

畜產試驗所新竹分所 HsinChu Branch Station, Livestock Research Institute

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> > Date : 2019.06.04





			能審核標準」修正歷 erformance Require	
			Bull Frozen Semen"	
	乳產量	美國US	乳產量預測遺傳能力 (PTAM)	●審核標準為輸出
	(milk yield)	加拿大Canada	乳產量預估育種價 (EBVM)	國當前所有參加
		日本Japan	乳產量預估育種價 (EBVM)	後裔檢定公牛排
	1	荷蘭Netherlands	乳產量指數(MPI)	行榜前50%之平
	乳成分產量 (component)	美國US	乳脂量預測遺傳能力 (PTAF) 乳蛋白量預測遺傳能力 (PTAP)	均值範圍下限。 ●(The auditing
		加拿大Canada	乳脂預估育種價(EBVF) 乳蛋白預估育種價(EBVP)	standard is the
		日本Japan	乳脂預估育種價(EBVF) 乳蛋白預估育種價(EBVP)	average range of
		荷蘭Netherlands	乳脂指數(FPI) 乳蛋白指數(PPI)	the top 50% of all recently progeny-
\mathbb{N}	體型	美國US	體型評分預測遺傳能力(PTAT)	tested AI bulls in the exporting
	(type)	加拿大Canada	體型結構(CONF)	country.)
		日本Japan	體型評分預估育種價(EBVT)	country.)
V		荷蘭Netherlands	體型總分(FINAL)	
	進口乳牛冷冽	精液不含以下基	因(without gene carrier): 症(BL)基因、複合性脊椎畸	紅色皮毛基因(Red
	間 color)、4 酸症(CITR)表		企(PL)举凶、復百任有惟呵	™症(℃)/基因、1444



