

**Update on Contractural Arachnodactyly**  
**July 26, 2010**  
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**University of Illinois**

After more than a year of research aimed at identification of the mutation causing Contractural Arachnodactyly (CA; formerly Fawn Calf Syndrome), we are pleased to have finally completed our work. In review, CA is a genetic abnormality that is inherited as a simple recessive. A detailed description of the phenotype associated with CA can be found at <http://www.dpi.nsw.gov.au/agriculture/livestock/health/specific/cattle/ca-angus>. The genetic inheritance has been shown by several methods including experimental matings conducted by Australian researchers in 2004 as well as subsequent matings in 2008. In early 2009, a number of US breeders provided samples of affected calves that from pedigree information also demonstrated recessive inheritance and implicated the same common ancestor as in Australia. This was further established by using DNA from affected calves to map the gene responsible to a unique chromosomal position where all affected calves were homozygous for the same DNA segment.

In an effort to find the specific mutation within this chromosome segment that causes CA, numerous genes were selected for analysis based on their biological function and relationship to the pathology that had been described. In the end, DNA sequences were analyzed for more than 40 genes using DNA from known normal, known carrier and affected calves. In late summer of 2009, it was discovered that one of these genes had a large deleted DNA segment in CA-Affected calves. From that time, we have spent tremendous effort and resources to fully characterize this deletion so that an accurate DNA test could be developed. The most difficult aspect of this work was obtaining the complete and correct DNA sequence of this gene as well as sequences adjacent to the gene. Much of this sequence had to be generated *de novo* as both cattle genome assemblies are incomplete for this region of the genome. Furthermore, the DNA sequence is highly repetitive in content and contained a large, nearly identical duplicated segment of the gene causing CA. On June 8, 2010 we finally completed the correct assembly of the DNA sequence.

Using this DNA sequence we initiated the development of several DNA tests that were based on the specific mutation, a deletion of ~54,450 base pairs of the gene. Due to the probable mechanism behind the deletion and the high similarity of the duplicated DNA sequences, we first attempted an assay that was able to quantify the number of copies of a specific DNA sequence that an individual possesses, called a copy number variation assay. This assay was based on the fact that CA-Free (**CAF**) individuals would have two copies of

the DNA sequence, CA-Carrier (**CAC**) animals would only have one copy, and affected calves would not have the DNA sequence. Initially this assay worked quite well, but as more samples were processed it was clear that many DNA samples were producing ambiguous results. Thus, although the results were 100% accurate for all unambiguous genotypes, up to 15% of the animals could not be readily genotyped.

A second more conventional assay was also developed that after several hundred animals also produced false positive test results for specific pedigrees. Finally, a third assay was developed that accomplishes our goal of 100% accurately determining the genotype of individuals for CA. This assay has been used on a total of 3,336 animals as of July 23, 2010. As with previous genetic defects we have attempted to assess the allele frequency of this mutation in the Angus breed. The best population to accomplish this is a nearly random sampling of the breed; in this case a large number of AI sires provided to us from members of the National Association of Animal Breeders. Although, this group of animals is not completely random it is sufficient for accurately estimating the allele frequency while at the same time providing information on many animals that have significant influence on the total population. To date, we have screened 1,256 AI sires and identified 39 bulls that are CA-carriers. This corresponds to a heterozygote frequency of ~3.1% and an allele frequency of ~1.5%.

During the past year there has been some debate over how CA should be classified as a genetic defect. As described previously (see URL above), many CA-Affected calves do survive and can eventually reach reproductive age. Thus, there has been some advocacy to treat CA differently than previous abnormalities like AM and NH. To address this question as well as firmly establish the impact of this specific mutation, we screened an additional 2,080 animals that were specifically requested for their high pedigree risk of CA (i.e., highly biased toward an increased frequency of the mutation). Of these, 1,788 were CA-Free and 292 were CA-Carriers (~14%), none were homozygous for the mutation. Under population equilibrium, we would have expected to identify up to ten homozygous individuals if this mutation had no effect on the survivability of these individuals. Statistically, this is significantly different than expected ( $p=.0026$ ) suggesting that CA behaves as a lethal genetic defect at the population level.

In regard to accuracy of the test, we believe it to be accurate from a scientific perspective. This means that when performed properly, the detection of this specific mutation will correctly classify an individual's status 100% of the time. However, this being true, we will still perform an additional blind validation test when the samples are collected and provided to us. This validation is being conducted with the assistance of Dr. Laurence

Denholm and will be conducted with samples of known genotypes from Australia and New Zealand. When this is completed we will provide another update, but will reiterate that the results that accompany this description are 100% accurate.

Finally, as we complete our work, we will begin to go through the process of making the CA test commercially available. We anticipate this will be completed within the next month. Additionally, we expect that this test can be offered at a similar cost to those of AM and NH.

<b>Registration Number</b>	<b>Name</b>	<b>CA Status</b>
2719761	Skylandmere 2058	CAF
5770651	R R Rito 707	CAF
6810901	Rito 707 of Ideal 533 70	CAF
7530738	Band 602 of Ideal 928 72	CAF
7795918	Jetliner 707 of Conanga	CAF
7954685	Basin Q Bar 163	CAF
8568264	Premier Progressor	CAF
9250717	Q A S Traveler 23-4	CAF
9894245	Pine Drive Big Sky	CAF
9958208	Premier Independence K N	CAC
10151760	Walridge I R S	CAF
10226429	Scotch Cap	CAF
10239760	Paramont Ambush 2172	CAF
10312571	Basin Emulation 5653	CAF
10566557	R&J Spade 1204	CAF
10705768	R R Traveler 5204	CAF
10717881	G D A R Rito 596 L T	CAF
10776479	N Bar Emulation EXT	CAF
10809778	S A F Power Fix	CAF
10835815	Shady Brook Superstar	CAF

10842597	Gorthy of Graham 18866	CAF
10845727	G D A R Equalizer 6148	CAF
10848959	Hoff Esso S C 433	CAF
10889102	S S Traveler 6T6	CAF
10936090	O Confluence 2417	CAF
10988296	G D A R Traveler 71	CAF
10990965	Hoff Dallas FT Worth S C 456	CAF
11072078	Rito 8E8 of 5H11 Traveler	CAF
11080188	G C C Broker	CAF
11086635	Med Rock Traveler JR	CAF
11104267	Bon View Bando 598	CAC
11105489	V D A R New Trend 315	CAF
11107151	Nugget 801X of J R S	CAF
11121512	Summitcrest Traveler X044	CAF
11124399	Summitcrest Sasquatch 150X	CAF
11138672	Hoff Northlander S C 6029	CAF
11138705	Hoff Spade Flush S C 678	CAF
11138729	Hoff Hi Hand S C 654	CAF
11138801	Hoff Bold Scotch S C 491	CAF
11160685	G T Maximum	CAF
11160688	G T Expo	CAF
11194446	Patton Enticer	CAF
11196470	Schoenes Fix It 826	CAF
11216670	Ginger Hill Duster 89	CAF
11223766	Rito 9FB3 of 5H11 Fullback	CAF
11270134	Landmark Bando 912	CAF
11278961	G D A R Traveler 9161	CAF
11279048	G D A R Centennial 911	CAF

11288972	Hoff Balancer S C 7109	CAF
11297283	Hoff Hi Flyer S C 7134	CAF
11314692	R&J Cruz 109	CAF
11314694	R&J Maxima	CAF
11335168	O C C Maternal Trend 725Y	CAF
11356568	G A R Sleep Easy 1009	CAF
11356596	G A R Traveler 1489	CAF
11367940	Sitz Traveler 8180	CAF
11391800	Westwind Rito 8503 D J H 019	CAF
11408407	Finks Future Trend	CAF
11424367	Basin E Z	CAF
11424642	Basin Rainmaker 814Z	CAF
11438436	Pro Trend 9042 L W	CAF
11447288	G D A R Wham 021	CAF
11447335	G D A R Traveler 044	CAF
11447845	L R A New Trend 360	CAF
11449960	TC Influence	CAF
11451070	Woodhill Valor	CAF
11451073	Woodhill Triple Threat	CAF
11478173	R&J Maternal Power 270	CAF
11517594	G C C Grizz 0065	CAF
11520477	G A R Ambush 1690	CAF
11527064	Rito 1B1 of 5H11 Bando	CAF
11527181	Rito 1H13 of 5C7 Rito 9J9	CAF
11553377	N Bar Cornhusker Y2741	CAF
11556105	S V F Hi Road	CAF
11563543	V D A R New Trend 802	CAF
11567326	V D A R Lucys Boy	CAF

