

IOWA BEEF TENDERNESS AND CARCASS EVALUATION PROJECT



August, 2001 Final Report

A sire progeny testing program for Iowa cattle producers.

Coordinated and partially funded by the



in cooperation with the
**TRI-COUNTY
STEER CARCASS
FUTURITY**

Final Report

8/31/01

2000-2001 Iowa Beef Center and Tri-County Steer Carcass Futurity Board Iowa Beef Tenderness and Carcass Evaluation Project

TCSCF	Tag	Owner	Sire Name	Steer 2000 Birth Date	Weight 12-6-00	Selected Harvest Date	Final Weight @ Harvest	Final Test ADG	Final On ADG	Final Hot Carcass Weight	Hot Dressing %	Fat Cover	Rib Eye Area	KPH %	USDA Quality Grade	Calculated Yield Grade	% Retail Product	Instron Shear Force, lbs	Shear Ratio
	446	Duane Warden	Ironwood Ambush PSS 5468	4/3/00	560	5/1/01	1060	0.84	32	672	63.4%	0.30	14.2	1.5	Low Choice	1.56	69.34	4.74	88
	455	Duane Warden	Ironwood Ambush PSS 5468	6/10/00	454	6/26/01	1034	2.54	95	636	61.5%	0.30	12.4	1.5	Average Choice	2.00	67.60	4.97	97
	473	Duane Warden	Ironwood Ambush PSS 5468	3/22/00	612	6/26/01	1084	2.06	77	670	61.8%	0.40	12.2	2.5	Low Choice	2.64	64.63	4.58	89
	488	Duane Warden	Ironwood Ambush PSS 5468	5/31/00	414	5/29/01	980	3.00	113	613	62.6%	0.35	12.1	2.0	Low Choice	2.23	66.40	4.30	86
	489	Duane Warden	Ironwood Ambush PSS 5468	4/15/00	606	5/1/01	1064	2.84	107	687	64.6%	0.35	12.1	1.5	Select+	2.41	66.07	5.37	100
	496	Duane Warden	Ironwood Ambush PSS 5468	4/1/00	416	6/26/01	942	2.18	82	599	63.6%	0.50	9.8	2.0	Prime-	3.29	62.27	4.62	90
	508	Duane Warden	Ironwood Ambush PSS 5468	4/3/00	624	5/29/01	1130	2.63	99	695	61.5%	0.40	12.4	2.0	Select+	2.57	65.19	4.69	94
	513	Duane Warden	Ironwood Ambush PSS 5468	3/27/00	600	6/26/01	1146	2.29	86	674	58.8%	0.30	10.6	2.0	Average Choice	2.82	64.25	4.11	80
	527	Duane Warden	Ironwood Ambush PSS 5468	3/28/00	534	6/26/01	1042	2.29	86	662	63.5%	0.20	12.7	2.0	Low Choice	1.85	67.98	4.51	88
			<i>Sire Averages</i>		<i>536</i>		<i>1054</i>	<i>2.30</i>	<i>86</i>	<i>656</i>	<i>62.4%</i>	<i>0.34</i>	<i>12.1</i>	<i>1.9</i>		<i>2.38</i>	<i>65.97</i>	<i>4.65</i>	<i>90.1</i>
			<i>Sire Ratios</i>		<i>89.2</i>		<i>95.2</i>	<i>86.2</i>	<i>86.2</i>	<i>96.5</i>	<i>101.5</i>	<i>76.7</i>	<i>102.1</i>	<i>97.8</i>		<i>84.4</i>	<i>102.7</i>		<i>90.1</i>
	438	Duane Warden	Ironwood Band 1015 5450	3/29/00	632	5/1/01	1120	2.72	102	686	61.3%	0.50	9.8	2.0	Average Choice	3.62	61.13	4.04	75
	439	Duane Warden	Ironwood Band 1015 5450	3/19/00	686	5/29/01	1210	2.54	95	686	56.7%	0.50	9.8	2.0	Average Choice	3.62	61.13	4.05	81
	469	Duane Warden	Ironwood Band 1015 5450	3/28/00	662	5/1/01	1068	2.69	101	675	63.2%	0.30	11.9	2.5	Low Choice	2.51	65.19	4.83	90
	494	Duane Warden	Ironwood Band 1015 5450	3/23/00	586	5/29/01	1146	3.04	114	715	62.4%	0.45	12.5	2.0	Average Choice	2.74	64.55	3.87	78
	497	Duane Warden	Ironwood Band 1015 5450	3/12/00	706	5/29/01	1112	2.09	78	686	61.7%	0.40	12.7	2.0	Average Choice	2.44	65.67	5.36	108
	500	Duane Warden	Ironwood Band 1015 5450	3/18/00	642	5/29/01	1074	2.03	76	670	62.4%	0.45	12.9	2.0	High Choice	2.44	65.63	4.60	92
	510	Duane Warden	Ironwood Band 1015 5450	4/18/00	630	5/29/01	1196	2.79	105	717	59.9%	0.50	11.2	2.0	Low Choice	3.29	62.43	6.29	126
