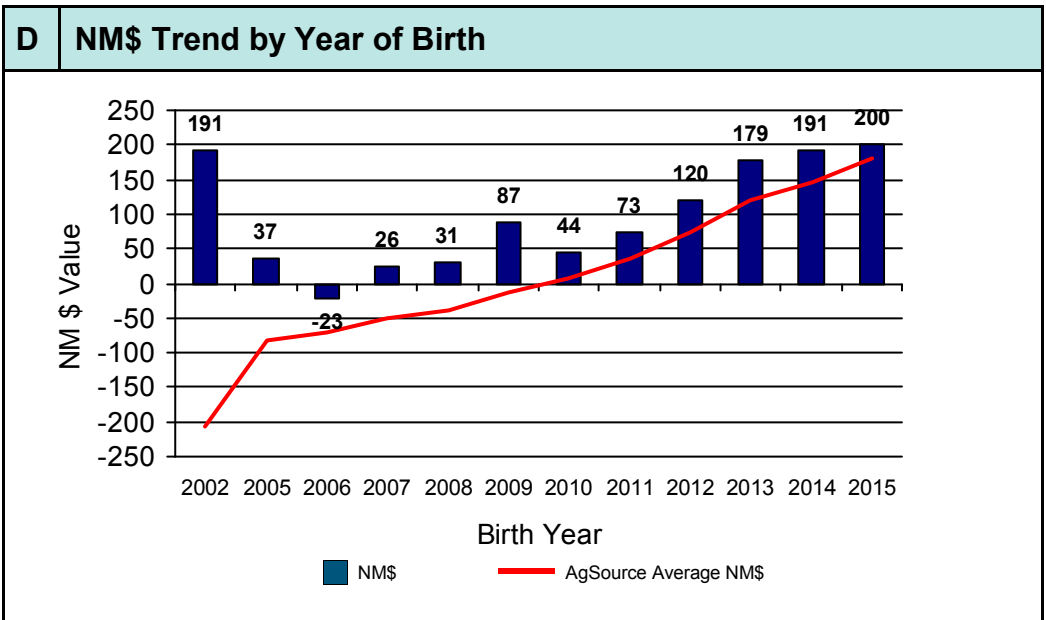
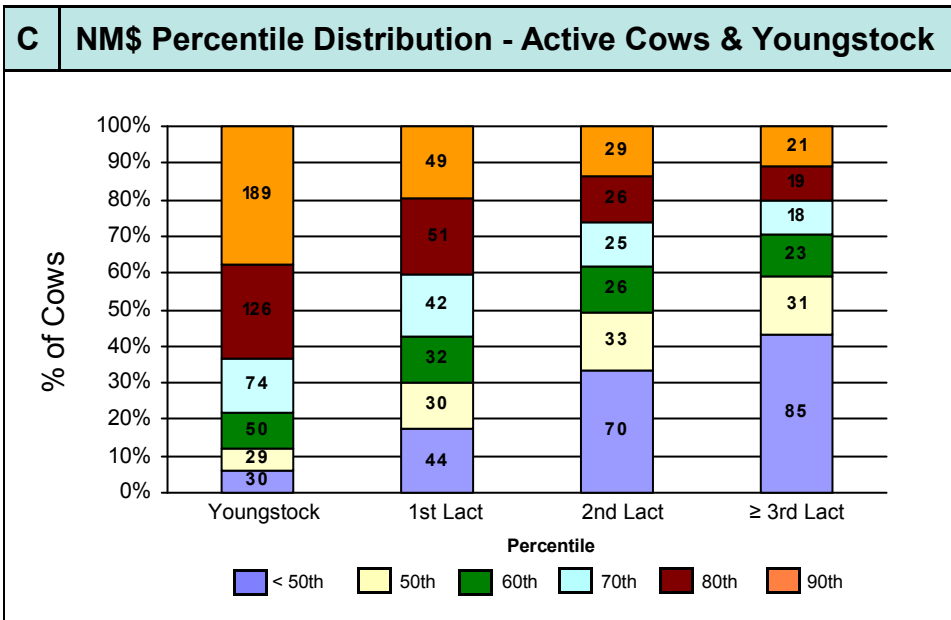
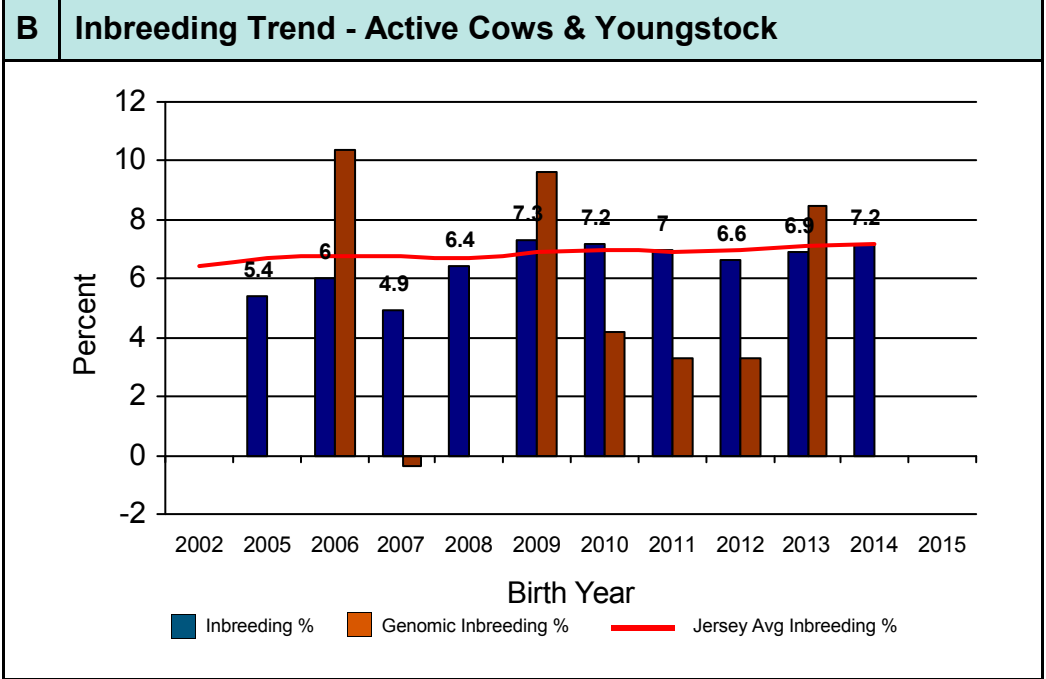
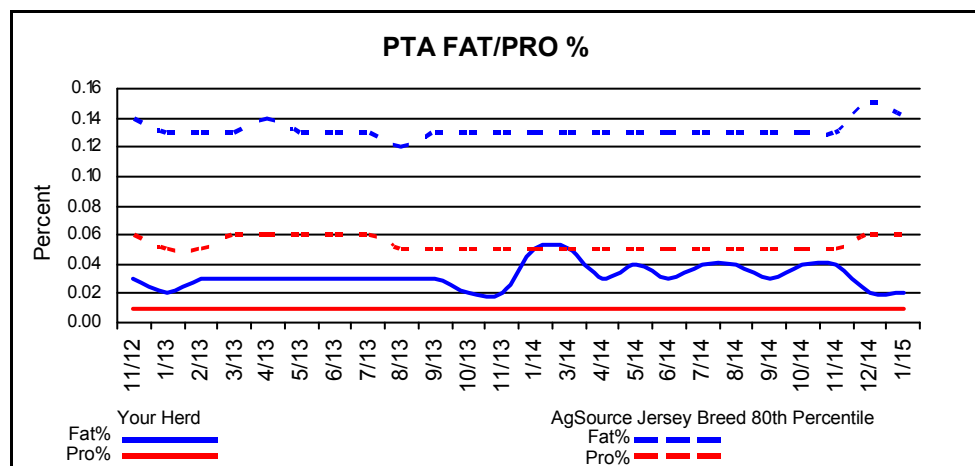
