

# **2014 Idaho Potato Cost of Production: 2003 - 2014 and Five-Year Trend**

**Author:** Paul Patterson

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Author:

Paul Patterson is an Extension Agricultural Economist at the Idaho Falls R & E Center, 1776 Science Center Drive, Suite 205, Idaho Falls, ID 83402-1575 (208-529-8376), [pattersn@uidaho.edu](mailto:pattersn@uidaho.edu).

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## 2014 Cost of Potato Production in Idaho: 5-Year Trend

Paul E. Patterson  
pattersn@uidaho.edu  
University of Idaho  
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The following tables summarize potato production costs in Idaho by major cost category from 2003 through 2014. The costs per acre are given in nominal dollars (not adjusted for inflation) for each cost category and also summarized for total operating, total ownership and total costs. Costs per hundredweight are also given for total operating, total ownership and total costs. The dollar cost changes and the percentage cost changes from 2009 to 2014 are shown for each cost category, as well as per acre and per hundredweight values for total operating, total ownership and total costs. The tables also show the year-over-year dollar and percentage changes for total operating, total ownership, and total costs per acre and per hundredweight. Footnotes at the bottom of the tables describe the costs included in each of the major cost categories.

5-Year cost change summaries are available for both non-storage and storage (4-1/2 months) potato budgets for three regions of southern Idaho: southwester (Treasure Valley), southcentral (Magic Valley) and eastern Idaho (Snake River Valley). The eastern Idaho region is the southern portion of this area, including Bannock, Bingham and Power counties. There are six charts in the report that show only the ownership, operating and total costs for 2009 and 2014, and the percentage change between these years.

The percentage increases in the cost per acre have exceeded the percentage increases per hundredweight most years because potato yields have increased over this time. However, the per cwt percentage increase for southwestern Idaho from 2009 to 2014 is greater than the per acre percentage change. For southcentral and southeastern Idaho, the percentage change in costs per acre were greater than the percentage change per cwt. While some cost categories increase proportionately with yield, this does not apply to all costs, however.

Reports with detailed cost of potato production estimates and annual changes in cost of production can be found on the Agricultural Economics and Rural Sociology web site

<http://web.cals.uidaho.edu/idahoagbiz/pubs/>

Scroll down to Potato Reports and Bulletins.

Cost of production estimates for all crops published on a biennial basis can be found on this web site as well, simply click on Costs of Production. Next, Select a Year, Region, Commodity and/or Format, and then Search. Typically, crop are only available for odd-numbered years.

The cost of developing and maintaining the historical cost of production summaries, included in this report, is funded in part through the *Cost of Potato Production in Idaho Project*, which is funded by the Idaho Potato Commission.

