

**Overall percentage change within each module
between Pre- and Post- Assessments**

Mod ID	Module	Question	Assessment 1	Assessment 2	Max Score	Avg Of 1 as %	Avg Of 2 as %	% change
1	Animal Husbandry	Herd Nutrition	3.49	3.82	4	87.18%	95.59%	8.4%
1	Animal Husbandry	Overall Health	3.31	3.88	4	82.69%	97.06%	14.4%
1	Animal Husbandry	Health of Incoming/Outgoing Animals	2.49	3.18	4	62.18%	79.41%	17.2%
1	Animal Husbandry	Milk Quality	3.15	3.24	4	78.85%	80.88%	2.0%
1	Animal Husbandry	Lactation Management	3.26	3.53	4	81.41%	88.24%	6.8%
1	Animal Husbandry	Housing/Handling Areas	2.97	3.12	4	74.36%	77.94%	3.6%
1	Animal Husbandry	Stalls	2.74	3.06	4	68.59%	76.47%	7.9%
1	Animal Husbandry	Pasturing	1.97	2.12	4	49.36%	52.94%	3.6%
1	Animal Husbandry	Milk Equipment	3.18	3.76	4	79.49%	94.12%	14.6%
1	Animal Husbandry	Calf Raising Conditions	4.31	4.29	5	86.15%	85.88%	-0.3%
2	Biodiversity	Genetic Diversity of Crops	2.54	3.00	4	63.46%	75.00%	11.5%
2	Biodiversity	Natural Area Conservation	2.38	2.76	4	59.62%	69.12%	9.5%
2	Biodiversity	Management of Riparian Areas	2.51	2.71	4	62.82%	67.65%	4.8%
2	Biodiversity	Pasture Management	2.51	2.88	4	62.82%	72.06%	9.2%
2	Biodiversity	Crop Field Management	2.77	3.12	4	69.23%	77.94%	8.7%
2	Biodiversity	Adjacent Area Management	2.21	2.59	4	55.13%	64.71%	9.6%
2	Biodiversity	GMOs	1.64	1.76	2	82.05%	88.24%	6.2%
3	Community Health	Community Relations	4.13	5.06	7	58.97%	72.27%	13.3%
3	Community Health	Documented Labor	3.00	3.65	4	75.00%	91.18%	16.2%
3	Community Health	Child Labor	3.18	3.59	4	79.49%	89.71%	10.2%
3	Community Health	Base Wage	3.00	3.41	4	75.00%	85.29%	10.3%
3	Community Health	Worker Sanitation	3.31	3.18	4	82.69%	79.41%	-3.3%
3	Community Health	General Safety	1.44	1.88	5	28.72%	37.65%	8.9%
4	Energy	Percentage of Income	2.18	2.53	4	54.61%	63.24%	8.6%
4	Energy	Lighting	2.08	2.59	3	69.30%	86.27%	17.0%
4	Energy	Milking (Variable Speed Driver)	2.21	2.41	3	73.68%	80.39%	6.7%
4	Energy	Ventilation	2.45	2.76	4	61.18%	69.12%	7.9%
4	Energy	Milk Cooling	2.53	2.65	3	84.21%	88.24%	4.0%
4	Energy	Renewable Energy	1.32	1.59	3	43.86%	52.94%	9.1%
5	Farm Financials	Current Ratio	2.19	2.87	3	72.97%	95.56%	22.6%
5	Farm Financials	Equity to Asset Ratio	2.03	2.67	3	67.57%	88.89%	21.3%
5	Farm Financials	Rate of Return on Farm Assets	1.97	2.53	6	32.88%	42.22%	9.3%
5	Farm Financials	Term Debt & Capital Lease Coverage Ratio	1.89	2.40	3	63.06%	80.00%	16.9%

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5	Farm Financials	Farm Income	4.00	4.67	5	80.00%	93.33%	13.3%
5	Farm Financials	Work/Life Balance	2.54	3.00	4	63.51%	75.00%	11.5%
5	Farm Financials	Attitude Towards Adopting New Practices	2.32	2.80	3	77.48%	93.33%	15.9%
5	Farm Financials	Planning for the Future	2.89	3.33	6	48.20%	55.56%	7.4%
6	Nutrient Management	Nutrient Management & Record Keeping	2.64	3.29	4	66.03%	82.35%	16.3%
6	Nutrient Management	Manure Application Rate	2.82	3.18	4	70.51%	79.41%	8.9%
6	Nutrient Management	Commercial Fertilizer Application Rate	3.13	3.53	4	78.21%	88.24%	10.0%
6	Nutrient Management	Manure & Phosphorous Application Timing/Technique	3.18	3.41	4	79.49%	85.29%	5.8%
6	Nutrient Management	Nitrogen Fertilizer Application Timing/Techniques	2.49	2.71	3	82.91%	90.20%	7.3%
6	Nutrient Management	Fertilizer & Manure Application Equipment	2.49	2.65	3	82.91%	88.24%	5.3%
6	Nutrient Management	Use of Phosphorous Supplements	2.46	2.71	3	82.05%	90.20%	8.1%
8	Pest Management	Pest Identification	3.05	3.12	4	76.32%	77.94%	1.6%
8	Pest Management	Pesticide Selection	3.08	3.29	4	76.97%	82.35%	5.4%
8	Pest Management	Timing of Pesticide Application	2.89	3.24	4	72.37%	80.88%	8.5%
8	Pest Management	Weather Conditions	2.63	2.71	3	87.72%	90.20%	2.5%
8	Pest Management	Record Keeping	2.61	2.65	4	65.13%	66.18%	1.0%
8	Pest Management	Specific Management Practices (Flies)	4.00	4.47	6	66.67%	74.51%	7.8%
8	Pest Management	Specific Management Practices (Weeds)	2.21	2.59	5	44.21%	51.76%	7.6%
9	Soil Health	Soil Organic Matter	2.76	3.06	4	69.08%	76.47%	7.4%
9	Soil Health	Use of Cover Crops & Vegetative Areas	2.37	3.06	4	59.21%	76.47%	17.3%
9	Soil Health	Crop Rotations	3.24	3.29	4	80.92%	82.35%	1.4%
9	Soil Health	Tillage Practices	2.47	3.12	4	61.84%	77.94%	16.1%
9	Soil Health	Soil Conservation & Erosion Prevention	3.05	3.47	4	76.32%	86.76%	10.4%
9	Soil Health	Soil Quality Monitoring	3.05	3.24	4	76.32%	80.88%	4.6%
10	Water Management	Livestock Yard Management	3.00	3.47	4	75.00%	86.76%	11.8%
10	Water Management	Manure Storage System	3.15	3.29	4	78.85%	82.35%	3.5%
10	Water Management	Fertilizer Storage System	3.36	3.65	4	83.97%	91.18%	7.2%
10	Water Management	Silage Storage System	3.18	3.18	4	79.49%	79.41%	-0.1%
10	Water Management	Milkhouse Waste	2.97	3.47	4	74.36%	86.76%	12.4%
10	Water Management	Protecting On-Farm Water Sources	3.03	3.06	4	75.64%	76.47%	0.8%
10	Water Management	Water Use Plan	1.97	2.18	4	49.36%	54.41%	5.1%