						in da	atabase as	of 2019-0	4-29		
	AY F	AY M	BS F	BS M	GU F	GUM	HO F	HOM	JE F	JE M	
50K	0	20	91	5652	0	0	20764	37586	914	4938	
50K2	157	423	137	14878	22	178	37260	46070	887	3131	USA
3K	3	0	473	11	5	0	49024	3908	9679	196	00/1
HD	12	520	3	182	26	120	2051	2034	198	212	
640K	0	0	0	0	0	0	0	19	0	0	
LD	973	18	528	163	0	0	165314	8634	10916	250	60732303
GGP	56	5	481	288	0	4	40381	13423	12530	1509	
GHD	448	430	175	576	332	251	16070	13314	973	1330	Top 200 TPI' Genomic Young Bulls
GP2	361	81	621	1211	163	8	58585	24914	17141	3181	Us happened therein. Server states to \$250,0187 with no devoters in their model for fundaments or type.
ZLD	0	0	85	20	1	0	107170	1145	10668	152	the manufacture is the state of
ZMD	568	1	2	0	0	0	2701	588	2	21	Vinningan a
ELD	0	0	0	0	0	0	1027	300	5	7	Bud here VING MALE AND ALL THE ALL AND ALL ALL ALL ALL ALL ALL ALL ALL ALL AL
LD2	0	0	16	407	0	0	13571	3084	1990	33	D BREDYNAATY NAMPYRLE-ET TO TY UD-HA SOMPONIOU TH DA DOW DAD TY ZTO ALS TA 4.1 A.1 1AD TO 1.3
GP3	836	137	1213	2697	1301	7	93965	36981	29136	5418	3 BT GEN HORLE DEBAGET. TO TY INF SECONDARI DI HI 1551 JUN 77 JUN 15. 71 14. 14. JUN 75 JU 4 DELECTOR UNICON TAMPAGET. TO TY INF SECONDARY 75. 72 JUN 200 77 JUN 13. 72 15. 40. 146 75 15.
ZL2	4	0	430	24	0	0	315646	7891	23424	384	I FEO NUME IMPERAL-ET. TO TY HAN SUPPOSED IN AN UNA 207 TH 2.81 KB TH 4.8 AT 1.86 TH 2.1
ZM2	0	13	13	18	18	20	19989	1812	4130	297	# 6-64/80/FRZ3D/FWCTWO-CT TH TP 04/81460/1000 30 77 1314 170 78 2.46 82 74 55 40 146 75 22 7 PRE-THEE ACURANT TH TO GRAAL PROTORNO TO USE 1007 240 77 276 42 78 44 58 148 78 15
GH2	109	453	16	1150	11	168	6893	11923	697	1625	PROCEEDING MODALAHCT TETP INF INFECTION IN INFIDE TO A TO A TO A A TO A A TO A A
G7K	795	1	148	7	4	0	36684	513	13359	33	# PRODUNCEER MALETROAT THIP BH 2004/011000 64 bh 1644 200 76 3.76 7.0 3.2 3.0 3.00 74 3.3 16 MR 64/0104700 0000047047 TO TV 6044 30/000000 86 46 1000 227 80 3.71 8.7 16 4.8 4.6 146 76 2.2
GP4	873	107	1398	2287	519	130	91728	31489	22975	5004	PRE-TREE-FRANKLIGT TRIP wet approximate an 20 train 101 7 and an 20 train 10 and 20 train 10 a