Table 1. Southwestern Idaho Fumigated Russet Burbank Potato - No Storage\*: Production costs per acre for major cost categories, annual dollar and percentage changes for total operating and total cost per acre and per hundredweight, and 5-year dollar and percentage changes from 2009 to 2014.

Item	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2009 to 2014		
													\$ Change	% Change	
Operating Inputs															
Seed	\$244	\$214	\$213	\$259	\$282	\$316	\$408	\$290	\$388	\$370	\$352	\$358	-\$50	-12%	
Fertilizer	\$198	\$228	\$279	\$300	\$351	\$639	\$572	\$461	\$647	\$662	\$619	\$541	-\$31	-5%	
Pesticides & Chemicals	\$371	\$374	\$377	\$374	\$402	\$479	\$468	\$448	\$512	\$625	\$600	\$574	\$106	23%	
Custom & Consultants	\$125	\$133	\$144	\$166	\$182	\$202	\$261	\$270	\$297	\$337	\$311	\$323	\$62	24%	
Irrigation	\$95	\$88	\$93	\$86	\$92	\$102	\$118	\$119	\$112	\$111	\$125	\$126	\$8	7%	
Machinery: F, O, L, R	\$97	\$118	\$140	\$172	\$171	\$231	\$139	\$170	\$171	\$178	\$183	\$190	\$51	37%	
Labor	\$134	\$135	\$146	\$149	\$159	\$169	\$169	\$157	\$162	\$210	\$214	\$218	\$49	29%	
Transload	\$33	\$36	\$40	\$47	\$49	\$52	\$63	\$71	\$77	\$82	\$84	\$80	\$17	27%	
Other	\$92	\$94	\$95	\$106	\$114	\$118	\$137	\$138	\$148	\$150	\$161	\$160	\$23	17%	
Operating Interest	\$35	\$39	\$52	\$72	\$79	\$83	\$76	\$68	\$92	\$90	\$85	\$86	\$10	13%	
Total Operating Costs per Acre	\$1,424	\$1,459	\$1,579	\$1,731	\$1,881	\$2,391	\$2,411	\$2,192	\$2,606	\$2,815	\$2,734	\$2,656	\$245	10%	
\$ Change from Previous Year		\$35	\$120	\$152	\$150	\$510	\$20	-\$219	\$414	\$209	-\$81	-\$78			
% Change from Previous Year		2.5%	8.2%	9.6%	8.7%	27.1%	0.8%	-9.1%	18.9%	8.0%	-2.9%	-2.9%			
Operating Cost per Cwt	\$2.91	\$3.04	\$3.19	\$3.46	\$3.76	\$4.73	\$4.55	\$4.26	\$4.92	\$5.31	\$5.16	\$5.06	\$0.51	11%	
\$ Change from Previous Year	\$0.01	\$0.13	\$0.15	\$0.27	\$0.30	\$0.97	-\$0.19	-\$0.29	\$0.66	\$0.39	-\$0.15	-\$0.10			
% Change from Previous Year		4.6%	4.9%	8.5%	8.7%	25.9%	-3.9%	-6.4%	15.5%	8.0%	-2.9%	-1.9%			
Ownership Costs:															
Transloading Equip. Ownership *	\$41	\$41	\$41	\$41	\$44	\$48	\$52	\$54	\$76	\$80	\$81	\$83	\$31	60%	
Field Equipment Ownership	\$192	\$217	\$233	\$240	\$253	\$266	\$281	\$242	\$224	\$190	\$199	\$204	-\$77	-27%	
Land	\$400	\$425	\$425	\$435	\$525	\$600	\$650	\$650	\$700	\$700	\$700	\$700	\$50	8%	
Overhead	\$33	\$36	\$39	\$43	\$46	\$60	\$60	\$56	\$65	\$70	\$68	\$66	\$6	10%	
Management Fee	\$112	\$115	\$119	\$123	\$130	\$145	\$165	\$170	\$180	\$192	\$189	\$185	\$20	12%	
Total Ownership Costs per Acre	\$778	\$834	\$857	\$882	\$998	\$1,119	\$1,208	\$1,172	\$1,245	\$1,232	\$1,237	\$1,238	\$30	2%	
Ownership Cost per Cwt	\$1.59	\$1.74	\$1.73	\$1.76	\$2.00	\$2.22	\$2.28	\$2.28	\$2.35	\$2.32	\$2.33	\$2.36	\$0.08	3%	
Total Costs per Acre	\$2,202	\$2,293	\$2,436	\$2,613	\$2,879	\$3,510	\$3,619	\$3,364	\$3,851	\$4,047	\$3,971	\$3,894	\$275	8%	
\$ Change from Previous Year		\$91	\$143	\$177	\$266	\$631	\$109	-\$255	\$487	\$196	-\$76	-\$77			
% Change from Previous Year		4.1%	6.2%	7.3%	10.2%	21.9%	3.1%	-7.0%	14.5%	5.1%	-1.9%	-1.9%			
Total Cost per Cwt	\$4.49	\$4.78	\$4.92	\$5.23	\$5.76	\$6.95	\$6.83	\$6.53	\$7.27	\$7.64	\$7.49	\$7.42	\$0.59	9%	
\$ Change from Previous Year		\$0.28	\$0.14	\$0.30	\$0.53	\$1.19	-\$0.12	-\$0.30	\$0.73	\$0.37	-\$0.14	-\$0.08			
% Change from Previous Year		6.3%	3.0%	6.2%	10.2%	20.7%	-1.8%	-4.3%	11.2%	5.1%	-1.9%	-1.0%			
Yield (cwt per acre)	490	480	495	500	500	505	530	515	530	530	530	525	-5	-1%	
Published Yields - if different	(480)	(495)	(500)		(505)										

