

Hair Shed Research EPD

09/02/2021

Registration No.	Name	Birth Yr	HS EPD	HS Acc	HS Prog
7682162	C R R Emulous 26 17	1972	+ .73	.58	42
9250717	Q A S Traveler 23-4	1978	+ .64	.52	
9891499	Tehama Bando 155	1980	+ .26	.54	
10095639	Emulation N Bar 5522	1982	+ .32	.48	5
10239760	Paramont Ambush 2172	1982	+ .47	.44	2
10705768	R R Traveler 5204	1985	+ .61	.44	3
10776479	N Bar Emulation EXT	1986	+ .26	.76	42
10858958	D H D Traveler 6807	1986	+ .40	.67	15
10988296	G D A R Traveler 71	1987	+ .54	.40	1
11060295	Finks 5522-6148	1988	+ .66	.47	4
11104267	Bon View Bando 598	1988	+ .31	.54	1
11105489	V D A R New Trend 315	1988	+ .52	.51	1
11160685	G T Maximum	1988	+ .76	.46	
11196470	Schoenes Fix It 826	1988	+ .75	.44	5
11208317	Sitz Traveler 9929	1989	+ .46	.43	3
11294115	Papa Durabull 9805	1989	+ .18	.42	3
11367940	Sitz Traveler 8180	1990	+ .60	.53	3
11418151	B/R New Design 036	1990	+ .48	.74	35
11447335	G D A R Traveler 044	1990	+ .57	.44	
11520398	G A R Precision 1680	1990	+ .14	.62	1
11548243	V D A R Bando 701	1991	+ .29	.45	8
11567326	V D A R Lucys Boy	1990	+ .58	.40	1
11620690	Papa Forte 1921	1991	+1.09	.47	7
11741667	Leachman Conveyor	1992	+ .55	.40	2
11747039	S A F Neutron	1992	+ .44	.45	2
11750711	Leachman Right Time	1992	+ .45	.69	27
11783725	Summitcrest Hi Flyer 3B18	1992	+ .11	.44	4
11928774	B/R New Design 323	1993	+ .33	.60	9
11935889	S A F Fame	1993	+ .60	.45	1
11951654	Basin Max 602C	1993	+ .97	.59	16
12007667	Gardens Prime Time	1993	+ .56	.41	1
12015519	Connealy Dateline	1993	+ .41	.55	4
12048084	B C C Bushwacker 41-93	1993	+ .78	.67	28
12075716	Leachman Saugahatchee 3000	1993	+ .66	.40	3
12223258	J L B Exacto 416	1994	- .22	.51	3
12241684	Butchs Maximum 3130	1993	+ .75	.45	7
12309326	SVF Gdar 216 LTD	1994	+ .60	.48	2
12309327	GDAR SVF Traveler 234D	1994	+ .70	.45	5

Breed average EPD for HS is +0.54. Therefore animals with values less than +0.54 are a "breed improver" for that trait. Lower numbers are more desirable for the trait.

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12310707	Sitz Alliance 6595	1995	+ .70	.72	49
12346200	Twin Valley Precision E161	1995	+ .72	.60	5
12350821	S A F 598 Bando 5175	1995	+ .34	.64	20
12396365	Rockn D Ambush 1531	1995	+ .47	.58	5
12448729	A A R Really Windy 1205	1995	+ .52	.42	6
12452829	B A R Ext Traveler 205	1995	+ .13	.62	20
12493607	C A Future Direction 5321	1995	+ .55	.69	14
12502030	S S Traveler 6807 T510	1995	+ .59	.40	2
12514348	O C C Emblazon 854E	1995	+ .46	.70	40
12530601	Rito 6I6 of 4B20 6807	1996	+ .37	.69	36
12548568	G A R Expectation 4915	1995	+ .51	.57	13
12557724	N Bar Prime Time D806	1996	+ .80	.49	5
12618076	S A F Focus of E R	1996	+ .75	.58	4
12689078	Gardens Expedition	1996	+ .29	.50	15
12760345	S A Neutron 377	1997	+ .79	.50	8
12783540	Bon View New Design 1407	1997	+ .49	.73	36
12810693	Vermilion Dateline 7078	1997	+ .82	.56	8
12813196	Wulffs Ext 6106	1996	+ .30	.49	9
13009379	C R A Bextor 872 5205 608	1998	+ .27	.74	84
13026916	Connealy Freightliner	1997	+ .46	.52	10
13044574	Bon View New Design 208	1998	+ .29	.68	38
13050780	Boyd New Day 8005	1998	+ .61	.69	47
13058662	Hylite Right Time 338	1998	+ .40	.71	51
13062750	Bon View New Design 878	1998	+ .73	.80	119
13092912	O C C Great Plains 943G	1997	+ .57	.56	20
13122485	Summitcrest High Prime 0H29	1998	+ .53	.48	9
13207590	Nichols Extra H6	1998	+ .37	.49	5
13254554	G A R Grid Maker	1998	+ .35	.57	11
13286230	B/R New Design 323-9150	1999	+ .76	.43	7
13286246	B/R Destination 727-928	1999	+ .40	.57	23
13320150	Ironwood New Level	1999	+ .37	.61	26
13334022	S A F Strategy 9015	1999	+ .45	.44	2
13337150	B3R 8082 3173 Elector 4013	1998	+ .64	.47	9
13346328	KMK Alliance 6595 I87	1999	+ .51	.50	11
13360311	BT Right Time 24J	1999	+ .71	.50	9
13361440	Leachman Boom Time	1999	+ .60	.41	11
13395329	G A R Retail Product	1999	+ .26	.77	97
13395344	G A R Predestined	1999	+ .43	.86	321