ZL4	102	5	470	62	0	0	297059	9316	14452	273	10 BOLFFERENDOLET. THIP ON SOMOUND FROM 100 20 76 272 54 70 76 73 70 78 11
AMD	0	0	0	0	0	0	506	8	10	0	6440/9494.LPV(36440.4)[T T0 TP IIIel 3014014684 80 tot 1990 210 77 2.00 56 2.0 2.0 2.0 2.0 2.0 19 1.1 14 1.0 2002417 CD TV IIIel 3040 200 77 2.00 70 20 77 2.0 78 78 180 198 20
GF1	0	0	2	0	0	0	0	0	0	0	15 MELANITY RENCIPE THY MERT TH TP. ON 149014000 74 75 1770 000 77 500 33 75 63 41 175 78 13
BG1	1	0	18	1	0	0	6262	39	207	2	M DENEVO MASE ROYAL ET TO TO HOMA: MINORAL BIO HOMA: MINORAL DE MINORAL DE MINORAL ED MAN TO ADREMA LEDYAND TO TO HOMA: MINORAL DE MINORAL D
GMD	495	144	1241	2967	551	124	34807	26258	32265	6297	PUBLIAD 644 BOLURONET TRIP SHI 814801608 48110 0034 206 78 2.00 7.1 74 3.6 53 2.00 78 15
G9K	843	10	1062	201	0	0	186430	4113	64168	1362	WWRTARLAUCYMILLIONALCT TRTP WH UROVINIE NE NO 1100 215 78 270 78 72 44 3.5 1.62 74 8.3 DI CCD PMMA/31 URINELICT TRCD WH BUNCHMAR IN NO 1130 19 77 2.01 6.1 TO 4.8 2.0 2.00 78 3.0
ZL5	999	29	1696	63	712	146	848671	27997	67166	750	21 DENOVO-888/DENELE-ET TITTE ##44 20101007 01111 U21 241 77 2.78 11 79 34 21 U.9 79 2.1
50K3	0	1	0	5	0	0	59	733	0	13	BIGEORD VIDEOR OF THE PROPERTY OF AND A STATE THE THE PERTY OF THE THE PERTY OF TTHE PERTY OF THE PERTY OF TH
ZU1	0	0	0	0	0	0	1798	0	478	0	24 MEMA-TOLOHINADAR TIT TP VAY HIGTORE 48 113 131 211 77 2.06 43 73 3.1 14 3.72 78 2.0
ID3	0	0	0	0	1	0	154	4	4	0	IS BEORN DYNARIY MANDONAET. YD YY YDRAN ARUNOLOD AR 16514. 777 200 77 379 71 71 73 58 17 187 73 74 MEMAETEND YMANDONAET. TH TY: DRI. RECHTYD NA O'F UND 200 77 380 58 78 18 78 18 78 18
AM2	0	1	0	0	0	0	826	78	0	7	IN MONOTOLOGIUMELIMUK BUNCT THIT? UNIT MOTOROTOGI IN AF VEHIL 202 77 JUNI AA VE AN
EL7	0	0	0	0	0	0	337	278	17	3	28 REDAMOANNER COPYRIGHT ET TRITP INH 2004011807 17 48 2180 104 77 2.71 58 73 14 1.8 2.85 18 2.8
DEA	0	0	0	1717	0	0	0	0	0	0	BANDY VALLEY DRETALD ET TR. TP UNL RESPONDENCE NU TR. 1986 174 77 871 71 71 71 73 24 34 247 78 24 IN HURTHENLEA RECEIVED EVANUE TR. TC VAMA INTERCENTING AN UNIT VAM 78 276 73 75 26 33 448 75 43
VM1	0	1	127	8	0	5	13507	436	2515	474	
WMD	0	0	0	0	0	0	110	0	88	4	
Total	7635	2400	10446	34595	3666	1161	2469349	314888	340994	36906	
									/		



