



2009 | Volume 69, Number 3

Highlights

- In 2008, farming accounted for just 0.25 percent of total personal income (\$218 million) in Utah and 0.47 percent of gross state product (\$511 million). The number of farms in the state has increased 30 percent since 1975 to 16,500 in 2008.
- In 2007 there were 608,637 acres of farmland in 4,259 farms in the Wasatch Front counties of Weber, Davis, Salt Lake, and Utah. This represented 25.5 percent of the state's farms but just 5.5 percent of its total farmland.
- Despite an overall loss of 434,000 acres of farmland between 1974 and 2007, the total number of farms along the Wasatch Front grew more than 20 percent.
- In 2007, 78 percent of Wasatch Front farms were under 50 acres and only 4 percent were 500 acres or more. Median farm sizes varied from 7 acres in Salt Lake County to 15 acres in Weber County.
- Most farms along the Wasatch Front are sole proprietorships. In 2007, shares ranged from 73 percent of farms in Salt Lake County to 84 percent in Utah County.
- The share of farm operators who are primarily farmers has diminished. In 1974, roughly 42 to 46 percent of Wasatch Front farm operators claimed farming as their primary occupation. By 2007, shares ranged from 33 to 38.5 percent.
- Small family farms—farms with sales under \$250,000 and organized as sole proprietorships, family partnerships, or family corporations—make up almost 93 percent of all farms on the Wasatch Front and account for more than 58 percent of all farmland.
- The Wasatch Front generated 17 percent of Utah's agricultural sales in 2007. Utah County alone accounted for 12 percent of statewide sales, while each of the other three counties provided 2 percent or less.
- In the four Wasatch Front counties, realized net income, net farm proprietors' income, and total farm labor and proprietors' income were all lower in 2007 than in 1974, and have been negative in all but Utah County since at least 2002.
- In 2007, a total of 610 Wasatch Front farms had direct sales to consumers (e.g., farmers' markets, roadside stands, etc.) of \$4.3 million, representing 1.6 percent of the total value of agricultural products sold.
- In 2007, 154 farms in Utah had more than 86,000 acres under organic production, with a total of \$7.3 million of organic products sold. On the Wasatch Front, 44 farms had 7,787 acres under organic production with more than \$586,000 in sales.

Utah's Urban Farmers: Agricultural Activity on the Wasatch Front

John C. Downen, Research Analyst

Agriculture in Utah carries roughly half the relative economic weight that it does nationwide. In 2008, farming accounted for just 0.25 percent of total personal income (\$218 million) in Utah and 0.47 percent of gross state product (\$511 million); nationally it contributed 0.61 percent of personal income and 0.91 percent of gross domestic product (Table 1). Nonetheless, since bottoming out at 12,600 in 1975, the number of farms in Utah has increased 30 percent to 16,500 in 2008. In contrast, the number of farms nationwide has fallen fairly steadily since 1950, reaching a low of

less than 2.1 million in 2006 then increasing slightly to 2.2 million in 2008 (Figure 1 and Table 2).

The average farm in Utah is considerably larger than the national average. However, after

2008 Farm Sha and Gross I Utah	Table re of F Domes and th (Millions	1 Person Stic Pro Ne U.S.	al Income oduct:
		Utah	U.S.
Total Personal Incom	e \$	87,411	\$12,225,589
Total Farm Income		\$218	\$74,498
Farm Share		0.25%	0.61%
Gross Domestic Prod	uct \$1	09,777	\$14,165,565
Farm Production		\$511	\$128,903
Farm Share		0.47%	0.91%
Farm production values are extrapt Source: U.S. Bureau of Economic Ar	plated from 2 alysis.	2007 figures.	

Figure 1 Number of Farms: Utah and the United States, 1950–2008







Source: BEBR and Utah Automated Geographic Reference Center.

diverging from at least 1950 through the mid-1970s, average farm sizes have been converging. Utah's farms peaked in 1975 at an average of 1,000 acres and have since shrunk to 673 acres. Nationwide, average farm sizes grew more slowly and peaked in 1992 at 464 acres; they have been relatively stable since, reaching 418 acres in 2008 (Figure 2 and Table 2).

Changes in the amount of land in farms in both Utah and the United States, while sharing the same overall trend, have also exhibited some noticeable differences. From 1950 to their peaks in 1955 and 1954, respectively, Utah farmland grew 13 percent while U.S. farmland increased only 0.4 percent. Both have declined roughly 20 percent since then, though Utah saw an increase in total farm acreage between 1994 and 1997 before falling again from 2003 to 2007 (Figure 3 and Table 2).

Figure 2



Source: Economic Research Service/USDA Farm Income Data Files





Source: Economic Research Service/USDA Farm Income Data Files.

Organic and locally produced foods have grown in popularity in recent years, both at restaurants and on grocery store shelves. Farmers' markets too have grown in number and attendance. And with the economic downturn home gardens have gained popularity as a source of food. All of this has brought more attention to the role of agriculture in urban areas.

In the fall of 2009, the Salt Lake County Council approved a plan to convert unused and underused county-owned land to community gardens until it is needed for parks or infrastructure. A press release from Utah State University Cooperative Extension quoted County Mayor Peter Corroon as saying, "In the new parks Salt Lake County purchased, we will set aside land for farming or gardening. In our existing regional parks, we are now master planning in areas for community gardens."¹

^{1. &}quot;USU Extension Co-Sponsors Urban Farming Conference," available at http://extension.usu.edu/htm/news/articleID=7137.

This study				Tab	e 2				
examines	-	Summary	Statistics	s: Utah a	nd U.S. F	arms, 19	50-2008		
urban		1950	1960	1970	1980	1990	2000	2008	Change
farming	Number of Farms								
along Utah's	Utah	25,800	19,000	14,100	13,500	13,200	15,500	16,500	-7.5%
Wasatch	U.S.	5,647,800	3,962,520	2,949,140	2,439,510	2,145,820	2,166,780	2,200,000	-23.5%
Eropt It	Average Farm Size								
FIOIL, IL	Utah	465	716	936	919	856	748	673	-36.0%
covers	U.S.	213	297	374	426	460	436	418	-61.0%
agricultural	Land in Farms								
activity in	(000s of Acres)	12,000	12 000	12 200	12 400	11 200	11 000	11 100	44 604
Weber	Utan	12,000	13,600	13,200	12,400	11,300	11,600	11,100	44.6%
weber,	U.S.	1,202,019	1,175,646	1,102,371	1,038,885	986,850	945,080	919,900	96.5%
Davis, Salt	Source: Economic Research Service/	USDA Farm Income I	Data Files.						
Lake, and									

nt ler 50 111 were s or hese ere nstant ext but 78 ٥f Wasatch

Utah counties using data from the USDA's Census of Agriculture from 1974 to 2007. It begins by looking at the amount of farmland and farms, as well as the distribution of farm sizes. Next we consider farm ownership and operator characteristics, noting that most farms on the Wasatch Front are sole proprietorships. The study then turns to farm finances, based on data from the U.S. Bureau of Economic Analysis, and an analysis of direct sales and current organic practices. A summary concludes the piece.

Farmland and Farms

The Census of Agriculture defines a farm as any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census year. The definition has changed nine times since it was established in 1850. The current definition was first used for the 1974 census and has been used in each subsequent agricultural census.

In 2007 there were 608,637 acres of farmland in 4,259 farms in the Wasatch Front counties of Weber, Davis, Salt Lake, and Utah. This represented 25.5 percent of the state's farms but just 5.5 percent of its total farmland, indicating that these urban farms are much smaller than in the rest of the state. The average Wasatch Front farm is 143 acres, compared with the statewide average of 664 acres. The median Wasatch Front farm is between 7 and 15 acres versus the statewide median of 36 acres.

The total amount of land in farms on the Wasatch Front shrank by 464,500 acres between 1974 and 2002, from over 1 million acres to 578,100. However, from 2002 to 2007 there was a small rebound, with a net increase of 30,500 acres of farmland. This is rather remarkable considering it took place in the context of nearly continuous growth in new residential construction. Between 2002 and 2007 more than 92,600 new dwelling units were constructed along the Wasatch Front to accommodate an additional 245,100 residents.

Despite the overall decline in farmland between 1974 and 2007, the total number of farms along the Wasatch Front grew more than 20 percent, from 3,490 to 4,259. However, this was not steady growth. The number of farms peaked in 1997 at 4,476 and has been declining since. Average farm size fell from 299 acres in 1974 to 143 acres in 2007, which was larger than in 2002 because of the recent growth in farmland. Most farms are much smaller. In 1974, 58 percent of Wasatch Front farms were less than 50 acres and less than 15 percent were 180 acres or larger. By 1982

Front farms were under 50 acres and only 4 percent were 500 acres or more. The median farm sizes in 2007 were 15 acres in Weber County, 13 acres in Utah County, 10 acres in Davis County, and just 7 acres in Salt Lake County.

Looking at the individual counties reveals some significant variation in trends (Table 3). While all four counties lost farmland over the study period-137,100 acres in Utah County, 116,500 in Salt Lake County, 109,200 in Weber County, and 71,200 acres in Davis County-three of the counties contributed to the growth in farmland that occurred between 2002 and 2007 (Figure 4). Salt Lake County added 25,200 acres in farms,² Weber County farmland increased by 19,300 acres, and Utah County saw an additional 2,600 agricultural acres. Davis was the only county to miss out on this trend, losing 16,600 farm acres from 2002 to 2007.



