2011 – Utah Grasshopper and Mormon Cricket Report

Clint Burfitt – Utah Department of Agriculture and Food

Greg Abbott – USDA APHIS PPQ - Utah

Infested Acreages

Mormon Cricket

- 98,449 acres statewide
- 55% increase from 2010

Grasshopper

- 415,000 acres statewide
- 49% decrease from 2010

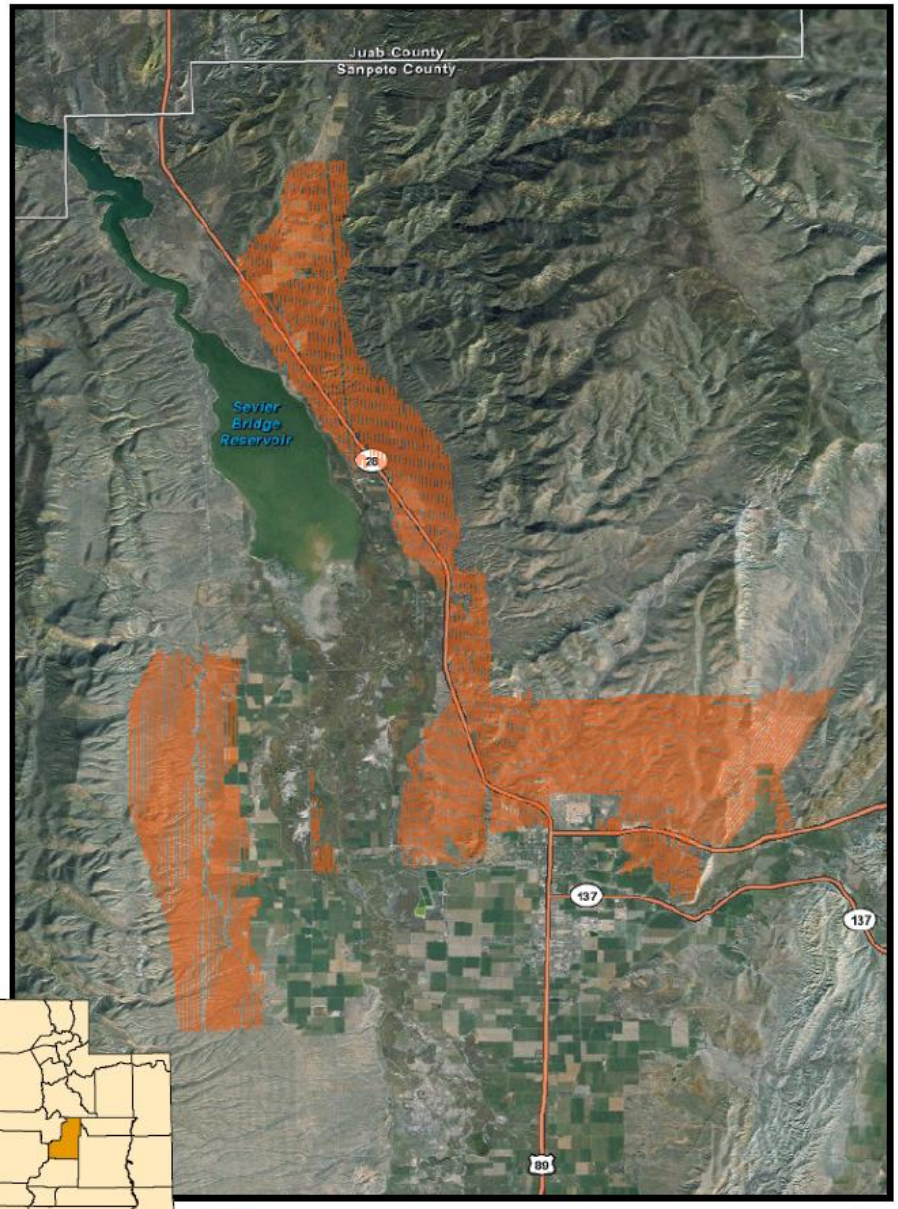
Grasshopper Treatment Acreages & Estimated Cost

Updated 2/7/2012

	State	APHIS	Private	Total
Cost	$241,193	$0	$78,295	$319,488

ACRES	State	BLM	Private	Total
Treated	4,776	3,602	25,120	33,498
Protected (RAATS) Alternate Swath	9,552	7,204	29,342	46,098

2011 Grasshopper Spray Program



Spray Track Log

Control Programs
Private or Cooperative?