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13412671	Baldrige Nebraska 901	1999	+ .41	.48	6
13433023	WAR Alliance 9126 6006	1999	+ .55	.46	4
13447282	Connealy Lead On	1999	+ .57	.68	33
13448453	L T 598 Bando 9074	1999	+ .60	.41	4
13512009	S A V 8180 Traveler 004	2000	+ .79	.78	122
13521189	Oak Hollow 7709 of 1318 1118	1997	+ .46	.55	13
13544928	S A F Connection	2000	+ .63	.69	35
13574137	S A F Directive	2000	+ .75	.52	13
13588640	B/R New Frontier 095	2000	+ .74	.67	37
13592905	S A V Final Answer 0035	2000	+ .72	.83	157
13627989	O C C Juneau 807J	1999	+ .59	.45	6
13632776	Lemmon Newslines C804	2000	+ .62	.49	5
13645514	RCC Preference	2000	+ .25	.44	7
13676411	Connealy Front Page 0228	2000	+ .54	.43	6
13699216	TC Foreman 016	2000	+ .40	.46	8
13724351	G A R Yield Grade	2000	+ .02	.40	7
13728513	G A R New Design 5050	2000	+ .31	.70	51
13739532	H A Image Maker 0415	2000	+ .33	.69	50
13752642	Nichols Extra K205	2000	+ .39	.66	44
13776378	S S Objective T510 0T26	2000	+ .47	.82	180
13778329	FHCC Hard Rock	2000	+ .51	.41	3
13793826	Rito 112 of 2536 Rito 616	2001	+ .57	.69	50
13818764	Gardens Wave	2000	+ .57	.42	
13828202	Boyd On Target 1083	2001	+ .70	.53	20
13846942	W C C Special Design L309	2001	+ .35	.54	13
13878730	B3R 0004 Electra 8082-8017	2000	+ .70	.56	17
13880818	Mytty In Focus	2001	+ .76	.79	122
13898124	BR Midland	2000	+ .66	.70	50
13936986	Woodhill Foresight	2001	+ .82	.64	38
13966936	Connealy Danny Boy	2001	+ .38	.49	7
13977765	TC Freedom 104	2001	+ .74	.42	3
13992383	H A Power Alliance 1025	2001	+ .64	.46	14
14021056	Morgans Direction 111 9901	2001	+ .35	.54	10
14056739	Rito 2X15 of Rita 8Z22 EXP	2001	+ .37	.44	8
14088249	Rito 2V1 of 2536 1407	2002	+ .47	.44	5
14088421	SydGen Rocky Road 2060	2002	+ .27	.54	18
14088423	SydGen Contact	2002	+ .81	.63	37
14093248	Sitz Tradition RLS 8702	2002	+ .76	.40	3