11577350	Whitestone Equity	CAF
11581539	Hyline S V F Rito 1116	CAF
11592069	V D A R Traveler 722	CAF
11594860	Hoff Triumph S C 927	CAF
11595790	Hyline Travel Agent	CAF
11618176	Minerts Fortune 2000	CAF
11618631	Tehama 5204 Trav 565	CAF
11620571	R R 9440 Scotch Cap 1483	CAF
11626546	Ideal 1418 of 8103 4286	CAF
11640955	W F A Four Point Four	CAF
11644573	S E Bando 111	CAF
11656252	Rito 2E2 of 9FB2 Traveler	CAF
11672313	Becker Farms Pompey 118	CAF
11684971	O C C Anchor 771A	CAF
11691408	Rito 2RT2 of 0B5 RR Traveler	CAF
11702184	S A Double Power 1002	CAF
11741609	Walridge Linard 1343	CAF
11741667	Leachman Conveyor	CAF
11747039	S A F Neutron	CAF
11779097	Mill Coulee Performer 224	CAF
11783725	Summitcrest Hi Flyer 3B18	CAF
11789903	Danina Northerner	CAF
11798133	R A Performer	CAF
11832272	Stone Gate Quantum 61	CAF
11847053	Summitcrest Scotch Cap 0B45	CAF
11872308	G A R Bingo 4192	CAF
11879002	Rito 3B17 of 0G10 Bando	CAF
11880388	Rito 3W3 of 0J2 Rito 9FB3	CAF

11887141	Nichols Easy Way 428	CAF
11889421	C S U Aggie Emulation 2144	CAF
11901155	Bon View Emulation Ext 473	CAF
11909809	Rito 3X17 of Rita 9FB2 Ext	CAF
11924057	Spring Cove True Value	CAF
11927423	Whitestone Traveler 2149	CAF
11927444	Whitestone Fly Traveler 3006	CAF
11927922	Ankonian Titleist	CAF
11935889	S A F Fame	CAF
11935897	S A F Easy Fortune	CAF
11941847	Stevenson Fortune 425C	CAF
11944998	Car Don Precision B274	CAF
11947213	Leachman Explorer	CAF
11951654	Basin Max 602C	CAF
11952559	O C C Broadside 876B	CAF
11965748	Umf Action of Wye 7090	CAF
11967378	Rito 3M2 of 5H11 GT Maximum	CAF
11973186	V F Venture Forward	CAF
11973368	Woodhill Supreme	CAF
11983127	Brooks Dividend 336	CAF
11983278	Brooks Premium 302	CAF
11994557	TC Bonus	CAF
12007667	Gardens Prime Time	CAF
12019395	G T S V F Treasury	CAF
12038475	Stevenson Royce 741C	CAF
12048084	B C C Bushwacker 41-93	CAF
12075716	Leachman Saugahatchee 3000C	CAF
12077888	Rito 4X2 of Rita 1R52 Ext	CAF

12078010	Rito 4U3 of 2TX1 Rito 2RT2	CAF
12079809	G A R Evas Prescription 4553	CAF
12079812	G A R Evas Consistence 3803	CAF
12084043	R C C Sir Roy 308	CAF
12090174	S A Neutron 2164	CAF
12096699	B F Raindancer 012 306	CAF
12108043	Leachman Bushwhacker	CAF
12108074	Leachman Booster	CAF
12111867	Ankonian Union	CAF
12126334	Bon View Balance 834	CAF
12127839	One Way E308	CAF
12130262	Bon View Bando 1394	CAC
12139259	Thomas Latigo	CAF
12155777	S A F Choice Plus	CAF
12162865	BT Direction 65D	CAF
12166857	Gardens EXT 4137 S2	CAF
12170322	Woodhill Crossfire	CAF
12170393	Woodhill Natural	CAF
12174018	Mill Coulee 6807-423	CAF
12176446	Alberda Traveler 416	CAF
12177814	Mr Wix of Mc Cumber 204	CAF
12189371	G T Sentry	CAF
12194989	Plowman 1627 of Millbrae SAR	CAF
12200110	Larks Canyon 74D4	CAF
12222286	Homestead Blockbuster 409	CAF
12223258	J L B Exacto 416	CAF
12223857	L F New Trend 4100	CAF
12227155	Brusett Mayor 59	CAF



12237440	Rito 505 of Rita 1R3 Ambush	CAF
12241684	Butchs Maximum 3130	CAF
12249849	C T R Double Take 400	CAF
12257225	R R Ferdinand 758D	CAF
12270349	G T Triple Band	CAF
12284312	Emulation Easy 85X	CAF
12296482	C S U Aggie Ambush 4109	CAF
12304120	G A R 6807 Traveler 4144	CAF
12306217	Rito 5TR8 of Rita 3X12 RRT	CAF
12309327	GDAR SVF Traveler 234D	CAF
12326204	S A F Banker	CAC
12332525	Walridge Tradition	CAF
12333453	Basin Ambush 3905	CAF
12337342	TC Linebacker 530	CAF
12344131	Boyd Mainstream 5006	CAF
12345052	Diamond Rainmaker 154E	CAF
12346200	Twin Valley Precision E161	CAF
12350821	S A F 598 Bando 5175	CAC
12374740	O C C Discovery 918D	CAF
12376229	O C C Doctor 940D	CAF
12392161	VDAR KA Legacy	CAF
12395305	Congaree Sleep Easy E27	CAF
12396224	B T Ultravox 297E	CAF
12396365	Rockn D Ambush 1531	CAF
12422806	Gibb Illini	CAF
12430389	Hoff Ultra S C 108	CAF
12448729	A A R Really Windy 1205	CAF
12449151	Magic Meadow Country Boy B50	CAC

12452829	B A R Ext Traveler 205	CAF
12455165	K C Prime Time 6029 95	CAF
12462818	R R Daquantae 789E	CAF
12493607	C A Future Direction 5321	CAF
12502030	S S Traveler 6807 T510	CAF
12505904	Leachman Conveyor 3025E	CAF
12514348	O C C Emblazon 854E	CAF
12514349	O C C Echelon 857E	CAF
12518180	R C C Marathon 510	CAF
12527924	Whitestone Precision H141	CAF
12528428	Sitz Intensifier 8206	CAF
12530601	Rito 6I6 of 4B20 6807	CAF
12548426	G A R Enhancer 5365	CAF
12557724	N Bar Prime Time D806	CAF
12559758	TC Supreme Vision 691	CAF
12564177	Bon View Spectrum 1176	CAF
12569815	B/R New Design 036-631	CAF
12578945	B C C Lariat 6Z1 of B749	CAF
12597077	PLS Rawhide F405	CAF
12618076	S A F Focus of E R	CAF
12619399	T C A Engineer	CAF
12619909	S S Ambush Advantage 14F	CAF
12670840	Circle A 216 LTD 6517	CAF
12672258	Dalebanks Extender 6012	CAF
12677801	Woodhill Riptide 823-606	CAF
12689078	Gardens Expedition	CAF
12693793	Connealy Frontline	CAF
12696111	Younkin Triumph 4966	CAF