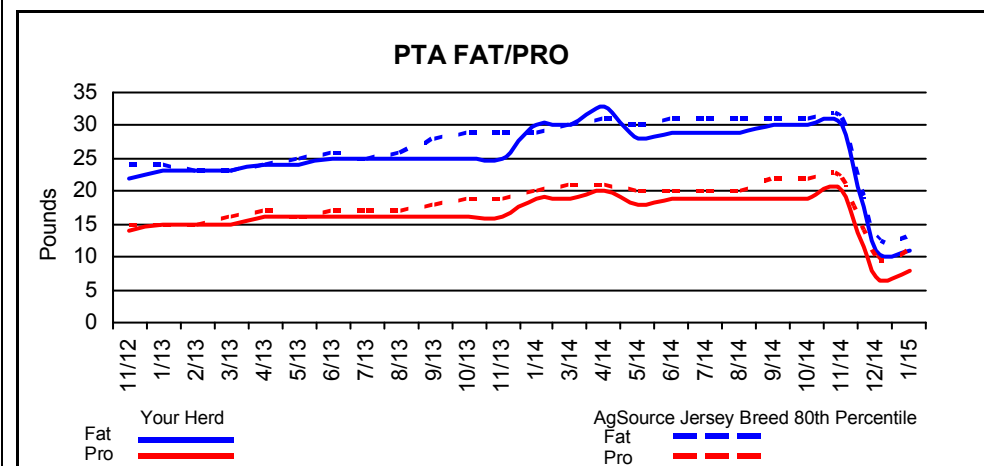
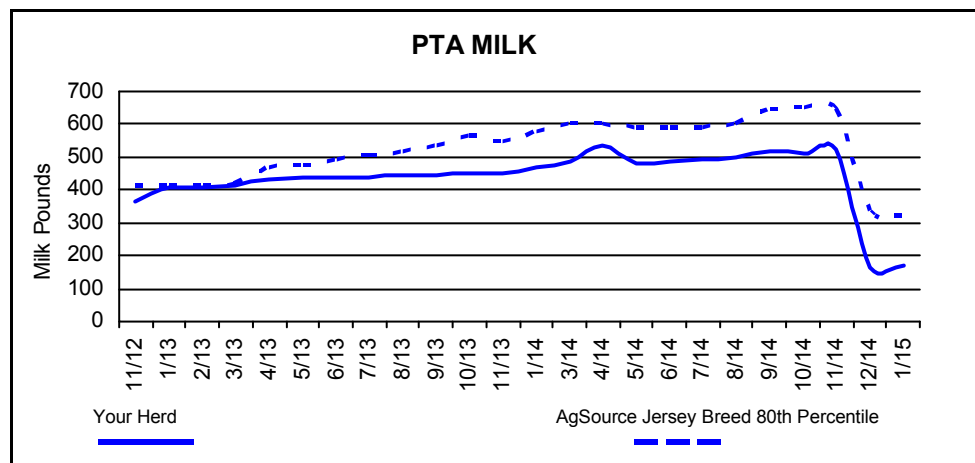
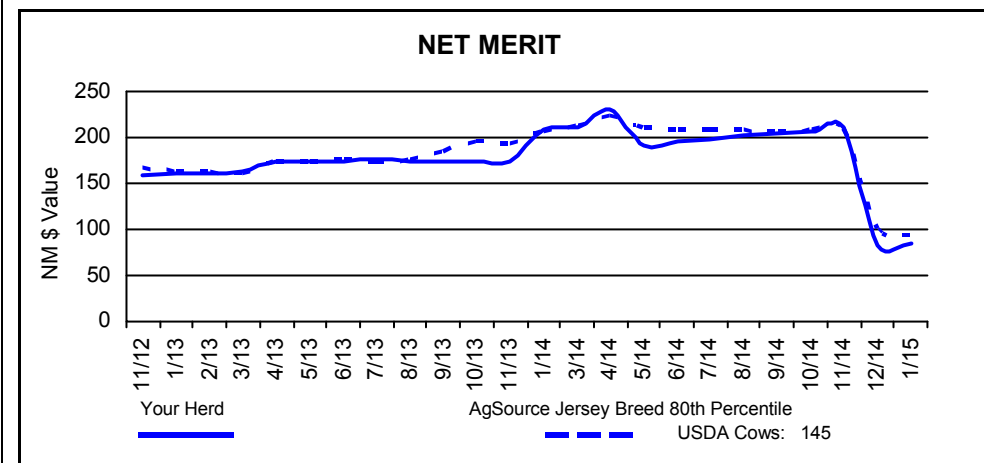