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14099897	SydGen Focus 2088	2002	+ .72	.43	11
14106303	SydGen 1407 Corona 2016	2002	+ .34	.78	104
14146239	B3R 1147 8100 Bando 8092	2001	+ .24	.62	33
14159119	B C Matrix 4132	2002	+ .81	.62	32
14188956	B/R Ambush 28	2002	+ .52	.63	38
14200755	Rito 2 878 of 2536 BVND 878	2002	+ .17	.46	7
14216491	Connealy Onward	2002	+ .79	.55	19
14218253	LCC New Standard	2002	+ .85	.44	4
14222612	G A R Integrity	2002	+ .24	.52	18
14222615	G A R Solution	2002	+ .28	.43	6
14230122	EXAR New Look 2971	2002	+ .29	.45	5
14237017	TC Gridiron 258	2002	+ .29	.47	2
14292649	Dr J Analyst M250	2002	+ .36	.52	17
14311951	Sinclair Net Present Value	2002	+ .65	.62	24
14327307	Spur Success 2801	2002	+ .57	.44	12
14385172	Basin Expedition N189	2003	+ .60	.60	39
14385395	B/R 65R Genesis	2003	+ .65	.50	9
14395270	SydGen OnStar 3217	2003	+ .72	.42	10
14397585	B C Belle Ringer 854E 4053	2003	+ .34	.40	9
14417348	K C F Bennett Coalition SCC	2002	+ .55	.45	6
14419184	G T Shear Force	2003	+ .52	.53	18
14444490	Shermans Brushmaster	2003	+ .71	.42	10
14455608	B3R M070 Stockman 9180	2002	+ .61	.62	27
14459636	B3R M048 Cafd 0125	2002	+ .23	.54	14
14502851	L T Bandwagon 3105	2003	+ .68	.42	1
14512407	Riverbend Mile High 3718	2003	- .08	.59	36
14513180	Three Trees Next Step	2003	+ .42	.40	5
14528330	Connealy Reflection	2003	+ .35	.45	
14560689	ALC Big Eye D09N	2003	+ .33	.64	40
14660859	Quaker Hill Objective 3J15	2003	+ .66	.53	17
14675445	B/R New Day 454	2004	+ .53	.57	15
14686137	Basin Franchise P142	2004	+ .70	.49	7
14691231	GDAR Game Day 449	2004	+ .72	.59	17
14730449	B3R N117 Rock D AM 203	2003	+ .62	.57	16
14737893	B3R N193 854E Emblazon 9181	2003	+ .15	.63	24
14739204	S A V Net Worth 4200	2004	+1.14	.75	76
14740749	Gardens Prime Star	2004	+ .45	.58	29
14754153	Woodlawn Charge On 14	2004	+ .78	.41	8

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14768734	Rito 4S6 of 2536 SA	2004	+ .62	.50	19
14769662	Boyd Landmark 405	2004	+ .62	.43	12
14777016	MCC Daybreak	2004	+ .98	.64	21
14793708	Woodhill Mainline	2004	+ .54	.54	20
14823097	Birks Midland 263	2003	+ .48	.57	22
14843347	Connealy Meat Maker 4834	2004	+ .55	.53	25
14844711	TC Total 410	2004	+ .68	.65	39
14845081	Connealy Grant 208 4246	2004	+ .23	.43	6
14850409	Summitcrest Complete 1P55	2004	+ .70	.54	9
14851313	SCR Promise 4042	2004	+ .44	.43	9
14880311	SydGen Triumph	2004	+ .55	.43	9
14885809	K C F Bennett Performer	2004	+ .67	.47	13
14963730	Sitz Upward 307R	2005	+ .77	.61	12
14969822	Sinclair Excellency 5X25	2005	+ .33	.40	4
14977480	SydGen Bullet	2005	+ .68	.43	12
15002742	B3R P061 M048 Cafd M098	2004	+ .51	.47	11
15012747	EXAR 263C	2005	+ .68	.42	5
15030205	SydGen 928 Destination 5420	2005	+ .43	.48	5
15034593	BC 7022 Raven 7965	2005	+ .42	.48	11
15056826	HIGH PRIME 4037	2004	+ .46	.41	5
15098880	GAR-EGL Protege	2004	+ .66	.50	9
15109865	S A V Bismarck 5682	2005	+ .69	.59	18
15140670	B P F Special Focus 504	2005	+ .20	.59	24
15142281	Rito Revenue 5M2 of 2536 Pre	2005	+ .50	.50	7
15148585	Connealy Power One	2005	- .02	.52	15
15148659	Connealy Thunder	2005	+ .48	.67	36
15161251	HA Program 5652	2005	+ .82	.55	21
15163271	OAK Hollow 0578 of 1927 0038	2005	+ .18	.45	7
15169496	TC Friction 5130	2005	+ .56	.47	8
15170660	CAR Efficient 534	2005	+ .53	.45	11
15266350	Rito 6EM3 of 4L1 Emblazon	2006	+ .56	.48	6
15283299	G A R Predestined N5905	2005	+ .35	.54	20
15313140	HARB Pendleton 765 J H	2005	+ .78	.51	14
15316436	FHCC Affirmative	2004	+ .48	.51	7
15327898	B3R Tender Ten R065	2005	+ .62	.54	11
15330743	SydGen C C & 7	2006	+ .39	.75	64
15332022	Basin Payweight 107S	2006	+ .55	.40	5
15337433	SydGen Mandate 6079	2006	+ .43	.51	12