12698439	G A R Explosive 6313	CAF
12738228	Davis Prime	CAF
12740561	Millcreek Diversity	CAF
12747805	Stevenson Rolling Thunder	CAF
12753461	Connealy Vision 63	CAF
12755998	Sitz Value 7097	CAF
12760345	S A Neutron 377	CAF
12781813	C S U Optimum Traveler 7123	CAF
12783078	TC Advantage	CAF
12783540	Bon View New Design 1407	CAF
12799597	Champion Hill B52 Traveler	CAF
12810445	Stevenson Bruno 561G	CAF
12810693	Vermilion Dateline 7078	CAF
12811512	N Bar Emulation Ext A1747	CAF
12813090	N Bar Bando 598 X4127	CAF
12829295	L L F Gilreath Trendsetter	CAF
12835604	P A R B Design Plus 97	CAF
12837915	Barretts Solution	CAF
12862009	A&b Yukon 7150	CAF
12871926	Dameron P V F Raptor 702	CAF
12881292	Brooks Ext 792	CAF
12885964	O C C Freightliner 916F	CAF
12893612	Connealy Leadtime	CAF
12911472	Perry Power Design 715	CAF
12915498	Summitcrest Prime Cut 1G42	CAF
12920200	G A R Exacto 5687	CAF
12939895	F A F Resolve 167	CAF
12955187	Equity of P A R	CAF

12996570	Sitz Reliant 8898	CAF
13009379	C R A Bextor 872 5205 608	CAF
13026915	Connealy Bottomline	CAF
13026916	Connealy Freightliner	CAF
13039059	J R Something Special	CAC
13044574	Bon View New Design 208	CAC
13047487	Gardens Highmark	CAF
13050780	Boyd New Day 8005	CAF
13054003	Northern Improvement 4480 GF	CAF
13058662	Hyline Right Time 338	CAF
13062750	Bon View New Design 878	CAF
13066872	Ideal 7451 of 8103 4465	CAF
13080972	Three Trees Everready C55D	CAF
13090574	P A R B Diamond Design 258	CAF
13092912	O C C Great Plains 943G	CAF
13103836	S S Decatur 55H	CAF
13113153	Creekstone Austin LTD 812	CAF
13122485	Summitcrest High Prime 0H29	CAF
13163485	SVF Siebrings Forever Russ	CAF
13169229	Connealy Forefront	CAF
13183408	War Hall of Fame 8023	CAF
13200618	G A R Pinnacle	CAF
13205097	White Oak Precise 6002	CAF
13207590	Nichols Extra H6	CAF
13213164	S S Traveler T510 8T4	CAF
13221587	Feltons Meat Packer 62	CAF
13235197	O C C Homer 650H	CAF
13246306	Fountains Fortress 52	CAF

13254554	G A R Grid Maker	CAF
13254727	G A R Paramount	CAF
13274945	W C C Handyman H457	CAF
13282661	E X A R Scotch Cap 816	CAF
13284421	R P Bushwacker 3 944	CAF
13286230	B/R New Design 323-9150	CAF
13286246	B/R Destination 727-928	CAF
13288602	Basin Max 104J	CAF
13296807	EXAR Anchorage 9479	CAF
13305978	Vermilion Yellowstone	CAF
13308692	S A F Choice Plus 8275	CAF
13320150	Ironwood New Level	CAF
13321276	G T Premium Design 919	CAF
13324510	H A R B High Plains 975 JH	CAF
13331795	S A V Limited Edition 9283	CAF
13333906	S A F Focus 9095	CAF
13346328	KMK Alliance 6595 I87	CAF
13352944	Baldrige Julio 157J	CAC
13356290	Ardrossan Jackson J6	CAF
13360311	BT Right Time 24J	CAF
13361440	Leachman Boom Time	CAF
13384754	Summitcrest Outlook	CAF
13384794	Summitcrest Pfred 3B18 0J98	CAC
13392170	Woodhill Confidence	CAF
13394625	G 13 Structure	CAF
13395329	G A R Retail Product	CAF
13395344	G A R Predestined	CAF
13404446	Brooks Premium 910	CAF

13412671	Baldrige Nebraska 901	CAF
13423598	Toebben Alliance C902	CAF
13433023	WAR Alliance 9126 6006	CAF
13436290	Tosu Mick 9301	CAF
13438124	Lemmon Seven Plus	CAF
13441628	Hinds Hills TLAR Long Cut 47	CAF
13444525	K G Power Design	CAF
13447282	Connealy Lead On	CAF
13448453	L T 598 Bando 9074	CAF
13455316	Fintry of Graham 47539	CAF
13457376	Millcreek Premium	CAF
13457421	S A F Mogcks Security	CAC
13458027	Shamrocks Advantage 4609	CAF
13469989	Vermilion Payweight J847	CAF
13477977	S S New Design 036 9N1	CAF
13481798	Plattemere Database	CAF
13492456	O C C Just Right 619J	CAF
13492457	O C C Joker 620J	CAF
13498476	F A R Krugerrand 410H	CAF
13504290	S A F Focus J30	CAF
13512009	S A V 8180 Traveler 004	CAF
13516336	C T R Wideload 918	CAF
13521189	Oak Hollow 7709 of 1318 1118	CAF
13531260	Sitz Alliance 9800	CAF
13531361	Sitz Greatplains 9520	CAF
13544928	S A F Connection	CAF
13567604	Isu Imaging Q 9111	CAF
13567991	Leachman Diamondback	CAF

13574137	S A F Directive	CAF
13582536	Byergo Full Cut	CAF
13588640	B/R New Frontier 095	CAF
13592905	S A V Final Answer 0035	CAF
13599697	Kapp Corner Post	CAF
13600998	PAF Alta's Prestige	CAF
13601610	Koupals B&B Precision 0068	CAF
13608406	RAB-GAR Load Up 4049J	CAF
13608527	Pascalar Ayres New View P310	CAF
13619920	ER Denton K240	CAF
13620649	Mohnen Modern Design	CAF
13626625	ER Falcon K177	CAF
13627989	O C C Juneau 807J	CAF
13645514	RCC Preference	CAF
13654637	LCC Number Crunch 3050K	CAF
13654695	LCC New Frontier 3215K	CAF
13659860	S A F Millcreek Charisma	CAF
13664352	Larkota 814Z 011	CAF
13665765	D B New Horizon 020	CAF
13667844	Summitcrest Diamond 0K24	CAF
13668985	J D Alberda Clipper 019	CAF
13669585	H&K Neutron 377 X3	CAF
13670548	Millers Bullseye J373	CAF
13676131	Connealy Deep Canyon 454	CAF
13676411	Connealy Front Page 0228	CAF
13676998	Double G Marksman	CAF
13687063	K C F Bennett Total	CAF
13697595	Bushs Grand Design	CAF

13708459	G T Echo	CAF
13712447	Woodhill Admiral 77K	CAF
13718618	S A F Factor	CAF
13718631	SydGen Sterling 0298	CAC
13724351	G A R Yield Grade	CAF
13728513	G A R New Design 5050	CAF
13739339	Fintry of Graham 52170	CAF
13739532	H A Image Maker 0415	CAF
13742799	Stukels Bandwidth	CAF
13752642	Nichols Extra K205	CAF
13761928	Three Trees Prime Cut 0145	CAF
13776378	S S Objective T510 0T26	CAF
13778330	FHCC Classic Rock	CAF
13791489	Genetics by Design 049	CAF
13793826	Rito 1I2 of 2536 Rito 6I6	CAF
13796655	Rito 1I96 of 3015 Rito 6I6	CAF
13798592	RES Volunteer 051	CAF
13802007	O C C Kiddo 832K	CAF
13806056	Exar Sudden Impact 1537	CAF
13806971	W C C Precision E161 J239	CAF
13808820	Exar Expand 1241	CAF
13814652	ACF New Design 0321	CAF
13815252	Connealy Mayor 898	CAF
13818764	Gardens Wave	CAF
13822057	R&R Architect 0223	CAF
13824342	SydGen Original 1013	CAF
13828202	Boyd On Target 1083	CAC
13830028	Basin Rainmaker 747L	CAF



