	28	21.5%	14	10.8%	2.65
	<b>100-249</b>	92	31.2%	48	16.3%	68	23.1%	56	19.0%	31	10.5%	2.61
	<b>250+</b>	33	25.8%	32	25.0%	20	15.6%	31	24.2%	12	9.4%	2.66
<b>Agency Type</b>	<b>Fire Departments</b>	217	28.4%	144	18.8%	161	21.0%	147	19.2%	96	12.5%	2.69
	<b>EMS Departments</b>	39	27.9%	17	12.1%	34	24.3%	32	22.9%	18	12.9%	2.81
	<b>Special</b>	11	25.6%	11	25.6%	7	16.3%	6	14.0%	8	18.6%	2.74

**Table G-16: Severity of Problems Regarding Land Mobile Radio System by Agency Size and Type (continued)**

		Outdated Equipment										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	<b>1-24</b>	51	26.8%	35	18.4%	38	20.0%	34	17.9%	32	16.8%	2.79
	<b>25-49</b>	54	26.5%	40	19.6%	52	25.5%	25	12.3%	33	16.2%	2.72
	<b>50-99</b>	34	26.2%	31	23.8%	20	15.4%	26	20.0%	19	14.6%	2.73
	<b>100-249</b>	83	27.9%	61	20.5%	64	21.5%	48	16.1%	42	14.1%	2.68
	<b>250+</b>	43	33.1%	25	19.2%	20	15.4%	19	14.6%	23	17.7%	2.65
<b>Agency Type</b>	<b>Fire Departments</b>	207	27.0%	161	21.0%	159	20.8%	121	15.8%	118	15.4%	2.72
	<b>EMS Departments</b>	41	28.9%	26	18.3%	27	19.0%	24	16.9%	24	16.9%	2.75
	<b>Special</b>	17	38.6%	5	11.4%	8	18.2%	7	15.9%	7	15.9%	2.59

		Equipment Size/Weight										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	<b>1-24</b>	81	43.5%	43	23.1%	41	22.0%	14	7.5%	7	3.8%	2.05
	<b>25-49</b>	84	41.4%	55	27.1%	37	18.2%	20	9.9%	7	3.4%	2.07
	<b>50-99</b>	54	41.5%	35	26.9%	26	20.0%	13	10.0%	2	1.5%	2.03
	<b>100-249</b>	117	39.5%	97	32.8%	62	20.9%	16	5.4%	4	1.4%	1.96
	<b>250+</b>	51	39.8%	35	27.3%	29	22.7%	12	9.4%	1	.8%	2.04
<b>Agency Type</b>	<b>Fire Departments</b>	310	40.8%	218	28.7%	151	19.9%	64	8.4%	17	2.2%	2.03
	<b>EMS Departments</b>	56	39.7%	37	26.2%	35	24.8%	10	7.1%	3	2.1%	2.06
	<b>Special</b>	21	50.0%	10	23.8%	9	21.4%	1	2.4%	1	2.4%	1.83

		Different Types of Equipment										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	<b>1-24</b>	73	38.6%	49	25.9%	33	17.5%	21	11.1%	13	6.9%	2.22
	<b>25-49</b>	62	30.2%	56	27.3%	52	25.4%	19	9.3%	16	7.8%	2.37
	<b>50-99</b>	48	36.9%	33	25.4%	27	20.8%	15	11.5%	7	5.4%	2.23
	<b>100-249</b>	112	38.0%	70	23.7%	64	21.7%	34	11.5%	15	5.1%	2.22
	<b>250+</b>	51	40.2%	40	31.5%	16	12.6%	16	12.6%	4	3.1%	2.07
<b>Agency Type</b>	<b>Fire Departments</b>	275	36.2%	206	27.1%	156	20.5%	85	11.2%	38	5.0%	2.22
	<b>EMS Departments</b>	53	37.1%	29	20.3%	31	21.7%	17	11.9%	13	9.1%	2.36
	<b>Special</b>	18	41.9%	13	30.2%	5	11.6%	3	7.0%	4	9.3%	2.12