- **UDAF Cost Share Program for Private Land**
  - Utah pays 75% of the cost to control grasshoppers or Mormon crickets on privately owned rangeland and cropland.
  - After being qualified, participants spray their land with pesticide labeled for use on grasshoppers.
  - Participants pay applicator and submit a state contract for reimbursement.

Figure 1. Estimated MC/ GH - infested acreage by year in the state of Utah.

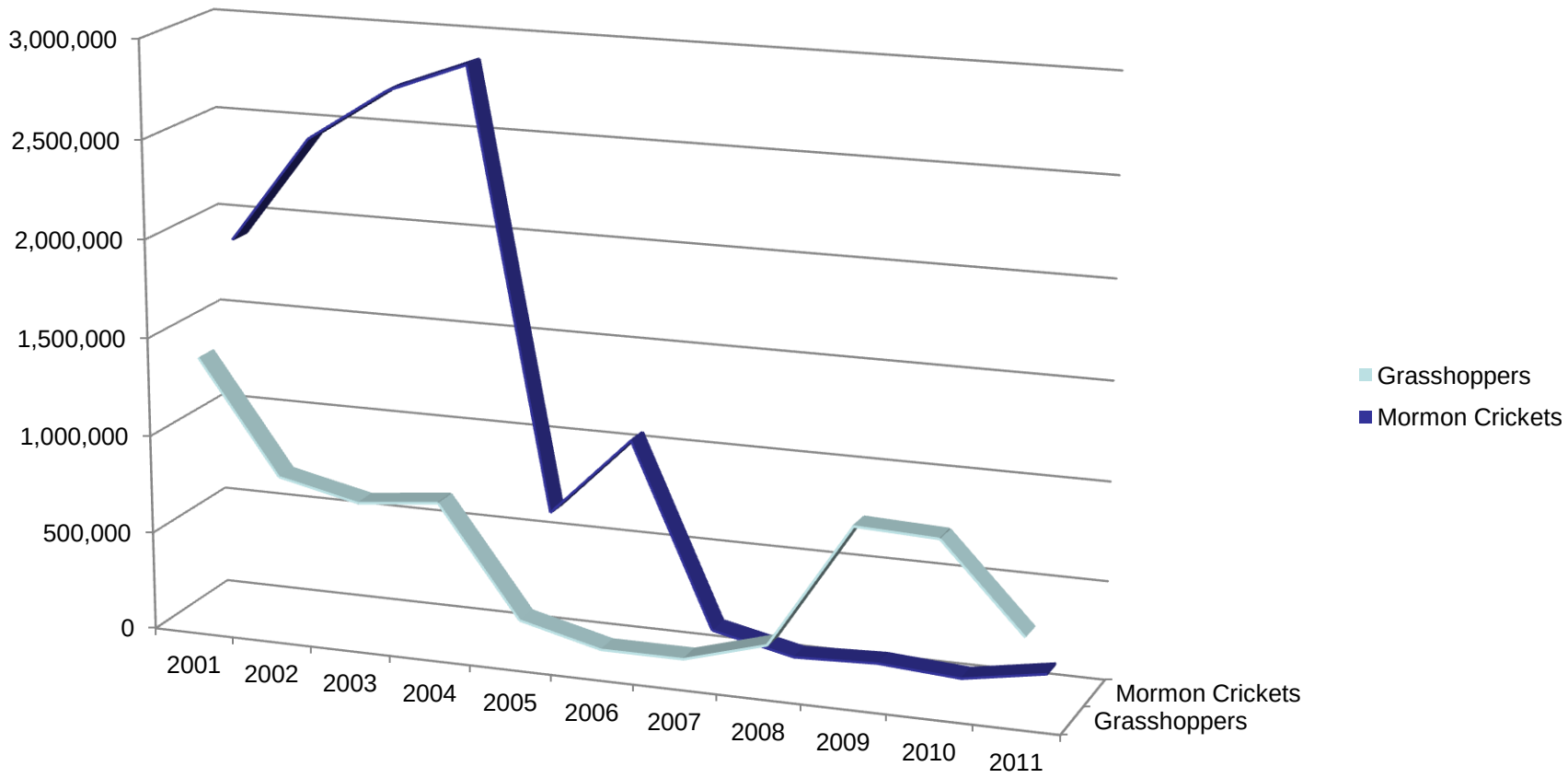


Figure 2. Counties with an increased number of MC infested acres.