13831100	Connealy Viewpoint 901	CAF
13834593	SydGen 1531 Ambush 1149	CAF
13838168	N A Powerline of 206T	CAF
13839683	Circle A Accurate 1038	CAF
13845259	S A V Successor 1175	CAC
13846942	W C C Special Design L309	CAF
13850227	SydGen Refocus	CAF
13850307	4 Point 8 of Ironwood	CAF
13850346	Basin Expedition 290L	CAF
13853524	VDAR Databank 1061	CAF
13859811	AAR ET Precision L106	CAF
13859831	AAR ET Bando L118	CAF
13866016	Basin Ambush 8161	CAF
13873561	Whitestone Xception	CAF
13874784	Leachman Fundamental	CAF
13875837	S A V Front Runner 0713	CAF
13875838	S A V 5175 Bando 0699	CAF
13878619	YON Southern Rock L26	CAF
13880447	Baldrige Lightning L72	CAF
13880818	Mytty In Focus	CAF
13892119	B E B Juneau 104	CAF
13895274	King Kahn B100	CAF
13896250	H S A F Bando 1961	CAF
13898124	BR Midland	CAF
13907951	Gibb Iroquois 9111	CAF
13913492	E&B 1680 Precision 1023	CAF
13913514	Summitcrest Commando	CAF
13916633	Royal Precision DRCC 1007L	CAF

13924533	Rito Plus	CAF
13930599	L C R Precision 112	CAF
13934918	LCC Dillon G689L	CAF
13935246	S A V 5175 Bando 1024	CAC
13936986	Woodhill Foresight	CAF
13953039	Ranger G 1720	CAF
13953117	Connealy Grid Line	CAF
13955271	Hoff Gold Label S C 900 541	CAF
13959251	LD Exactly 1912	CAF
13959334	AAR ET Precision L195	CAF
13959347	AAR ET Precision L213	CAF
13959350	AAR ET Precision L222	CAF
13961547	Exar Foundation 1806	CAF
13961577	Holiday Express 1852	CAF
13966936	Connealy Danny Boy	CAF
13992383	H A Power Alliance 1025	CAF
13998476	Summitcrest Roseda Designed	CAF
14009358	RAB-GAR Satisfaction 4191L	CAF
14009384	RAB-GAR Leverage 4222L	CAF
14011376	G A R Precision 5771	CAF
14011547	G A R Prime Design	CAF
14011611	G A R Encore	CAF
14021056	Morgans Direction 111 9901	CAF
14035047	Exar Lutton 1831	CAF
14036365	O C C Legend 616L	CAF
14037690	Krone Royal 1140	CAF
14037894	Hyline Right Way 781	CAF
14048508	R3 Scanner L527 SCC	CAF

14051770	O C C Linebred 661L	CAF
14056739	Rito 2X15 of Rita 8Z22 EXP	CAF
14084300	Rito 2A63 of 2536 205	CAF
14088249	Rito 2V1 of 2536 1407	CAF
14088423	SydGen Contact	CAF
14091783	Tehama Gridmaker L234	CAF
14094252	Sitz New Design 349M	CAF
14098261	Circle A Endeavor 2058	CAF
14099897	SydGen Focus 2088	CAF
14100695	EXAR Make the Grade 234	CAF
14101541	VDAR Predicta Bull	CAF
14102387	Basin Payweight 959M	CAF
14104633	SydGen E161 Precision 1485	CAF
14104725	SydGen Ally	CAF
14106302	SydGen Prestige 1316	CAF
14106303	SydGen 1407 Corona 2016	CAF
14114073	S A V Adaptor 2213	CAF
14116881	C F Right Design 1802	CAF
14121653	LD Redirect 11	CAF
14128747	Vermilion Nebraska M404	CAF
14130746	BIG K Design Precision 152	CAF
14139259	EXG Prime Plus M737 R3	CAF
14139514	Three Trees Exacto 1517	CAF
14141818	Garth G256	CAF
14144643	Boyd Captain 2067	CAF
14159119	B C Matrix 4132	CAF
14159307	RAB-GAR Uncle Bob 4311L	CAF
14164824	Stevenson Yellowstone M808	CAF

14167786	RES Exceed 114	CAF
14171230	D C C Rito Prime 115	CAF
14173159	Twin Eagles No Fault M904	CAF
14174960	MM Futures Right 704	CAF
14181726	Riverbend Blueprint L24	CAF
14187839	B C Marathon 7022	CAF
14201376	Mill Brae Freightliner 2096	CAF
14202761	Champion Hill Edition 2029	CAF
14204395	Triple J Design of Foxcross	CAF
14207348	Koupals Mo Co 253	CAF
14209689	Bluegrass Major Design 202	CAF
14215210	S A V Last Call 2063	CAF
14216456	Connealy Alliance 995	CAF
14216491	Connealy Onward	CAF
14216571	Connealy Safe Lead	CAF
14218202	LCC Sultan G041	CAF
14218253	LCC New Standard	CAF
14222526	G A R 65R Authority	CAF
14222595	G A R Cimarron	CAF
14222612	G A R Integrity	CAF
14222722	G A R Total Package 7202	CAF
14222787	G A R New Market 7892	CAF
14230122	EXAR New Look 2971	CAF
14230973	KG Dakota	CAF
14235190	R B M Neutron X3 192	CAF
14237017	TC Gridiron 258	CAF
14237157	BT Equator 395M	CAF
14245842	K A R Alliance 258	CAF

14251765	Tehama Total M811	CAF
14257843	DDA Emblazon 27C	CAF
14267926	21AR Coal Bank C014	CAF
14270028	Blevins Raindance 2503	CAF
14291315	SydGen Eclipse 2478	CAF
14292649	Dr J Analyst M250	CAF
14298428	SydGen Bouncer 2458	CAF
14299352	S S Rito Rito R011 2R12	CAF
14300920	G A R Premium Product	CAF
14301014	G A R US Premium Beef	CAF
14306232	S S Traveler T510 2T22	CAF
14308295	Baldrige Mullen M528	CAF
14311951	Sinclair Net Present Value	CAF
14321158	H A R B Windy 702 JH	CAF
14323096	MSAR Codova 2051	CAF
14327307	Spur Success 2801	CAF
14330792	Southern Bando 3063	CAC
14343264	EXAR Nominal 3550	CAF
14349350	O C C Machinist 734M	CAF
14355577	Lafllins Cutting Edge 2075	CAF
14357467	Sinclair Open Range 2Q23	CAF
14361794	G G Chisholm	CAF
14367367	Boyd Poundmaker 21	CAF
14368395	Stevenson American Idol 9273	CAF
14368434	Stevenson Benchmark N190	CAF
14368850	Sitz Rainmaker 9723	CAF
14377095	Big Elban of Sydgen 3023	CAF
14378386	Sinclair Rito Legacy 3R9	CAF

14381890	EXG Osage N112 R3	CAF
14382607	EXG Midnight N657 R3	CAF
14383761	Diamond Max 180N	CAF
14384365	Boyd Beef Maker 3069	CAF
14384566	EXG Outcross N655 R3	CAF
14385150	Basin Expedition 867N	CAF
14386761	S A R New Frontier 095 1156	CAF
14390643	EXAR Numerical 3919	CAF
14391235	B C Maverick 2702 ET	CAF
14394786	B C Mid Emblazon 854E 702	CAF
14395270	SydGen OnStar 3217	CAF
14397563	B C Emblazon 854E 8023	CAF
14399473	GAR Goode Backcross 313	CAF
14400964	Basin Future Direction 7163	CAF
14400977	Basin Future Direction 8833	CAF
14401002	Basin Future Direction N905	CAF
14404295	EXG Rangeland 3946	CAF
14404296	EXG Heartland 3947	CAF
14412753	Circle G Kash 2189	CAF
14416680	K C F Bennett Architect M299	CAF
14417348	K C F Bennett Coalition SCC	CAF
14418962	Kenny's Creek Sandy S15	CAF
14419184	G T Shear Force	CAF
14419602	Basin Payweight 9333	CAF
14422326	RAB-EGL Blue Moon 4407M	CAF
14424380	Basin New Design 7753	CAF
14424555	AAR Neutron N059	CAF
14424556	AAR Neutron N064	CAF