December proofs have some big changes. They will be reflected in the values on the genetic reports that you receive. There have been changes in the Net Merit and Cheese Merit formulas, and 3 of the major Breed Indexes. On top of that, there has also been a base change. As you review your reports, remember that you will not be able to compare data from previous genetic runs to your current data.

A	Genetic Summary - Active Cows & Youngstock											
	Your Herd	Cows				Your Herd	Youngstock					
		Percentile					Percentile					
	20th	50th	80th	Avg 80th	20th	50th	80th	Avg 80th				
Number	658	13220				758	11786					
NM\$	84	-99	37	160	252	180	13	134	233	316		
CM\$	89	-99	41	168	258	187	18	142	243	322		
FM\$	73	-102	26	141	247	161	-3	114	210	307		
PTA Milk	170	-526	-1	444	973	346	-268	151	523	814		
PTA Fat	11	-16	4	22	34	21	0	16	28	36		
PTA Fat %	0.02	-0.08	0.02	0.13	0.19	0.03	-0.04	0.05	0.13	0.19		
PTA Pro	8	-13	3	15	26	14	-2	10	20	27		
PTA Pro %	0.01	-0.03	0.01	0.06	0.08	0.01	-0.01	0.02	0.06	0.08		
PTA SCS	2.98	3.07	2.98	2.89	2.81	2.90	3.05	2.97	2.87	2.54		
PTA PL	0.5	-1.2	0.3	1.8	2.7	1.6	-0.2	1.2	2.4	3.1		
PTA DPR	0.1	-1.0	0.2	1.2	2.0	0.0	-1.1	-0.1	1.0	1.8		
Avg Inbred %	6.8	6.3				6.9	6.2					
Avg Fut Inbred %	7.0	6.9				7.1	7.0					



## E Genetic Trend Graphs for Cows by Test Date



## F Semen Type Analysis - Active Cows

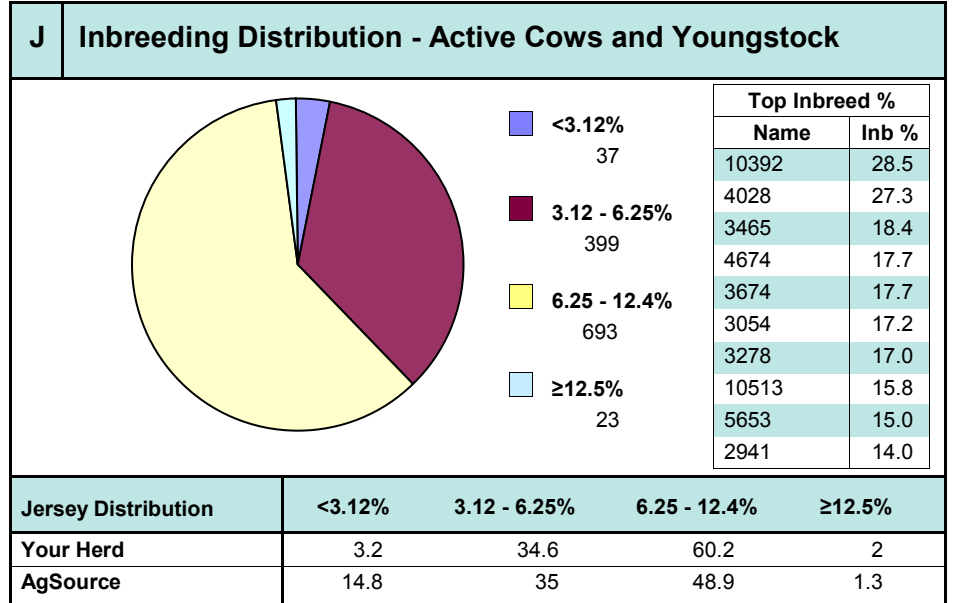
	Conventional	Sexed	Natural / Unk
Num Cows	555	83	80
NM\$	84	105	11
CM\$	89	108	13
FM\$	71	98	6
ME Milk	18557	18813	18816
ME Fat	920	927	895
ME Protein	677	678	667
LSSCC	3.3	3.3	3.2

## G Genomic Evaluation Analysis - Active Cows and Youngstock

	Traditional		Genomic Tested		Imputed	
	Cows	Youngstock	Cows	Youngstock	Cows	Youngstock
Number	543	273	18	1	93	224
NM\$	77	176	125	202	118	168
CM\$	81	183	126	211	125	175
FM\$	65	158	123	179	103	151
Avg Inbr %	6.8	7.0	6.6	8.4	7.1	6.8
Avg Fut Inbr %	7.0	7.2	7.2	7.4	7.0	7.1
Gen Avg Inbr %			4.3	8.5		
Gen Fut Inbr %			6.9	7.5		