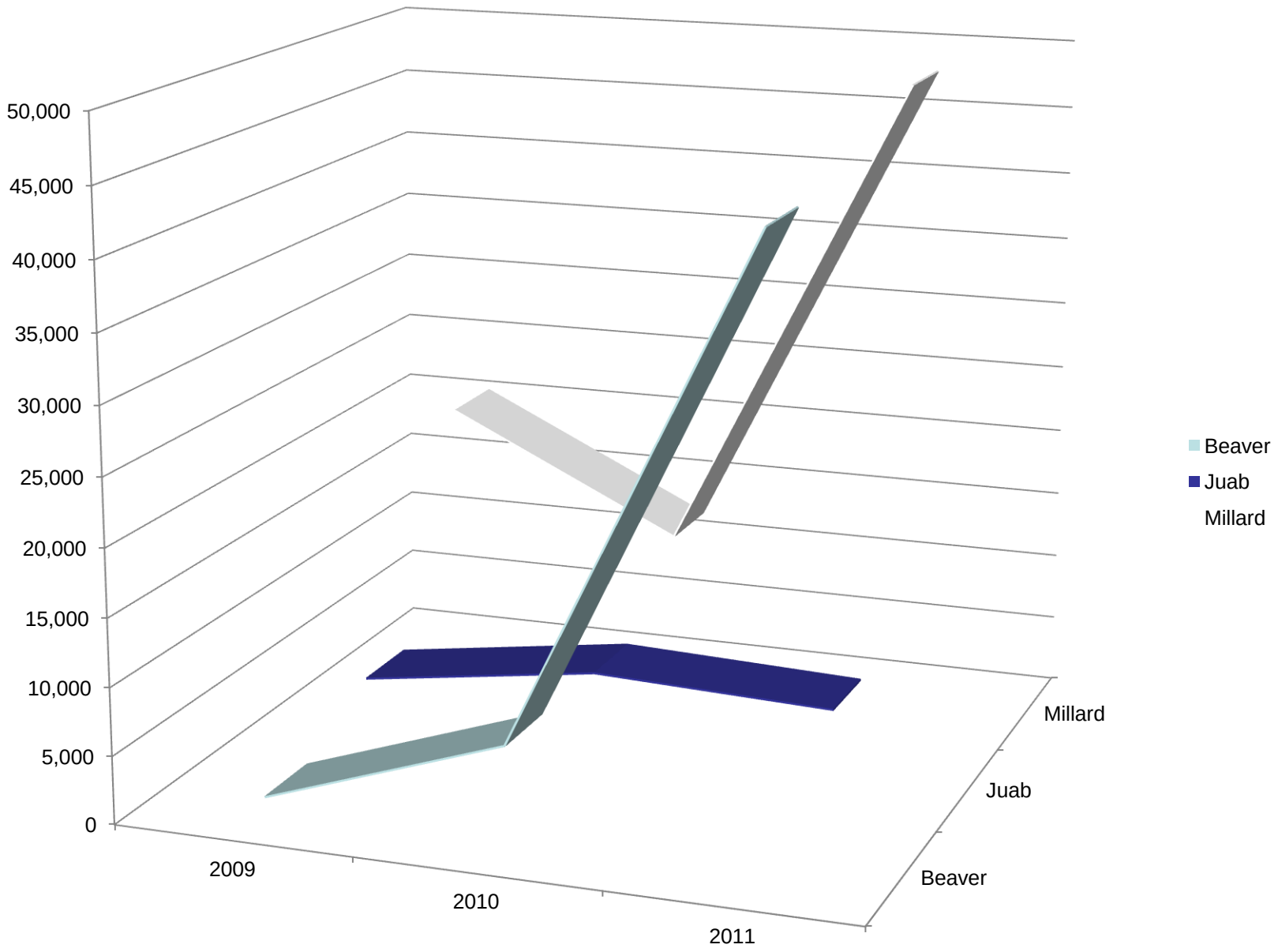
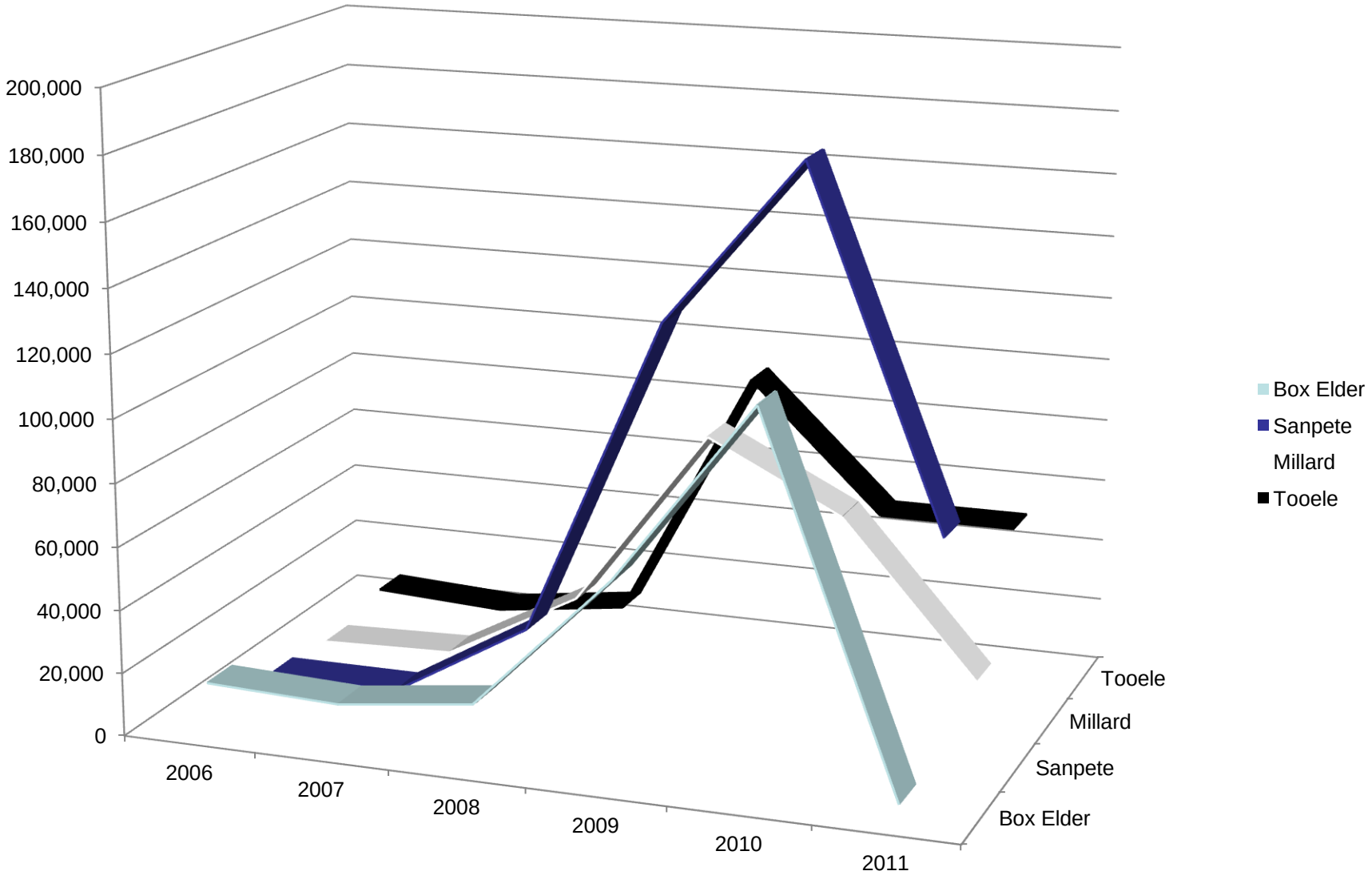


Figure 3. Counties with a decreased GH-infested acreage by year.