USA Holstein genomic young bulls

2019

- 新增美國基因體檢測年青公牛冷凍精液進口,進口標準採當 前所有參與後裔檢定公牛排行榜前10%之平均值範圍下限。 Increase USA Holstein genomic young bulls frozen semen. The auditing standard is the lower limit of the average range of the top 10% of all recently progenytested AI bulls.
- 請進口商明確標示該公牛屬於後裔檢定公牛或是基因體檢測 年青公牛。有關加拿大、日本、德國、荷蘭及法國之基因體 檢測選拔指數,待相關資訊完備後再行研議。

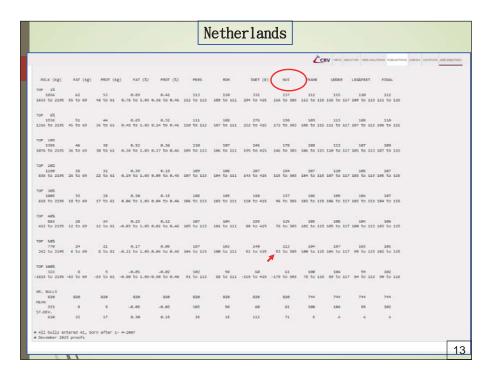
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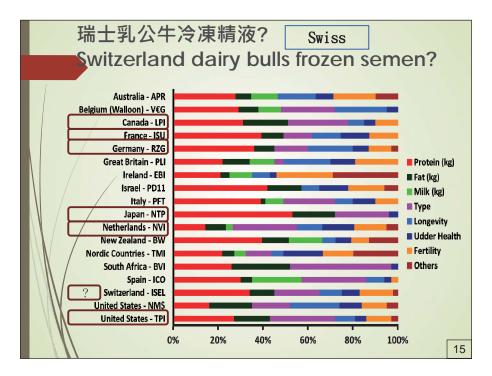
		AVERAGE	ANDR	ANGE OF	PROOF	S FOR R	ECENTLY	PROGE	NY-TEST	ED AI BU	JLLS"			(基因體
	PRO	DTEIN	F	AT				COMP	OSITES					檢測年青
Bulls	PTAP	PTA%P	PTAF	PTA%F	PTAM	NMS	PTAT	UDC	FLC	PL	DPR	SCS	TPI	公牛進口
TOP 1%	72 (66 to 91)	0.13 (0.12 to 0.19)	96 (89 to 121)	0.31 (0.27 to 0.43)	2418 (2150 to 3801)	819 (768 to 992)	3.33 (3.01 to 4.23)	3.25 (2.99 to 4.15)	2.59 (2.31 to 3.49)	7.6 (7.0 to 9.5)	6.4 (5.6 to 8.5)	2.43 (2.19 to 2.48)	2639 (2578 to 2824)	標準) US
TOP 5%	60 (53 to 91)	0.10 (0.09 to 0.19)	82 (73 to 121)	0.24 (0.20 to 0.43)	1969 (1672 to 3801)	725 (663 to 992)	2.70 (2.31 to 4.23)	2.77 (2.44 to 4.15)	2.13 (1.85 to 3.49)	6.7 (6.0 to 9.5)	4.9 (4.1 to 8.5)	2.52 (2.19 to 2.58)	2533 (2456 to 2824)	Holstein genomic
TOP 10%	55 (47 to 91)	0.10 (0.08 to 0.19)	74 (64 to 121)	0.21 (0.16 to 0.43)	1754 (1434 to 3801)	680 (609 to 992)	2.42 (2.01 to 4.23)	2.53 (2.16 to 4.15)	1.91 (1.57 to 3.49)	6.1 (5.3 to 9.5)	4.3 (3.4 to 8.5)	2.56 (2.19 to 2.63)	2476 (2385 to 2824)	young bulls
TOP 20%	48 (39 to 91)	0.08 (0.06 to 0.19)	66 (54 to 121)	0.17 (0.12 to 0.43)	1519 (1146 to 3801)	625 (535 to 992)	2.13 (1.69 to 4.23)	2.25 (1.79 to 4.15)	1.66 (1.29 to 3.49)	5.4 (4.4 to 9.5)	3.7 (2.6 to 8.5)	2.62 (2.19 to 2.70)	2407 (2298 to 2824)	(後裔檢定 公牛進口
TOP 30%	44 (34 to 91)	0.07 (0.05 to 0.19)	61 (47 to 121)	0.15 (0.09 to 0.43)	1358 (943 to 3801)	585 (480 to 992)	1.94 (1.45 to 4.23)	2.05 (1.53 to 4.15)	1.49 (1.05 to 3.49)	5.0 (3.8 to 9.5)	3.1 (1.9 to 8.5)	2.65 (2.19 to 2.75)	2359 (2229 to 2824)	標準) all recently
TOP 50%	38 (25 to 91)	0.05 (0.02 to 0.19)	52 (34 to 121)	0.12 (0.04 to 0.43)	1127 (621 to 3801)	523 (382 to 992)	1.66 (1.09 to 4.23)	1.76 (1.14 to 4.15)	1.24 (0.69 to 3.49)	4.3 (2.7 to 9.5)	2.4 (0.9 to 8.5)	2.72 (2.19 to 2.84)	2281 (2103 to 2824)	progeny- tested Al
ALL	26 (-68 to 91)	0.02 (15 to 0.19)	34 (-58 to 121)	0.04 (-29 to 0.43)	628 (-2993 to 3801)	378 (-448 to 992)	1.08 (-4.65 to 4.23)	1.14 (-4.42 to 4.15)	0.67 (-2.46 to 3.49)	2.7 (-5.4 to 9.5)	1.0 (-5.8 to 8.5)	2.84 (2.19 to 3.55)	2106 (1244 to 2824)	bulls
No. Bulls	7132	7132	7132	7132	7132	7132	5298	5298	5298	7132	7132	7132	5270	