	520	Duane Warden	Ironwood Band 1015 5450	3/17/00	636	5/1/01	1016	1.68	63	664	65.4%	0.25	14.0	2.0	Low Choice	1.57	69.05	4.94	92
			<i>Sire Averages</i>		<i>624</i>		<i>1118</i>	<i>2.45</i>	<i>92</i>	<i>687</i>	<i>61.6%</i>	<i>0.42</i>	<i>11.9</i>	<i>2.1</i>		<i>2.78</i>	<i>64.35</i>	<i>4.75</i>	<i>92.7</i>
			<i>Sire Ratios</i>		<i>104.0</i>		<i>101.0</i>	<i>91.9</i>	<i>91.9</i>	<i>101.1</i>	<i>100.3</i>	<i>93.3</i>	<i>100.4</i>	<i>106.8</i>		<i>98.8</i>	<i>100.1</i>		<i>92.7</i>
	442	Duane Warden	Ironwood Cristo 5204 6370	3/19/00	616	5/1/01	1104	3.10	117	668	60.5%	0.40	11.3	1.5	Low Choice	2.72	64.84	3.82	71
	466	Duane Warden	Ironwood Cristo 5204 6370	3/22/00	600	5/29/01	1048	1.91	72	671	64.0%	0.60	12.3	2.0	Average Choice	3.01	63.40	4.57	92
	480	Duane Warden	Ironwood Cristo 5204 6370	4/10/00	478	6/26/01	942	2.12	80	594	63.1%	0.45	10.1	2.0	Low Choice	3.05	63.20	5.77	112
	485	Duane Warden	Ironwood Cristo 5204 6370	5/21/00	450	5/29/01	996	3.16	119	606	60.8%	0.30	9.8	1.5	Average Choice	2.72	64.81	4.88	98
	486	Duane Warden	Ironwood Cristo 5204 6370	4/25/00	406	6/26/01	1102	3.38	127	700	63.5%	0.60	11.5	2.0	Average Choice	3.38	62.03	4.33	84
	491	Duane Warden	Ironwood Cristo 5204 6370	3/15/00	606	5/1/01	1100	2.82	106	693	63.0%	0.55	11.2	2.0	High Choice	3.32	62.25	4.24	79
	492	Duane Warden	Ironwood Cristo 5204 6370	4/5/00	570	5/29/01	1120	3.01	113	707	63.1%	0.40	13.0	2.0	High Choice	2.43	65.77	4.50	90
	502	Duane Warden	Ironwood Cristo 5204 6370	3/25/00	632	5/29/01	1124	2.66	100	702	62.5%	0.40	12.1	2.0	Average Choice	2.70	64.73	4.05	81
	505	Duane Warden	Ironwood Cristo 5204 6370	4/22/00	476	5/29/01	1020	3.04	114	631	61.9%	0.40	13.4	2.0	Low Choice	2.01	67.26	4.78	96
	517	Duane Warden	Ironwood Cristo 5204 6370	3/30/00	518	5/29/01	1098	2.91	109	676	61.6%	0.50	11.3	1.5	Average Choice	3.00	63.74	3.85	77
	522	Duane Warden	Ironwood Cristo 5204 6370	3/19/00	650	5/1/01	1036	2.19	82	670	64.7%	0.65	10.7	1.5	Low Choice	3.55	61.60	6.59	123
	530	Duane Warden	Ironwood Cristo 5204 6370	3/15/00	600	5/1/01	1030	2.32	87	638	61.9%	0.70	10.6	2.0	Average Choice	3.68	60.75	5.27	98
			<i>Sire Averages</i>		<i>550</i>		<i>1060</i>	<i>2.72</i>	<i>102</i>	<i>663</i>	<i>62.5%</i>	<i>0.50</i>	<i>11.4</i>	<i>1.8</i>		<i>2.96</i>	<i>63.70</i>	<i>4.72</i>	<i>91.7</i>
			<i>Sire Ratios</i>		<i>91.6</i>		<i>95.7</i>	<i>102.2</i>	<i>102.2</i>	<i>97.5</i>	<i>101.8</i>	<i>110.4</i>	<i>96.9</i>	<i>94.9</i>		<i>105.3</i>	<i>99.1</i>		<i>91.7</i>
	437	Duane Warden	Ironwood Cristo B2 8218	3/15/00	692	5/29/01	1190	2.22	84	743	62.4%	0.40	13.7	2.0	Average Choice	2.34	66.15	4.09	82
	443	Duane Warden	Ironwood Cristo B2 8218	4/3/00	634	5/1/01	1104	2.74	103	692	62.7%	0.52	12.5	2.0	Low Choice	2.83	64.16	5.70	106
	447	Duane Warden	Ironwood Cristo B2 8218	3/27/00	648	5/1/01	1170	3.41	128	733	62.6%	0.65	13.0	2.0	Low Choice	3.15	62.94	4.88	91
	451	Duane Warden	Ironwood Cristo B2 8218	3/9/00	716	5/29/01	1086	1.72	64	652	60.0%	0.40	11.9	2.0	Low Choice	2.57	65.14	6.95	139
	452	Duane Warden	Ironwood Cristo B2 8218	4/1/00	586	5/1/01	1112	3.49	131	672	60.4%	0.50	13.0	2.0	Select+	2.54	65.23	5.09	95
	462	Duane Warden	Ironwood Cristo B2 8218	4/7/00	540	5/1/01	1082	3.62	136	639	59.1%	0.50	11.0	1.5	Low Choice	2.96	63.86	6.22	116