\*The non-storage cost of production estimates include transloading and cost to haul potatoes to a packer, processor or processor storage.

Seed includes the cost of seed, hauling costs and the cost to cut seed. Seed treatment is included in Pesticides & Chemicals.

Chemicals & pesticides include: herbicides, insecticides, fungicides and vine desiccants, including sulfuric acid (when used).

Irrigation includes water assessment, irrigation system repair costs and power cost.

Machinery costs include fuel, oil, lube and repairs.

Labor includes labor to operate machinery, truck drivers, general farm labor and irrigation labor.

Transloading costs are mostly labor, but also includes power and repairs on equipment used to transload potatoes.

Other costs include crop insurance and assessment fees to grower organizations and the Idaho Potato Commission.

Overhead is a calculated value at ~2.5 percent of operating costs to account for office expenses, legal and accounting fees and utilities.

Management is a calculated value at ~5 percent of expected revenue.

Note: earlier CAR estimates were revised for procedural consistency, so the costs may not always match the original published values.

Table 2. Southcentral Idaho Russet Burbank Potato - No Storage\*: Production costs per acre for major cost categories, annual dollar and percentage changes for total operating and total cost per acre and per hundredweight, and 5-year dollar and percentage changes from 2009 to 2014.

Item	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2009 to 2014	
													\$ Change	% Change
Operating Inputs														
Seed	\$228	\$204	\$202	\$247	\$269	\$293	\$374	\$261	\$360	\$343	\$325	\$331	-\$43	-11%
Fertilizer	\$205	\$213	\$257	\$276	\$330	\$578	\$467	\$369	\$511	\$510	\$477	\$426	-\$41	-9%
Chemicals/Pesticides	\$156	\$163	\$165	\$156	\$166	\$200	\$231	\$218	\$248	\$287	\$292	\$275	\$44	19%
Custom & Consultants	\$125	\$130	\$144	\$168	\$175	\$194	\$184	\$194	\$223	\$234	\$232	\$253	\$69	38%
Irrigation	\$78	\$75	\$82	\$78	\$86	\$93	\$98	\$101	\$95	\$99	\$110	\$109	\$11	11%
Machinery: F, O, L, R	\$86	\$98	\$110	\$137	\$125	\$167	\$124	\$147	\$168	\$150	\$154	\$154	\$30	24%
Labor	\$117	\$119	\$126	\$130	\$140	\$148	\$141	\$137	\$146	\$165	\$168	\$171	\$30	21%
Transload	\$25	\$27	\$33	\$36	\$39	\$41	\$48	\$57	\$61	\$64	\$62	\$64	\$16	33%
Other	\$85	\$86	\$85	\$93	\$100	\$106	\$122	\$122	\$129	\$125	\$135	\$137	\$15	12%
Operating Interest	\$24	\$26	\$35	\$50	\$54	\$57	\$52	\$46	\$65	\$57	\$55	\$56	\$4	8%
Total Operating Costs per Acre	\$1,129	\$1,141	\$1,239	\$1,371	\$1,484	\$1,877	\$1,841	\$1,652	\$2,006	\$2,034	\$2,010	\$1,976	\$135	7%
\$ Change from Previous Year		\$12	\$98	\$132	\$113	\$393	-\$36	-\$189	\$354	\$28	-\$24	-\$34		
% Change from Previous Year		1.1%	8.6%	10.7%	8.2%	26.5%	-1.9%	-10.3%	21.4%	1.4%	-1.2%	-1.7%		
Operating Cost per Cwt	\$2.93	\$3.04	\$3.26	\$3.61	\$3.71	\$4.69	\$4.49	\$3.98	\$4.78	\$4.90	\$4.90	\$4.70	\$0.21	5%
\$ Change from Previous Year		\$0.11	\$0.22	\$0.35	\$0.10	\$0.98	-\$0.20	-\$0.51	\$0.80	\$0.13	\$0.00	-\$0.20		
% Change from Previous Year		3.8%	7.2%	10.7%	2.8%	26.5%	-4.3%	-11.3%	20.0%	2.6%	0.0%	-4.0%		
Ownership Costs:														
Transloading Equip. Ownership *	\$32	\$32	\$32	\$32	\$34	\$38	\$40	\$41	\$59	\$62	\$64	\$64	\$24	60%
Field Equipment Ownership	\$112	\$138	\$147	\$167	\$177	\$192	\$202	\$183	\$182	\$172	\$177	\$180	-\$22	-11%
Land	\$310	\$350	\$350	\$375	\$450	\$525	\$575	\$575	\$600	\$600	\$600	\$600	\$25	4%
Overhead	\$27	\$28	\$31	\$34	\$37	\$47	\$48	\$41	\$49	\$51	\$50	\$49	\$1	2%
Management Fee	\$88	\$93	\$90	\$93	\$100	\$115	\$140	\$145	\$140	\$145	\$145	\$143	\$3	2%
Total Ownership Costs per Acre	\$569	\$641	\$650	\$701	\$798	\$917	\$1,005	\$985	\$1,030	\$1,030	\$1,036	\$1,036	\$31	3%
Ownership Cost per Cwt	\$1.48	\$1.71	\$1.71	\$1.84	\$2.00	\$2.29	\$2.45	\$2.37	\$2.45	\$2.48	\$2.53	\$2.47	\$0.02	1%
Total Costs per Acre	\$1,698	\$1,782	\$1,889	\$2,072	\$2,282	\$2,794	\$2,846	\$2,637	\$3,036	\$3,064	\$3,046	\$3,012	\$166	6%
\$ Change from Previous Year		\$84	\$107	\$183	\$210	\$512	\$52	-\$209	\$399	\$28	-\$18	-\$34		
% Change from Previous Year		4.9%	6.0%	9.7%	10.1%	22.4%	1.9%	-7.3%	15.1%	0.9%	-0.6%	-1.1%		
Total Cost per Cwt	\$4.41	\$4.75	\$4.97	\$5.45	\$5.71	\$6.99	\$6.94	\$6.35	\$7.23	\$7.38	\$7.43	\$7.17	\$0.23	3%
\$ Change from Previous Year		\$0.34	\$0.22	\$0.48	\$0.25	\$1.28	-\$0.04	-\$0.59	\$0.87	\$0.15	\$0.05	-\$0.26		
% Change from Previous Year		7.7%	4.6%	9.7%	4.6%	22.4%	-0.6%	-8.5%	13.8%	2.1%	0.6%	-3.5%		
Yield (cwt per acre)	385	375	380	380	400	400	410	415	420	415	410	420	10	2%
Published Yields - if different	(380)	(385)		(390)										

\*The non-storage cost of production estimates include transloading and cost to haul potatoes to a packer, processor or processor storage.

Seed includes the cost of seed, hauling cost and the cost to cut seed. Seed treatment is included in Pesticides & Chemicals.

Chemicals & pesticides include: herbicides, insecticides, fungicides and vine desiccants, including sulfuric acid (when used).

Irrigation includes water assessment, irrigation system repair costs and power cost.

Machinery costs include fuel, oil, lube and repairs.

Labor includes labor to operate machinery, truck drivers, general farm labor and irrigation labor.

Transloading costs are mostly labor, but also includes power and repairs on equipment used to transload potatoes.

Other costs include crop insurance and assessment fees to grower organizations and the Idaho Potato Commission.

Overhead is a calculated value at ~2.5 percent of operating costs to account for office expenses, legal and accounting fees and utilities.

Management is a calculated value at ~5 percent of expected revenue.

Note: earlier CAR estimates were revised for procedural consistency, so the costs may not always match the original published values.

Table 3. Eastern Idaho Southern Counties Russet Burbank Potato - No Storage: Production costs per acre for major cost categories, annual dollar and percentage change for total operating and total cost per acre and per hundredweight, and 5-year dollar and percentage changes from 2009 to 2014.