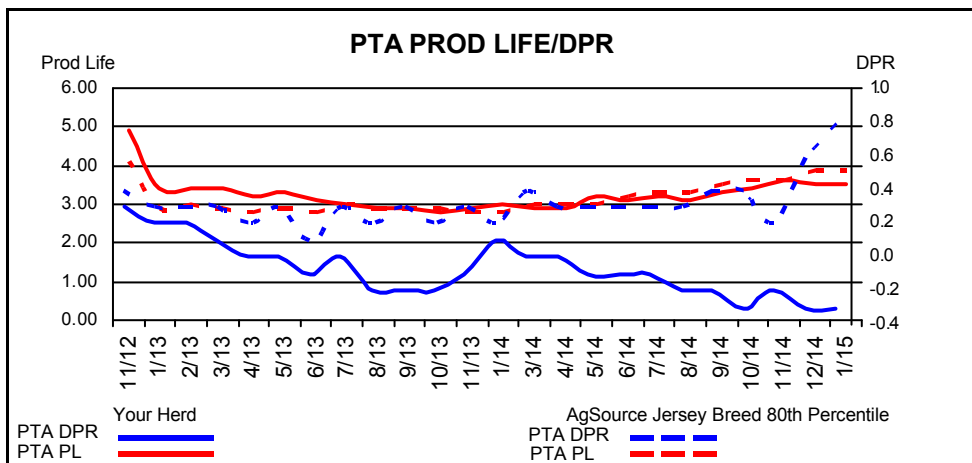
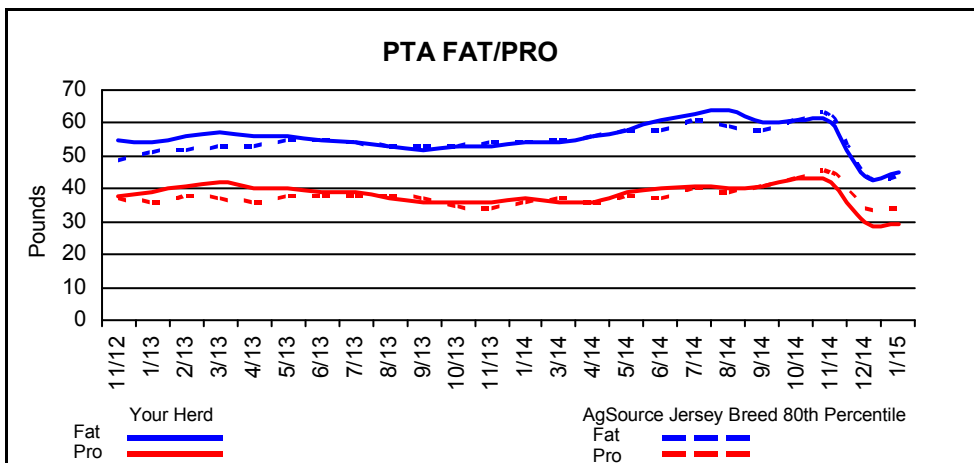
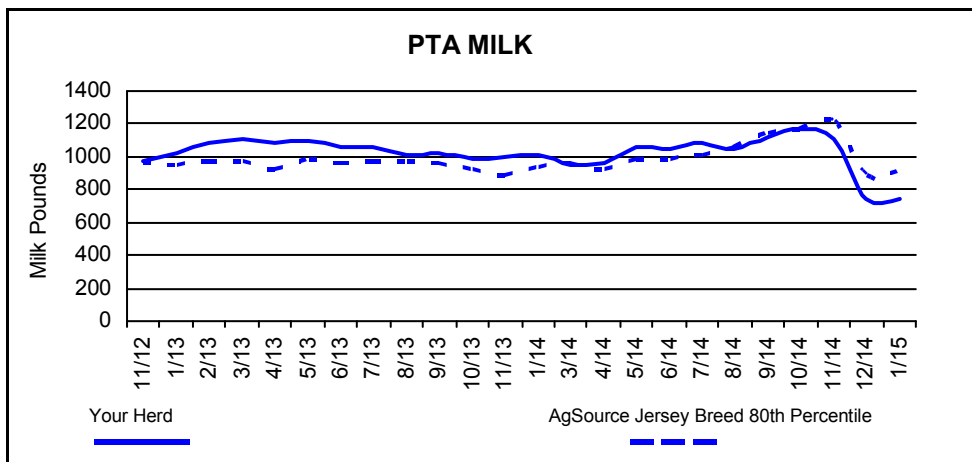
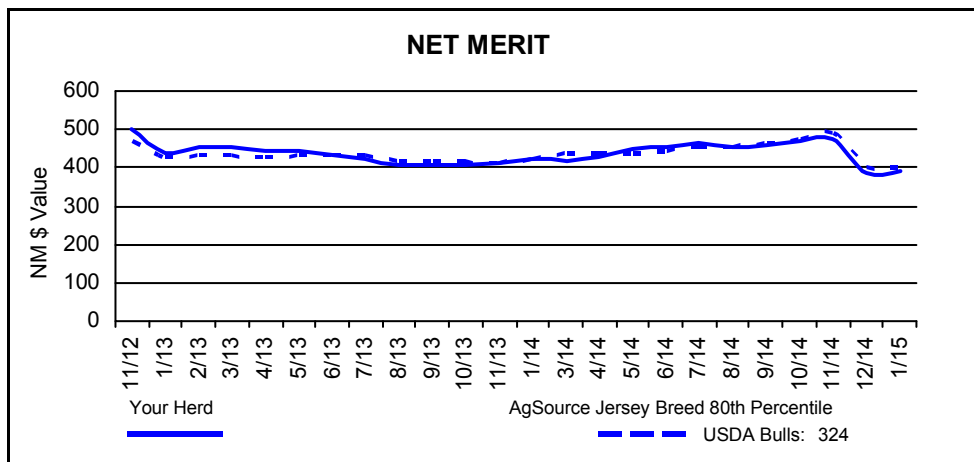
H Genetic and Phenotypic Trend by NM\$ Quartile - Active Cows															
Quartile	Num Cows	NM \$	CM \$	PTA Milk	PTA Fat	PTA Pro	PTA SCS	PTA DPR	ME Milk	ME Fat	ME Pro	LSSCC	Days Open	TCI©	
1	164	228	238	412	25	17	2.94	0.4	19453	953	708	3.0	118	188	
2	164	120	126	237	14	10	2.97	0.2	18747	926	683	3.2	115	-324	
3	164	50	54	110	9	6	2.99	0.0	18601	927	678	3.4	125	-598	
4	163	-61	-62	-82	-3	-3	3.02	-0.2	17647	882	639	3.5	125	-604	

I Most Prevalent Genes - Top Sires based on Cows and Youngstock						
Sire Name	Sire NAAB	Total Genes	# Daughters	# PG Daughters	# MG Daughters	
IMPULS	236JE00003	39.75	21	75	42	
VALENTINO	007JE01038	34.00	29	77	1	
PLUS	001JE00711	32.25	34	53	8	
TBONE	007JE01000	31.50	9	76	32	
HEADLINE	029JE03510	27.50	23	49	15	
BRUNO	001JE00759	25.50	47	0	8	
LEGAL	029JE03506	22.25	4	77	4	
JEVON	029JE03346	21.75	11	29	36	
IATOLA	029JE03301	19.75	8	42	21	
VOLCANO	029JE03762	19.25	37	0	3	
ZEBULON	001JE00767	19.25	34	0	9	
ZAYD	001JE00794	19.00	38	0	0	



K Sire Expression - Top Sires based on Number of Lactating Daughters									
Sire Name	Sire NAAB	# Daughters	NM \$	CM\$	FM\$	ME Milk	ME Fat	ME Pro	LSSCC
GANNON-PR	001JE00604	19	99	88	125	19631	923	678	3.5
IMPULS	236JE00003	18	143	161	100	18260	911	694	3.9
HEADLINE	029JE03510	15	123	109	159	21130	956	712	2.9
VERMEER	001JE00666	11	131	140	110	16559	852	609	4.3
JEVON	029JE03346	11	102	103	101	19695	964	672	3.2
ZEBULON	001JE00767	11	125	139	94	16294	866	617	2.8
FIG	001JE00754	9	147	146	147	17602	841	621	3.7
TBONE	007JE01000	9	17	28	-11	17138	899	680	3.1
APPARITION	001JE06051	9	208	237	141	18853	1051	742	3.2
ABE	122JE05198	8	99	108	76	20424	1005	744	2.5
JACINTO	007JE00667	7	40	40	39	19139	933	695	4.0
LANCE-GR	001JE00763	7	124	122	126	22161	1042	784	3.4