14429978	Ironwood Innovator	CAF
14432656	R&S Turbo of Stevenson	CAF
14434266	Ayres Sudden Revival of OCC	CAF
14439463	Diamond Payweight 738N	CAF
14446504	Southern Panhandle 3432	CAF
14448891	ALC Nobleman N01N	CAF
14454058	M A R Midland Empire 3092	CAF
14455342	S A V Peacemaker 3179	CAF
14456390	O C C Magnitude 805M	CAF
14462137	MF Destroyer 093	CAF
14474596	Sitz New Design 458N	CAF
14492305	ER Justice N013	CAF
14495534	S A V Trailblazer 3015	CAF
14499655	J D Hy Qual 328	CAF
14502282	Woodhill Statesman 54K-90N	CAF
14502851	L T Bandwagon 3105	CAF
14503795	Rito 3835 of 2536 BVND 878	CAF
14504755	G A R User Friendly	CAC
14505152	K M Keystone 1913	CAF
14508531	Bushs Strut 756	CAF
14509685	BT Crossover 758N	CAF
14510132	Lau Decade	CAF
14512407	Riverbend Mile High 3718	CAF
14513180	Three Trees Next Step	CAF
14514372	Mohnen Brushpopper 353	CAF
14515789	LRA Foresight 26C	CAC
14521474	K C F Bennett Index	CAF
14523007	Ideal 3542 of 7451 7417	CAF

14526645	TC Grid Topper 355	CAF
14528078	Connealy 044 062	CAF
14528172	Connealy Overtime	CAF
14528246	Connealy Leader	CAF
14528291	Connealy Onstar 3213	CAF
14528330	Connealy Reflection	CAF
14528390	Connealy Network	CAF
14529106	EXAR Non-Stop 3967	CAF
14531922	HA Future Direction 3540	CAF
14535905	WAR Cowboy Up 3102	CAF
14542822	Summitcrest Sears Star Power	CAF
14542824	Summitcrest High Prime 0N15	CAF
14551206	Brooks Night Off 309	CAF
14552847	Baldrige Navigator N5	CAF
14560689	ALC Big Eye D09N	CAF
14566018	Cooley Sparky 3032	CAF
14570934	LCC New Chapter G831N	CAC
14573335	SydGen Substance 3450	CAF
14573350	SydGen Directive 3468	CAF
14573363	SydGen Boom Time 3483	CAF
14575589	B A F Limited Edition 372	CAF
14575900	D C C Rito Platinum 3J4	CAF
14576247	Woodhill Commander 143L-132N	CAF
14587431	Sinclair Telecast 01S3	CAF
14595121	Sugar Loaf Direct Hit N021	CAF
14599782	LCC Outlook G800N	CAF
14608561	4G Regulator	CAF
14615071	Dunlouse Excalibur Y070	CAF



14630766	Whitestone Tiger T159	CAF
14631681	Rito 4612 of Rita 8G23 112	CAF
14631694	Rito 469 of Rita 9514 112	CAF
14631852	Rito 4D7 of 2536 338	CAF
14631908	Rito 4L41 of Rita 2B41 208	CAC
14641538	Rito 4L6 of 2536 208	CAF
14641550	Rito 4N9 of Rita 1198 PINN	CAF
14649187	M J Right Time 374	CAF
14657131	F R F Midland 4026	CAC
14659834	Stevenson CE Deluxe 1914	CAF
14660859	Quaker Hill Objective 3J15	CAF
14663248	SydGen Platinum 4027	CAC
14663267	SydGen Itasca 4083	CAF
14664625	SydGen Kahlua 4204	CAC
14667449	EXAR Predictable 4158	CAF
14667450	EXAR Problem Solver 4181	CAF
14675445	B/R New Day 454	CAF
14675477	B/R Future Direction 4268	CAF
14676756	Monarch Pahokee 3016	CAF
14679569	SydGen Connection 4249	CAF
14679694	3F Emblazon 3652	CAF
14682821	EXAR Pit Boss 409	CAF
14686091	Basin Future Direction 7054	CAF
14686102	Basin Yellowstone 116P	CAF
14686137	Basin Franchise P142	CAF
14686155	Basin Up The Limit	CAF
14686985	SydGen Rito Plus 4051	CAF
14687390	Buffalos Conclusive BN46	CAF

14687512	EXAR Phenomena 4037	CAF
14691231	GDAR Game Day 449	CAF
14692281	FV New Dimension P142	CAF
14693095	DAJS The Matrix 008	CAF
14702592	Sitz Insight 4794	CAF
14712641	SydGen Journey 4355	CAF
14724225	Basin Prime Cut 4967	CAF
14724271	Basin Rainmaker P175	CAF
14725035	S A V 004 Density 4336	CAF
14728662	EXG New Design P620 R3	CAF
14737017	Genex Replica 1081	CAF
14737893	B3R N193 854E Emblazon 9180	CAF
14739204	S A V Net Worth 4200	CAF
14740749	Gardens Prime Star	CAF
14741502	G 13 Steel	CAF
14742267	LT Curve Bender 4810 of EA	CAF
14745477	Bonnors Up The Limit 7P	CAF
14745817	KMK Alliance I87 N24	CAF
14754153	Woodlawn Charge On 14	CAF
14755983	Cooley Laredo 163P14	CAF
14768727	Rito 4I9 of 2536 6807	CAF
14768728	Rito 4L60 of 2536 BVND 208	CAF
14768733	Rito 4S5 of 2536 SA	CAF
14768734	Rito 4S6 of 2536 SA	CAF
14769662	Boyd Landmark 405	CAF
14774030	Sinclair Extra 4X13	CAF
14777016	MCC Daybreak	CAF
14779044	Ideal 4355 of 0T26 2440	CAF

14789008	Cooley Santa Fe 4050	CAF
14789808	Koupals B&B Balancer 4017	CAF
14790773	G A R Future Direction 7884	CAF
14790816	G A R High Mesa	CAF
14790998	Summitcrest Designer 177P	CAC
14791623	B C Lookout 7024	CAF
14793708	Woodhill Mainline	CAF
14796227	Brooks Easy Way Out 4260	CAF
14798552	S A V 5175 Bando 4597	CAC
14798616	S A V 004 Traveler 4836	CAF
14800786	G A R Simplicity	CAF
14802410	Doerr Defiance	CAF
14814936	TC Boom Time 434	CAF
14817265	Sitz Hindsight 973P	CAF
14817353	Basin Expedition 00P1	CAF
14821156	MSAR Future Direction 2484	CAF
14822176	H&K Gridiron C16	CAF
14823655	S A V 004 Predominant 4438	CAF
14823656	S A V 004 Hold'em 4452	CAF
14823774	S A V Bachelor 4404	CAF
14825490	F A R Krugerrand 419P	CAF
14828349	HA Future Direction 4506	CAF
14829055	Whitestone Landmark 623T	CAF
14840227	Schurrtop MC 2500	CAF
14840492	TC Power Stroke 4118	CAF
14842384	S A V Initiative 4406	CAF
14843192	Connealy Foundation 426	CAF
14843207	Connealy Packer 547	CAF

14843254	Connealy Freight Train	CAF
14843300	Connealy Resource FD 464	CAC
14844711	TC Total 410	CAF
14844714	TC Rito 416	CAF
14844728	TC Beef Maker 480	CAF
14845068	Connealy Whitman	CAC
14845081	Connealy Grant 208 4246	CAC
14848339	Mohnen Day Ahead 144	CAF
14848587	MCC Cupid 414	CAF
14850409	Summitcrest Complete 1P55	CAF
14851313	SCR Promise 4042	CAF
14852720	Tehama Vigilance P139	CAF
14855573	Booroomooka Warwick W245	CAF
14866373	Twin Lakes Midland 9035	CAF
14874385	MOGCK Whispering Wind 584	CAF
14874578	Mytty ForeFront 77P	CAF
14876747	SydGen High Prime 4474	CAF
14880311	SydGen Triumph	CAF
14885809	K C F Bennett Performer	CAF
14898814	Dunlouse Cortachy Boy D137	CAF
14899284	Blevins Retail Design 4812	CAF
14899673	Rockin Horse Tailor Made 456	CAF
14907842	CTR Rea 325	CAF
14908773	CTR Sandhiller 313	CAF
14909998	G C C Old School 4709	CAF
14919659	Southern BCS Champ 3592	CAF
14931356	Basin Center Cut	CAF
14931864	DCC First Look 3001	CAF