Utah County has had and continues to have the largest amount of farmland by far, with 345,600 acres in 2007. Salt Lake and Weber counties have less than one-third as much, with 107,500 and

106,200 acres, respectively. Finally, Davis County has less than half as much as these, with just 49,300 acres in 2007. In 1974 the share of counties' total land area that was in agriculture ranged

^{2.} Note that this is based on the USDA's Census of Agriculture. According to the Salt Lake County Assessor, "greenbelt" acres have declined steadily since at least 1995, with increases of only 770 acres from 2000 to 2001 and 600 acres from 2008 to 2009. In order for land to be considered greenbelt, it must be at least five contiguous acres and the owner must receive some benefit from agricultural activity.

		Wasa	tch Front Farm	Table s, Land in Farı	ms, and Farm (Size: 1974–20(7			
	1974 Number Share	1978 Number Share	1982 Number Share	1987 Number Share	1992 Number Share	1997 Number Share	2002 Number Share	2007 Number Share	Change Number Pe	rcent
Weber County										
Farms	712	777	905	891	945	1,081	1,012	1,001	289 4	%9.0ł
Land in Farms* (acres)	215,421 57.9%	205,236 55.2%	176,953 48.9%	199,496 55.1%	256,522 69.6%	85,781 23.3%	86,913 23.6%	106,247 28.9%	-109,174 -5	50.7%
Average Size	303	264	196	224	271	79	86	106	-196 -6	64.9%
Farms by Size										
1-9 acres	98 13.8%	131 16.9%	226 25.0%	218 24.5%	238 25.2%	378 35.0%	359 35.5%	355 35.5%	257 26	52.2%
10-49 acres	287 40.3%	327 42.1%	400 44.2%	405 45.5%	401 42.4%	440 40.7%	397 39.2%	429 42.9%	142 4	19.5%
50-179 acres	225 31.6%	216 27.8%	193 21.3%	176 19.8%	201 21.3%	169 15.6%	166 16.4%	147 14.7%	-78 -3	34.7%
180-499 acres	65 9.1%	75 9.7%	60 6.6%	57 6.4%	71 7.5%	73 6.8%	62 6.1%	47 4.7%	-18 -2	27.7%
500-999 acres	25 3.5%	13 1.7%	14 1.5%	20 2.2%	21 2.2%	13 1.2%	15 1.5%	12 1.2%	-13 -5	52.0%
1,000+ acres	12 1.7%	15 1.9%	12 1.3%	15 1.7%	13 1.4%	8 0.7%	13 1.3%	11 1.1%	-1-	-8.3%
Davis County										
Farms	581	565	660	647	582	653	582	496	-85 -1	4.6%
I and in Farms* (acres)	120.441 63.4%	94.151 49.5%	111.721 58.3%	63.244 33.0%	50.357 25.8%	70.796 36.3%	65.857 33.8%	49.279 25.8%	-71.162 -5	59.1%
Average Size	207	167	169	98	87	108	113	66	-108 -5	52.1%
Farms by Size										
1-9 acres	96 16.5%	139 24.6%	219 33.2%	205 31.7%	192 33.0%	258 39.5%	229 39.3%	230 46.4%	134 13	39.6%
10-49 acres	265 45.6%	218 38.6%	251 38.0%	256 39.6%	221 38.0%	238 36.4%	239 41.1%	182 36.7%	-83 -3	31.3%
50-179 acres	152 26.2%	144 25.5%	122 18.5%	126 19.5%	116 19.9%	88 13.5%	63 10.8%	51 10.3%	-101 -6	6.4%
180-400 acree	74 7 606	VV 7 80%	E1 7 70%	711 E 80/	70C L CV	E1 7 80%	37 6 106	21 E 20/2	181	200 0
										0/ 0.01
200-999 acres	%0.7 CT	0/277 OT	06/11	ч 1.4%	0%2.1 /	0/2.2 OI	8 1.4%	4 0.8%	/- 11-	2.2%
I,UUU+ acres	0%C.I Y	4 0.7%	0.7%	/ 1.1%	4 0.7%	2 0.3%	6 I.U%	3 0.6%	9- 9-	06./%
Salt Lake County										
Farms	592	660	805	734	686	705	712	587	- 5	-0.8%
Land in Farms* (acres)	223,957 45.8%	210,478 43.0%	174,172 36.0%	155,398 32.1%	107,663 22.8%	118,657 25.1%	82,267 17.4%	107,477 22.8%	-116,480 -5	52.0%
Average Size	378	319	216	212	157	168	116	183	-195 -5	51.6%
Farms by Size										
1-9 acres	173 29.2%	239 36.2%	360 44.7%	353 48.1%	310 45.2%	367 52.1%	372 52.2%	316 53.8%	143 8	32.7%
10-49 acres	216 36.5%	233 35.3%	279 34.7%	244 33.2%	236 34.4%	204 28.9%	214 30.1%	151 25.7%	-65 -3	30.1%
50-179 acres	134 22.6%	121 18.3%	114 14.2%	85 11.6%	96 14.0%	77 10.9%	75 10.5%	57 9.7%	- 77 -5	57.5%
180-499 acres	35 5.9%	32 4.8%	26 3.2%	28 3.8%	24 3.5%	33 4.7%	29 4.1%	28 4.8%	-7 -2	%0.03
500-999 acres	10 1.7%	11 1.7%	11 1.4%	7 1.0%	4 0.6%	6 0.9%	7 1.0%	14 2.4%	4	%0.04
1,000+ acres	24 4.1%	24 3.6%	15 1.9%	17 2.3%	16 2.3%	18 2.6%	15 2.1%	21 3.6%	-3 -1	.2.5%
Utah County										
Farms	1,605	1,612	1,848	1,723	1,696	2,037	2,046	2,175	570 3	35.5%
Land in Farms* (acres)	482,754 37.5%	435,317 33.8%	432,326 33.5%	493,902 38.2%	450,315 35.2%	374,086 29.2%	343,072 26.8%	345,634 27.0%	-137,120 -2	28.4%
Average Size	301	270	234	287	266	184	168	159	-142 -4	17.2%
Farms by Size										
1-9 acres	273 17.0%	319 19.8%	542 29.3%	475 27.6%	475 28.0%	665 32.6%	821 40.1%	857 39.4%	584 21	3.9%
10-49 acres	633 39.4%	638 39.6%	712 38.5%	655 38.0%	644 38.0%	777 38.1%	684 33.4%	793 36.5%	160 2	25.3%
50-179 acres	430 26.8%	396 24.6%	342 18.5%	360 20.9%	333 19.6%	344 16.9%	292 14.3%	276 12.7%	-154 -3	35.8%
180-499 acres	157 9.8%	150 9.3%	146 7.9%	129 7.5%	134 7.9%	139 6.8%	142 6.9%	133 6.1%	-24 -1	5.3%
500-999 acres	45 2.8%	51 3.2%	44 2.4%	51 3.0%	46 2.7%	50 2.5%	54 2.6%	70 3.2%	25 5	55.6%
1,000+ acres	67 4.2%	58 3.6%	62 3.4%	53 3.1%	64 3.8%	62 3.0%	53 2.6%	46 2.1%	-21 -3	31.3%
* The entire acreage of a farm is tabulate	ed as in the county in which the	e headquarters is located, ever.	n though a part of the farm may	<i>ι</i> be situated in an adjoining α	ounty. Counties are arranged fr	om north to south.				
Source: U.S. Department of Agriculture,	1974–2007 Censuses of Agricu	ulture.								

Utah's Urban Farmers: Agricultural Activity on the Wasatch Front

from 37.5 percent in Utah County to 46 percent in Salt Lake County, 58 percent in Davis County, and 63 percent in Weber County. By 2007 these shares had shrunk and converged to within six percentage points of each other. Farmland accounted for just 23 percent of Salt Lake County's land area and only 29 percent of Weber County's. Davis and Utah counties were in the middle at 26 and 27 percent, respectively.

Utah and Weber counties were the only counties to see overall growth in the number of farms over the study period. The number of Utah

County farms increased from 1,605 in 1974 to 2,175 in 2007, and those in Weber County grew from 712 to 1,001. The number of farms in Salt Lake County grew from 592 in 1974 to 805 in 1982, fell to 686 in 1992, grew modestly to 712 in 2002, then fell again to 587 in 2007 for a net loss over the period. Davis County

2,500

2,000

1,500

1,000

500

0

974

978

Source: U.S. Department of Agriculture, 1974–2007 Censuses of Agriculture.

982

1992

997

987

Number of Farms

underwent a similar pattern, beginning with 581 farms in 1974, peaking at 660 in 1982, declining then peaking again at 653 in 1997, and ultimately finishing lower with 496 farms in 2007 (Figure 5).