Item	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2008 to 2013		
													\$ Change	% Change	
Operating Inputs															
Seed	\$193	\$170	\$168	\$209	\$227	\$252	\$330	\$227	\$317	\$301	\$286	\$291	-\$39	-12%	
Fertilizer	\$185	\$196	\$234	\$245	\$307	\$540	\$421	\$338	\$465	\$480	\$450	\$395	-\$26	-6%	
Chemicals/Pesticides	\$108	\$106	\$114	\$110	\$102	\$123	\$173	\$163	\$184	\$226	\$230	\$245	\$72	42%	
Custom & Consultants	\$84	\$96	\$107	\$122	\$133	\$146	\$150	\$162	\$187	\$188	\$188	\$203	\$53	35%	
Irrigation	\$65	\$67	\$66	\$61	\$64	\$70	\$74	\$73	\$74	\$79	\$92	\$92	\$18	24%	
Machinery: F, O, L, R	\$88	\$101	\$122	\$152	\$149	\$198	\$123	\$143	\$153	\$155	\$158	\$158	\$35	28%	
Labor	\$114	\$115	\$123	\$127	\$126	\$133	\$139	\$130	\$134	\$152	\$155	\$157	\$18	13%	
Transload	\$21	\$23	\$30	\$33	\$33	\$36	\$41	\$50	\$53	\$58	\$59	\$58	\$17	41%	
Other	\$72	\$72	\$74	\$81	\$88	\$92	\$106	\$108	\$120	\$136	\$144	\$145	\$39	37%	
Operating Interest	\$19	\$21	\$29	\$41	\$45	\$49	\$44	\$38	\$55	\$51	\$48	\$49	\$5	11%	
Total Operating Costs per Acre	\$949	\$967	\$1,067	\$1,181	\$1,274	\$1,639	\$1,601	\$1,432	\$1,742	\$1,826	\$1,810	\$1,793	\$192	12%	
\$ Change from Previous Year		\$18	\$100	\$114	\$93	\$365	-\$38	-\$169	\$310	\$84	-\$16	-\$17			
% Change from Previous Year		1.9%	10.3%	10.7%	7.9%	28.6%	-2.3%	-10.6%	21.6%	4.8%	-0.9%	-0.9%			
Operating Cost per Cwt	\$2.92	\$3.07	\$3.23	\$3.47	\$3.64	\$4.75	\$4.57	\$3.92	\$4.77	\$4.87	\$4.83	\$4.72	\$0.14	3%	
\$ Change from Previous Year		\$0.15	\$0.16	\$0.24	\$0.17	\$1.11	-\$0.18	-\$0.65	\$0.85	\$0.10	-\$0.04	-\$0.11			
% Change from Previous Year		5.1%	5.3%	7.4%	4.8%	30.5%	-3.7%	-14.2%	21.6%	2.0%	-0.9%	-2.2%			
Ownership Costs:															
Transloading Equip. Ownership *	\$29	\$29	\$29	\$29	\$30	\$33	\$34	\$35	\$52	\$54	\$57	\$59	\$25	74%	
Field Equipment Ownership	\$134	\$152	\$159	\$180	\$191	\$201	\$211	\$186	\$178	\$157	\$169	\$172	-\$39	-18%	
Land	\$260	\$270	\$260	\$270	\$325	\$375	\$425	\$425	\$445	\$500	\$500	\$515	\$90	21%	
Overhead	\$22	\$24	\$27	\$29	\$32	\$41	\$40	\$36	\$43	\$46	\$45	\$45	\$5	13%	
Management Fee	\$74	\$76	\$81	\$84	\$90	\$100	\$120	\$115	\$125	\$130	\$129	\$129	\$9	8%	
Total Ownership Costs per Acre	\$519	\$551	\$556	\$592	\$668	\$750	\$830	\$797	\$843	\$887	\$900	\$920	\$90	11%	
Ownership Cost per Cwt	\$1.60	\$1.75	\$1.68	\$1.74	\$1.91	\$2.17	\$2.37	\$2.18	\$2.31	\$2.37	\$2.40	\$2.42	\$0.05	2%	
Total Costs per Acre	\$1,468	\$1,518	\$1,623	\$1,773	\$1,942	\$2,389	\$2,431	\$2,229	\$2,585	\$2,713	\$2,710	\$2,713	\$282	12%	
\$ Change from Previous Year		\$50	\$105	\$150	\$169	\$447	\$42	-\$202	\$356	\$128	-\$3	\$3			
% Change from Previous Year		3.4%	6.9%	9.2%	9.5%	23.0%	1.8%	-8.3%	16.0%	5.0%	-0.1%	0.1%			
Total Cost per Cwt	\$4.52	\$4.82	\$4.92	\$5.21	\$5.55	\$6.92	\$6.95	\$6.11	\$7.08	\$7.23	\$7.23	\$7.14	\$0.19	3%	
\$ Change from Previous Year		\$0.30	\$0.10	\$0.30	\$0.33	\$1.38	\$0.02	-\$0.84	\$0.98	\$0.15	-\$0.01	-\$0.09			
% Change from Previous Year		6.7%	2.1%	6.0%	6.4%	24.8%	0.3%	-12.1%	16.0%	2.2%	-0.1%	-1.2%			
Yield (cwt per acre)	325	315	330	340	350	345	350	365	365	375	375	380	30	9%	
Published Yield - if different	(320)	(325)	(340)	(350)	(345)										

\*The non-storage cost of production estimates include transloading and cost to haul potatoes to a packer, processor or processor storage.

Seed includes the cost of seed, hauling cost and the cost to cut seed. Seed treatment is included in Pesticides & Chemicals

Chemicals & pesticides include: herbicides, insecticides, fungicides and vine desiccants, including sulfuric acid (when used).

Irrigation includes water assessment, irrigation system repair costs and power cost.

Machinery costs include fuel, oil, lube and repairs.

Labor includes labor to operate machinery, truck drivers, general farm labor and irrigation labor.

Transloading costs are mostly labor, but also includes power and repairs on equipment used to transload potatoes.

Other costs include crop insurance and assessment fees to grower organizations and the Idaho Potato Commission.

Overhead is a calculated value at ~2.5 percent of operating costs to account for office expenses, legal and accounting fees and utilities.

Management is a calculated value at ~5 percent of expected revenue.

Note: earlier CAR estimates were revised for procedural consistency, so the costs may not always match the original published values.

\* Transloading potatoes was added to the 2001 costs for consistency. They were not originally included.

Table 4. Southwestern Idaho Fumigated Russet Burbank Potato with 4-1/2 Months of Storage: Production costs per acre for major cost categories, annual dollar and percentage changes for total operating and total costs per acre and per hundredweight, and 5-year dollar and percentage changes from 2009 to 2014.