14933037	Ardrossan Connection X15	CAF
14934706	Rito 593 of 2821 RP	CAF
14934912	Rito 5T4 of 2536 Integrity	CAF
14953535	Reich Lead On 424	CAF
14954578	R/M Ironstone 4047	CAF
14961745	EXAR Rejuvenator 5401	CAF
14963730	Sitz Upward 307R	CAF
14969822	Sinclair Excellency 5X25	CAF
14973288	Basin Payweight 176R	CAF
14973975	Basin Opportunity	CAF
14974014	Basin Future Direction 815R	CAF
14976177	Black Woodlawn 2.0	CAF
14977480	SydGen Bullet	CAF
14984112	EXAR Rito 5118 of Rito 112	CAF
14992299	Southern Tidal Wave 4838	CAF
14993300	Diamond On Track 748R	CAF
15003218	Stevenson Cattleman R142	CAF
15003238	Stevenson Moneymaker R185	CAF
15005123	B/R Magnum 399-5128	CAF
15008640	Schroeders New Look	CAF
15009375	Tehama 944 R525	CAF
15011616	Cooley Brett 1882R2	CAF
15012747	EXAR 263C	CAF
15015207	Stevenson Paycheck 9415	CAF
15015542	AAR Prime Cut R116	CAC
15016931	Quaker Hill Rito 2V1 4V1	CAF
15022955	Three Trees Crossroads R0638	CAF
15028961	Basin Expedition R156	CAF

15030205	SydGen 928 Destination 5420	CAF
15030668	Diamond Direct Deposit 3R57	CAF
15031034	Basin Expedition R850	CAF
15033947	G A R Right Direction	CAF
15034593	BC 7022 Raven 7965	CAF
15041285	Diamond Benchmark 3R65	CAF
15048590	RAB-EGL Future Design	CAF
15076709	Autumn Oaks Super Star 302	CAF
15087372	Cooley El Paso 4919	CAF
15098880	GAR-EGL Protege	CAF
15098911	Circle S At Ease 4221	CAF
15099896	Cowboy Troy	CAF
15107823	S A V Future Investment 5662	CAF
15107825	S A V Mandan 5664	CAF
15107834	S A V Saint Anthony 5670	CAF
15108117	S A V Legacy 5216	CAF
15108200	S A V New Year 5320	CAF
15108317	S A V 5175 Bando 5190	CAF
15109865	S A V Bismarck 5682	CAF
15111551	Koupals B&B Discovery 503	CAF
15116841	Baldrige Rapid R31	CAF
15118068	N U Option 5012	CAF
15124610	Brooks Premium Product 547	CAF
15124612	Brooks Retail Product 549	CAF
15125595	Summitcrest Direction 2R71	CAF
15127569	Bluegrass Right Time 500	CAF
15127955	WAR Draftsman 5070	CAF
15129617	G A R Selective	CAF

15129674	G A R Objective 7125	CAF
15129688	G A R Efficiency 7295	CAF
15129749	G A R Perspective	CAF
15134123	G A R Cloudburst	CAF
15134139	Cooley Cobb 5056	CAF
15140670	B P F Special Focus 504	CAF
15142201	Rito 5FA9 of 1247 FD	CAF
15142281	Rito Revenue 5M2 of 2536 Pre	CAF
15142306	Rito 5M44 of 2536 PRED	CAF
15144789	SIMONSON Right Time 6135	CAF
15147028	Connealy Industry 5634	CAF
15147477	LT Timberwolf 5014	CAF
15148585	Connealy Power One	CAF
15148654	Connealy 1i2 Easy 5669	CAC
15148659	Connealy Thunder	CAF
15148739	Connealy Compass 510E	CAF
15148954	Mytty In Line	CAF
15150605	Connealy Contrast	CAF
15150630	Connealy Danny 5398	CAF
15150757	Connealy Black Baron of SCAR	CAF
15161251	HA Program 5652	CAF
15163839	SCR Superior 210M-50203	CAF
15169496	TC Friction 5130	CAF
15170660	CAR Efficient 534	CAF
15174921	EGP NO Vacancy 3R	CAF
15180461	Kesslers Frontman R001	CAF
15183035	HD Dunn Altitude 5011	CAF
15183732	Tehama Band XL R739	CAF

15186606	Tehama Reputation	CAF
15191744	V A R Midland 5271	CAF
15197288	Msar Onstar 2715	CAF
15199294	RR Midland 5017	CAF
15200651	SydGen Corona 5512	CAF
15204322	SydGen Black Substance 5602	CAF
15204463	SydGen 5175 Bando 5728	CAF
15214134	SydGen Garfield 5732	CAF
15226299	Southern High Octane 3115	CAF
15231166	Blevins Mission 5709	CAF
15247017	Southern Rito Nitro 3435	CAF
15247770	Stevenson Bullseye 3R11	CAC
15248684	RR Cork Predestined 5042	CAF
15249612	T K Big Bend R35	CAF
15260057	RDDA Overload 2437R	CAF
15262910	EXAR Spartan 6225	CAF
15262914	EXAR Showton 6230	CAF
15266350	Rito 6EM3 of 4L1 Emblazon	CAF
15266353	Rito 6EM6 of 4L3 Emblazon	CAF
15269775	O C C Prototype 847P	CAF
15270965	DVA Scout 553	CAF
15276737	EXAR Prime Premium 6444	CAF
15283265	G A R Prediction	CAF
15283299	G A R Predestined N5905	CAF
15290955	Quaker Hill Template 6J2	CAF
15303259	Southern Wrangler 7015	CAF
15310366	Rito 6656 of 021 Rito 1I2	CAF
15310452	Rito 6F54 of Rita 2V6 FD	CAF



15313140	HARB Pendleton 765 J H	CAF
15316138	DRMCTR RODEN 1I2 RITO 5294	CAF
15316436	FHCC Affirmative	CAF
15325987	Diamond Justice 901S	CAF
15327898	B3R Tender Ten R065	CAF
15330093	T O S U Hawk 5306	CAF
15330681	SydGen 9095 Focus 6025	CAF
15330682	SydGen Focus 6026	CAF
15330743	SydGen C C & 7	CAF
15331756	Three Trees Rocky Top	CAF
15331769	Three Trees Big Top S1116	CAF
15331771	ThreeTrees Blackfoot Mile Hi	CAF
15331879	Basin Bellagio 410S	CAF
15332022	Basin Payweight 107S	CAF
15332038	Basin Payweight 025S	CAF
15332050	Basin Payweight 006S	CAF
15336681	Circle A Direction 6150	CAF
15337433	SydGen Mandate 6079	CAF
15343181	B/R Ambush 28-6149	CAF
15347911	Boyd Next Day 6010	CAF
15349689	Casino Objective B135	CAF
15353055	LD E161 Precision 559	CAF
15354674	SydGen Trust 6228	CAF
15355003	Trowbridge Crusader 614	CAF
15356040	Thomas Grade Up 6849	CAF
15359047	7-D Ribeye	CAF
15365425	K C F Bennett Outlook R448	CAF
15366320	Basin Future Direction 0556	CAF

15366321	Basin Future Direction 2646	CAF
15366322	Basin Future Direction 0846	CAF
15369092	S A V John Wayne 6220	CAF
15369205	S A V Heritage 6295	CAF
15369298	S A V Heavy Hitter 6347	CAF
15371285	Basin Dollar B 9916	CAF
15373359	Ankonian Werner Wild Fire 96	CAF
15374241	Boyd Password 6077	CAF
15380785	Sinclair Extravagant 6X7	CAF
15384833	Stevenson Online 11S0	CAF
15386718	Ardrossan Direction W109	CAF
15387304	Gardens Prime Star G223	CAF
15393885	Whitestone Satisfaction	CAF
15396062	M A R Jefferson 6009	CAF
15399709	Boyd Heritage 6078	CAF
15418431	Lafpins South Wind 5258	CAF
15419293	Exar Prime Star 2356	CAF
15430961	BC Rocket 44	CAF
15434180	E&B Blueprint 691	CAF
15436925	CSU Ram Nation 6129	CAF
15437492	KCH Trajectory	CAF
15442456	LaGrand MAF Antidote 5775	CAF
15443045	Three Trees Ante Up T0170	CAF
15445241	Rito 6S8 of 2536 SA	CAF
15445269	Rito 6J4 of Rita 3841 3B6	CAF
15446550	M A 1961 Bando 346-90	CAF
15450425	P T Wusthof 906	CAF
15452104	Stenberg Coalition 509	CAF