USDA APHIS PPQ

USDA APHIS PPQ
1860 W. Alexander St., #B
W. Valley, Utah
84119
(801) 975-3310

Robert King SPHD-UT
Email:
Robert.E.King@aphis.usda.gov

Table 1. Grasshopper Infested Acreage By Year

County	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
		13,800	4,000	7,000	4,420	5,880	1,800	3,013	5,315	5,863		7,190
Box Elder	55,000	120,400	120,000	94,710	6,570	15,200	15,270	13,644	18,918	62,151	118,727	43,334
Cache	19,000	64,500	17,000	2,200	26,380	2,170	10,490	10,616	3,856	22,442	47,869	14,393
Carbon	12,300	56,100	21,600		2,700		5,860	1,279		3,733	12,763	3,357
Daggett	600	4,900		8,530	7,750	1,900		7,769	1,280	1,568	2,714	2,560
Davis				2,530		3,010					1,280	2,560
Duchesne	1,300	82,400	8,700	70,800	230,190		420	3,838	19,375	85,391	39,292	11,746
Emery	3,500	10,400	6,400		1,710	12,680	21,210	1,652	4,329	22,401	7,680	13,339
Garfield	6,800	10,900	4,200	52,560	13,780	24,450		2,216		2,474		
Grand									1,445	19,384	17,341	20,389
Iron	7,000	5,000	12,300	24,540	26,760	17,140	2,780	3,203	2,560	12,316	13,170	21,530
Juab	33,000	174,000		21,030	8,060	2,250		4,670	28,754	121,893	131,575	53,968
Kane	10,300	1,300		16,710	13,680	7,570				1,280	1,280	
Millard	52,500	216,800	8,950	6,500	3,590		1,280	2,559	25,599	83,063	61,620	13,320
Morgan	19,000	63,100		2,530	25,710		5,530	6,989	136	2,770	8,955	2,560
Piute	21,000	18,200	32,600	40,310	5,990	13,870	2,560	5,035	3,135	395	1,280	4,882
Rich		12,400		32,140	68,830	4,000				2,192	3,519	6,030
Salt Lake				2,530		2,530		2,479		8,265	6,400	1,280
San Juan	23,000	3,900	2,500					1,279	7,515	3,840	1,280	1,280
Sanpete	157,000	183,500	268,400	142,680	118,920	56,470	3,840	3,838	28,749	129,329	181,346	71,663
Sevier	58,000	31,000	70,500	78,000	22,870	16,850	3,830	12,417	4,789	16,807	11,298	13,732
Summit	10,000	3,600	2,550	12,630	33,870		1,280	2,136	2,560	6,822	7,680	
Tooele	5,700	74,600	161,800	39,000	2,550	16,020	6,170	3,838	9,444	90,900	49,938	49,965
Uintah	36,000	71,200	53,500	25,750	100,950	12,670	20,510	9,319	17,692	94,457	57,806	22,165
Utah	29,000	56,400	8,500	15,150	16,440		1,280	2,558	6,782	60,751	58,828	20,285
Wasatch	3,000	65,600	7,000	17,540	25,250			1,279		5,703	1,280	7,680
Washington		44,100	7,100	150	2,530		4,270	5,752	38,487	4,896	1,280	4,512
Wayne	2,000	2,000		10,430								
Weber	17,000						3,690	1,119	1,144		7,461	1,280
Total	**593,000**	**1,390,100**	**817,600**	**725,950**	**769,500**	**214,660**	**112,070**	**112,497**	**231,864**	**871,086**	**853,662**	**415,000**