To provide some context for these recent changes, between 2002 and 2007 Salt Lake County's population grew by 91,300 residents, Weber County grew by 17,400, Utah County grew by 95,500, and Davis County added 40,900 people. Davis is the smallest of the four counties in land area, with 191,200 acres, and has a relatively high population density with 1.55 persons per

Figure 6 Size Distribution of Salt Lake County Farms, 1974 and 2007

Figure 5

Number of Farms by County, 1974-2007

Utah County Weber County

Davis County

Salt Lake County



acre. This makes it difficult for the county to accommodate both population growth and expanding agriculture. Weber and Salt Lake counties are roughly comparable in land area, with 368,100 acres and 471,900 acres respectively. Weber was able to increase both its population and its farmland because of its low population density, with just 0.6 person per acre in 2007. Salt Lake County

has the highest population density at 2.16 persons per acre; thus it is all the more remarkable that agricultural land increased in the county from 2002 to 2007 (but see footnote 2, above). Utah County is the largest of the four, with almost 1.3 million acres, and its density is the lowest, with only 0.39 person per acre, providing plenty of room for the growth of both agriculture and population (Table 4).

Agricultural activity in urban settings is constrained by competing demands for scarce land. Not surprisingly, then, most urban farms are quite small. As the population

of the Wasatch Front counties has grown, the size of their farms has tended to shrink. This becomes particularly evident when we examine the change in distribution of farms by size over time (Table 3). As noted above, the median farm sizes along the Wasatch Front in 2007 were 15 acres in Weber County, 13 acres in

2002

2007

Utah County, 10 acres in Davis County, and just 7 acres in Salt Lake County.

In Salt Lake County more than half (54 percent) of all farms in 2007 were smaller than 10 acres; almost 80 percent were under 50 acres. This was not the case in 1974. Then, 29 percent of Salt Lake County farms were under 10 acres and fewer than two-thirds were under 50 acres. More than one-fifth, almost 23 percent, were between 50 and 179 acres. Interestingly, both the number and share of very large farms, those 1,000 acres and more, were similar in 1974 and 2007. In 1974 there were 24 of these largest farms,

representing 4.1 percent of all farms in the county; in 2007 there were 21, representing 3.6 percent of all farms-the largest share of the four Wasatch Front counties. And the number of large farms in 2007 was 40 percent more than in 2002, when there were 15. In addition, the number of Salt Lake County farms between 500 and 999 acres peaked in 2007 with 14 farms. This was 40

		Рор	ulation C	hange Al	Table ong the V	4 Vasatch I	-ront, 19	74-2007			
County	1074	1078	1087	1087	1007	1007	2002	2007	Char	ge	'07 Density
county	19/4	1970	1902	1907	1992	1997	2002	2007	Number	Fercent	pers. per acre
Davis County	119,900	134,900	158,000	179,000	201,158	224,356	255,099	296,029	176,129	146.9%	1.55
Salt Lake County	504,500	576,600	659,000	710,000	775,306	858,306	927,564	1,018,904	514,404	102.0%	2.16
Utah County	171,100	203,100	232,000	252,000	279,635	334,658	405,977	501,447	330,347	193.1%	0.39
Weber County	130,100	138,800	151,000	156,000	166,390	186,993	203,377	220,781	90,681	69.7%	0.60
Wasatch Front	925,600	1,053,400	1,200,000	1,297,000	1,422,489	1,604,313	1,792,017	2,037,161	1,111,561	120.1%	0.88
Source: Utah Population Estim	nates Committee an	d U.S. Department	of Agriculture 200	7 Census of Agricul	ture (land area).						

percent more than in 1974 and twice as many as in 2002 (Table 3 and Figure 6).

Farms in Davis County also shifted toward smaller operations. In 1974 just 16.5 percent of the county's farms, 96 farms, were smaller than 10 acres and 62 percent were under 50 acres; almost 46 percent, 265 farms, were between 10 and 49 acres, the most populous category. By 2007 the share of farms under 10 acres had nearly tripled to 46 percent and the number had more than doubled to 230, while 37 percent, 182 farms, were between 10 and 49 acres. Thus the share of farms in Davis County that were smaller than 50 acres had increased to 83 percent over the study period. Unlike in Salt Lake County, the number and share of farms that were larger decreased between 1974 and 2007. There were 15 farms of 500 to 999 acres each and 9 farms of 1,000 acres or more in 1974. These represented 2.6 percent and 1.5 percent of all farms, respectively. In 2007 there were only 4 farms in the 500-999-acre range and 3 in the 1,000-plus range; together, these represented less than 1.5 percent of all farms (Table 3 and Figure 7).





Source: U.S. Department of Agriculture, 1974 and 2007 Censuses of Agriculture.

The move toward smaller farms in Weber County was not quite as dramatic as in Salt Lake and Davis counties. The share of Weber farms in the smallest category, those less than 10 acres, grew from 14 percent in 1974 to 35.5 percent in 2007, from 98 farms to 355. However, the share of farms between 10 and 49 acres was not much different in 2007 than in 1974, at 43 percent and 40 percent, respectively. This remained the most populous category, with an increase from 287 to 429 farms. At the larger end of the distribution, the number of farms in the 500–999-acre range fell from 25 to 12, and from 3.5 percent to 1.2 percent of the total. The number of very large farms, those 1,000 acres or more, was practically unchanged in 2007 at 11. Their share of the total shrank slightly from 1.7 percent to 1.1 percent (Table 3, above, and Figure 8).

Utah County had the second-fastest growth in very small farms over the study period, behind only Weber County. The number of farms under 10 acres increased 214 percent, from 273 in 1974 to 857 in 2007. In fact, Utah County was the only Wasatch Front county in which the number of farms increased in three of the five size categories. Like Salt Lake County, Utah County saw significant growth in the 500–999-acre range, from 45 farms in 1974 to 70 in 2007. Not only did Utah County have the most farms of this size, it also had the largest share of farms this size at 3.2 percent. The number of farms between 10 and 49 acres also grew, from 633 to 793. The share of farms smaller than 50 acres increased from 56 percent in 1974 to 76 percent in 2007, with the share under 10 acres more than doubling from 17 percent to 39 percent (Table 3, above, and Figure 9).





Source: U.S. Department of Agriculture, 1974 and 2007 Censuses of Agriculture.

Farm Ownership and Operations

Table 5 provides data on farm ownership and farm operator characteristics. Most farms along the Wasatch Front are sole proprietorships owned by individuals or families. The lowest share of sole proprietorships in 2007 was in Salt Lake County, where 73 percent of farms were individual or family owned. In Davis County the share was 81 percent; 82.5 percent of farms in Weber County were sole proprietorships; and in Utah County the share was 84 percent. The national average was 86.5 percent.

These rates are also lower than they were in 1974, with Salt Lake County seeing the largest reduction. Note that the number of



Figure 9 Size Distribution of Utah County Farms, 1974 and 2007

_	_	Wasatch Fro	ont Farm Ow	Table 5 nership and	Operations:	1974-2007	_	_	
	1974* No. Share	1978 No. Share	1982 No. Share	1987 No. Share	1992 No. Share	1997 No. Share	2002 No. Share	2007 No. Share	Change Amount Percent
Weber County									
Total Farms	712	777	905	891	945	1,081	1,012	1,001	289 40.6%
Individual or Family-Owned Farms	389 89.6%	661 85.1%	756 83.5%	751 84.3%	783 82.9%	898 83.1%	887 87.6%	826 82.5%	437 112.3%
Principal Operator Characteristics									
Full Owner	460 64.6%	477 61.4%	583 64.4%	575 64.5%	598 63.3%	716 66.2%	717 70.8%	708 70.7%	248 53.9%
Farming is Primary Occupation	319 46.4%	312 40.2%	329 36.4%	353 39.6%	387 41.0%	370 34.2%	424 41.9%	338 33.8%	19 6.0%
Live on Farm Operated	455 66.1%	563 72.5%	667 73.7%	659 74.0%	694 73.4%	826 76.4%	780 77.1%	801 80.0%	346 76.0%
Average Age	53.9	53.2	52.9	55.2	55.9	55.5	57.0	58.7	
Davis County									
Total Farms	581	565	660	647	582	653	582	496	-85 -14.6%
Individual or Family-Owned Farms	299 86.4%	465 82.3%	545 82.6%	543 83.9%	474 81.4%	500 76.6%	479 82.3%	401 80.8%	102 34.1%
Principal Operator Characteristics									
Full Owner	346 59.6%	328 58.1%	397 60.2%	408 63.1%	351 60.3%	401 61.4%	383 65.8%	329 66.3%	-17 -4.9%
Farming is Primary Occupation	235 41.6%	230 40.7%	249 37.7%	245 37.9%	244 41.9%	217 33.2%	291 50.0%	191 38.5%	-44 -18.7%
Live on Farm Operated	356 63.0%	391 69.2%	449 68.0%	445 68.8%	392 67.4%	434 66.5%	446 76.6%	364 73.4%	8 2.2%
Average Age	55.3	54.2	54.9	56.5	58.1	57.0	58.0	61.1	
Salt Lake County									
Total Farms	592	660	805	734	686	705	712	587	-5 -0.8%
Individual or Family-Owned Farms	344 84.5%	533 80.8%	661 82.1%	605 82.4%	571 83.2%	564 80.0%	612 86.0%	426 72.6%	82 23.8%
Principal Operator Characteristics									
Full Owner	378 63.9%	421 63.8%	530 65.8%	489 66.6%	446 65.0%	488 69.2%	557 78.2%	453 77.2%	75 19.8%
Farming is Primary Occupation	257 46.2%	251 38.0%	256 31.8%	256 34.9%	228 33.2%	234 33.2%	290 40.7%	192 32.7%	-65 -25.3%
Live on Farm Operated	360 64.7%	444 67.3%	535 66.5%	505 68.8%	462 67.3%	478 67.8%	539 75.7%	405 69.0%	45 12.5%
Average Age	53.6	51.9	51.5	53.8	55.5	56.8	57.1	58.8	
Utah County									
Total Farms	1,605	1,612	1,848	1,723	1,696	2,037	2,046	2,175	570 35.5%
Individual or Family-Owned Farms	959 90.4%	1,387 86.0%	1,574 85.2%	1,466 85.1%	1,442 85.0%	1,750 85.9%	1,832 89.5%	1,826 84.0%	867 90.4%
Principal Operator Characteristics									
Full Owner	1,088 67.8%	1,097 68.1%	1,216 65.8%	1,106 64.2%	1,044 61.6%	1,369 67.2%	1,436 70.2%	1,590 73.1%	502 46.1%
Farming is Primary Occupation	670 43.3%	621 38.5%	709 38.4%	691 40.1%	687 40.5%	712 35.0%	906 44.3%	740 34.0%	70 10.4%
Live on Farm Operated	854 55.2%	1,026 63.6%	1,209 65.4%	1,132 65.7%	1,104 65.1%	1,411 69.3%	1,489 72.8%	1,626 74.8%	772 90.4%
Average Age	52.2	52.1	52.0	53.9	55.4	55.2	55.8	56.6	
* In 1974, figures for individual or family-owned farms are	only for those farms with	sales of \$2,500 or more. Th	us the reported numbers r	nost likely understate the a	actual numbers. The repor	ted share of individual or fa	amily-owned farms in 1974	[‡] is the percent of farms wi	ith sales of \$2,500 or more, not
or all tarms. Frindpal operator characteristics in 1974, othe Counties are listed north to south. Source: U.S. Department of Agriculture. 1974–2007 Census	er than the ngures for tull o ses of Agriculture.	wners, appiy only to indivi	dual or family operations (sole proprietorsnips) and p	oartnersnips. I nese repres	ented 93.9% to 97.2% of a	li farms.		
Source: U.S. Department of Agriculture, 1974–2007 Census	ses of Agriculture.								