## L Genetic Trend Graphs for Service Sires by Test Date

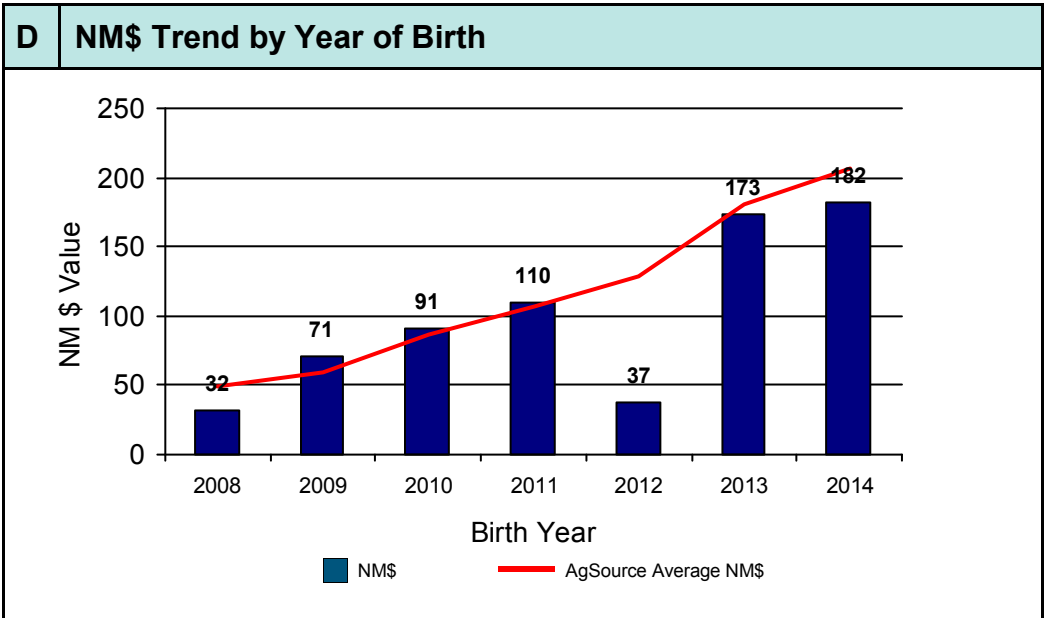
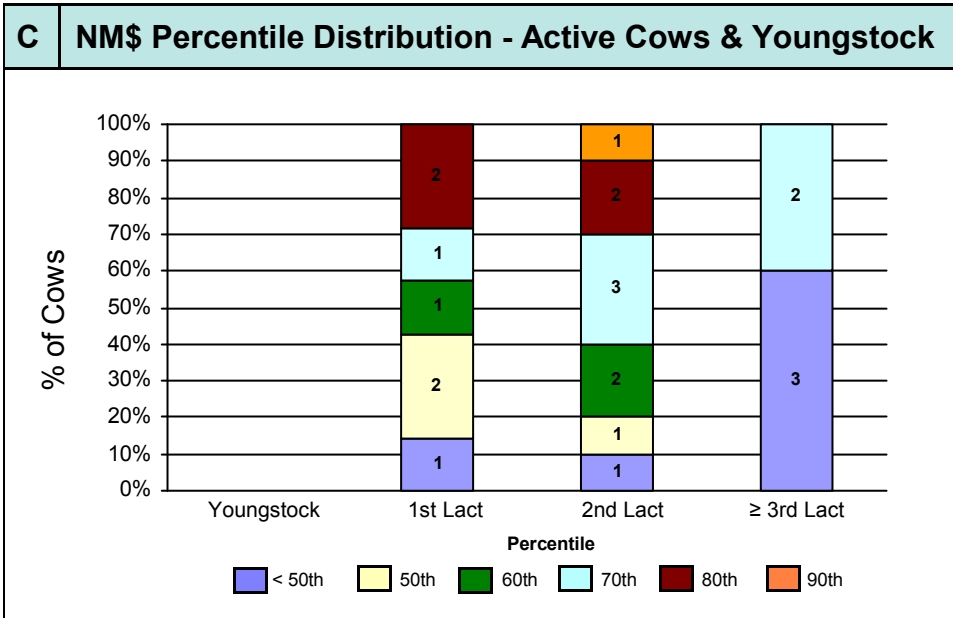
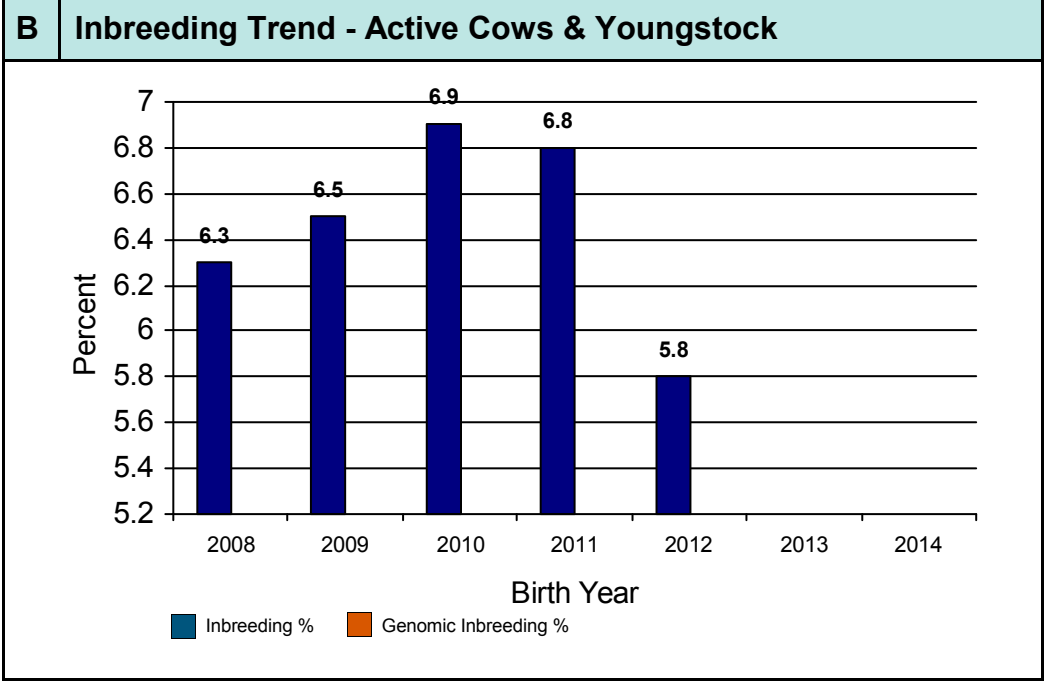