15452662	HA Image Maker 6550	CAF
15456246	Exar PAF Sizzle 620	CAF
15456344	Summitcrest Rush Hour 0S23	CAF
15458947	S/C Constellation 06S6	CAF
15458959	Summitcrest Darth 1S37	CAF
15458960	Summitcrest Stardom 1S54	CAF
15459486	Duff New Edition 6108	CAF
15459488	Duff New Attraction 6110	CAF
15462648	TC Franklin 619	CAF
15462668	TC Advantage Plus 680	CAF
15463997	G A R Symmetry	CAF
15464017	G A R Remedy	CAF
15464043	G A R Ultimate	CAF
15469774	TC One Way 618	CAF
15470118	SCC PVF Striker 612	CAF
15470489	EXG Masterson 6011 PPC	CAF
15478023	Woodhill Foresight 285M-S103	CAF
15478191	Woodhill Foresight 270N-S62	CAF
15479387	Cooley Menard 326S	CAF
15482196	G A R Game On	CAF
15486924	Limestone Titan S149	CAF
15487342	Limestone Converter S239	CAF
15488048	Tehama Silverado S105	CAF
15488375	G C C Osage 601S	CAF
15490794	Connealy Full Freight	CAF
15490811	Connealy All Around	CAC
15491633	Connealy Forward	CAF
15493207	Connealy Formation 60C	CAF

15497150	Southern GT Special Force 17	CAF
15498429	Rito 6EMA of 4L3 Emblazon	CAF
15498453	Rito 6FA7 of Rita 2V6 FD	CAF
15498627	Rito 6M51 of Rita 2V5 Pred	CAF
15503871	Five Star Pacific 6008	CAF
15507991	Spur Reward 6005	CAF
15509162	MRCC New Idea 629	CAF
15511451	S Chisum 6175	CAF
15513053	Mr JT High Light 638	CAF
15515066	T D L Nine Irons Preemptor	CAF
15515072	T D L Nine Irons 3335S	CAF
15518651	S D R Chief Justice 662	CAF
15521467	V A R Prime Rate 6254	CAF
15522896	Tehama Online S472	CAF
15532981	21AR Outfitter 6032	CAF
15533798	2 Bar Objective 6693	CAF
15535998	Vermilion X Factor	CAF
15539210	F V 20K King 308M	CAF
15543702	Connealy Impression	CAF
15543742	Tehama Alternative S454	CAC
15544351	ORR Yield Grade 615	CAF
15546225	DRMCTR/WMD Holy Smokes 6J3	CAF
15553710	SydGen Turbo 6684	CAF
15553713	SydGen Option 6689	CAF
15559384	Silveiras El Capitan 6510	CAF
15561211	K D J Aberdeen	CAF
15569521	KCC Werner Wall Street 1666	CAF
15585939	Mohnen Dynamite 1356	CAF

15594410	J Bar 7 On Time 6537	CAF
15599345	B C C Emblazon 6062-6022	CAF
15601553	Sinclair Eclipse	CAF
15601884	Quaker Hill On Board 6BT2	CAC
15603496	Exar Top Shelf 7524	CAF
15603560	Exar Treasury 7596	CAF
15604163	MVF VRD Dateline 913P	CAF
15606026	Five Star Sum Total 6010	CAF
15607046	G T Global Image	CAF
15619715	G G Grade & Yield 602	CAF
15623928	V A R Prospector 7093	CAF
15626702	RM Ruger 6502	CAF
15630115	Silveiras Out West 7026	CAF
15630936	ALC Shooter B01S	CAF
15636992	Sitz Wisdom 481T	CAF
15637146	Sitz Jackson 431T	CAF
15638125	Sinclair Emulate 7XT28	CAF
15644157	Sinclair Multi-X	CAF
15656868	Sitz Dash 10277	CAF
15656999	Sitz Dimension 8607	CAF
15661253	Exar 263C 7256	CAF
15664421	SydGen Corona 7029	CAF
15664462	SydGen Power Source 7017	CAF
15666273	Stevenson IN Focus 506T	CAF
15667302	Circle A Endurance 6679	CAF
15673744	SSR Trooper 117	CAF
15676975	SQ Patriot 103R	CAF
15687475	SCAR All Star Baron 7B3	CAF

15688392	S A V Pioneer 7301	CAF
15690301	Basin Prepotent	CAF
15690358	Basin Spread 304T	CAF
15690623	Basin Full House 41T2	CAF
15694062	Basin Future Direction 2T15	CAF
15696204	Basin High Definition 3T84	CAF
15696472	Stevenson Moneymaker 576T	CAF
15698421	XXG Emulation Ext 7053	CAF
15700047	Thomas Synergy 7261	CAF
15705880	SQ Credence 67S	CAF
15707145	S A V Providence 6922	CAF
15708607	Salt Creek Bob 7003	CAF
15714056	Gardens Next Wave HE17	CAF
15714917	EXAR Titlelist T011	CAF
15723180	G T Tender Force	CAF
15726438	Dunlouse Jipsey Earl E161	CAF
15726453	Dunlouse Commander Bond	CAF
15730504	Three Trees Performance King	CAF
15730548	Three Trees Top Performer	CAF
15730796	Baldrige Progressive S834	CAF
15738589	Werner Westward 357	CAF
15743897	Three Trees Lexington T0678	CAF
15748572	Yon Future Focus T219	CAF
15748956	BC Classic 385-7	CAF
15751696	BC Eagle Eye 110-7	CAF
15753349	ONeills Encore	CAF
15758334	G T Mainland	CAF
15774209	CSU Ram Nation 7105	CAF

15779234	PVF ALL PAYDAY 729	CAF
15782591	ICC Judge 7001	CAF
15784683	WK Power Up	CAF
15787788	S A V Efficiency 7056	CAF
15787838	S A V Wall Street 7091	CAF
15790033	S S Insight T20	CAF
15793806	Efficiency NFI	CAF
15796107	Dunlouse Shot of Scotch	CAF
15796904	Rito 7O65 of Rita 5M46 Obj	CAF
15798263	W W W Capital Gains 01T	CAF
15799258	Basin Mile High 60T4	CAF
15799573	H&K Impressive	CAF
15799637	H&K Acceleration F24	CAF
15804077	Koupal Juneau 797	CAF
15807819	Ardrossan Admiral A2	CAF
15816127	Garret's On Target 323C	CAF
15817542	WAR Architect T040	CAF
15818622	MCATL Triple Stack	CAF
15823918	UI Peer Reviewed T083	CAF
15825785	Msar Shaker 2307	CAF
15827698	Three Trees Destiny WCAR CA	CAF
15827916	Mill Brae Shawnee 7156	CAF
15828143	Limestone Tilt T247	CAF
15828386	Lemar Dakota Gold 18T	CAF
15832299	Lyons Santa Fe 6119	CAF
15832303	Lyons Prairie Fire	CAF
15832579	Connealy Answer 71	CAF
15832596	Connealy Wrangler	CAF