	464	Duane Warden	Ironwood Cristo B2 8218	4/15/00	588	5/29/01	1040	1.96	73	653	62.8%	0.50	11.8	2.5	Average Choice	2.96	63.37	3.87	78
	476	Duane Warden	Ironwood Cristo B2 8218	4/3/00	638	5/29/01	1130	2.43	91	696	61.6%	0.60	11.4	2.0	Average Choice	3.40	61.96	4.08	82
	482	Duane Warden	Ironwood Cristo B2 8218	3/22/00	666	5/29/01	1100	2.07	78	664	60.4%	0.50	11.5	2.0	Low Choice	2.99	63.50	3.64	73
	498	Duane Warden	Ironwood Cristo B2 8218	4/30/00	484	6/26/01	1102	2.77	104	679	61.6%	0.85	12.0	2.0	Average Choice	3.77	60.44	4.04	79
	518	Duane Warden	Ironwood Cristo B2 8218	3/13/00	536	6/26/01	1074	2.06	77	663	61.7%	0.40	12.4	2.0	Low Choice	2.45	65.61	4.50	87
	529	Duane Warden	Ironwood Cristo B2 8218	3/27/00	598	5/29/01	1102	2.55	96	666	60.4%	0.55	11.0	2.0	Low Choice	3.29	62.36	4.48	90
			<i>Sire Averages</i>		<i>611</i>		<i>1108</i>	<i>2.59</i>	<i>97</i>	<i>679</i>	<i>61.3%</i>	<i>0.53</i>	<i>12.1</i>	<i>2.0</i>		<i>2.94</i>	<i>63.73</i>	<i>4.79</i>	<i>93.0</i>
			<i>Sire Ratios</i>		<i>101.6</i>		<i>100.1</i>	<i>97.2</i>	<i>97.2</i>	<i>99.9</i>	<i>99.8</i>	<i>118.2</i>	<i>102.5</i>	<i>103.6</i>		<i>104.3</i>	<i>99.2</i>		<i>93.0</i>
	440	Duane Warden	Ironwood Cristo PA 8223	3/31/00	590	5/1/01	1048	3.22	121	662	63.2%	0.50	12.3	2.0	Select+	2.73	64.51	5.23	97
	475	Duane Warden	Ironwood Cristo PA 8223	4/3/00	456	6/26/01	1016	2.49	94	616	60.6%	0.40	11.5	2.0	Low Choice	2.56	65.13	5.74	112

Final Report

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Iowa Beef Tenderness and Carcass Evaluation Project

TCSCF Tag	Owner	Sire Name	Steer 2000 Birth Date	Weight 12-6-00	Selected Harvest Date	Final Weight @ Harvest	Final On Test ADG	Final ADG Ratio	Hot Carcass Weight	Hot Dressing %	Fat Cover	Rib Eye Area	KPH %	USDA Quality Grade	Calculated Yield Grade	% Retail Product	Instron Shear, lbs	Shear Ratio
490	Duane Warden	Ironwood Cristo PA 8223	3/30/00	556	6/26/01	996	1.49	56	623	62.6%	0.40	10.2	2.0	Low Choice	3.00	63.44	5.29	103
526	Duane Warden	Ironwood Cristo PA 8223	4/9/00	396	6/26/01	1036	2.92	110	618	59.7%	0.30	12.1	1.5	Average Choice	2.03	67.47	5.84	114
		<i>Sire Averages</i>		500		1024	2.53	95	630	61.5%	0.40	11.5	1.9		2.58	65.14	5.53	106.3
		<i>Sire Ratios</i>		83.2		92.5	95.0	95.0	92.6	100.1	89.1	97.6	97.1		91.7	101.4		106.3
407	Duane Warden	Ironwood Design 415 8219	5/19/00	595	5/1/01	1084	3.39	127	638	58.9%	0.50	11.9	1.5	No Roll	2.67	64.98	5.60	104
408	Duane Warden	Ironwood Design 415 8219	5/10/00	495	5/29/01	1063	3.13	117	599	56.3%	0.55	11.0	1.5	Average Choice	2.93	63.89	5.03	101
409	Duane Warden	Ironwood Design 415 8219	5/26/00	556	6/26/01	1034	2.30	86	635	61.4%	0.50	10.3	1.5	Low Choice	3.17	63.06	4.84	94
410	Duane Warden	Ironwood Design 415 8219	4/26/00	596	6/26/01	1112	2.26	85	663	59.6%	0.40	11.9	2.0	Low Choice	2.61	65.00	6.10	119
453	Duane Warden	Ironwood Design 415 8219	5/4/00	602	5/29/01	1120	2.87	108	680	60.7%	0.50	11.7	2.0	Low Choice	2.99	63.53	4.68	94
487	Duane Warden	Ironwood Design 415 8219	5/15/00	504	6/26/01	1000	2.19	82	608	60.8%	0.50	11.4	2.0	Select+	2.81	64.11	4.62	90
		<i>Sire Averages</i>		565		1069	2.69	101	637	59.6%	0.49	11.4	1.8		2.86	64.10	5.14	100.2
		<i>Sire Ratios</i>		94.0		96.5	101.0	101.0	93.7	97.0	109.5	96.3	90.6		101.7	99.7		100.2