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Registration No.	Name	Birth Yr	HS EPD	HS Acc	HS Prog
15354674	SydGen Trust 6228	2006	+ .40	.72	57
15464043	G A R Ultimate	2006	+ .36	.40	5
15478191	Woodhill Foresight 270N-S62	2006	+ .82	.48	19
15491633	Connealy Forward	2006	+ .61	.59	21
15491720	Connealy In Focus 4925	2006	+ .60	.68	56
15511451	S Chisum 6175	2006	+ .95	.41	5
15513367	Connealy Consensus	2006	+ .31	.41	
15539210	F V 20K King 308M	2002	+ .50	.40	11
15543702	Connealy Impression	2006	+ .75	.66	38
15553710	SydGen Turbo 6684	2006	+ .49	.51	15
15585939	Mohnen Dynamite 1356	2006	+ .84	.59	24
15630936	ALC Shooter B01S	2006	+ .38	.42	6
15684027	B3R S192 Rito 0128 1043	2006	+ .65	.48	8
15688351	S A V Priority 7283	2007	+ .55	.47	5
15688392	S A V Pioneer 7301	2007	+ .11	.75	79
15692041	B3R S053 GAR Ret Prd N309	2006	+ .61	.58	19
15707145	S A V Providence 6922	2006	+ .42	.40	2
15719841	A A R Ten X 7008 S A	2007	+ .77	.68	40
15748572	Yon Future Focus T219	2006	+ .50	.65	23
15804077	Koupal Juneau 797	2007	+ .41	.56	29
15825403	Schurr 77 X723 6001	2007	+ .66	.43	9
15832579	Connealy Answer 71	2007	+ .54	.48	7
15832714	Connealy Mentor 7374	2007	+ .28	.49	8
15832750	Connealy Right Answer 746	2007	+ .53	.58	12
15840414	TC Aberdeen 759	2007	+ .68	.48	
15848422	Connealy Final Product	2007	+ .25	.60	23
15876478	B3R S350 Cafd P050 4167	2007	+ .61	.42	4
15899735	MOGCK Sure Shot	2007	+ .70	.52	9
15908864	Shipwheel Chinook	2007	+ .49	.42	6
15914297	S V F New Design T252	2007	+ .56	.40	3
15915090	SydGen Survivor 7651	2007	+ .56	.45	8
15915113	SydGen Sure Bet	2007	+ .60	.48	8
16004857	Werner War Party 2417	2007	+ .32	.45	7
16027094	Sinclair Grass Master	2008	+ .46	.45	7
16028029	B3R Retail Tender T232	2007	+ .56	.53	9
16047404	Basin Excitement	2008	+ .50	.66	38
16071141	B3R Prime Wave T299	2007	+ .52	.63	20
16098411	FHCC Specialist 7540	2007	+ .45	.49	12

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16107774	S A V Brilliance 8077	2008	+ .44	.56	15
16115617	S A V Iron Mountain 8066	2008	+ .88	.45	6
16124994	Hoover Dam	2008	+ .19	.79	117
16150299	TC Thunder 805	2008	+ .19	.49	11
16159072	Woodhill Gusto U43	2008	+ .46	.47	7
16198796	EF Complement 8088	2008	+ .67	.49	7
16205036	Connealy In Sure 8524	2008	+ .75	.40	1
16207085	Benfield Substance 8506	2008	+ .14	.58	20
16208270	SchurrGene 2063 2916	2008	+ .52	.42	8
16214558	SydGen Liberty GA 8627	2008	+ .33	.50	7
16226527	WMR Timeless 458	2008	+ .64	.67	45
16234403	Connealy Reward	2008	+ .34	.46	12
16237970	Apex Windy 078	2008	+ .92	.51	14
16265642	Summitcrest Focus 2U66	2008	+ .80	.51	11
16282722	RCC Preference 867	2008	+ .26	.55	19
16290873	G A R Progress	2008	+ .52	.53	9
16290880	G A R Progression	2008	+ .26	.46	4
16295688	G A R Prophet	2008	+ .45	.68	44
16313183	SydGen Straight Up 8998	2008	+ .37	.42	6
16317735	B3R Back To Basics U077	2008	+ .41	.69	33
16319418	B3R Replicate U019	2008	+ .56	.47	6
16364794	Coleman Regis 904	2009	+ .38	.41	3
16381311	PA Power Tool 9108	2009	+ .19	.58	18
16388600	SydGen Wake Up Call 9446	2009	+ .69	.47	12
16389922	BUBS Tom Tom W02	2009	+ .30	.53	13
16396523	S A V Prosperity 9131	2009	+ .77	.65	43
16397246	S A V Mustang 9134	2009	+ .86	.51	19
16406691	Wagners Game Plan 840 903	2009	+ .73	.50	15
16413257	Ellingson Identity 9104	2009	+ .63	.54	18
16430795	K C F Bennett Absolute	2009	+ .52	.72	67
16430862	K C F Bennett Southside	2009	+ .44	.55	14
16433346	S Summit 956	2009	+ .50	.44	7
16447771	Connealy Consensus 7229	2009	+ .37	.60	9
16467233	W R A Vindicator W2	2009	+ .51	.50	13
16468595	Connealy Hemisphere 957L	2009	+ .45	.41	4
16476949	Baldrige Waylon W34	2009	+ .95	.47	8
16476952	Baldrige Workhorse W74	2009	+ .59	.42	4
16495852	LakeView Perfect 905	2009	+ .41	.42	5