Item									2009 to 2014	
	2007	2008	2009	2010	2011	2012	2013	2014	\$ Change	% Change
<b><u>Operating Inputs</u></b>										
Seed	\$282	\$316	\$408	\$290	\$388	\$370	\$352	\$358	-\$50	-12%
Fertilizer	\$351	\$639	\$573	\$461	\$647	\$662	\$619	\$541	-\$32	-6%
Chemicals/Pesticides	\$402	\$479	\$468	\$448	\$512	\$625	\$600	\$574	\$106	23%
Custom & Consultants	\$66	\$71	\$113	\$109	\$106	\$123	\$126	\$124	\$11	10%
Irrigation	\$92	\$102	\$118	\$119	\$112	\$111	\$125	\$126	\$8	7%
Machinery: F, O, L, R	\$171	\$239	\$139	\$163	\$171	\$178	\$189	\$190	\$51	37%
Labor	\$159	\$169	\$169	\$157	\$162	\$210	\$214	\$218	\$49	29%
Storage	\$342	\$356	\$436	\$407	\$458	\$455	\$448	\$439	\$3	1%
Other	\$110	\$114	\$133	\$133	\$144	\$146	\$161	\$160	\$27	20%
Operating Interest	\$79	\$82	\$74	\$70	\$94	\$92	\$85	\$86	\$12	16%
<b><u>Total Operating Costs per Acre</u></b>	\$2,054	\$2,567	\$2,631	\$2,357	\$2,794	\$2,972	\$2,919	\$2,816	\$185	7%
<b>\$ Change from Previous Year</b>		\$513	\$64	-\$274	\$437	\$178	-\$53	-\$103		
<b>% Change from Previous Year</b>		25.0%	2.5%	-10.4%	18.5%	6.4%	-1.8%	-3.5%		
<b><u>Operating Cost per Cwt</u></b>	\$4.11	\$5.08	\$4.96	\$4.58	\$5.27	\$5.61	\$5.51	\$5.36	\$0.40	8%
<b>\$ Change from Previous Year</b>		\$0.98	-\$0.12	-\$0.39	\$0.69	\$0.34	-\$0.10	-\$0.14		
<b>% Change from Previous Year</b>		23.7%	-2.3%	-7.8%	15.2%	6.4%	-1.8%	-2.6%		
<b><u>Ownership Costs:</u></b>										
Storage System Ownership *	\$195	\$207	\$233	\$236	\$249	\$252	\$270	\$270	\$37	16%
Field Equipment Ownership	\$253	\$266	\$281	\$242	\$218	\$190	\$199	\$204	-\$77	-27%
Land	\$525	\$600	\$650	\$650	\$700	\$700	\$700	\$700	\$50	8%
Overhead	\$51	\$62	\$65	\$60	\$70	\$74	\$64	\$62	-\$3	-5%
Management Fee	\$140	\$155	\$175	\$180	\$200	\$209	\$180	\$175	\$0	0%
Total Ownership Costs per Acre	\$1,164	\$1,290	\$1,404	\$1,368	\$1,437	\$1,425	\$1,413	\$1,411	\$7	0.5%
Ownership Cost per Cwt	\$2.33	\$2.55	\$2.65	\$2.66	\$2.71	\$2.69	\$2.67	\$2.69	\$0.04	1%
<b><u>Total Costs per Acre</u></b>	\$3,218	\$3,857	\$4,035	\$3,725	\$4,231	\$4,397	\$4,332	\$4,227	\$192	5%
<b>\$ Change from Previous Year</b>		\$639	\$178	-\$310	\$506	\$166	-\$65	-\$105		
<b>% Change from Previous Year</b>		19.9%	4.6%	-7.7%	13.6%	3.9%	-1.5%	-2.4%		
<b><u>Total Cost per Cwt</u></b>	\$6.44	\$7.64	\$7.61	\$7.23	\$7.98	\$8.30	\$8.17	\$8.05	\$0.44	6%
<b>\$ Change from Previous Year</b>		\$1.20	-\$0.02	-\$0.38	\$0.75	\$0.31	-\$0.12	-\$0.12		
<b>% Change from Previous Year</b>		18.7%	-0.3%	-5.0%	10.4%	3.9%	-1.5%	-1.5%		
Yield (cwt per acre)	500	505	530	515	530	530	530	525	-5	-1%
Published Yield - if different	505									

Note: This enterprise budget did not exist prior to 2007.

Seed includes the cost of seed, hauling costs and the cost to cut seed. Seed treatment is included in Pesticides & Chemicals.

Chemicals & pesticides include: herbicides, insecticides, fungicides and vine desiccants, including sulfuric acid (when used).

Irrigation includes water assessment, irrigation system repair costs and power cost.

Machinery costs include fuel, oil, lube and repairs.

Labor includes labor to operate machinery, truck drivers, general farm labor and irrigation labor.

Storage operating costs include: labor, power, sprout inhibitor, insurance, shrink and interest.

Other costs include crop insurance and assessment fees to grower organizations and the Idaho Potato Commission.

Overhead is a calculated value at ~2.5 percent of operating costs to account for office expenses, legal and accounting fees and utilities.

Management is a calculated value at ~5 percent of expected revenue.

Note: earlier CAR estimates were revised for procedural consistency, so the costs may not always match the original published values.

\* Storage system includes the storage facility, air system and the equipment used to place potatoes in storage.

Table 5. Southcentral Idaho Russet Burbank Potato with 4-1/2 Months of Storage: Production costs per acre for major cost categories, annual dollar and percentage change for total operating and total costs per acre and per hundredweight, and 5-year dollar and percentage changes from 2009 to 2014.