448	Duane Warden	Ironwood Director 672 6490	4/9/00	594	5/29/01	1120	2.81	105	675	60.3%	0.40	12.4	1.5	Average Choice	2.40	66.10	6.07	122
449	Duane Warden	Ironwood Director 672 6490	3/17/00	654	5/1/01	1176	3.31	125	722	61.4%	0.55	11.3	2.0	Select-	3.40	61.99	6.14	114
454	Duane Warden	Ironwood Director 672 6490	4/29/00	492	5/29/01	998	3.00	113	630	63.1%	0.45	10.6	2.0	Select+	3.03	63.34	5.01	100
459	Duane Warden	Ironwood Director 672 6490	4/10/00	454	5/29/01	1030	3.28	123	623	60.5%	0.35	12.2	1.5	Select+	2.14	67.03	5.48	110
460	Duane Warden	Ironwood Director 672 6490	4/22/00	452	6/26/01	1042	2.89	108	621	59.6%	0.40	10.3	1.5	Low Choice	2.86	64.23	5.40	105
461	Duane Warden	Ironwood Director 672 6490	6/15/00	400	6/26/01	930	2.46	92	534	57.4%	0.20	10.2	2.0	Low Choice	2.17	66.60	4.79	93
470	Duane Warden	Ironwood Director 672 6490	5/3/00	436	5/29/01	1030	3.18	119	623	60.5%	0.30	13.1	1.5	Select-	1.73	68.63	5.22	105
472	Duane Warden	Ironwood Director 672 6490	3/23/00	684	5/1/01	1148	3.10	117	752	65.5%	0.45	12.5	2.0	Low Choice	2.88	64.06	4.55	85
503	Duane Warden	Ironwood Director 672 6490	4/1/00	676	5/29/01	1140	2.25	85	682	59.8%	0.40	12.2	1.5	Select+	2.49	65.76	4.93	99
504	Duane Warden	Ironwood Director 672 6490	3/11/00	702	6/26/01	1150	1.88	71	687	59.7%	0.60	11.0	1.5	Select+	3.39	62.24	6.88	134
512	Duane Warden	Ironwood Director 672 6490	3/18/00	726	5/29/01	1210	2.51	94	746	61.7%	0.60	11.3	2.5	Low Choice	3.72	60.54	5.38	108
515	Duane Warden	Ironwood Director 672 6490	3/27/00	582	5/29/01	1080	2.49	94	669	61.9%	0.40	12.5	2.0	Select-	2.44	65.65	4.70	94
516	Duane Warden	Ironwood Director 672 6490	3/24/00	610	5/29/01	1048	2.34	88	623	59.4%	0.55	10.0	2.0	Low Choice	3.44	61.70	4.71	94
525	Duane Warden	Ironwood Director 672 6490	3/22/00	676	5/1/01	1132	3.01	113	717	63.3%	0.50	12.2	2.0	Low Choice	2.97	63.66	5.08	94
532	Duane Warden	Ironwood Director 672 6490	3/22/00	610	5/29/01	1104	2.75	103	668	60.5%	0.45	12.3	2.0	Average Choice	2.63	64.92	4.78	96
		<i>Sire Averages</i>		589		1089	2.75	103	665	61.0%	0.44	11.6	1.8		2.78	64.43	5.27	103.5
		<i>Sire Ratios</i>		98.0		98.4	103.3	103.3	97.8	99.3	98.0	98.3	94.9		98.7	100.3		103.5
445	Duane Warden	Ironwood Easy 307 714	3/18/00	718	5/29/01	1306	3.01	113	801	61.3%	0.55	12.0	2.0	Low Choice	3.48	61.81	5.14	103
468	Duane Warden	Ironwood Easy 307 714	5/7/00	484	6/26/01	1106	2.68	101	660	59.7%	0.60	11.5	2.5	Low Choice	3.33	61.91	5.76	112
478	Duane Warden	Ironwood Easy 307 714	3/12/00	670	5/1/01	1250	3.64	137	779	62.3%	0.65	12.7	2.5	Select+	3.52	61.32	6.86	128
479	Duane Warden	Ironwood Easy 307 714	3/25/00	686	5/1/01	1244	3.73	140	760	61.1%	0.55	11.5	1.5	Low Choice	3.38	62.38	5.58	104
481	Duane Warden	Ironwood Easy 307 714	3/27/00	644	5/1/01	1100	2.36	89	692	62.9%	0.45	12.8	2.0	Low Choice	2.56	65.22	6.01	112
506	Duane Warden	Ironwood Easy 307 714	3/28/00	610	6/26/01	1092	2.29	86	676	61.9%	0.50	12.5	2.0	Low Choice	2.72	64.57	6.11	119
509	Duane Warden	Ironwood Easy 307 714	3/14/00	604	5/29/01	1166	2.90	109	714	61.2%	0.50	12.2	2.0	Low Choice	2.96	63.70	5.12	103
523	Duane Warden	Ironwood Easy 307 714	3/12/00	640	5/29/01	1174	2.45	92	727	61.9%	0.60	11.8	2.0	Average Choice	3.39	62.05	4.51	90