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16524794	Yon Final Answer W494	2009	+ .32	.60	14
16541214	EXAR Upshot 0562B	2010	+ .87	.49	11
16590087	Boyd Cowboy 908	2009	+ .58	.46	9
16611094	FHCC Completion	2009	+ .40	.54	13
16631326	SydGen Dealer 9883	2009	+ .17	.67	33
16634524	B3R W118 96 T146 S170	2009	+ .58	.47	5
16647203	Stevenson Rockmount RX933	2010	+ .95	.43	5
16665803	LD Emblazon 999	2009	+ .40	.41	4
16687543	Hoover Headliner J32	2010	+ .49	.41	3
16692552	Plattemere Weigh Up K360	2010	+ .75	.68	40
16711095	SydGen Googol	2010	+ .42	.41	2
16731737	Ellingson Scotsman 0010	2010	+ .78	.47	12
16748826	Jindra Double Vision	2010	+ .53	.49	12
16748950	Connealy Combination 0188	2010	+ .37	.42	4
16752262	Connealy Capitalist 028	2010	+ .37	.62	27
16761479	Connealy Confidence 0100	2010	+ .62	.57	11
16761484	Connealy Irish 0204	2010	- .01	.42	9
16761497	Connealy Counselor	2010	+ .13	.55	14
16764044	KM Broken Bow 002	2010	+ .32	.60	32
16771888	K C F Bennett Homestead	2010	+ .40	.54	19
16772185	PA Safeguard 021	2010	+ .61	.51	11
16778087	Our Place Prominent 928	2009	+ .79	.43	6
16860273	Thomas Top Hand 0536	2010	+ .56	.43	7
16879074	Coleman Charlo 0256	2010	+ .20	.44	7
16896296	Connealy Uptown 098E	2010	+ .53	.44	8
16897926	Connealy Direct Deposit	2010	+ .12	.43	7
16904477	SydGen Lunesta 1016	2010	+ .23	.47	7
16916944	V A R Reserve 1111	2011	+ .86	.66	35
16924332	WR Journey-1X74	2010	+ .48	.42	9
16924687	Hoover Emperor	2010	+ .15	.44	5
16925771	Quaker Hill Rampage 0A36	2010	+ .81	.58	25
16927035	B3R Real Money X523	2010	+ .81	.59	18
16933958	G A R Sunrise	2010	+ .64	.64	46
16969555	Connealy Earnan 076E	2010	+ .23	.65	42
16983331	MAR Innovation 251	2011	+ .75	.52	16
16984170	R B Tour Of Duty 177	2011	+ .47	.59	27
17007985	S Titlest 1145	2011	+ .51	.44	13
17016597	S A V Resource 1441	2011	+ .66	.67	49