Item	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2009 to 2014	
													\$ Change	% Change
Operating Inputs														
Seed	\$228	\$204	\$202	\$247	\$269	\$293	\$374	\$261	\$360	\$343	\$325	\$331	-\$43	-11%
Fertilizer	\$205	\$213	\$257	\$276	\$330	\$578	\$467	\$369	\$511	\$510	\$477	\$426	-\$41	-9%
Chemicals/Pesticides	\$156	\$163	\$165	\$156	\$166	\$200	\$231	\$218	\$248	\$287	\$295	\$275	\$44	19%
Custom & Consultants	\$60	\$61	\$68	\$78	\$83	\$90	\$69	\$70	\$76	\$89	\$89	\$94	\$25	36%
Irrigation	\$78	\$75	\$82	\$78	\$86	\$93	\$98	\$101	\$95	\$99	\$110	\$109	\$11	11%
Machinery: F, O, L, R	\$86	\$98	\$111	\$139	\$125	\$167	\$124	\$147	\$168	\$150	\$154	\$154	\$30	24%
Labor	\$117	\$119	\$126	\$129	\$140	\$148	\$142	\$137	\$146	\$165	\$168	\$171	\$29	20%
Storage	\$204	\$186	\$208	\$252	\$271	\$282	\$336	\$327	\$363	\$356	\$346	\$344	\$8	2%
Other	\$83	\$84	\$83	\$90	\$97	\$103	\$118	\$119	\$126	\$127	\$135	\$137	\$19	16%
Operating Interest	\$22	\$24	\$33	\$46	\$51	\$54	\$53	\$46	\$66	\$57	\$55	\$56	\$3	6%
Total Operating Costs per Acre	\$1,239	\$1,227	\$1,335	\$1,491	\$1,618	\$2,008	\$2,012	\$1,795	\$2,159	\$2,183	\$2,154	\$2,097	\$85	4%
\$ Change from Previous Year		-\$12	\$108	\$156	\$127	\$390	\$4	-\$217	\$364	\$24	-\$29	-\$57		
% Change from Previous Year		-1.0%	8.8%	11.7%	8.5%	24.1%	0.2%	-10.8%	20.3%	1.1%	-1.3%	-2.6%		
Operating Cost per Cwt	\$3.22	\$3.27	\$3.51	\$3.92	\$4.05	\$5.02	\$4.91	\$4.33	\$5.14	\$5.26	\$5.25	\$4.99	\$0.09	2%
\$ Change from Previous Year		\$0.05	\$0.24	\$0.41	\$0.12	\$0.98	-\$0.11	-\$0.58	\$0.82	\$0.12	-\$0.01	-\$0.26		
% Change from Previous Year		1.7%	7.4%	11.7%	3.1%	24.1%	-2.2%	-11.9%	18.8%	2.3%	-0.1%	-5.0%		
Ownership Costs:														
Storage System Ownership *	\$120	\$127	\$145	\$144	\$155	\$166	\$176	\$183	\$196	\$198	\$209	\$215	\$39	22%
Field Equipment Ownership	\$112	\$136	\$142	\$161	\$173	\$191	\$203	\$183	\$182	\$173	\$177	\$180	-\$23	-11%
Land	\$310	\$350	\$350	\$375	\$450	\$525	\$575	\$575	\$600	\$600	\$600	\$600	\$25	4%
Overhead	\$31	\$31	\$33	\$36	\$40	\$48	\$52	\$45	\$54	\$55	\$47	\$45	-\$7	-13%
Management Fee	\$85	\$93	\$93	\$98	\$110	\$125	\$140	\$155	\$160	\$160	\$138	\$135	-\$5	-4%
Total Ownership Costs per Acre	\$658	\$737	\$763	\$814	\$928	\$1,055	\$1,146	\$1,141	\$1,192	\$1,186	\$1,171	\$1,175	\$29	3%
Ownership Cost per Cwt	\$1.71	\$1.97	\$2.01	\$2.14	\$2.32	\$2.64	\$2.80	\$2.75	\$2.84	\$2.86	\$2.86	\$2.80	\$0.00	0%
Total Costs per Acre	\$1,897	\$1,964	\$2,098	\$2,305	\$2,546	\$3,063	\$3,158	\$2,936	\$3,351	\$3,369	\$3,325	\$3,272	\$114	4%
\$ Change from Previous Year		\$67	\$134	\$207	\$241	\$517	\$95	-\$222	\$415	\$18	-\$44	-\$53		
% Change from Previous Year		3.5%	6.8%	9.9%	10.5%	20.3%	3.1%	-7.0%	14.1%	0.5%	-1.3%	-1.6%		
Total Cost per Cwt	\$4.93	\$5.24	\$5.52	\$6.07	\$6.37	\$7.66	\$7.70	\$7.07	\$7.98	\$8.12	\$8.11	\$7.79	\$0.09	1%
\$ Change from Previous Year		\$0.31	\$0.28	\$0.54	\$0.30	\$1.29	\$0.04	-\$0.63	\$0.90	\$0.14	-\$0.01	-\$0.32		
% Change from Previous Year		6.3%	5.4%	9.9%	4.9%	20.3%	0.6%	-8.1%	12.8%	1.7%	-0.1%	-3.9%		
Yield (cwt per acre)	385	375	380	380	400	400	410	415	420	415	410	420	10	2%
Published Yield - if different	(380)	(385)		(390)										

Seed includes the cost of seed, hauling cost and the cost to cut seed. Seed treatment is included in Pesticides & Chemicals.

Chemicals & pesticides include: herbicides, insecticides, fungicides and vine desiccants, including sulfuric acid (when used).

Irrigation includes water assessment, irrigation system repair costs and power cost.

Machinery costs include fuel, oil, lube and repairs.

Labor includes labor to operate machinery, truck drivers, general farm labor and irrigation labor.

Storage operating costs include: labor, power, sprout inhibitor, insurance, shrink and interest.

Other costs include crop insurance and assessment fees to grower organizations and the Idaho Potato Commission.

Overhead is a calculated value at ~2.5 percent of operating costs to account for office expenses, legal and accounting fees and utilities.

Management is a calculated value at ~5 percent of expected revenue.

Note: earlier CAR estimates were revised for procedural consistency, so the costs may not always match the original published values.

\* Storage system includes the storage facility, air system and equipment used to place potatoes in storage.



Table 6. Eastern Idaho Southern Counties Russet Burbank Potato - With 4/12 Months of Storage: Production costs per acre for major cost categories, annual dollar and percentage changes for total operating and total costs per acre and per hundredweight, and 5-year dollar and percentage change from 2009 to 2014.