UNIVERSITY OF UTAH 7

individual and family farm proprietorships in 1974 counts only farms with sales of \$2,500 or more. Such farms represented 60 to 70 percent of all farms in each of the counties. The remaining farms, those with sales less than \$2,500, are more likely to be sole proprietorships than partnerships or corporations. Thus, the actual number and share of sole proprietorships in 1974 are most likely even higher than indicated.

In 1974, at least 84.5 percent of Salt Lake County's farms were individual or family proprietorships, and in 2002 the share was even higher at 86 percent. As noted above, between 2002 and 2007 there was a gain of 25,200 acres of farmland in Salt Lake County but a loss of 125 farms. This loss was entirely among small and medium-sized farms. The number of farms smaller than 500 acres fell by 138 over the five-year period, but the number of farms 500 acres or larger increased by 13. These larger farms are more likely to be corporately owned, whereas smaller farms are more likely sole proprietorships. Thus, the decline in individual and family ownership could account for the shift in the size distribution of Salt Lake County farms between 2002 and 2007.

At least 86 percent of farms in Davis County were individual or family proprietorships in 1974. This fell to about 77 percent in 1997, then rebounded to 82 percent in 2002 before reaching its current share of 81 percent. Utah and Weber counties had the highest rates of sole proprietorship in 1974, accounting for at least 90 percent of their farms. In Utah County proprietors' share shrank to 85 percent in 1992, then jumped back up to almost 90 percent in 2002 before settling to its current rate of 84 percent. Weber County saw individual and family ownership decline to 83 percent of all farms in 1992, rebound to almost 88 percent in 2002, then shrink again to its current level of 82.5 percent.

Despite the decline in sole proprietorships, the share of farms run by operators who are full owners—that is, individually owned farms—was higher in 2007 than in 1974. According to the USDA's definition, "the operator may be the owner, a member of the owner's household, a hired manager, a tenant, a renter, or a sharecropper." Beginning in 2002 the agricultural census began collecting data on multiple operators. Thus the principal operator is "the person primarily responsible for the on-site, day-to-day operation of the farm or ranch business. This person may be a hired manager or business manager."³

In 1974, the share of farms run by operators who were full owners ranged from less than 60 percent in Davis County to just under 68 percent in Utah County. In Salt Lake and Weber counties the shares were 64 percent and almost 65 percent, respectively. By 2007 the share of farms that are individually owned had increased in every county. In Davis County nearly twothirds of all farms are owned by their principal operator. In Weber County 71 percent are, and in Utah County 73 percent are. More than three-quarters, 77 percent, of farms in Salt Lake County are owned by their principal operator. This is larger than the share under family or individual ownership, which implies that some individual owner-operators may be organized as corporations. Although the share of farms run by owner-operators grew in all

3. USDA, National Agricultural Statistics Service, 2007 Census of Agriculture, Appendix B, pp. B-17 and B-20; available at http://www.agcensus.usda.gov/ Publications/2007/Full_Report/index.asp. four counties, the number actually shrank in Davis County, from 346 to 329 after reaching as high as 408 in 1987. This is not surprising considering that Davis County also saw the largest decline in the number of farms over the study period.

Looking at some of the characteristics of these farm operators, the share who are primarily farmers has diminished over time. In 1974, roughly 42 percent to 46 percent of Wasatch Front farm operators claimed farming as their primary occupation.⁴ By 2007, the largest share was in Davis County, where 38.5 percent of principal operators were primarily farmers. In Weber and Utah counties, 34 percent of farm operators declared farming as their primary occupation, and in Salt Lake County the share was less than 33 percent. On the one hand as revenues from farming have shrunk, farmers have had to look off the farm for additional sources of income. On the other hand, the growth in the number and share of very small farms along the Wasatch Front, those under 10 acres, indicates an increasing number of "hobby" farmers and those who farm to augment incomes from other jobs and for their own consumption.

This is supported by the fact that, despite the decline in farm operators for whom farming is their primary occupation, there has been an increase in the share of principal operators who live on the farms they operate. In 1974, 55 percent (in Utah County) to 66 percent (in Weber County) of farm operators lived on the farm they operated. By 2007 this had grown to between 69 percent (in Salt Lake County) and 80 percent (in Weber County). While the shares in Weber and Utah (75 percent) counties are the highest they've been over the study period, those in Davis (73 percent) and Salt Lake are below their shares in 2002.

The average age of principal operators declined slightly in all four counties between 1974 and 1982, then saw a marked rise between 1982 and 1987. Since 1987 the average age of farm operators has continued to increase. In 2007, the average principal operator in Utah County was over 56 years old, about four-and-a-half years older than in 1982. In Weber and Salt Lake counties the average age was almost 59 years, six and seven years older, respectively, than in 1982. At 61, Davis County farm operators were also about six years older than in 1982, and the oldest on the Wasatch Front. Note, however, that the population as a whole has also been aging. Between 1980 and 2000, median ages increased by 1.2 years in Utah County, 3.3 years in Weber County, 3.5 years in Salt Lake County, and 4.3 years in Davis County. Also, except in Utah County, the share of the population aged 50 years and older has been increasing.

For the first time in 2007 the *Census of Agriculture* included data cross-tabulated by the USDA Economic Research Service's farm typologies. These are divided into two major groups: small family farms with sales of less than \$250,000, and other farms. Within the small family farm group there are five subcategories. These are defined as follows:

Limited-resource farms have market value of agricultural products sold of less than \$100,000, and total principal operator household income of less than \$20,000.

4. Note that 1974 data on operator characteristics—primary occupation, place of residence, and age—apply only to individual or family operations (sole proprietorships) and partnerships. These represented 94 to 97 percent of all farms.

Small Family F		d Non	Tabl	e 6	n tha W	acatob	Eront ir	2007		
Silian Failing F Typology	Web	er	Dav	arms u vis	Salt L	asatti ake	Uta	1 2007	Wasatch	Front
Farms	Farms	Share	Farms	Share	Farms	Share	Farms	Share	Farms	Share
Small Family Farms	947	94.6%	457	92.1%	537	91.5%	2,008	92.3%	3,949	92.7%
Limited-Resource	138	13.8%	43	8.7%	108	18.4%	307	14.1%	596	14.0%
Retirement	247	24.7%	158	31.9%	129	22.0%	472	21.7%	1,006	23.6%
Residential/Lifestyle	452	45.2%	198	39.9%	258	44.0%	995	45.7%	1,903	44.7%
Farming Occupation/Lower Sales	96	9.6%	50	10.1%	38	6.5%	212	9.7%	396	9.3%
Farming Occupation/Higher Sales	14	1.4%	8	1.6%	4	0.7%	22	1.0%	48	1.1%
Nonfamily Farms	35	3.5%	22	4.4%	42	7.2%	112	5.1%	211	5.0%
Farmland	Acres	Share	Acres	Share	Acres	Share	Acres	Share	Acres	Share
Small Family Farms	56,231	52.9%	13,782*	28.0%	77,424*	72.0%	207,855	60.1%	355,292*	58.4%
Limited-Resource	6,792	6.4%	902	1.8%	10,110	9.4%	24,454	7.1%	42,258	6.9%
Retirement	14,418	13.6%	4,563	9.3%	6,750	6.3%	44,213	12.8%	69,944	11.5%
Residential/Lifestyle	27,340	25.7%	5,875	11.9%	60,564	56.4%	67,212	19.4%	160,991	26.5%
Farming Occupation/Lower Sales	4,707	4.4%	(D)	NA	(D)	NA	32,791	9.5%	37,498*	6.2%
Farming Occupation/Higher Sales	2,974	2.8%	2,442	5.0%	(D)	NA	39,185	11.3%	44,601*	7.3%
Nonfamily Farms	(D)	NA	(D)	NA	21,980	20.5%	63,834	18.5%	85.814*	14.1%

Retirement farms have sales of less than \$250,000 and a principal operator who is retired.