## M Genetic Summary Active Youngstock by Age Group

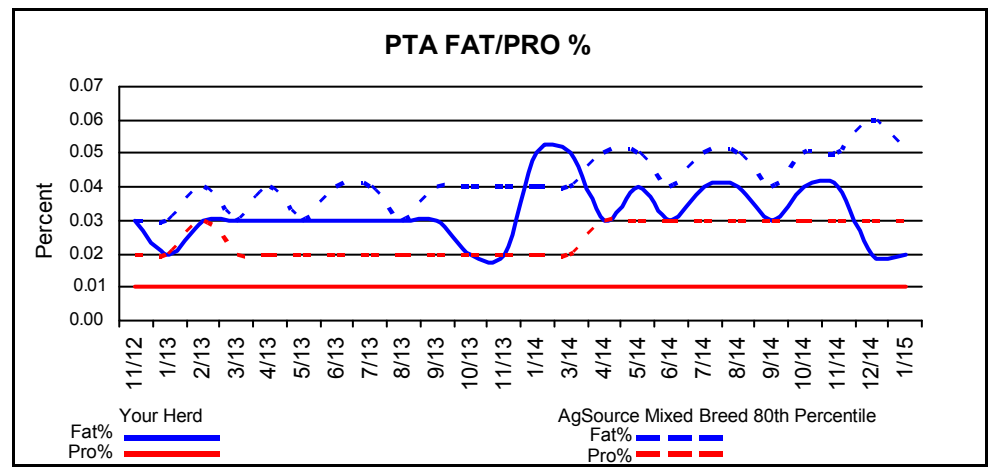
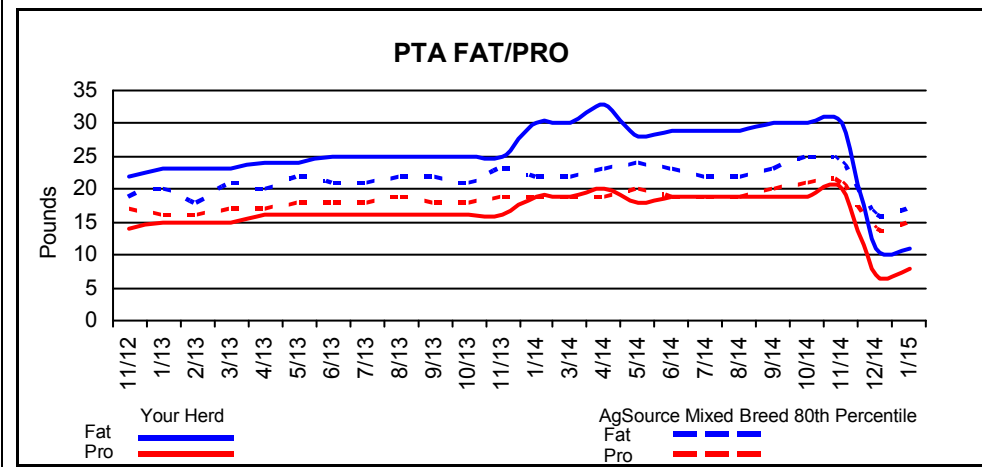
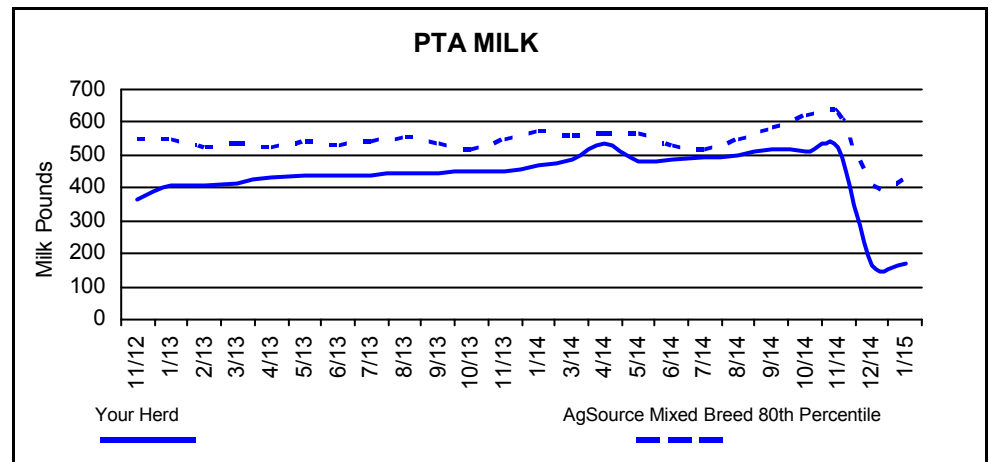
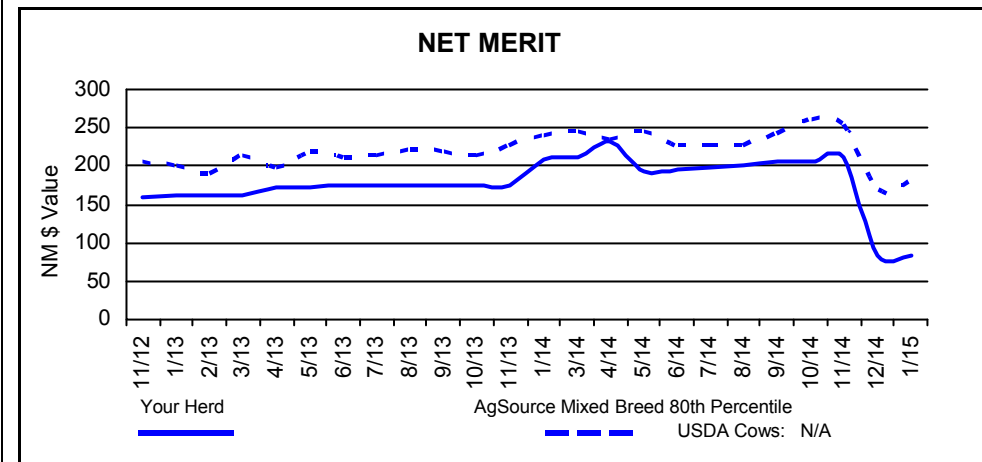
Age Group	# Heifers	# Pregnant	NM \$	CM \$	FM \$	PTA Milk	PTA Fat	PTA Pro	PTA SCS	PTA PL	PTA DPR
< 3 mo	77	0	192	202	170	349	22	14	2.73	1.6	0.0
3 - 5 mo	88	0	195	202	176	339	23	13	2.71	1.7	0.0
6 - 8 mo	96	0	193	201	176	381	23	15	2.94	1.6	0.0
9 - 11 mo	67	0	188	195	169	393	22	15	2.95	1.4	-0.2
12 - 14 mo	109	0	201	207	186	526	24	18	2.92	1.7	-0.5
15 - 17 mo	101	29	180	187	161	356	20	15	2.95	1.6	-0.2
18 - 20 mo	86	61	183	191	165	330	21	14	2.99	1.8	0.2
> 20 mo	122	91	137	145	118	153	17	8	2.97	1.4	0.4

December proofs have some big changes. They will be reflected in the values on the genetic reports that you receive. There have been changes in the Net Merit and Cheese Merit formulas, and 3 of the major Breed Indexes. On top of that, there has also been a base change. As you review your reports, remember that you will not be able to compare data from previous genetic runs to your current data.