USDA APHIS PPQ

USDA APHIS PPQ
1860 W. Alexander St., #B
W. Valley, Utah
84119
(801) 975-3310

Robert King SPHD-UT
Email:
Robert.E.King@aphis.usda.gov

Table 2. Grasshopper Infested Acreage By Land Ownership

County	Federal	Private	State	Total
Beaver	4,013	3,112	65	7,190
Box Elder	4,823	36,604	1,907	43,334
Cache	2,210	12,183		14,393
Carbon	369	2,268	720	3,357
Daggett	554	981	1,024	2,560
Davis	847	433	1,280	2,560
Duchesne	2,362	8,100	1,284	11,746
Emery	1,640	10,565	1,134	13,339
Grand	14,540	2,776	3,073	20,389
Iron	2,943	17,768	818	21,530
Juab	12,190	38,377	3,401	53,968
Millard	7,252	5,757	312	13,321
Morgan	39	2,170	351	2,560
Piute	1,306	3,575	1	4,882
Rich	1,136	4,664	230	6,030
Salt Lake	378		902	1,280
San Juan	1,254		26	1,280
Sanpete	25,431	34,769	11,463	71,663
Sevier	6,248	6,018	1,466	13,732
Tooele	28,487	17,988	3,490	49,965
Uintah	13,554	7,230	1,380	22,165
Utah	3,108	16,086	1,092	20,285
Wasatch	3,834	3,479	367	7,680
Washington	513	3,997	1	4,512
Weber			1,280	
Total	139,032	238,900	37,068	415,000

USDA APHIS PPQ

USDA APHIS PPQ
1860 W. Alexander St., #B
W. Valley, Utah
84119
(801) 975-3310

Robert King SPHD-UT
Email:
Robert.E.King@aphis.usda.gov

Table 3. Mormon Cricket Infested Acreage By Year

County	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Beaver	6,000	7,000	158,500	226,700	257,850	2,540				1,280	7,250	44,271
Box Elder			108,300	125,900	276,620	499,550	966,340	98,276	30,326	3,892		
Cache		8,100	4,400	8,400	8,260							
Carbon		33,100	33,100	2,530								
Daggett				4,600	21,450	7,610	8,160	7,956	1,280	2,341		
Duchesne		83,900	7,000									
Emery		1,150	1,100	50								
Garfield				2,530	1,650							
Iron				7,600	70,790	3,040						
Juab	116,000	502,500	618,900	651,500	680,550	43,160		2,559		4,377	6,837	6,142
Millard	190,000	539,500	536,500	517,800	547,700	19,610				20,678	12,274	48,036
Rich						2,530						
Salt Lake						2,530		1,280		1,280		
San Juan		18,300	14,400		3,920							
Sanpete				31,760	310	4,380				1,280		
Sevier		24,500	85,500	190,200	177,420	1,570						
Summit					2,530							
Tooele	346,000	622,000	749,700	793,500	691,050	49,190	11,300	1,279	2,121	17,781		
Uintah		48,800	48,900	31,300		5,070	68,740	16,579	2,560	1,280		
Utah	500	5,650	74,600	116,200	123,800	3,780	1,280		1,280			
Washington					4,600							
Totals	658,500	1,894,500	2,440,900	2,710,570	2,868,500	644,560	1,055,820	127,929	37,567	54,189	26,361	98,449