		<i>Sire Averages</i>		632		1180	2.88	108	726	61.5%	0.55	12.1	2.1		3.17	62.87	5.64	108.7
		<i>Sire Ratios</i>		105.2		106.6	108.3	108.3	106.8	100.2	122.5	102.7	106.8		112.5	97.8		108.7
412	Duane Warden	Ironwood New Design 022 701	4/10/00	578	5/29/01	1086	2.78	104	686	63.2%	0.70	12.0	2.0	Average Choice	3.42	61.84	4.91	98
413	Duane Warden	Ironwood New Design 022 701	5/5/00	510	5/29/01	1046	3.09	116	612	58.5%	0.35	12.5	1.5	Average Choice	2.00	67.55	5.18	104
414	Duane Warden	Ironwood New Design 022 701	5/7/00	476	5/29/01	1020	3.33	125	635	62.3%	0.30	10.2	1.5	Average Choice	2.70	64.92	5.27	106
415	Duane Warden	Ironwood New Design 022 701	5/12/00	514	6/26/01	1060	2.59	97	643	60.7%	0.50	12.5	2.0	Average Choice	2.59	65.00	5.29	103
463	Duane Warden	Ironwood New Design 022 701	3/11/00	556	5/29/01	1070	2.72	102	667	62.3%	0.55	11.6	2.0	Average Choice	3.10	63.09	3.78	76
484	Duane Warden	Ironwood New Design 022 701	3/15/00	546	5/29/01	1100	2.88	108	678	61.6%	0.50	12.0	2.0	Average Choice	2.89	63.93	4.26	85
499	Duane Warden	Ironwood New Design 022 701	3/14/00	630	5/1/01	1238	3.68	138	779	62.9%	0.50	12.7	2.0	Low Choice	3.05	63.46	5.19	97
514	Duane Warden	Ironwood New Design 022 701	3/6/00	534	5/1/01	1048	3.24	122	675	64.4%	0.50	12.0	2.0	High Choice	2.88	63.97	5.69	106
		<i>Sire Averages</i>		543		1084	3.04	114	672	62.0%	0.49	11.9	1.9		2.83	64.22	4.95	96.8
		<i>Sire Ratios</i>		90.4		97.9	114.1	114.1	98.8	100.9	108.6	101.1	97.1		100.5	99.9		96.8
450	Duane Warden	Ironwood Prompter 5204 5459	3/25/00	698	5/29/01	1192	2.06	77	719	60.3%	0.60	10.6	1.5	Average Choice	3.64	61.32	5.18	104

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TCSCF	Tag	Owner	Sire Name	Steer 2000 Birth Date	Weight 12-6-00	Selected Harvest Date	Final Weight @ Harvest	Final On Test ADG	Final ADG Ratio	Hot Carcass Weight	Dressing %	Fat Cover	Rib Eye Area	KPH %	USDA Quality Grade	Calculated Yield Grade	% Retail Product	Instron Shear Force, lbs	Shear Ratio
	456	Duane Warden	Ironwood Prompter 5204 5459	5/20/00	498	5/29/01	1040	3.18	119	646	62.1%	0.50	11.1	1.5	Average Choice	2.95	63.89	3.56	71
	471	Duane Warden	Ironwood Prompter 5204 5459	3/26/00	638	5/1/01	1126	3.05	114	716	63.6%	0.40	12.4	1.5	Low Choice	2.55	65.56	4.12	77
	474	Duane Warden	Ironwood Prompter 5204 5459	4/8/00	566	5/1/01	1112	3.56	134	677	60.9%	0.60	11.4	2.0	High Choice	3.32	62.21	5.12	95
	477	Duane Warden	Ironwood Prompter 5204 5459	3/30/00	612	5/29/01	1128	2.48	93	707	62.7%	0.50	12.4	2.0	Average Choice	2.87	64.04	4.53	91
	483	Duane Warden	Ironwood Prompter 5204 5459	3/14/00	656	5/1/01	1164	3.18	120	729	62.6%	0.50	12.6	2.0	Low Choice	2.89	63.99	6.98	130
	501	Duane Warden	Ironwood Prompter 5204 5459	3/25/00	618	5/29/01	1100	2.28	86	710	64.5%	0.40	12.9	2.5	Average Choice	2.57	64.96	7.38	148
			<i>Sire Averages</i>		612		1123	2.83	106	701	62.4%	0.50	11.9	1.9		2.97	63.71	5.26	102.2
			<i>Sire Ratios</i>		101.9		101.5	106.2	106.2	103.0	101.5	111.4	100.9	96.2		105.6	99.1		102.2
	411	Duane Warden	Ironwood Stampede 98 8221	4/9/00	492	6/26/01	980	2.40	90	573	58.5%	0.50	10.1	2.0	Low Choice	3.10	62.98	3.51	68
	444	Duane Warden	Ironwood Stampede 98 8221	4/15/00	438	6/26/01	998	2.60	98	590	59.1%	0.30	12.6	2.0	Low Choice	1.86	67.81	5.76	112