A	Genetic Summary - Active Cows & Youngstock										
	Your Herd	Cows				Your Herd	Youngstock				
		Percentile					Percentile				
	20th	50th	80th	Avg 80th	20th	50th	80th	Avg 80th			
Number	22	13996				22	10354				
NM\$	75	-66	73	232	417	169	14	153	308	475	
CM\$	82	-64	80	242	423	179	16	161	318	483	
FM\$	56	-76	57	217	410	145	3	133	285	461	
PTA Milk	164	-462	16	626	1380	228	-178	195	663	1128	
PTA Fat	12	-11	6	26	49	22	-2	14	32	46	
PTA Fat %	0.01	-0.06	0.01	0.09	0.14	0.06	-0.04	0.02	0.08	0.12	
PTA Pro	9	-10	3	20	40	12	-2	10	24	37	
PTA Pro %	0.01	-0.03	0.01	0.04	0.07	0.02	-0.02	0.01	0.04	0.06	
PTA SCS	2.97	3.08	2.98	2.86	2.77	2.93	3.04	2.94	2.77	2.40	
PTA PL	-0.1	-0.8	0.8	2.5	3.9	1.3	-0.2	1.4	2.8	3.8	
PTA DPR	0.3	-0.4	0.8	2.2	3.3	0.3	-0.4	0.6	1.7	2.5	
Avg Inbred %	6.5	4.7					5.9				
Avg Fut Inbred %	7.0	6.0					6.9				



## E Genetic Trend Graphs for Cows by Test Date



### F Semen Type Analysis - Active Cows

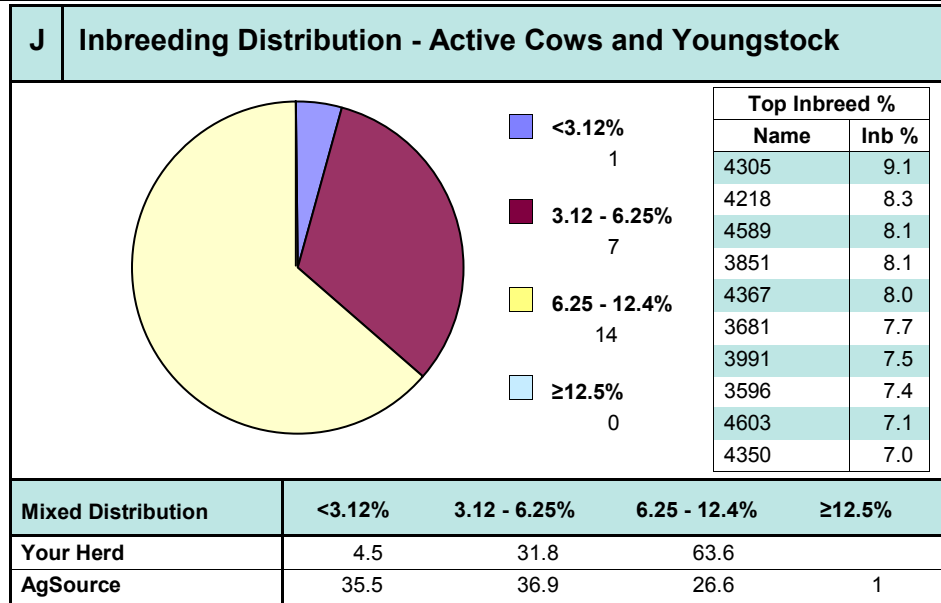
	Conventional	Sexed	Natural / Unk
Num Cows	21	2	
NM\$	72	97	
CM\$	80	104	
FM\$	54	80	
ME Milk	19241	19150	
ME Fat	984	887	
ME Protein	697	650	
LSSCC	3.0	3.2	

### G Genomic Evaluation Analysis - Active Cows and Youngstock

	Traditional Cows	Traditional Youngstock	Genomic Tested Cows	Genomic Tested Youngstock	Imputed Cows	Imputed Youngstock
Number	22					
NM\$	75					
CM\$	82					
FM\$	56					
Avg Inbr %	6.5					
Avg Fut Inbr %	7.0					
Gen Avg Inbr %						
Gen Fut Inbr %						