USDA APHIS PPQ

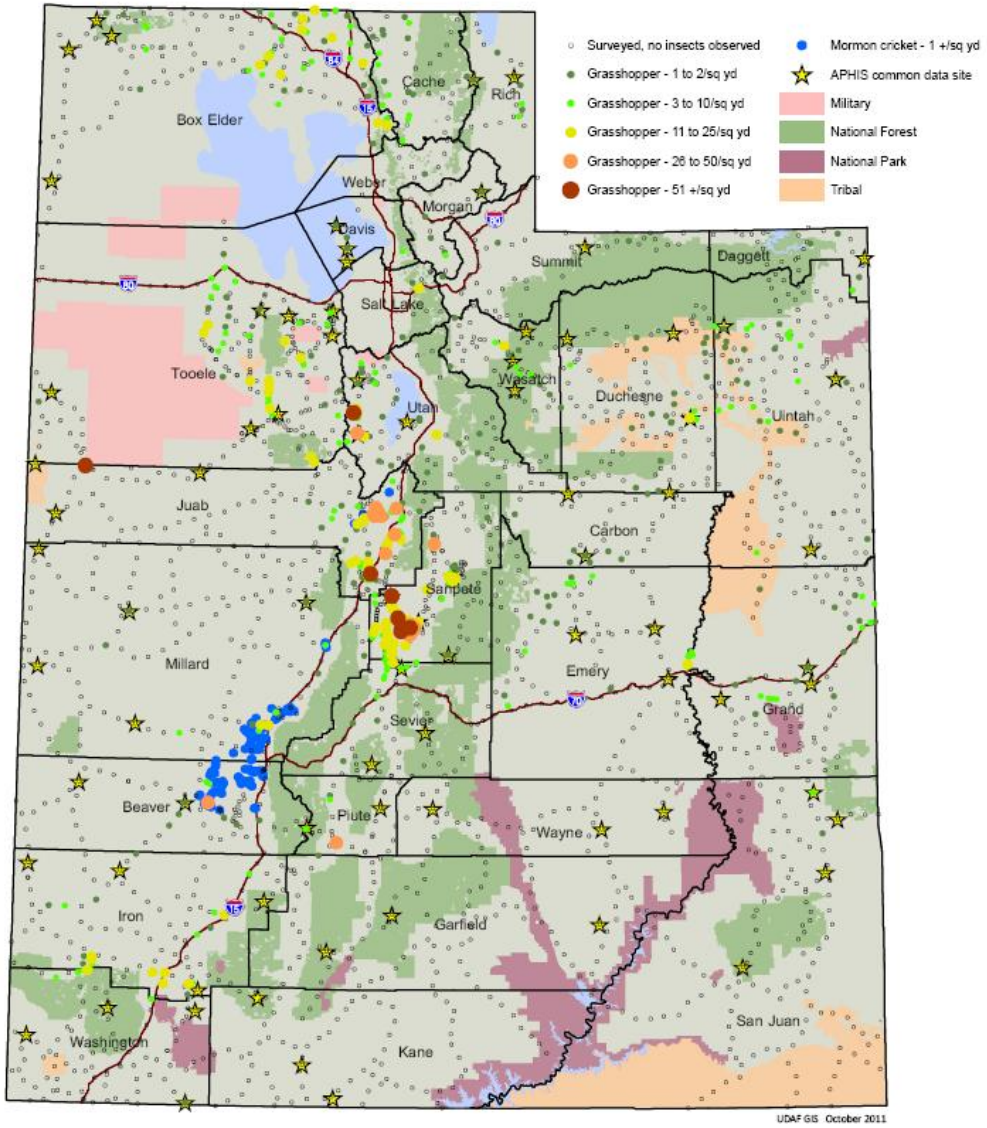
USDA APHIS PPQ
1860 W. Alexander St., #B
W. Valley, Utah
84119
(801) 975-3310

Robert King SPHD-UT
Email:
Robert.E.King@aphis.usda.gov

Table 4. Grasshopper Infested Acreage By Land Ownership

County	Federal	Private	State	Total
Beaver	29,774	11,941	2,556	44,271
Juab	3,821	1,677	643	6,141
Millard	28,860	18,245	932	48,037
Total	62,455	31,863	4,131	98,449

2011 Utah Grasshopper and Mormon Cricket Survey



Acknowledgements

- Anne Johnson – UDAF GIS
- Kris Watson – UDAF Data Coordinator
- Brittany Kinney – APHIS PPQ
- Pat Nelson – UDAF
- Lisa Bryant – BLM
- Jason Noble – UDAF Survey Tech
- Sterling Bascom – UDAF Survey Tech
- Robert Banks – APHIS Survey Tech
- Dee Smith – APHIS Survey Tech
- USU County Extension Agents
- UDAF Plant Industry Compliance Specialists