	458	Duane Warden	Ironwood Stampede 98 8221	5/26/00	544	5/29/01	1138	3.30	124	717	63.0%	0.75	11.3	2.0	Low Choice	3.88	60.07	6.08	122
	465	Duane Warden	Ironwood Stampede 98 8221	4/11/00	598	5/1/01	1128	3.73	140	686	60.8%	0.45	12.2	2.0	High Choice	2.73	64.57	4.09	76
	531	Duane Warden	Ironwood Stampede 98 8221	4/5/00	578	5/1/01	1008	2.55	96	632	62.7%	0.30	13.1	2.0	Average Choice	1.86	67.87	4.25	79
			<i>Sire Averages</i>		530		1050	2.92	110	640	60.8%	0.46	11.9	2.0		2.69	64.66	4.74	91.5
			<i>Sire Ratios</i>		88.2		94.9	109.5	109.5	94.1	99.0	102.5	100.4	103.6		95.4	100.6		91.4
	441	Duane Warden	Ironwood Stockman TCD 8217	3/17/00	624	5/29/01	1078	2.37	89	662	61.4%	0.40	12.6	2.0	Average Choice	2.38	65.87	6.32	127
	495	Duane Warden	Ironwood Stockman TCD 8217	3/13/00	626	6/26/01	1070	1.88	71	655	61.2%	0.30	11.9	2.0	Low Choice	2.33	66.10	5.53	108
	511	Duane Warden	Ironwood Stockman TCD 8217	3/27/00	560	6/26/01	1196	2.86	108	712	59.5%	0.60	11.3	2.0	Low Choice	3.49	61.63	5.38	105
	519	Duane Warden	Ironwood Stockman TCD 8217	3/27/00	684	5/29/01	1200	2.85	107	757	63.1%	0.40	12.6	2.5	High Choice	2.84	63.97	4.84	97
	521	Duane Warden	Ironwood Stockman TCD 8217	3/19/00	528	5/29/01	1100	2.88	108	666	60.5%	0.35	11.1	2.0	Low Choice	2.75	64.47	6.27	126
	528	Duane Warden	Ironwood Stockman TCD 8217	4/3/00	638	5/1/01	1088	2.51	94	691	63.5%	0.45	10.8	2.0	Average Choice	3.19	62.78	5.38	100
			<i>Sire Averages</i>		585		1122	2.56	96	691	61.5%	0.42	11.7	2.1		2.83	64.14	5.62	110.2
			<i>Sire Ratios</i>		97.3		101.3	96.2	96.2	101.5	100.2	92.8	99.2	107.9		100.7	99.8		110.2
	467	Duane Warden	Unknown		670	5/1/01	1138	3.03	114	665	58.4%	0.40	12.8	2.0	Low Choice	2.33	66.07	4.69	87
	524	Duane Warden	Unknown		644	5/1/01	1108	2.76	104	693	62.5%	0.45	12.8	2.0	Average Choice	2.56	65.21	5.93	110
		Warden Averages			580		1123			679	60.5%	0.43	12.8	2.0		2.45	65.64	5.31	98.8
	397	Smith-Smith-Chace	Finks Absolute	2/24/00	676	5/29/01	1170	2.76	104	698	59.7%	0.50	12.2	2.5	Average Choice	3.00	63.27	5.25	105
	398	Smith-Smith-Chace	Finks Absolute	3/6/00	645	5/29/01	1012	2.00	75	635	62.7%	0.40	9.2	2.0	Low Choice	3.37	62.06	5.53	111
	399	Smith-Smith-Chace	Finks Absolute	2/28/00	816	5/1/01	1246	2.86	107	770	61.8%	0.40	12.0	2.0	High Choice	2.99	63.71	7.35	137
	400	Smith-Smith-Chace	Finks Absolute	2/22/00	726	5/1/01	1166	2.08	78	765	65.6%	0.40	12.2	1.5	Low Choice	2.80	64.67	5.48	102
	401	Smith-Smith-Chace	Finks Absolute	2/29/00	736	5/1/01	1214	3.16	119	757	62.4%	0.40	11.4	2.0	Average Choice	3.13	63.15	5.62	105
	402	Smith-Smith-Chace	Finks Absolute	2/19/00	724	5/1/01	1206	3.14	118	732	60.7%	0.30	12.2	2.5	Low Choice	2.63	64.80	7.02	131
	403	Smith-Smith-Chace	Finks Absolute	2/19/00	710	5/1/01	1166	2.42	91	711	61.0%	0.40	11.3	2.0	Average Choice	2.99	63.63	5.35	100
	404	Smith-Smith-Chace	Finks Absolute	3/1/00	590	6/26/01	1120	2.11	79	688	61.4%	0.40	11.2	2.0	Low Choice	2.93	63.81	5.38	105
	405	Smith-Smith-Chace	Finks Absolute	2/28/00	796	5/1/01	1288	2.76	104	806	62.6%	0.30	13.0	2.0	Low Choice	2.55	65.46	5.42	101
	406	Smith-Smith-Chace	Finks Absolute	2/15/00	802	5/1/01	1218	2.42	91	755	62.0%	0.60	11.9	2.0	Low Choice	3.46	61.80	5.35	100