Residential/lifestyle farms have sales of less than \$250,000 and a principal operator whose primary occupation is not farming. *Farming occupation/lower-sales* farms have agricultural product sales of less than \$100,000 and a principal operator whose primary occupation is farming.

Farming occupation/ higher-sales farms have sales of between \$100,000 and \$249,999 and a principal operator whose primary occupation is farming.

The other farm types are large family farms with sales of \$250,000 to \$499,999, very large family farms with sales of \$500,000 or more, and nonfamily farms organized as corporations or operated by hired managers.⁵ Note that family farms can be organized as family partnerships or family corporations, as well as sole proprietorships.

Table 6 shows the distribution of small family farms and farmland by type and county. Small family farms make up almost 93 percent of all farms on the Wasatch Front and account for more than 58 percent of all farmland. Weber County has the largest share of family farms at almost 95 percent, while Salt Lake County, with the lowest share, is not far behind at 91.5 percent. However, the greatest share of land in small family farms is in Salt Lake County, where they account for more than 72 percent of all farmland.⁶ Weber County, on the other hand, has only 53 percent of its farmland in small family farms. In Davis County 92 percent of all farms are small family farms, but they represent only slightly more than 28 percent of the county's farmland.⁷ In Utah County also, 92 percent of its farms are small family farms, but they represent 60 percent of the county's farmland. Within small family farms, the largest subcategory across all counties is residential/lifestyle farms. These are 40 percent of all farms in Davis County, 44 percent of Salt Lake County farms, 45 percent of Weber County farms, and almost 46 percent of farms in Utah County. While they are also the largest subcategory of farmland, their shares show much more variation by county. Along the Wasatch Front about 161,000 acres are in residential farms, just 26.5 percent of all farmland. In Salt Lake County, residential farms represent 56 percent of all land in farms. They account for more than 25 percent of the farmland in Weber County and almost 20 percent of the agricultural land in Utah County. In Davis County, just 12 percent of the farmland is in residential farms.

Retirement farms are the second largest type of small family farm. They represent almost 24 percent of the farms on the Wasatch Front, but only 11.5 percent of the agricultural land. Retirement farms in Davis County make up 32 percent of all farms, but account for just 9 percent of the county's farmland. In Weber and Utah counties, retirement farms compose 22 to 25 percent of the farms and 13 to 14 percent of the agricultural land. In Salt Lake County they also represent 22 percent of all farms, but just 6 percent of the county's farmland.

Limited-resource farms, where the principal operator's household income is less than \$20,000 and agricultural sales are under \$100,000, make up significant shares of farms in Salt Lake, Utah, and Weber counties. They represent 18 percent of Salt Lake County's farms and 14 percent of the farms in both Utah and Weber counties. Not surprisingly, their shares of the farmland are much smaller, at 9 percent of Salt Lake County's agricultural land, 7 percent of Utah County's, and 6 percent of Weber County's.

Farm Finances

The Bureau of Economic Analysis tracks annual farm income and expenses at the county level back to 1969. To facilitate comparisons with the Census of Agriculture data, we confined our analysis to the period 1974 to 2007. All dollar amounts are adjusted for inflation.

^{5.} USDA, National Agricultural Statistics Service, 2007 Census of Agriculture, Appendix B, p. B-9; available at http://www.agcensus.usda.gov/Publications/ 2007/Full_Report/index.asp.

^{6.} Acreage was not disclosed for the two farming occupation categories, of which there is a total of 42 farms.

^{7.} Acreage was not disclosed for farming occupation/lower sales farms in Davis. There are 50 such farms, but because they have lower sales they likely have smaller acreage.

The Wasatch Front generated 17 percent of Utah's agricultural sales in 2007. Utah County alone accounts for 12 percent of statewide sales, while each of the other counties account for 2 percent or less. However, in 1974 Wasatch Front farms received 31 percent of gross agricultural sales in the state. Utah County's share was slightly lower at 11 percent, but Weber, Salt Lake, and Davis counties' shares were all considerably higher at 8 percent, 6 percent, and 5 percent respectively (Table 7).

Every Wasatch Front county has seen a decline in revenues from

the sale of agricultural products (what the BEA calls "cash receipts from marketings") over the study period. Salt Lake County's 2007

farming revenues of \$9.0 million were less than one-tenth of their 1974 level. Weber County's revenues declined more than three-quarters to \$30.6 million, and Davis County's fell more than two-thirds to \$26.7 million. Utah County, however, was down only 10.5 percent from 1974 to \$162.9 million.

Despite this long-run decline, three of the four counties saw sales growth between 2002 and 2007. In Utah County agricultural sales grew by \$33.3 million, 26 percent, over the five-year period and in Weber County sales were \$5.7 million, 23 percent, higher in 2007 than in 2002. Davis County's 2007 farm sales were up by just \$321,000 over 2002 but were about \$5.1 million lower than in 2006 (Table 7 and Figure 10).

The sources of farms' sales have changed over time (Table 7 and Figures 11 to 14). In Davis and Salt Lake counties, where the change has been most dramatic, agricultural activity has shifted from primarily livestock, poultry, and their products to crops. In 1974 livestock and poultry accounted for more than two-thirds of the total value of agricultural products sold in Davis County, with the remainder coming from crops. By 2007, livestock and poultry provided just 5 percent of sales, with crops accounting for 95 percent (Figure 11). In Salt Lake County the change has been similar. Livestock and poultry also supplied more than two-



Source: Bureau of Economic Analysis, Regional Economic Information System

with crops providing the remaining 40 percent. From the late 1970s through 1990, livestock and poultry's share of sales was between 70 and 75 percent. It then fell to less than half in 2003 but by 2007

Figure 11 Sources of Sales in Davis County, 1974-2007





Figure 12 Sources of Sales in Salt Lake County, 1974-2007



thirds of total agricultural product sales in 1974, but by 2007 accounted for only about one-fifth (Figure 12).

In Weber County, while crops have increased their share of total agricultural sales, livestock and poultry remain the major source of receipts. In 1974, livestock and poultry accounted for nearly 90 percent of the value of farm sales; in 2007 they supplied 70 percent of sales receipts (Figure 13).

Utah County has seen a somewhat different pattern. In 1974, livestock and poultry and their products contributed 60 percent of the value of all agricultural products sold,

had returned to 60 percent (Figure 14).

Detailed commodity sales data were not reported in a consistent format over the study period, so we analyzed only those from the most recent census (Table 8). As noted above, in 2007 agricultural sales in Davis and Salt Lake counties were primarily crops. In Davis County, nurseries, greenhouses, floriculture, and sod brought in \$24.9 million in sales, representing two-thirds of total sales. Vegetables, melons, potatoes, and sweet potatoes accounted for \$3.0 million (8 percent of total sales) and grains, oilseeds, dry beans, and dry peas accounted for \$1.3 million (3.5 percent). There were also \$2.4 million of cattle and calves sold and \$2.1 million of horses, ponies, mules, and donkeys, representing roughly 6 percent of total sales each. Similarly, Salt Lake County's largest disclosed category was nurseries, greenhouses, floriculture, and sod, whose \$14.7 million in sales represented 69 percent of total agricultural sales. Sales of grains, oilseeds, and dry beans and peas amounted to \$566,000 and less than 3 percent of total sales. Within animal products, the largest disclosed categories were \$1.3 million in sales of other animals and other animal products (6 percent of the total) and \$891,000 of horses, ponies, mules, and donkeys (4 percent). There were 100 farms with cattle and calf sales and 37 with sheep and goat sales, but the dollar amounts were not disclosed.