Item	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2009 to 2014		
													\$ Change	% Change	
<b>Operating Inputs</b>															
Seed	\$193	\$170	\$168	\$209	\$227	\$252	\$330	\$227	\$317	\$301	\$286	\$291	-\$39	-12%	
Fertilizer	\$185	\$196	\$234	\$245	\$307	\$540	\$421	\$338	\$465	\$480	\$450	\$395	-\$26	-6%	
Chemicals/Pesticides	\$108	\$106	\$114	\$110	\$102	\$123	\$173	\$163	\$184	\$226	\$230	\$245	\$72	42%	
Custom & Consultants	\$36	\$44	\$46	\$48	\$53	\$50	\$52	\$52	\$59	\$57	\$57	\$59	\$7	13%	
Irrigation	\$64	\$67	\$66	\$61	\$64	\$70	\$74	\$73	\$74	\$79	\$92	\$92	\$18	24%	
Machinery: F, O, L, R	\$88	\$101	\$122	\$152	\$147	\$194	\$122	\$142	\$153	\$155	\$158	\$158	\$36	30%	
Labor	\$115	\$116	\$125	\$128	\$126	\$133	\$139	\$130	\$134	\$152	\$155	\$157	\$18	13%	
Storage	\$172	\$168	\$185	\$226	\$234	\$243	\$288	\$287	\$315	\$322	\$310	\$311	\$23	8%	
Other	\$70	\$70	\$72	\$79	\$85	\$89	\$103	\$106	\$117	\$134	\$144	\$145	\$42	41%	
Operating Interest	\$19	\$21	\$29	\$39	\$44	\$47	\$43	\$37	\$55	\$51	\$48	\$49	\$6	14%	
<b>Total Operating Costs per Acre</b>	\$1,050	\$1,059	\$1,161	\$1,297	\$1,389	\$1,741	\$1,745	\$1,555	\$1,873	\$1,957	\$1,930	\$1,902	\$157	9%	
<b>\$ Change from Previous Year</b>		\$9	\$102	\$136	\$92	\$352	\$4	-\$190	\$318	\$84	-\$27	-\$28			
<b>% Change from Previous Year</b>		0.9%	9.6%	11.7%	7.1%	25.3%	0.2%	-10.9%	20.5%	4.5%	-1.4%	-1.5%			
<b>Operating Cost per Cwt</b>	\$3.23	\$3.36	\$3.52	\$3.81	\$3.97	\$5.05	\$4.99	\$4.26	\$5.13	\$5.22	\$5.15	\$5.01	\$0.02	0.4%	
<b>\$ Change from Previous Year</b>		\$0.13	\$0.16	\$0.30	\$0.15	\$1.08	-\$0.06	-\$0.73	\$0.87	\$0.09	-\$0.07	-\$0.14			
<b>% Change from Previous Year</b>		4.1%	4.6%	8.4%	4.0%	27.2%	-1.2%	-14.6%	20.5%	1.7%	-1.4%	-2.7%			
<b>Ownership Costs:</b>															
Storage System Ownership *	\$97	\$104	\$122	\$129	\$138	\$145	\$154	\$156	\$171	\$178	\$191	\$195	\$41	27%	
Field Equipment Ownership	\$135	\$152	\$158	\$179	\$185	\$201	\$211	\$186	\$178	\$157	\$169	\$172	-\$39	-18%	
Land	\$260	\$270	\$260	\$270	\$325	\$375	\$425	\$425	\$445	\$500	\$500	\$515	\$90	21%	
Overhead	\$26	\$26	\$29	\$31	\$35	\$44	\$45	\$40	\$47	\$50	\$48	\$41	-\$4	-9%	
Management Fee	\$78	\$79	\$83	\$88	\$100	\$100	\$125	\$132	\$136	\$142	\$142	\$122	-\$3	-2%	
Total Ownership Costs per Acre	\$596	\$631	\$652	\$697	\$783	\$865	\$960	\$939	\$977	\$1,027	\$1,050	\$1,045	\$85	9%	
Ownership Cost per Cwt	\$1.83	\$2.00	\$1.98	\$2.05	\$2.24	\$2.51	\$2.74	\$2.57	\$2.68	\$2.74	\$2.80	\$2.75	\$0.01	0.3%	
<b>Total Costs per Acre</b>	\$1,646	\$1,690	\$1,813	\$1,994	\$2,172	\$2,606	\$2,705	\$2,494	\$2,850	\$2,984	\$2,980	\$2,947	\$242	9%	
<b>\$ Change from Previous Year</b>		\$44	\$123	\$181	\$178	\$434	\$99	-\$211	\$356	\$134	-\$4	-\$33			
<b>% Change from Previous Year</b>		2.7%	7.3%	10.0%	8.9%	20.0%	3.8%	-7.8%	14.3%	4.7%	-0.1%	-1.1%			
<b>Total Cost per Cwt</b>	\$5.06	\$5.37	\$5.49	\$5.86	\$6.21	\$7.55	\$7.73	\$6.83	\$7.81	\$7.96	\$7.95	\$7.76	\$0.03	0.3%	
<b>\$ Change from Previous Year</b>		\$0.30	\$0.13	\$0.37	\$0.34	\$1.35	\$0.17	-\$0.90	\$0.98	\$0.15	-\$0.01	-\$0.19			
<b>% Change from Previous Year</b>		5.9%	2.4%	6.7%	5.8%	21.7%	2.3%	-11.6%	14.3%	1.9%	-0.1%	-2.4%			
Yield (cwt per acre)	325	315	330	340	350	345	350	365	365	375	375	380	30	9%	
Published Yield - if different	(320)	(325)	(340)	(350)	(345)										

Seed includes the cost of seed, hauling cost and the cost to cut seed. Seed treatment is included in Pesticides & Chemicals

Chemicals & pesticides include: herbicides, insecticides, fungicides and vine desiccants, including sulfuric acid (when used).

Irrigation includes water assessment, irrigation system repair costs and power cost.

Machinery costs include fuel, oil, lube and repairs.

Labor includes labor to operate machinery, truck drivers, general farm labor and irrigation labor.

Storage operating costs include: labor, power, sprout inhibitor, insurance, shrink and interest.

Other costs include crop insurance and assessment fees to grower organizations and the Idaho Potato Commission.