		Smith-Smith-Chace Averages	<i>Sire Averages</i>		722		1181	2.57	97	732	62.0%	0.41	11.7	2.1		2.98	63.63	5.77	109.4
			<i>Sire Ratios</i>		120.2		106.6	96.6	96.6	107.6	100.9	91.3	98.7	106.2		106.0	99.0		109.4
	416	Schechinger	GAR Moneyline 804	2/9/00	762	5/1/01	1218	2.95	111	722	59.3%	0.30	13.5	2.0	Select+	2.07	67.17	5.53	103
	417	Schechinger	GAR Moneyline 804	2/17/00	690	5/29/01	1128	2.73	103	680	60.3%	0.50	13.1	2.0	Low Choice	2.54	65.25	5.12	103
	418	Schechinger	GAR Moneyline 804	2/16/00	560	6/26/01	1008	2.12	80	614	60.9%	0.40	10.8	2.0	Average Choice	2.78	64.29	4.23	82
	419	Schechinger	GAR Moneyline 804	2/5/00	640	5/29/01	1104	2.31	87	680	61.6%	0.45	10.4	2.0	Average Choice	3.28	62.44	4.59	92
	420	Schechinger	GAR Moneyline 804	2/1/00	625	5/29/01	978	1.49	56	593	60.6%	0.55	9.5	1.5	Average Choice	3.39	62.13	4.56	91
	421	Schechinger	GAR Moneyline 804	2/2/00	610	5/29/01	1044	2.15	81	626	60.0%	0.35	10.3	2.0	Average Choice	2.86	64.02	4.60	92
	422	Schechinger	GAR Moneyline 804	2/3/00	675	5/1/01	1144	3.05	114	698	61.0%	0.35	12.9	2.0	Low Choice	2.30	66.26	5.36	100
	423	Schechinger	GAR Moneyline 804	2/2/00	626	6/26/01	1092	1.81	68	656	60.1%	0.50	12.0	2.0	Average Choice	2.80	64.22	4.31	84
	424	Schechinger	GAR Moneyline 804	2/1/00	720	5/29/01	1180	2.37	89	733	62.1%	0.50	12.6	2.5	Prime	3.00	63.30	5.21	104
	434	Schechinger	GAR Moneyline 804	4/1/00	534	6/26/01	1088	2.46	92	647	59.5%	0.20	11.8	2.0	Low Choice	2.08	67.07	4.56	89
		Schechinger Averages	<i>Sire Averages</i>		644		1098	2.34	88	665	60.5%	0.41	11.7	2.0		2.71	64.61	4.81	94.0
			<i>Sire Ratios</i>		107.3		99.2	88.1	88.1	97.8	98.5	91.3	99.0	103.6		96.3	100.5		94.0

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TCSCF Tag	Owner	Sire Name	Steer 2000 Birth Date	Weight 12-6-00	Selected Harvest Date	Final Weight @ Harvest	Final On Test ADG	Final ADG Ratio	Hot Carcass Weight	Dressing %	Fat Cover	Rib Eye Area	KPH %	USDA Quality Grade	Calculated Yield Grade	% Retail Product	Instron Shear Force, lbs	Shear Ratio
533	Pellett - Hall	Bonus J Band	4/7/00	742	5/1/01	1190	3.58	135	723	60.8%	0.45	11.2	1.5	Select+	3.09	63.50	4.89	91
535	Pellett - Hall	Bonus J Band	4/28/00	566	6/26/01	1026	1.90	71	625	60.9%	0.40	10.1	2.0	Select+	3.04	63.29	5.29	103
536	Pellett - Hall	Bonus J Band	4/19/00	544	5/29/01	1182	3.58	135	712	60.2%	0.30	13.8	1.5	Select+	1.84	68.32	4.25	85
537	Pellett - Hall	Bonus J Band	4/9/00	490	6/26/01	1146	3.19	120	689	60.1%	0.40	11.8	1.5	Low Choice	2.64	65.18	4.46	87
		<i>Sire Averages</i>		586		1136	3.06	115	687	60.5%	0.39	11.7	1.63		2.65	65.07	4.72	91.4
		<i>Sire Ratios</i>		97.5		102.6	115.0	115.0	101.1	98.5	86.3	99.3	84.1		94.3	101.3		91.4
534	Pellett - Hall	RDH Bonus J Band 86	3/30/00	640	5/29/01	1126	2.73	103	680	60.4%	0.30	12.1	2.5	Low Choice	2.46	65.37	5.62	113
538	Pellett - Hall	RDH Bonus J Band 86	4/17/00	626	5/29/01	1160	3.06	115	704	60.7%	0.40	12.3	2.0	Low Choice	2.64	64.95	4.77	96
		<i>Sire Averages</i>		633		1143	2.90	109	692	60.5%	0.35	12.2	2.25		2.55	65.16	5.20	104.1
		<i>Sire Ratios</i>		105.4		103.2	108.8	108.8	101.8	98.5	78.0	103.3	116.5		90.6	101.4		104.1
	Pellett - Hall Averages	<i>Sire Ratios</i>		105.4		103.2	108.8	108.8	101.8	98.5	78.0	103.3	116.5		90.6	101.4		104.1