			т	able 7						
		(Tho	Farm	Finance	S					
	I	(Tho	usands of C	Lonstant 20	07 Dollars)				Chan	70
	1974	1978	1982	1987	1992	1997	2002	2007	Amount	Percent
Weber County										
Cash Receipts from Marketings Share of State	\$129,785.1	\$95,212.9 5.8%	\$65,776.0 5.2%	\$49,908.4 4.3%	\$50,331.4 4.2%	\$40,455.2 3.1%	\$24,841.4 2.0%	\$30,588.0 2.2%	-\$99,197.1	-/6.4%
Livestock, poultry, and their products	\$114,065.8	\$82,851.3	\$57,981.9	\$42,483.1	\$40,464.2	\$30,747.1	\$18,425.1	\$21,727.0	-\$92,338.8	-81.0%
Crops	\$15,719.3	\$12,361.6	\$7,794.1	\$7,425.3	\$9,867.2	\$9,708.1	\$6,416.3	\$8,861.0	-\$6,858.3	-43.6%
Other Income	\$3,065.5	\$3,049.6	\$2,065.6	\$3,604.0	\$3,525.7	\$3,639.7	\$6,717.4	\$4,933.0	\$1,867.5	60.9%
Imputed and misc, income received*	\$578.4	\$1,133.0	\$270.2	\$1,509.6	\$509.7	\$266.9	\$1,278.9	\$390.0	-\$188.4 \$2.055.9	-32.6%
Total production expenses	\$124,512.7	\$89,969.2	\$71,334.6	\$46,948.7	\$44,762.6	\$45,395.4	\$42,685.0	\$47,809.0	-\$76,703.7	-61.6%
Realized net income	\$8,337.9	\$8,293.3	-\$3,492.9	\$6,563.7	\$9,094.5	-\$1,300.5	-\$11,126.3	-\$12,288.0	-\$20,625.9	-247.4%
per farm (dollars)	\$11,711	\$10,673	-\$3,860	\$7,367	\$9,624	-\$1,203	-\$10,994	-\$12,276	-\$23,986	-204.8%
per acre (dollars) Total net farm proprietors' income	\$39	\$40 ¢4 211 9	-\$20 _\$2 558 1	\$33 ¢7 768 8	\$35 ¢11 376 7	-\$15 _\$1 284 7	-\$128	-\$116	-\$154 -\$20 403 8	-398.8%
Farm proprietors' employment	614	۹۹,211.5 813	943	933	992	1.034	1.080	1,034	420,405.0	68.4%
Average annual income (dollars)	\$15,239	\$5,181	-\$2,713	\$8,327	\$11,468	-\$1,242	-\$10,748	-\$10,684	-\$25,923	-170.1%
Total farm labor and proprietors' income	\$15,136.4	\$9,139.0	\$2,490.5	\$11,383.9	\$15,927.7	\$4,039.5	-\$5,617.7	-\$5,089.0	-\$20,225.4	-133.6%
Share of total personal income	0.5%	0.3%	0.1%	0.3%	0.4%	0.1%	-0.1%	-0.1%		
Davis County										
Cash Receipts from Marketings	\$82,476.0	\$67,495.7	\$53,360.4	\$52,899.7	\$64,875.1	\$44,261.9	\$26,408.7	\$26,730.0	-\$55,746.0	-67.6%
Share of State	5.2%	4.1%	4.2%	4.5%	5.4%	3.4%	2.1%	2.0%		
Livestock, poultry, and their products	\$55,678.1	\$41,910.5	\$26,613.7	\$28,600.0	\$24,821.9	\$8,928.4	\$2,615.2	\$1,386.0	-\$54,292.1	-97.5%
Crops Other Income	\$26,797.9	\$25,585.1 \$2,883.1	\$26,746.6	\$24,299.7 \$3 498 2	\$40,053.2 \$3,489.8	\$35,333.5 \$2 119 7	\$23,793.4 \$3 381 7	\$25,344.0 \$2,680.0	-\$1,453.9 \$464 3	-5.4% 21.0%
Government payments	\$467.2	\$1,270.1	\$268.0	\$2,140.9	\$645.7	\$189.4	\$288.4	\$93.0	-\$374.2	-80.1%
Imputed and misc. income received*	\$1,748.6	\$1,612.9	\$1,584.1	\$1,357.3	\$2,844.2	\$1,930.3	\$3,093.2	\$2,587.0	\$838.4	48.0%
Total production expenses	\$76,772.1	\$60,893.7	\$51,924.4	\$47,689.5	\$41,302.6	\$42,122.5	\$42,088.6	\$45,383.0	-\$31,389.1	-40.9%
Realized net income	\$7,919.7	\$9,485.0	\$3,288.0	\$8,708.3	\$27,062.3	\$4,259.1	-\$12,298.3	-\$15,973.0	-\$23,892.7	-301.7%
per acre (dollars)	\$13,031	\$10,700 \$101	\$4,962 \$29	\$13,400 \$138	\$40,499 \$537	\$0,522 \$60	-\$21,131 _\$187	-\$32,204 _\$3247	-\$45,635 -\$390	-592.9%
Total net farm proprietors' income	\$8,173.3	\$4,486.2	\$2,817.4	\$9,347.0	\$26,486.9	\$3,990.8	-\$11,789.3	-\$14,208.0	-\$22,381.3	-273.8%
Farm proprietors' employment	519	594	667	662	607	582	608	582	63	12.1%
Average annual income (dollars)	\$15,748	\$7,553	\$4,224	\$14,119	\$43,636	\$6,857	-\$19,390	-\$24,412	-\$40,161	-255.0%
Total farm labor and proprietors' income	\$14,504.6	\$10,879.2	\$8,859.6	\$14,406.8	\$32,658.0	\$13,660.8	-\$882.5	-\$3,341.0	-\$17,845.6	-123.0%
Share of total personal income	0.6%	0.4%	0.3%	0.4%	0.7%	0.2%	-0.0%	-0.0%		
Salt Lake County										
Cash Receipts from Marketings	\$97,252.1	\$70,391.8	\$57,589.7	\$42,121.1	\$33,526.4	\$29,743.8	\$10,754.0	\$8,976.0	-\$88,276.1	-90.8%
Share of State	6.1%	4.3%	4.5%	3.6%	2.8%	2.3%	¢2 974 0	0.7%	¢64 644 1	07 404
Crops	\$31,006.9	\$21.164.2	\$19,991.9	\$14.308.3	\$17.875.1	\$15,194.0	\$7.879.1	\$7,275.0	-\$23.731.9	-76.5%
Other Income	\$2,153.4	\$2,912.4	\$1,963.2	\$3,228.9	\$3,243.2	\$1,915.9	\$2,953.1	\$2,409.0	\$255.6	11.9%
Government payments	\$200.2	\$1,090.5	\$431.4	\$1,945.9	\$1,264.4	\$241.9	\$340.1	\$214.0	\$13.8	6.9%
Imputed and misc. income received*	\$1,953.2	\$1,821.9	\$1,531.8	\$1,283.0	\$1,978.8	\$1,673.9	\$2,612.9	\$2,195.0	\$241.8	12.4%
Iotal production expenses	\$86,667.3	\$/1,69/.8 ¢1.606.4	\$82,1/4.8	\$47,667.3 _e2 317 3	\$29,621.0 ¢7 1/8 6	\$32,680.0 _¢1.020.4	\$31,095./ _¢17.388.6	\$33,975.0	-\$52,692.3	-60.8%
per farm (dollars)	\$21,517	\$2,434	-\$28,102	-\$3,157	\$10,421	-\$1,447	-\$24,422	-\$38,484	-\$60,001	-278.9%
per acre (dollars)	\$57	\$8	-\$130	-\$15	\$66	-\$9	-\$211	-\$210	-\$267	-469.5%
Total net farm proprietors' income	\$13,419.0	\$1,609.7	-\$13,228.4	-\$805.8	\$5,624.1	-\$514.1	-\$12,161.6	-\$16,823.0	-\$30,242.0	-225.4%
Farm proprietors' employment	580	660	749	730	680	598	625	598 #20,122	18	3.1%
Total farm labor and proprietors' income	\$23,130	\$2,439	-\$17,661	-\$1,104	\$8,271	-\$860 \$4.205.2	-\$19,459	-\$28,132	-\$51,268	-221.6%
Share of total personal income	0.2%	0.1%	-0.0%	0.0%	0.1%	0.0%	-0.0%	-0.0%	<i>407/10011</i>	1.110.70
Utah County										
Cash Receipts from Marketings	\$182.010.6	\$180.065.7	\$152 740 2	\$131 374 6	\$132 808 2	\$133 351 2	\$129 646 4	\$162 900 0	-\$19 110 6	-10.5%
Share of State	11.4%	11.0%	12.0%	11.3%	11.0%	10.3%	10.4%	12.0%	<i>415,110.0</i>	10.5 /0
Livestock, poultry, and their products	\$110,226.1	\$132,705.8	\$113,693.4	\$96,734.5	\$86,936.6	\$82,944.6	\$69,742.9	\$100,814.0	-\$9,412.1	-8.5%
Crops	\$71,784.5	\$47,359.9	\$39,046.8	\$34,640.1	\$45,871.6	\$50,406.6	\$59,903.6	\$62,086.0	-\$9,698.5	-13.5%
Other Income	\$5,886.4	\$7,483.6	\$4,717.4	\$9,482.6	\$10,299.1	\$11,564.8	\$20,934.6	\$15,820.0	\$9,933.6	168.8%
Government payments	\$805.3	\$3,425.1 \$4.058.5	\$1,024.1 \$3,693.3	\$3,280.5 \$6 196 1	\$4,691.5 \$5,607.7	\$1,458.3	\$3,957.3 ¢16.977.3	\$1,730.0 \$14.090.0	\$924.7 ¢9.008.9	114.8%
Total production expenses	\$152,939.1	\$185,142.9	\$164,295.2	\$134,611.0	\$120,198.4	\$137,583.9	\$139,011.2	\$157,616.0	\$4,676.9	3.1%
Realized net income	\$34,957.9	\$2,406.4	-\$6,837.6	\$6,246.2	\$22,908.9	\$7,332.1	\$11,569.8	\$21,104.0	-\$13,853.9	-39.6%
per farm (dollars)	\$21,781	\$1,493	-\$3,700	\$3,625	\$13,508	\$3,599	\$5,655	\$9,703	-\$12,078	-55.5%
per acre (dollars)	\$72	\$6	-\$16	\$13	\$51	\$20	\$34	\$61	-\$11	-15.7%
Farm proprietors' income	\$35,/18.7	\$39.2 1 508	-\$3,096.3 1 706	\$9,168.8 1 602	\$23,186.9 1 685	\$6,823.2 1 826	\$5,857.9 1 077	\$18,894.0 1 sd1	-\$16,824.7 349	-4/.1%
Average annual income (dollars)	\$23.924	\$25	-\$1.724	\$5.400	\$13.761	\$3.716	\$3.048	\$10.263	-\$13.661	-57.1%
Total farm labor and proprietors' income	\$50,485.8	\$20,543.9	\$15,291.9	\$21,761.5	\$41,925.9	\$29,955.5	\$32,112.6	\$45,173.0	-\$5,312.8	-10.5%
Share of total personal income	1.8%	0.6%	0.4%	0.5%	0.7%	0.4%	0.4%	0.4%		
Consists of the value of home consumption and other farm Source: Bureau of Economic Analysis: Regional Economic Inf	n-related income co	mponents, such as	machine hire and	custom work incon	ie and income fron	n iorest products (1	978 to present).			
Source, Bureau or Economic Anarysis, negional Economic III	onnution system.									