15832750	Connealy Right Answer 746	CAF
15836708	SCR Right Cross 70024	CAF
15840414	TC Aberdeen 759	CAF
15842019	Summitcrest High Prime 0T08	CAF
15844265	K C F Bennett Energizer	CAF
15856117	Riverbend Cornerstone	CAF
15863843	ONeills Lucky Boy	CAF
15866553	Koupals B&B Balance 7022	CAF
15875990	21AR Pendelton 7033A	CAF
15876020	21AR Big Spread 7012A	CAF
15882823	RBM 1I2 Evergreen Rito 657	CAF
15883460	21AR Roundup 7005	CAF
15885405	Poss Total Impact 745	CAF
15889408	VAR Programmer 7551	CAF
15894689	S V F Utmost T293	CAF
15897537	ALC Titanic V13T	CAF
15899735	MOGCK Sure Shot	CAF
15908864	Shipwheel Chinook	CAF
15913232	Sinclair 20/20	CAF
15915113	SydGen Sure Bet	CAF
15922661	Nichols Quiet Lad T9	CAF
15922672	Nichols Stout T152	CAF
15931768	CTR Trav 6807 6210	CAF
15934618	Duff Standout 785	CAF
15934916	EXAR Unstoppable 8011	CAF
15937356	Exar Undeniable 8602	CAF
15940784	Basin Future Direction T262	CAF
15940911	Basin ON Target 7T16	CAC



15944136	Duff Encore 702	CAF
15955805	Exar Focus 8062	CAC
15955822	Exar Underdog 82018	CAF
15960879	Exar Image Maker 8715	CAF
15962982	Wilson Total Value 722	CAF
15969112	Sitz Bull Durham 10308	CAF
15969140	Sitz Game Point 10128	CAF
15969208	Sitz Emblazon 9598	CAF
15973416	Blue and Gray Lee V04	CAF
15974345	Blue & Gray Jackson 90V	CAF
15978589	44 Changeup	CAF
15982287	BR Extra 68	CAF
15987842	RM Ringo 7565	CAF
15989605	RM I Trend 7528	CAF
15993775	EXAR Beef Prod 84120	CAC
16005537	Circle A Incentive	CAF
16009351	Diamond MoneyMaker U229	CAF
16009353	Diamond MoneyMaker 8347	CAF
16009357	Diamond MoneyMaker 53U2	CAF
16020728	ALC Danny Boy V17U	CAF
16027094	Sinclair Grass Master	CAF
16027579	Sinclair Timeless 8BA4	CAF
16036133	44 Cowboy 8552	CAF
16042244	GDAR Game Plan 893	CAF
16046828	G A R Concrete	CAF
16047404	Basin Excitement	CAF
16047469	D R Sierra Cut 7404	CAF
16049485	OSU Currency 8173	CAF

16066773	Connealy Best Option	CAF
16071536	Callaways Cure All 1353	CAF
16071777	Lafins Northern Lights	CAF
16083602	ALC Freight Train F17U	CAF
16094168	Sitz Homestead 4978	CAF
16095113	Whitestone Advocate	CAF
16102412	Bricton Advancer 7137	CAF
16107533	S A V Brave 8320	CAF
16107687	S A V Free Spirit 8164	CAF
16107705	S A V Pyramid 8186	CAF
16107741	S A V Birthstone 8258	CAF
16107773	S A V Empire 8135	CAF
16107774	S A V Brilliance 8077	CAF
16112426	Stevenson Yogo 612U	CAF
16112432	Stevenson IN Focus U481	CAF
16112702	Stevenson Moneymaker 5568	CAF
16114104	Stevenson Hero I216U	CAF
16114111	Stevenson Profiteer I366U	CAF
16115617	S A V Iron Mountain 8066	CAF
16123702	Riverbend Everready	CAF
16124994	Hoover Dam	CAF
16125094	Stucky Valuebull 8387	CAF
16131886	WFR Moneymaker U806	CAC
16141751	GAR Goode Loaded for SCAR	CAF
16143222	ALC IN Focus I46U	CAF
16147538	H A R B Denali 788 J H	CAF
16148239	ALC Destiny D82U	CAF
16152588	Mill Brae Twenty/Twenty 8069	CAF

16157981	MCATL 1961 278	CAF
16159157	Remington Spartan 93R	CAF
16163740	Sp The Answer 813	CAF
16165411	Limestone Great Divide U254	CAF
16165783	K C F Bennett True Value	CAF
16167353	Bushs Conquer 156	CAF
16172234	BAAR USA SMR Tumbleweed	CAF
16183800	Whitestone Timberline	CAF
16184217	HA Clear Image 8109	CAF
16188840	Kesslers Front Range 7520	CAF
16190333	Koupals B&B Rest EZ 801	CAF
16195227	Limestone Jupiter U449	CAF
16198184	Double AA Old Post Bandolier	CAF
16198752	MCC Breakaway 8132	CAF
16198796	EF Complement 8088	CAF
16203918	Vermilion Benjamin U825	CAF
16203966	Vermilion Extra U867	CAF
16205003	Connealy Response	CAF
16205004	Connealy Stimulus 8419	CAF
16205026	Connealy Analyst 5628	CAF
16207085	Benfield Substance 8506	CAF
16214558	SydGen Liberty GA 8627	CAF
16225298	Wilde's Armor 6210	CAF
16226527	WMR Timeless 458	CAF
16227166	KG Focal Point 8100	CAF
16227857	H A R B Windy 758 J H	CAF
16234398	Connealy Atlas	CAF
16234403	Connealy Reward	CAF

16234420	Connealy Counterpart 882B	CAF
16244342	Styles Upgrade J59	CAF
16246697	Connealy Sullivan 83A	CAC
16249220	Basin Golden Opportunity	CAF
16249234	Basin Big Horn U285	CAF
16255320	ALC IN Focus I35U	CAF
16260415	Basin REA	CAF
16260996	EXAR Bextor 9528B	CAF
16262077	Silveiras Conversion 8064	CAF
16267820	LAR Image Maker 64 211U	CAF
16269759	Duff Generator 864	CAF
16270340	MCC Relevance 828	CAF
16270429	Sitz Upside 547W	CAF
16271937	EXAR Worldwide 9600B	CAF
16274822	EXAR Witness 9595B	CAF
16274832	EXAR Wade In 9738B	CAF
16277300	JFCC Patriot 872	CAF
16283134	Stevenson Ultimate W551	CAF
16283322	Dunlouse Cup Bearer H283	CAF
16285481	HFG North Star 822	CAF
16290873	G A R Progress	CAF
16291709	RM Sequel 8535	CAF
16295688	G A R Prophet	CAF
16313183	SydGen Straight Up 8998	CAF
16317351	Diamond Steakhouse 9378	CAF
16329691	Rito 954 of Rita 7E2 5050	CAF
16340267	Rito 9B30 of Rita 5M13 BR28	CAF
16340278	Rito 9M25 of Rita 5F56 Pred	CAF

16347669	Flat Mountain In Focus 2	CAF
16350631	G A R Twinhearts 8418	CAF
16374061	Basin Payweight 023W	CAF
16374070	Basin Payweight 022W	CAF
16374085	Basin Credence 591W	CAF
16374117	Basin Payweight 077W	CAF
16374123	Basin Clearwater 335W	CAF
16374128	Basin Expedition 243W	CAF
16381027	Royal On Time DRCC 6059S	CAF
16381311	PA Power Tool 9108	CAF
16383553	TRM Mountain Man 892	CAF
16384637	Thomas Powder River 9053	CAF
16388538	SydGen Contract 9410	CAF
16389667	Te Mania Infinity 04 379 AB	CAF
16396499	S A V Thunderbird 9061	CAF
16396519	S A V Brand Name 9115	CAF
16396523	S A V Prosperity 9131	CAF
16396531	S A V Bruiser 9164	CAF
16396545	S A V Solid Gold 9187	CAF
16396681	SD Wagon Train	CAF
16397246	S A V Mustang 9134	CAF
16400604	Hoover Home Run	CAF
16402840	Cedar Chest	CAF
16414948	Remington Heads Up 410T	CAF
16419324	Koupals B&B Diplomat	CAF
16447771	Connealy Consensus 7229	CAF
16458143	Tokach Update 9009	CAF
16463799	LT Bristol 9011	CAF

16468595	Connealy Hemisphere 957L	CAF
16476974	Connealy Premium Product	CAF
16486718	Basin Image Maker 822W	CAF
16513450	Pine Coulee Powerhouse W112	CAF
16526684	H A R B Icon 019	CAF
16533840	RHR Nitro	CAF
16582090	Peak Dot Explosion 99U	CAF