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17016630	S A V Angus Valley 1867	2011	+ .39	.56	19
17028963	Connealy Black Granite	2011	+ .39	.57	19
17029809	Connealy Front & Center	2011	+ .01	.41	8
17031465	Connealy Comrade 1385	2011	+ .31	.58	24
17038724	Basin Payweight 1682	2011	+ .91	.71	65
17065105	Schiefelbein Effective 61	2011	+ .45	.47	9
17072305	Ellingson Plateau 1155	2011	+ .70	.54	19
17073498	FHCC Convenience	2010	+ .46	.40	3
17076135	MCR Horizon 081	2011	+ .69	.41	7
17082311	EF Commando 1366	2011	+ .49	.46	5
17091363	Thomas Up River 1614	2011	+ .45	.51	10
17102085	Mogck Bullseye	2011	+ .41	.65	33
17160560	EXAR Denver 2002B	2012	+ .81	.49	10
17171587	V A R Generation 2100	2012	+ .59	.49	10
17176063	Sitz Lightning 659Z	2012	+ .44	.48	10
17198358	Woodland Foremost	2012	+ .58	.45	7
17217486	B3R Pioneer Wave Y409	2011	+ .34	.51	10
17236055	SydGen Black Pearl 2006	2012	+ .53	.54	14
17259012	K C F Bennett Fortress	2011	+ .51	.62	36
17262374	JMB Traction 292	2012	+ .97	.45	13
17262835	V A R Discovery 2240	2012	+ .61	.56	15
17264322	Yon Future Force Z77	2011	+ .52	.55	17
17276958	Curtin Lumineer 2001	2011	+ .58	.45	6
17282010	Indian Springs Jack Daniel	2011	+ .37	.40	4
17286792	Mohnen Long Haul 502	2012	+ .49	.52	12
17287387	S S Niagara Z29	2012	+ .50	.52	19
17302304	Connealy Courage 25L	2012	+ .85	.61	30
17306288	Hoover Inspiration	2012	+ .50	.44	6
17307074	Deer Valley All In	2012	+ .78	.60	24
17314326	Koupal Advance 28	2012	+ .24	.61	36
17318827	S A V Rifleman 2811	2012	+ .83	.45	11
17322011	Ellingson Dominance 2079	2012	+ .72	.41	7
17322088	Ellingson Format 2205	2012	+ .67	.40	5
17322785	Koupals B&B Fort Knox 2077	2012	+ .72	.41	9
17328461	G A R Sure Fire	2012	+ .20	.71	72
17331233	CTS Remedy 1T01	2011	+ .38	.68	52
17351674	Mill Bar Hickok 7242	2012	+ .27	.64	46
17354145	G A R Momentum	2012	+ .49	.52	13

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Hair Shed Research EPD

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Registration No.	Name	Birth Yr	HS EPD	HS Acc	HS Prog
17408223	SydGen Multi Tool 2432	2012	+ .21	.40	4
17425053	Rathbun Accelerate Z523	2012	+ .32	.49	11
17470682	SF Speedway A187	2013	+ .32	.40	8
17501893	SydGen Exceed 3223	2013	+ .39	.56	26
17521423	SydGen FATE 2800	2012	+ .59	.60	28
17521621	B3R Z151 Rito 3TDD X325	2012	+ .36	.48	11
17521640	B3R Z180 Heifer Safe	2012	+ .42	.57	18
17521647	B3R Grass Master Z187	2012	+ .80	.55	13
17522330	B3R Basic Z235	2012	+ .43	.40	4
17551686	FHCC Absolute Ease 3115	2012	+ .93	.44	5
17577916	Deer Valley Patriot 3222	2013	+ .46	.49	12
17585576	Connealy Confidence Plus	2013	+ .37	.47	11
17585606	Connealy Impact	2013	+ .94	.63	30
17585764	Connealy Commander	2013	+ .54	.57	21
17586776	Connealy Cool 39L	2013	+ .51	.48	15
17603620	Hoover Elation M123	2013	+ .57	.51	15
17603627	Hoover Hawkeye	2013	+ .41	.48	9
17632447	Raven Powerball 53	2013	+ .41	.42	4
17633839	S A V Renown 3439	2013	+ .36	.47	10
17666102	LD Capitalist 316	2013	+ .32	.42	7
17680548	Bruns Top Cut 373	2013	+ .64	.62	29
17688931	Ellingson Boardwalk 3032	2013	+ .34	.58	31
17694823	Ginger Hill Tequila 305	2013	+ .43	.53	28
17701918	FHCC Absolute Value 3525	2013	+ .19	.40	2
17774305	G A R 100X	2013	+ .55	.40	3
17779610	B3R Electorate A229	2013	+ .51	.63	32
17817177	Tehama Tahoe B767	2013	- .07	.47	13
17820603	SydGen Rock Star 3461	2013	+ .40	.45	9
17831034	Quaker Hill Manning 4EX9	2014	+ .84	.44	7
17853196	BUBS Southern Charm AA31	2013	+ .47	.66	53
17882682	Hoover No Doubt	2014	+ .48	.64	35
17888624	Connealy Glory 4127	2014	+ .07	.47	12
17908266	EXAR Stud 4658B	2014	+ .47	.40	4
17909143	RS Surveyor 1422	2014	+ .91	.40	6
17913751	Basin Rainmaker 4404	2014	+ .46	.49	20
17923520	S A V Regard 4863	2014	+ .30	.41	4
17926446	Spring Cove Reno 4021	2014	+ .18	.49	16
17932714	Ellingson Chaps 4095	2014	+ .47	.62	40