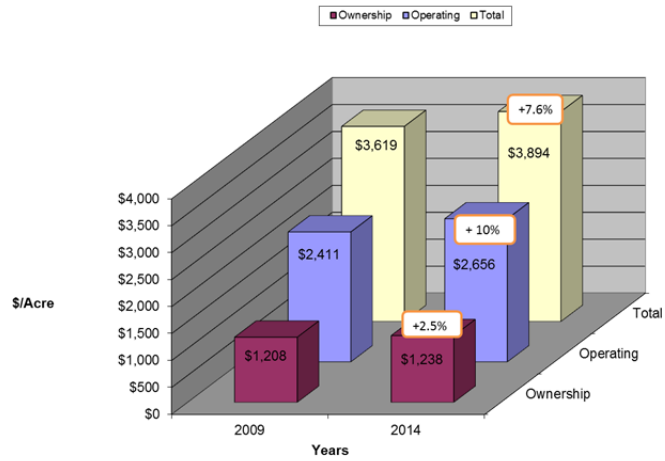
Overhead is a calculated value at ~2.5 percent of operating costs to account for office expenses, legal and accounting fees and utilities.

Management is a calculated value at ~5 percent of expected revenue.

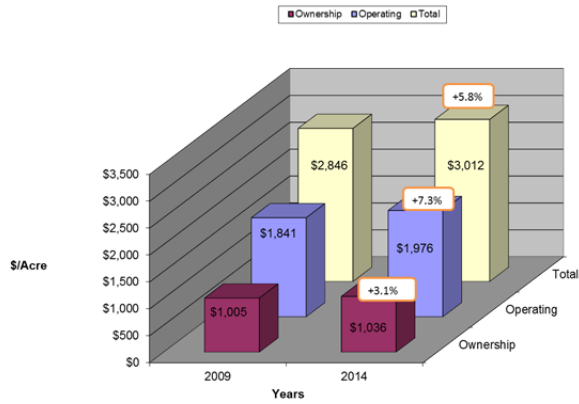
Note: earlier CAR estimates were revised for procedural consistency, so the costs may not always match the original published values.

\* Storage system includes the storage facility, air system and equipment used to place potatoes in storage.

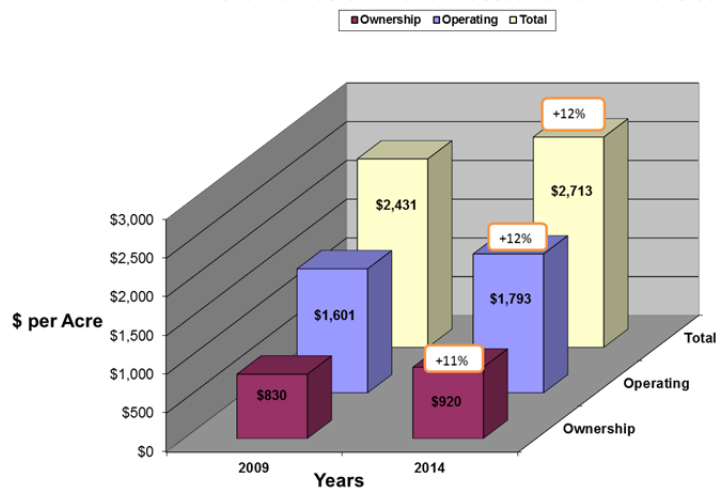
**Chart 1. Southwestern Idaho: R. Burbank - Transloading, No Storage**



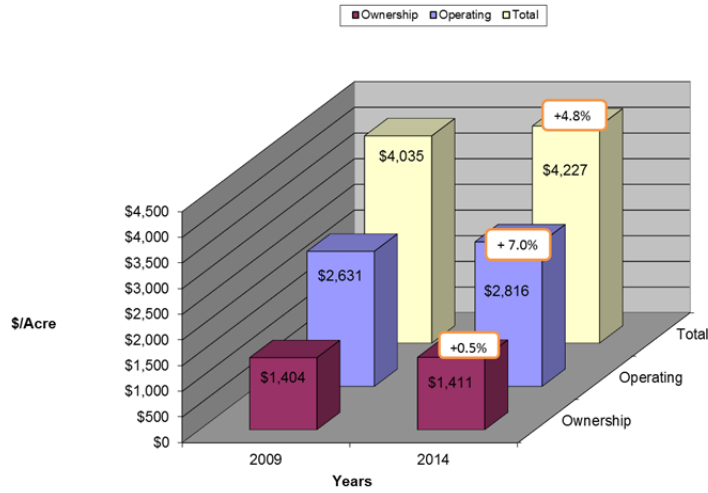
**Chart 2. Southcentral Idaho: R. Burbank - Transloading, No Storage**



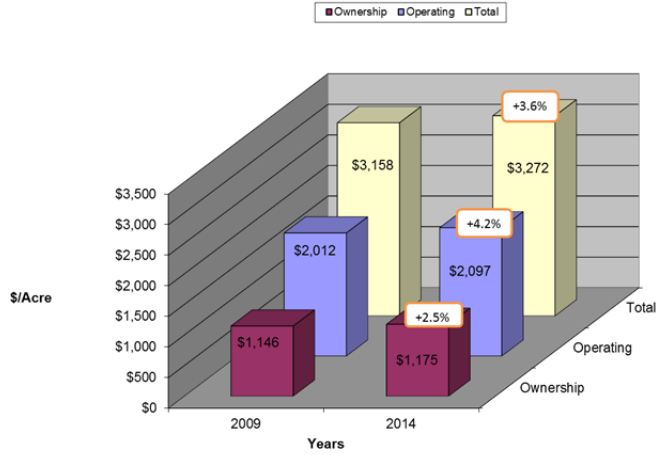
**Chart 3. Eastern Idaho: Russet Burbank - Transloading, No Storage**



**Chart 4. Southwestern Idaho: Russet Burbank - 4-1/2 Months Storage**



**Chart 5. Southcentral Idaho: Russet Burbank - 4-1/2 Months Storage**



**Chart 6. Eastern Idaho: Russet Burbank - 4-1/2 Months Storage**