Agricultural sales in Weber and Utah counties were primarily from animals and animal products. Total livestock and poultry sales in Weber County amounted to \$20.8 million in 2007. Of this, \$14.8 million was from milk and other dairy products from cows, representing 45 percent of total sales in Weber County. The next largest reported animal category was horses, ponies, mules, and donkeys, with \$380,000 of sales, just 1 percent of sales. There were 312 farms with cattle and calf sales, 60 with poultry and egg sales, 24 with other animal sales, and 1 with aquaculture sales, but the dollar amounts were not disclosed. Nurseries, greenhouses, floriculture, and sod accounted for 14 percent of Weber's agricultural sales with \$4.5 million of goods sold. Hay and other crops represented 13 percent with \$4.1 million in sales. There were also \$1.7 million of vegetables, melons, potatoes, and sweet potatoes sold (5 percent of total sales) and \$1.4 million of grains, oilseeds, and dry beans and peas (4 percent). Utah County's largest reported categories were milk and other dairy products from cows, at \$55.7 million and 31 percent of total sales; nursery, greenhouse, floriculture, and sod, with \$37.4 million and 21

percent; and cattle and calves, with \$25.3 million and 14 percent. There was also \$13.4 million of other animals and other animal products sold and \$12.8 million of fruits, berries, and tree nuts; both categories represented about 7 percent of total sales.

Despite the decline in income from sales of farm products, other farm-related income rose between 1974 and 2007, with increases ranging from 12 percent in Salt Lake County to almost 170 percent in Utah County (Table 7, above). Other income includes government payments, the value of home consumption, and other farm-related sources such as machine hire and income from custom work. Over time these have become more significant sources of total farm-related income. In 1974, other income accounted for 3 percent or less of total farm income in the four study counties; in 2007 it represented 9 percent of total farm-related income in Davis and Utah, 14 percent in Weber, and 21 percent in Salt Lake. Of these shares, government payments are a small fraction, ranging from 0.3 percent of total farm income in Davis in 2007 to 1 percent in Utah and Weber to 2 percent in Salt Lake.

Figure 14 Sources of Sales in Utah County, 1974–2007



Source:	DEDK	calculations	Dased	on	BEA	ūd

	De	etailed C	commo	Table dity Sa	8 les by C	County.	2007					
			(Tho	usands o	f Dollars)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	We	ber Cour	nty	Da	vis Coun	ty	Salt	Lake Cou	inty	U	tah Count	y
Commodity	Farms	Sales	Share	Farms	Sales	Share	Farms	Sales	Share	Farms	Sales	Share
Total Sales	1,001	\$32,681	100%	496	\$37,246	100%	587	\$21,380	100%	2,175	\$181,729	100%
Crops	529	\$11,889	36.4%	222	\$31,280	84.0%	209	\$17,866	83.6%	1,119	\$68,795	37.9%
Grains, oilseeds, dry beans, dry peas	90	\$1,376	4.2%	34	\$1,288	3.5%	19	\$566	2.6%	196	\$6,995	3.8%
Vegetables, melons, potatoes	41	\$1,670	5.1%	53	\$3,029	8.1%	54	(D)	NA	113	(D)	NA
Fruits, berries, tree nuts	34	\$159	0.5%	43	(D)	NA	22	\$23	0.1%	221	\$12,792	7.0%
Nursery, greenhouse, floriculture, sod	24	\$4,526	13.8%	33	\$24,903	66.9%	35	\$14,669	68.6%	36	\$37,395	20.6%
Cut Christmas trees, woody crops	7	\$12	0.0%	4	(D)	NA	4	(D)	NA	5	\$2	0.0%
Hay and other crops	451	\$4,145	12.7%	137	(D)	NA	123	(D)	NA	757	(D)	NA
Livestock, Poultry, and Their Products	463	\$20,792	63.6%	226	\$5,966	16.0%	261	\$3,514	16.4%	1,151	\$112,935	62.1%
Poultry and eggs	60	(D)	NA	38	\$53	0.1%	62	\$58	0.3%	173	(D)	NA
Cattle and calves	312	(D)	NA	102	\$2,398	6.4%	100	(D)	NA	666	\$25,300	13.9%
Milk and other dairy from cows	23	\$14,776	45.2%	3	(D)	NA	9	\$39	0.2%	35	\$55,729	30.7%
Hogs and pigs	12	\$4	0.0%	6	\$6	0.0%	19	\$12	0.1%	89	\$619	0.3%
Sheep, goat, and their products	53	\$63	0.2%	40	\$61	0.2%	37	(D)	NA	211	(D)	NA
Horses, ponies, mules, donkeys	120	\$380	1.2%	76	\$2,071	5.6%	80	\$891	4.2%	296	\$1,967	1.1%
Aquaculture	1	(D)	NA	0	\$0	0.0%	0	\$0	0.0%	4	\$186	0.1%
Other animals and products	24	(D)	NA	32	(D)	NA	37	\$1,308	6.1%	108	\$13,395	7.4%

While income from agricultural sales shrank over the study period, so too did total production expenses in most counties. In Weber and Salt Lake, expenses were more than 60 percent lower in 2007 corporations. This is treated as an expense that is added back to total farm labor and proprietors' income. Unfortunately, the data do not allow the extraction of proprietors' salaries from hired

workers' wages.

Agricultural product sales

increased in Weber and Utah

counties from 2006 to 2007,

and this likely continued into

2008 due to rising commodity

prices. Higher prices probably

Davis and Salt Lake counties in

also raised cash receipts in

2008. However, in 2009 the

farmers, and preliminary data

show incomes again declining.

recession caught up with

It is evident that farm

than in 1974, and in Davis County they were about 40 percent lower (Table 7, above). These declines were led by reductions in feed and livestock purchased. In Utah County, total production expenses increased by 3 percent between 1974 and 2007, led by increased hired farm labor expenses. Despite the general decline in total expenses, there was one expense that increased in every county: seed purchased. Even in Utah and Weber counties, where crops are not the main source of



agricultural sales, expenditures on seed grew by 77 percent and 27 percent, respectively. Overall, the reductions in expenses were less than the declines in sales receipts in each of the counties.

In the four Wasatch Front counties, realized net income, net farm proprietors' income, and total farm labor and proprietors' income⁸ were all lower in 2007 than in 1974, and have been

negative in all but Utah County since at least 2002 (Table 7, above). Farm proprietors' income declined in each county from 1974 into the mid-1980s and was often negative before improving in the early 1990s. It peaked in 1992-93 and has declined steadily since, in all but Utah County. In Utah County farm proprietors' income fell between 1992 and 1995, but has been generally higher since then, though with considerable volatility. In 2007 Davis, Salt Lake, and Weber county farm proprietors endured net losses of between \$11 and \$17 million, while in Utah County

they earned net income of almost \$19 million (Figure 15). It is important to note, however, that net farm proprietors' income does not include the salaries received by the owner-operators of farm sole proprietorships, partnerships, and family-held aabababbbcbcbcbcbcc

household income came from nonfarm sources; in 2007 nonfarm

Figure 16 Farm Proprietors' Employment, 1974–2007 2,100 1,900 Farm Proprietors' Employment 1,700 1,500 Utah County Weber County 1,300 Salt Lake County 1,100 Davis County 900 700 500 978 980 982 984 986 988 990 992 994 966 998 000 002 004 000

Source: Bureau of Economic Analysis, Regional Economic Information System

proprietors' numbers grew again through about 1995 and have been fairly steady since, at roughly 1,850 and 1,050 respectively. In Salt Lake and Davis counties the number of farm proprietors was flat through the early 1990s, saw a small uptick in 1993 followed by a decline, and has hovered around 600 in each county since 1997.