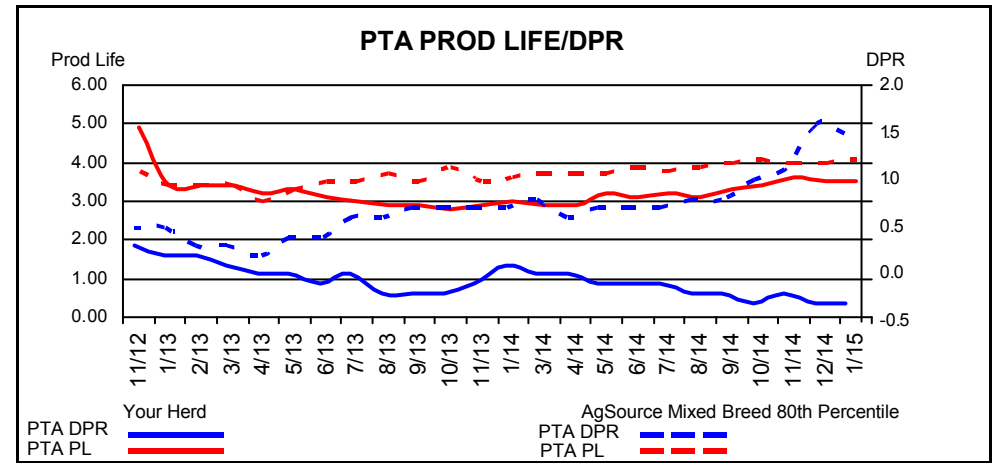
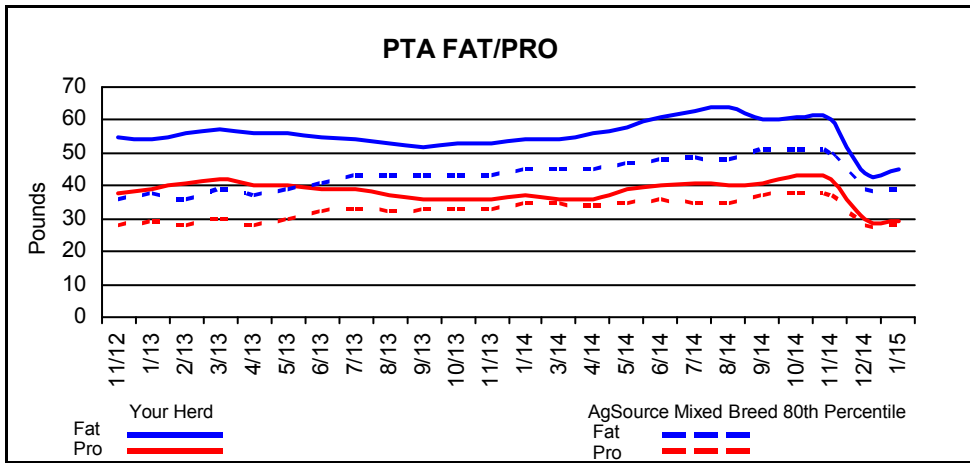
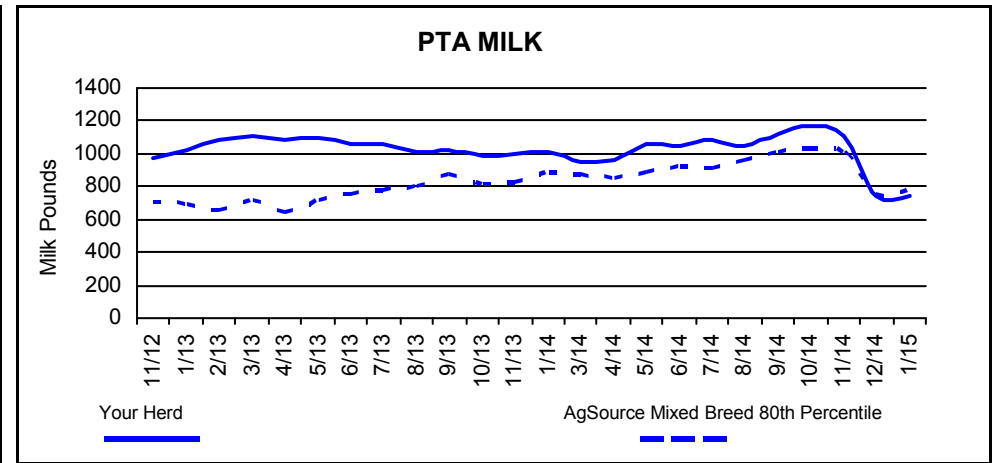
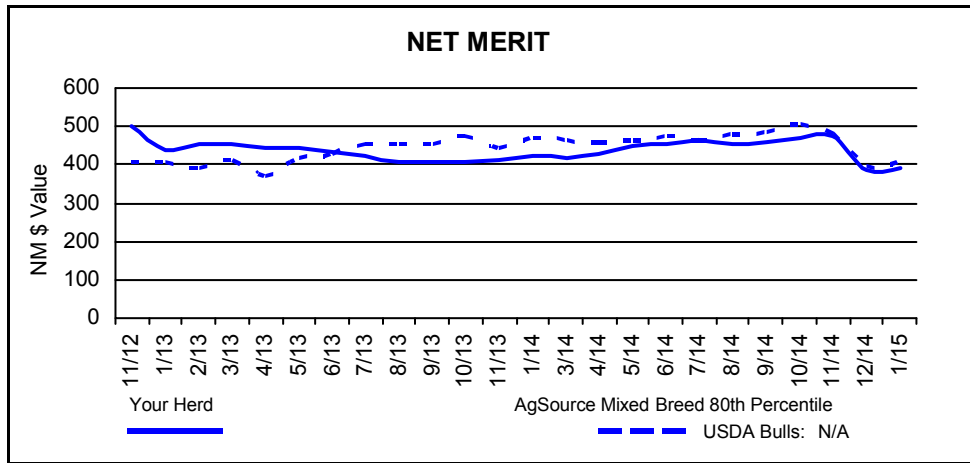
H Genetic and Phenotypic Trend by NM\$ Quartile - Active Cows														
Quartile	Num Cows	NM \$	CM \$	PTA Milk	PTA Fat	PTA Pro	PTA SCS	PTA DPR	ME Milk	ME Fat	ME Pro	LSSCC	Days Open	TCI©
1	6	171	180	369	24	15	2.91	0.4	20418	1025	726	2.9	133	-3362
2	6	114	126	180	19	12	2.96	0.2	19032	1033	715	2.9	134	-2491
3	5	60	64	355	10	14	3.02	-0.3	18770	958	683	3.3	133	-975
4	5	-74	-69	-290	-8	-6	2.99	1.0	18408	893	651	3.0	122	-1559

I Most Prevalent Genes - Top Sires based on Cows and Youngstock						
Sire Name	Sire NAAB	Total Genes	# Daughters	# PG Daughters	# MG Daughters	
IATOLA	029JE03301	1.75	1	2	3	
BRUNO	001JE00759	1.50	3	0	0	
TBONE	007JE01000	1.50	0	6	0	
IMPULS	236JE00003	1.50	0	4	2	
DOMINICAN	001JE00770	1.25	2	1	0	
ALLSTAR	001JE00654	1.25	1	0	3	
BARLOW	007JE01045	1.00	1	0	2	
BRIGADE	007JE00976	1.00	1	0	2	
JACINTO	007JE00667	1.00	0	2	2	
POLO	200JE00159	1.00	1	0	2	
GANNON-PR	001JE00604	1.00	1	0	2	
HAPPY	007JE00941	1.00	1	0	2	



K Sire Expression - Top Sires based on Number of Lactating Daughters									
Sire Name	Sire NAAB	# Daughters	NM \$	CM\$	FM\$	ME Milk	ME Fat	ME Pro	LSSCC
VINCE	001JE00718	1	110	121	80	19621	971	739	3.3
BRIGADE	007JE00976	1	110	135	51	20013	1078	774	2.1
OUR-P	001JE00705	1	-30	-41	-7	16424	788	569	4.1
ALLSTAR	001JE00654	1	155	165	131	14423	751	495	3.7
STONE	001JE00634	1	39	43	28	23877	1023	804	2.7
LOUIE	007JE00738	1	119	125	103	20742	1117	763	2.7
IATOLA	029JE03301	1	32	34	27	19075	983	661	2.2
DAWSON	007JE01137	1	143	152	121	20069	1094	718	3.8
POLO	200JE00159	1	184	194	160	21185	1132	763	3.6
GANNON-PR	001JE00604	1	35	28	51	17401	923	605	4.6
HAPPY	007JE00941	1	32	13	77	18257	903	660	3.5
HOUSA000001801130	007HO01148	1	-412	-362	-527	14622	691	537	2.6

## L Genetic Trend Graphs for Service Sires by Test Date



## M Genetic Summary Active Youngstock by Age Group

Age Group	# Heifers	# Pregnant	NM \$	CM \$	FM \$	PTA Milk	PTA Fat	PTA Pro	PTA SCS	PTA PL	PTA DPR
< 3 mo	2	0	193	208	159	120	32	12	2.55	1.3	-0.1
3 - 5 mo	2	0	165	163	169	365	10	9	2.93	2.1	1.3
6 - 8 mo	4	0	174	186	146	229	22	12	2.90	1.4	0.6
9 - 11 mo	3	0	202	212	178	279	21	13	2.95	1.7	0.4
12 - 14 mo	3	0	139	145	125	429	30	16	3.01	0.1	-1.5
15 - 17 mo	2	2	142	152	118	252	18	13	2.97	0.9	0.7
18 - 20 mo	1	1	176	203	112	-256	19	7	2.96	2.3	0.2
> 20 mo	5	2	165	176	139	150	21	11	3.00	1.5	0.8