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17933463	Ellingson Roughrider 4202	2014	+ .18	.70	79
17950219	3F Epic 4631	2014	+ .61	.42	9
17972810	Jindra Acclaim	2014	+ .53	.53	26
18025296	G A R Method	2014	+ .96	.52	22
18036327	Barstow Bankroll B73	2014	+ .59	.41	9
18058826	CK Josey Wales 026B	2014	+ .48	.42	7
18094501	Werner Flat Top 4136	2014	+ .23	.40	7
18150495	Yon Full Force C398	2014	+ .37	.63	44
18156972	MGR Treasure	2015	+ .72	.41	7
18159093	S Powerpoint WS 5503	2015	+ .62	.47	16
18170011	SydGen Sizzle	2015	- .13	.55	21
18170041	SydGen Enhance	2015	+ .30	.72	95
18176611	Yon Swamp Fox C649	2014	+ .25	.54	26
18176733	Yon Palmetto	2014	+ .16	.42	7
18181431	Ellingson Top Shelf 5050	2015	+ .76	.42	8
18182675	Ellingson Transcend 5212	2015	+ .81	.43	8
18184147	Basin Paycheck 5249	2015	+ .74	.41	8
18209629	Hoover Chief	2015	+ .75	.41	5
18219911	Baldrige Command C036	2015	+ .28	.40	7
18229425	Baldrige Bronc	2015	+ .84	.45	11
18229487	Baldrige 38 Special	2015	+ .83	.76	111
18286467	HA Cowboy Up 5405	2015	+1.17	.57	27
18294795	MBG Delmonico	2015	+ .69	.47	11
18333424	G A R Proactive	2015	+ .58	.49	14
18379347	EXAR Monumental 6056B	2016	+ .28	.42	8
18394896	Sitz Powerball 643D	2016	+ .58	.46	14
18414912	TEX Playbook 5437	2015	+ .78	.55	27
18451499	BUBS Southern Son 33C	2015	+ .30	.41	5
18470294	Hoover Cut Above P427	2015	+ .33	.48	10
18486587	Yon High Cotton D885	2015	+ .44	.48	13
18542959	Ellingson Homegrown 6035	2016	+ .55	.61	42
18543019	Ellingson Homestead 6030	2016	+ .47	.60	35
18543034	Ellingson Regiment 6362	2016	+ .33	.41	7
18543414	Mead Magnitude	2015	+ .69	.47	14
18543644	Hoover Know How	2016	+ .88	.45	10
18578965	S A V Raindance 6848	2016	+ .57	.41	6
18587751	Baldrige Chairman	2016	+ .66	.62	38
18608253	DL Dually	2016	+ .95	.46	15

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Hair Shed Research EPD

09/02/2021

Registration No.	Name	Birth Yr	HS EPD	HS Acc	HS Prog
18624785	Tehama Bonanza E410	2016	+ .17	.50	19
18636043	G A R Inertia	2016	+ .71	.45	13
18658677	Casino Bomber N33	2016	+ .11	.41	10
18675107	E W A Peyton 642	2016	+ .41	.52	22
18688213	Bakers Northside 6007	2016	+ .52	.51	22
18810548	Yon Chattooga E46	2016	+ .51	.56	29
18814084	Yon Full Tank E472	2016	+ .09	.40	5
18827828	Deer Valley Growth Fund	2017	+ .80	.59	35
18827829	Deer Valley Wall Street	2017	+ .75	.42	6
18839231	Connealy Mainstay	2016	+ .12	.48	16
18878453	Yon Payweight E1075	2017	+ .93	.40	6
18886545	Full Slate 58	2015	+ .23	.46	10
18899063	Ellingson Rider Pride 7282	2017	+ .59	.55	31
18899092	Ellingson Authorize 7057	2017	+ .21	.54	24
18935529	Werner Fortress 7073	2017	+ .43	.43	10
18952921	MOGCK Entice	2017	+ .12	.66	53
19054050	E W A Ascend 7306	2017	+ .66	.49	16
19054061	E W A West Point 7258	2017	+ .17	.45	13
19125070	Hoover Special Edition S454	2017	+ .68	.41	6
19141180	Yon Bowery F106	2017	+ .67	.42	7
19162202	Mead Perseverance R1266	2017	+ .55	.45	12