425	Production Angus Assoiates	PAA Northlander 102 4113	3/17/00	610	5/1/01	1090	3.03	114	724	66.4%	0.50	13.7	2.0	Select+	2.52	65.41	6.28	117
426	Production Angus Assoiates	PAA Northlander 102 4113	3/26/00	468	5/29/01	1012	2.96	111	615	60.8%	0.50	11.3	1.5	Low Choice	2.77	64.55	7.84	157
427	Production Angus Assoiates	PAA Northlander 102 4113	5/15/00	578	5/29/01	1132	3.12	117	691	61.0%	0.20	12.7	2.0	Average Choice	1.96	67.60	4.73	95
428	Production Angus Assoiates	PAA Northlander 102 4113	5/10/00	614	5/1/01	1160	4.10	154	722	62.2%	0.35	14.4	2.0	Select+	1.91	67.78	5.64	105
429	Production Angus Assoiates	PAA Northlander 102 4113	4/11/00	720	6/26/01	1096	1.35	51	703	64.1%	0.55	12.3	2.0	Low Choice	3.01	63.47	6.74	131
430	Production Angus Assoiates	PAA Northlander 102 4113	3/28/00	686	5/29/01	1180	2.64	99	717	60.8%	0.55	11.5	2.0	Prime	3.32	62.31	5.49	110
431	Production Angus Assoiates	PAA Northlander 102 4113	5/16/00	560	5/1/01	1058	3.54	133	663	62.7%	0.50	12.0	1.5	Low Choice	2.73	64.77	4.60	86
432	Production Angus Assoiates	PAA Northlander 102 4113	4/15/00	680	5/29/01	1206	2.94	110	746	61.9%	0.55	11.6	2.0	Low Choice	3.40	62.05	5.21	104
433	Production Angus Assoiates	PAA Northlander 102 4113	3/17/00	636	5/1/01	1202	3.77	142	731	60.8%	0.45	12.6	2.0	Select+	2.77	64.46	5.78	108
435	Production Angus Assoiates	PAA Northlander 102 4113	3/17/00	454	6/26/01	1146	3.20	120	704	61.4%	0.30	12.8	2.0	Low Choice	2.23	66.55	5.36	104
		<i>PAA Averages</i>		601		1128	3.06	115	702	62.2%	0.45	12.5	1.9		2.66	64.89	5.77	111.6
		<i>Sire Ratios</i>		100.0		101.9	115.1	115.1	103.2	101.3	99.1	105.8	98.4		94.6	101.0		111.6
539	Dick Vilmont	LS Extra 300C B7	3/15/00	694	5/29/01	1212	2.97	112	742	61.2%	0.35	12.4	2.0	Select-	2.63	65.07	6.13	123
542	Dick Vilmont	LS Extra 300C B7	3/14/00	678	6/26/01	1220	2.65	99	731	59.9%	0.50	9.4	2.0	Select+	3.92	60.04	5.81	113
		<i>Sire Averages</i>		686		1216	2.81	106	737	60.6%	0.43	10.9	2.0		3.27	62.55	5.97	117.9
		<i>Sire Ratios</i>		114.2		109.8	105.5	105.5	108.3	98.6	94.7	92.3	103.6		116.3	97.3		117.9
540	Dick Vilmont	VH F20 Domino 804	3/10/00	604	5/29/01	1140	2.60	98	696	61.1%	0.35	11.2	1.5	Low Choice	2.74	64.85	5.26	105
541	Dick Vilmont	VH F20 Domino 804	2/26/00	750	6/26/01	1140	2.62	99	684	60.0%	0.50	11.5	2.0	Low Choice	3.07	63.24	4.28	83
543	Dick Vilmont	VH F20 Domino 804	2/23/00	646	6/26/01	1238	2.98	112	725	58.6%	0.25	11.8	2.0	Select+	2.50	65.55	5.15	100
544	Dick Vilmont	VH F20 Domino 804	2/27/00	762	6/26/01	1214	2.69	101	713	58.7%	0.40	10.8	2.0	Low Choice	3.15	62.99	5.05	98
545	Dick Vilmont	VH F20 Domino 804	3/24/00	602	6/26/01	1060	2.17	81	644	60.8%	0.35	11.2	2.0	Low Choice	2.64	64.89	6.60	128
		<i>Sire Averages</i>		673		1158	2.61	98	692	59.8%	0.37	11.3	1.9		2.82	64.30	5.27	103.1
		<i>Sire Ratios</i>		112.0		104.6	98.2	98.2	101.8	97.4	82.4	95.7	98.4		100.2	100.1		103.0
	Dick Vilmont Averages	<i>Sire Ratios</i>		677		1175	2.67	100	705	60.0%	0.39	11.2	1.9		2.95	63.80	5.47	107.3
	Average 149 Head			601		1107	2.66	100	680	61.4%	0.45	11.8	1.9		2.81	64.26	5.15	100.0
	Minimum			396		930	0.84	32	534	56.3%	0.20	9.2	1.5		1.56	60.04	3.51	68.2
	Maximum			816		1306	4.10	154	806	66.4%	0.85	14.4	2.5		3.92	69.34	7.84	157.2