		Operational Difficulty										Avg
		1		2		3		4		5		
		n	%	n	%	n	%	n	%	n	%	
<b>Agency Size</b>	<b>1-24</b>	82	43.9%	54	28.9%	31	16.6%	11	5.9%	9	4.8%	1.99
	<b>25-49</b>	73	35.6%	74	36.1%	46	22.4%	5	2.4%	7	3.4%	2.02
	<b>50-99</b>	53	40.8%	39	30.0%	30	23.1%	6	4.6%	2	1.5%	1.96
	<b>100-249</b>	123	41.6%	96	32.4%	55	18.6%	18	6.1%	4	1.4%	1.93
	<b>250+</b>	39	30.7%	50	39.4%	25	19.7%	9	7.1%	4	3.1%	2.13
<b>Agency Type</b>	<b>Fire Departments</b>	293	38.6%	259	34.1%	148	19.5%	43	5.7%	17	2.2%	1.99
	<b>EMS Departments</b>	59	41.5%	40	28.2%	33	23.2%	5	3.5%	5	3.5%	1.99
	<b>Special</b>	18	41.9%	14	32.6%	6	14.0%	1	2.3%	4	9.3%	2.05

**Table G-17: Dead Spots as a Problem versus Topography/Terrain**

	Dead Spots										Avg
	1		2		3		4		5		
	n	%	n	%	n	%	n	%	n	%	
<b>Waterways</b>	16	10.7%	32	21.5%	29	19.5%	42	28.2%	30	20.1%	3.26
<b>Relatively Flat</b>	61	12.2%	100	20.1%	138	27.7%	92	18.5%	107	21.5%	3.17
<b>Rolling Hills</b>	37	9.0%	73	17.8%	110	26.9%	88	21.5%	101	24.7%	3.35
<b>Mountainous</b>	12	8.2%	20	13.7%	39	26.7%	27	18.5%	48	32.9%	3.54
<b>Heavily Forested</b>	12	7.2%	25	15.1%	35	21.1%	37	22.3%	57	34.3%	3.61

**Table G-18: Sources of Funding for Next LMR System**

	State Funding		General Fund Budget Appropriations		Capital Improvement Budget		Bond Financing		Fees		Other Funding Sources		Don't Know	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%
	<b>Agency Size</b>													
1-24	11	5.6%	50	25.6%	15	7.7%	1	.5%	2	1.0%	14	7.2%	88	45.1%
25-49	14	6.7%	61	29.3%	31	14.9%	6	2.9%	5	2.4%	18	8.7%	66	31.7%
50-99	5	3.6%	35	25.5%	34	24.8%	7	5.1%	1	.7%	13	9.5%	27	19.7%
100-249	7	2.3%	65	21.0%	82	26.5%	23	7.4%	9	2.9%	26	8.4%	37	11.9%
250+	4	3.0%	29	21.6%	44	32.8%	20	14.9%	8	6.0%	8	6.0%	18	13.4%
<b>Agency Type</b>														
Fire Departments	30	3.8%	199	25.0%	164	20.6%	50	6.3%	21	2.6%	63	7.9%	191	24.0%
EMS Departments	10	6.8%	34	23.1%	33	22.4%	7	4.8%	3	2.0%	14	9.5%	38	25.9%
Special	1	2.3%	7	15.9%	9	20.5%			1	2.3%	3	6.8%	7	15.9%

**Table G-19: Agencies Communications Agreements versus Sources of Funding for Next LMR System**

	State Funding		General Fund Budget Appropriations		Capital Improvement Budget		Bond Financing		Fees		Other Funding Sources		Don't Know	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%
	<b>Communications Agreements</b>													
Independently Owned	5	2.4%	53	25.0%	61	28.8%	10	4.7%	3	1.4%	17	8.0%	40	18.9%
Communications Center Serving Multiple Agencies	19	4.0%	115	24.5%	98	20.9%	29	6.2%	17	3.6%	35	7.4%	109	23.2%
Multi-agency / Multi-jurisdictional Shared Center	13	5.6%	61	26.1%	36	15.4%	13	5.6%	5	2.1%	20	8.5%	69	29.5%
Other	4	7.5%	9	17.0%	9	17.0%	5	9.4%			7	13.2%	15	28.3%

**Table G-20: Fire Department Type versus Sources of Funding for Next LMR System**

	State Funding		General Fund Budget Appropriations		Capital Improvement Budget		Bond Financing		Fees		Other Funding Sources		Don't Know	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%
	<b>Type of Fire Department</b>													
Volunteer	31	6.8%	128	28.0%	60	13.1%	13	2.8%	8	1.8%	39	8.5%	146	31.9%
Career	4	1.2%	56	16.2%	89	25.8%	36	10.4%	9	2.6%	25	7.2%	57	16.5%
Combination	6	3.3%	56	30.8%	57	31.3%	8	4.4%	8	4.4%	15	8.2%	33	18.1%