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Selection Tools for Heat Tolerance September 3, 2021 Update



Research Report: Selecting for Hair Shedding

Early summer hair shedding is an indicator trait for heat tolerance and tolerance to fescue toxicosis. Hair shedding is evaluated on a 1-5 visual appraisal scale, where 5 is a full winter coat and 1 is completely slick. While there is some variability in shedding patterns between individuals, cattle tend to shed from front to back and top to bottom. So, compared to a 5 (0% shed), a 4 (25% shed) has lost her winter coat around her head and neck. A 3 (50% shed) has additionally lost hair along her topline and further down her brisket. A 2 (75% shed) is usually only holding hair on her flanks and around her belly. Again, a 1 indicates 100% shed out.

For producers in heat-stressed areas and producers grazing endophyte-infected (hot) fescue, hair shedding is an evaluation of environmental adaptability and cow performance. Cattle that shed their winter coat earlier in the season are less stressed and therefore can put the energy that might have gone to thermoregulation towards growth and taking care of a calf.

Evaluating hair shedding

Since 2011, the American Angus Association® has been involved with different research projects investigating the effects of early hair shedding and the possibility for selection of the trait. Through two different projects, one in conjunction with Mississippi State University and North Carolina State University and another with the University of Missouri, 14,465 scores from 8,642 individual cattle have been collected. Almost all data came from herds in the Southeast and Midwest subjected to heat stress and/or grazing toxic fescue.

In summer 2019, then Angus Genetics Inc. (AGI) intern Harly Durbin, Ph.D. student from the University of Missouri, analyzed these phenotypes to create a prototype genetic evaluation and, subsequently, a research EPD for Hair Shed. Within this analysis, it was found that hair shedding is moderately heritable ($h^2 = 0.42$) falling being more heritable than weaning weight and slightly less heritable than carcass marbling. The model includes a fixed contemporary group that accounts for scoring age, fescue or non-fescue pasture, and ranch origin. Using Angus data, a moderate genetic correlation between a dam's hair shedding score and the weaning weight of her calf exists, meaning cows that shed early in the season tend to wean heavier calves.

A repeated records model also is used, which means multiple scores on a single animal collected in different years can be reported to the Association. If the score meets contemporary group standards, it will be used in the genetic evaluation for hair shedding. When evaluating traits that use repeated records, the trait's heritability can be used to estimate how much each additional record is going to improve EPD accuracy. Based on the heritability of hair shedding (~ 0.42 in Angus cattle), it is recommended producers collect at least three years of data on each animal. However, additional data will never be detrimental, and ideally, producers will record hair shedding scores every year on their whole herd.

Selection Tools for Heat Tolerance September 3, 2021 Update



Collecting the scores

Hair shedding scores should be collected between mid-April to mid-June. It is recommended producers score cattle when they see the most variability in shed-off, which depends partly upon location. For most producers in the United States, this will normally be between early- and mid-May. In order to create large and accurate contemporary groups, producers should aim to score cattle on the same day or within a few days of each other. For cattle to be included in the same contemporary group, they must be scored within seven days of each other.

A significant effect of age on hair shedding exists showing yearlings, 2-year-olds and 3-year-olds have higher average hair shedding scores when compared to mature cows. Therefore, cattle should be at least yearlings when hair shedding scores are recorded. It is important producers score their entire herd, so they can sort cattle into large enough contemporary groups to account for age effects for genetic evaluation purposes.

Research Sires

This research report contains a list of research EPDs on A.I. permitted sires who have an EPD accuracy value of 0.40 or higher. The report's intention is to generate conversation among the membership and gain feedback on how well the hair shed EPD describes what is being seen in the industry. When evaluating the research EPDs, it is important to remember that lower EPDs are more favorable as they indicate an animal who has the genetic potential to shed off earlier. Breed average for Hair Shed EPD is 0.54. Therefore, animals with values less than 0.54 are a "breed improver" for that trait.

Hair shed EPD will remain in the research EPD format for the time being. This new tool is not indicative of hair length or type. It is a tool for environmental adaptability for breeders in heat stressed and fescue-burdened regions. Producers in these regions are encouraged to start collecting hair shed data on their operations to be included in this research population. If producers have been collecting this data and would like to send them into the Association, they can do so through AAA Login via spreadsheet submission. Members who have continued questions about the new trait or data collection should feel free to call the Association's Performance Programs Department, (816) 383-5100.