Farm wages and salaries consist of the cash wages and pay-in-kind of hired laborers and the salaries received by the owner-operators of farm sole proprietorships, partnerships, and family-held corporations. In Utah and Davis counties wages and salaries grew

sources provided 90 percent of total farm household income. Obviously, in Davis, Salt Lake, and Weber counties, all of farm household income is currently from nonfarm sources, offset by farm-related income losses.

Despite the widespread decline in farm proprietors' income over the study period, in each county there were more farm proprietors⁹ in 2007 than in 1974. As Figure 16 reveals, all four counties saw significant growth in the number of proprietors between 1974 and 1983, followed by a decline through the end of the decade. In Utah and Weber counties,

^{8.} Realized net income equals cash receipts from marketings plus other income minus production expenses. Net farm proprietors' income consists of the net income that is received by the sole proprietorships and partnerships that operate farms. It excludes the income received by non-family farm corporations. Total farm labor and proprietors' income comprises the net income of sole proprietors, partners, and hired laborers arising directly from the current production of agricultural commodities. It includes net farm proprietors' income and the wages and salaries, pay-in-kind, and other labor income of hired farm laborers; but excludes the income of non-family farm corporations.

^{9.} Note that the BEA defines farm proprietors as the number of non-corporate farm operators, which covers individual and family sole proprietorships as well as partnerships.



Source: Bureau of Economic Analysis, Regional Economic Information System

by 69 percent and 63 percent, respectively, between 1974 and 2007. Total farm wages and salaries in these counties in 2007 amounted to \$23.1 million and \$9.5 million, respectively. In Weber County wages were essentially unchanged at \$5.2 million in 2007, just 3 percent below their level in 1974. Nevertheless, they have grown 64 percent since reaching a bottom in 1987. In fact, wages in Utah and Davis counties also hit troughs in 1987 and have more than doubled since then. In Salt Lake County farm wages and salaries declined until 1999 before turning around. At \$4.7 million in 2007 they were 60 percent lower than in 1974, but 23 percent higher than in 1999 (Figure 17).

Total farm labor and proprietors' income is the income of farm sole proprietorships and partnerships plus the salaries of owneroperators and the wages and salaries, pay-in-kind, and other labor income of hired farm laborers. It excludes the income of nonfamily corporate farms. While it has followed the ups and downs of farm proprietors' income, it has fared somewhat better since farm wages and salaries have been consistently positive. However, total farm income has been a small and shrinking share of total personal income in the Wasatch Front counties. In Utah County in 1974, total farm income represented just 1.8 percent of total personal income. Its share in the other counties was even smaller: 0.6 percent in Davis County, 0.5 percent in Weber, and only 0.2 percent in Salt Lake. After declining through the early 1980s, farm income's share of personal income rebounded from the mid-1980s through the early 1990s before shrinking again. As of 2007, farm income accounted for just 0.4 percent of personal income in Utah County, -0.03 percent in Salt Lake, -0.04 percent in Davis, and -0.1 percent in Weber (Figure 18).

Direct Sales and Organic Agriculture

Farmers' markets have gained in popularity in recent years as many communities turn to local growers for fresh and organically raised fruits, vegetables, and other farm products. The USDA has followed the progress of farmers' markets since 1994, when it counted 1,755 nationwide. The number has since tripled to 5,274 in 2009, with particularly rapid growth since 2002. The USDA's Agricultural Marketing Service currently lists 31 farmers' markets in Utah. Since 1978, but excluding the 1987 census, the Census of Agriculture has tracked agricultural products sold directly to individuals for human consumption by the number of farms and the value of sales. This includes farmers' markets, roadside stands, and pick-your-own sites.

In 2007, a total of 610 Wasatch Front farms had direct sales of \$4.3 million, representing 1.6 percent of the total value of agricultural products sold. More than half of this, both farms and sales, was in Utah County, where 387 farms sold \$2.8 million of produce directly to consumers. The next largest source was Davis County, where 81 farms had \$785,000 in direct sales. In Weber County 65 farms sold \$508,000 worth of produce directly, and in Salt Lake County 77 farms sold \$200,000 of produce (Exhibit 1).

Between 1978 and 2007, the number of farms with direct sales to consumers shrank in Weber (-24 percent), Davis (-11 percent), and Salt Lake (-15 percent) counties but grew in Utah County (62 percent). The total value of direct sales, in real terms, declined only in Davis and Salt Lake counties, by \$44,300 (5 percent) and \$822,000 (80 percent) respectively. Sales increased by \$47,600 (10 percent) in Weber County and by almost \$1.2 million (71 percent) in Utah County. More recently, between 2002 and 2007 in Davis, Salt Lake, and Utah counties the number of farms with direct sales grew by 27 percent, 26 percent, and 77.5 percent, respectively, but shrank by 20 percent in Weber County. Surprisingly, the value of direct sales decreased in Davis and Salt Lake counties by \$233,100 (23 percent) and \$78,100 (28 percent), respectively, and grew in Weber County by \$120,800 (31 percent). Utah County saw a \$1.7 million, 150.5 percent increase in direct sales from 2002 to 2007.

A subset of direct sales is Community Supported Agriculture. CSAs allow consumers to purchase shares of a farm's production for a lump sum paid in advance. Then, during the growing season





Source: Bureau of Economic Analysis, Regional Economic Information System

(usually 16 to 20 weeks, mid-June through mid-October in Utah), subscribers receive a weekly allotment of a variety of fresh, usually organic produce. CSAs provide a degree of income security for small farmers and fresh, seasonal, locally grown vegetables and fruits to consumers. In 2007 the Census of Agriculture counted 110 farms in Utah that sold products through Community Supported Agriculture. Utah County had the most in the state with 17 farms. In Salt Lake County six farms offered CSA programs, in Weber County there were five, and in Davis County there were four.

Products raised according to organic standards have also gained in popularity in recent years. What was once available only at health food stores can now be found on supermarket shelves. The USDA began collecting information on organic practices in the 2002 census but changed the questions it asked in the 2007 census.



County had less land dedicated to organic production than Utah County, at 4,300 acres, but sold \$847,000 worth of organic products. Cache's produce may be higher-value goods like meat and other animal products (full details were not disclosed), while Utah County's organic production is primarily crops.

Conclusion

The Wasatch Front has seen substantial population growth over the last three decades. Not surprisingly, much of this growth has come at the expense of agriculture. The total amount of farmland has decreased, farms have become smaller, farming is the primary occupation of a smaller share of farm operators, and there has been a shift from

Therefore, the data are not comparable.

In 2007, 154 farms in Utah had more than 86,000 acres under organic production, with a total of \$7.3 million of organic products sold. In Utah County 18 farms had a total of 7,722 acres used for organic production. Seventeen of those farms had total organic product sales of \$478,000. Both Salt Lake and Weber counties had 10 farms with land in organic production, 21 acres in Salt Lake and 30 acres in Weber. Nine of the farms in Salt Lake had total organic sales of \$81,000; just six of the farms in Weber had organic sales, but the amount was not disclosed. In Davis County there were six farms with a total of 14 acres that

produced \$27,000 worth of organic products (Table 9).

The main sources of organic agriculture in Utah are San Juan and Box Elder counties. San Juan had over 43,000 acres in organic production with a total of \$2.2 million in sales in 2007. Box Elder had more than 27,000 acres with almost \$3.2 million in sales. Cache

200	Tabl 7 Organio	e 9 : Produc	tion	
	Land Us Organic Pr	ed for oduction	Total Produ	Organic ct Sales
County	Farms	Acres	Farms	Amount
Weber County	10	30	6	(D)
Davis County	6	14	6	\$27,000
Salt Lake County	10	21	9	\$81,000
Utah County	18	7,722	17	\$478,000
(D) Not disclosed. Source: U.S. Department of Ag	riculture, 2007 Cens	us of Agriculture.		

growth during the study period, with the number of residents increasing by almost 200 percent, Utah County has seen the smallest relative decline in farmland, losing 28 percent between 1974 and 2007. In addition, the number of farms is up 35.5 percent, second to Weber County's 41 percent growth.

land-intensive livestock and poultry farming to crops. However,

despite the long-run declines there have been some recent gains.

Cash receipts from agricultural sales grew in three of the four

counties between 2002 and 2007, farmland increased in Weber

County from 1997 to 2007 and in Salt Lake and Utah counties

grown steadily since 1992.

from 2002 to 2007, and the number of farms in Utah County has

Agriculture on the periphery of the Salt Lake City metropolitan

area, i.e., in Weber and Utah counties, is faring better than in the

urban core. Despite experiencing the largest relative population

BEBR

Bureau of Economic and Business Research University of Utah 1645 East Campus Center Drive, Room 401 Salt Lake City, Utah 84112-9302

Address Service Requested



University of Utah Michael K. Young, President

David Eccles School of Business Taylor Randall, Dean

Bureau of Economic and Business Research James A. Wood, Director 2009 | Volume 69, Number 3

RESEARCH STAFF

Jan E. Crispin, Senior Research Economist John C. Downen, Research Analyst Diane S. Gillam, Administrative Officer Michael T. Hogue, Research Analyst Pamela S. Perlich, Senior Research Economist Steven E. Snyder, Research Assistant



http://www.bebr.utah.edu

The University seeks to provide equal access to its programs, services, and activities to people with disabilities.