**Table G-21: Current Use of Wireless Data Communications (Only on Long Version)**

		Free Text		Data Base Information		Still Images		E-mail		Report Writing	
		n	%	n	%	n	%	n	%	n	%
<b>Agency Size</b>	<b>100-249</b>	58	28.2%	74	35.7%	23	12.1%	57	28.2%	57	28.8%
	<b>250+</b>	40	41.2%	42	43.8%	8	9.3%	28	29.5%	23	25.3%
<b>Agency segment</b>	<b>Fire Departments</b>	85	29.4%	103	35.2%	28	10.6%	77	27.2%	71	25.5%
	<b>EMS Departments</b>	17	30.4%	20	35.1%	6	11.3%	24	40.7%	15	27.8%
	<b>Special</b>	6	20.0%	4	14.8%	1	3.6%	10	34.5%	7	25.0%

**Table G-22: Planned Use of Wireless Data Communications (Only on Long Version)**

		Free Text		Data base Information		Still Images		E-mail		Report Writing	
		n	%	n	%	n	%	n	%	n	%
<b>Agency Size</b>	<b>100-249</b>	97	53.9%	137	71.7%	116	60.1%	99	56.6%	129	65.8%
	<b>250+</b>	59	71.1%	82	82.8%	67	66.3%	52	56.5%	74	71.2%
<b>Agency segment</b>	<b>Fire Departments</b>	142	56.3%	204	71.8%	180	61.9%	147	57.0%	186	64.6%
	<b>EMS Departments</b>	27	56.3%	39	73.6%	23	47.9%	26	56.5%	37	69.8%
	<b>Special</b>	11	44.0%	12	46.2%	11	40.7%	8	30.8%	10	37.0%

**Table G-23: Current Use of Wireless Communications Services (Only on Long Version)**

		Cellular/Voice		Cellular Digital		PCS		SMR		Mobile Satellite System	
		n	%	n	%	n	%	n	%	n	%
<b>Agency Size</b>	<b>100-249</b>	254	83.6%	12	3.9%	41	13.5%	28	9.2%	10	3.3%
	<b>250+</b>	117	87.3%	7	5.2%	19	14.2%	13	9.7%	9	6.7%
<b>Agency segment</b>	<b>Fire Departments</b>	360	83.5%	16	3.7%	56	13.0%	37	8.6%	18	4.2%
	<b>EMS Departments</b>	72	91.1%	4	5.1%	11	13.9%	11	13.9%	2	2.5%
	<b>Special</b>	32	84.2%	2	5.3%	7	18.4%	5	13.2%	1	2.6%

		GPS		Paging		Cellular Switched Data		LMDS/MMDS	
		n	%	n	%	n	%	n	%
<b>Agency Size</b>	<b>100-249</b>	40	13.2%	271	89.1%	12	3.9%	9	3.0%
	<b>250+</b>	27	20.1%	121	90.3%	10	7.5%	3	2.2%
<b>Agency segment</b>	<b>Fire Departments</b>	64	14.8%	372	86.3%	19	4.4%	12	2.8%
	<b>EMS Departments</b>	18	22.8%	76	96.2%	4	5.1%	1	1.3%
	<b>Special</b>	6	15.8%	32	84.2%	1	2.6%	1	2.6%

**Table G-24: Planned Use of Wireless Communications Services(Only on Long Version)**

		Cellular/Voice		Cellular Digital		PCS		SMR		Mobile Satellite System	
		n	%	n	%	n	%	n	%	n	%
		<b>Agency Size</b>	<b>100-249</b>	52	17.1%	97	31.9%	69	22.7%	48	15.8%
	<b>250+</b>	12	9.0%	55	41.0%	37	27.6%	19	14.2%	20	14.9%
<b>Agency segment</b>	<b>Fire Departments</b>	59	13.7%	136	31.6%	100	23.2%	57	13.2%	60	13.9%
	<b>EMS Departments</b>	15	19.0%	35	44.3%	27	34.2%	17	21.5%	12	15.2%
	<b>Special</b>	3	7.9%	8	21.1%	10	26.3%	5	13.2%	5	13.2%

		GPS		Paging		Cellular Switched Data		LMDS/MMDS	
		n	%	n	%	n	%	n	%
<b>Agency Size</b>	<b>100-249</b>	143	47.0%	40	13.2%	26	8.6%	33	10.9%
	<b>250+</b>	79	59.0%	13	9.7%	11	8.2%	20	14.9%
<b>Agency segment</b>	<b>Fire Departments</b>	216	50.1%	50	11.6%	35	8.1%	49	11.4%
	<b>EMS Departments</b>	33	41.8%	9	11.4%	7	8.9%	14	17.7%
	<b>Special</b>	15	39.5%	3	7.9%	2	5.3%	5	13.2%