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	半1 回	旧の中	草均値と範	四				2					
Þ	分	総合指数	長命連産効果	乳代効果	GEBV M	GEBV F	GEBV F%	GEBV SNF	GEBV SNF%	GEBV P	GEBV P%	決定得点	乳器
			(円)	(円)	(kg)	(kg)	(%)	(kg)	(%)	(kg)	(%)	(点)	(%)
Ŀ	位5%	2640 (2332~3218)	106,491 (92,239~147,967)	148,245 (131,234~191,049)	1602 (1462~1885)	70 (61~94)	0.66 (0.52~0.89)	134 (118~172)	0.36 (0.32~0.43)	51 (45~58)	0.32 (0.28~0.40)	187 (1.68~2.20)	195 (1.79~2.41)
Ŀ	之10%	2428 (2137~3218)	97,186 (83,577~147,967)	135,317 (116,385~191,049)	1474 (1264~1885)	64 (55~94)	0.54 (0.39~0.89)	122 (105~172)	0.32 (0.25~0.43)	46 (40~58)	0.28 (0.23~0.40)	1.74 (1.51~2.20)	181 (1.56~2.41)
Ŀ	堂15%	2296 (1953~3218)	91,445 (77,468~147,967)	126,751 (103.570~191.049)	1379 (1144~1885)	60 (47~94)	0.48 (0.32~0.89)	114 (93~172)	0.29 (0.20~0.43)	43 (35~58)	0.26 (0.17~0.40)	1.63 (1.32~2.20)	1.69 (1.40~2.41)
Ŀ	20%	2198 (1833~3218)	87,434 (71,378~147,967)	120,362 (96,284~191,049)	1303 (1020~1885)	56 (42~94)	0.44 (0.27~0.89)	109 (87~172)	0.26 (0.17~0.43)	41 (33~58)	0.23 (0.15~0.40)	154 (1.21~2.20)	1.61 (1.30~2.41)
Ŀ	₫30%	2029 (1595~3218)	79,929 (59,241~147,967)	110,112 (80,994~191,049)	1175 (841~1885)	50 (35~94)	0.36 (0.17~0.89)	99 (75~172)	0.23 (0.14~0.43)	37 (28~58)	0.20 (0.10~0.40)	1.41 (1.05~2.20)	147 (1.12~2.41)
£	250%	1783 (1233~3218)	67,743 (38,165~147,967)	93,637 (57,559~191,049)	988 (555~1885)	42 (24~94)	0.25 (0.02~0.89)	85 (52~172)	0.17 (0.04~0.43)	32 (21~58)	0.15 (0.04~0.40)	120 (0.74~2.20)	127 (0.80~2.41)
全	体	1194 (~770~3218)	37,131 (-71,597~147,967)	56,511 (-88,703~191,049)	548 (-1111~1885)	24 (-44~94)	0.03 (-0.70~0.89)	52 (-73~172)	0.04 (-0.67~0.43)	21 (-21~58)	0.04 (-0.31~0.40)	0.74 (-1.20~2.20)	0.75 (-1.18~2.41)
頭	数	394	394	394	394	394	394	394	394	394	394	394	394

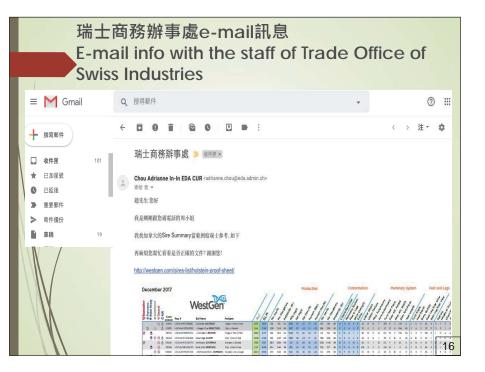
					(Cana	da			
		HOL	STEI	N Bu	lls / T	aurea	ux HOL	STEIN	L.	
ecem	ber 20	18 Perc	centile F	Rank Ta	ble / Ta	bleau de	Rangs Cen	tiles de D	ecembre 201	(
	Rank	Mik	Fat Gras	Prot. Prot.	Conf. Conf.	LPI	PI PROD	LPI DUR	LPI H&F IPV S&F	
	99	2483	100	81	13	3101	1579	1408	679	
	98	2261	95	75	11	3094	1529	1353	641	
	97	2160	89	73	10	3057	1497	1329	622	
	96 95	2064	85	70	9	3012 2986	1462	1310 1286	604 595	
	94	1904	79	66		2974	1431	1274	585	
	93	1858	76	65	8	2957	1409	1261	576	
	92	1787	74	63		2942	1396	1243	567	
	91	1717	73	61	2.5	2935	1387	1237	566	
	90	1674	71	60 59	7	2918 2899	1371 1361	1225	557	
	88	1599	68	58		2899	1349	1213	545	
	87	1547	67	57		2880	1339	1194	539	
	86	1521	66	56	6	2960	1333	1182	538	
	85	1487	65	55		2849	1324	1181	530	
	84	1434	63	54		2837	1314	1176	529	
	83	1407	62	53	5	2825	1305	1164	528	
	81	1344	100	54		2794	1289	1151	519	
	80	1314		51		2785	1279	1145	511	
	79	1285	58	50		2777	1273	1139	510	
	78	1255	57	49		2764	1267	1127	509	
	76	1235	56 55	48	4	2756	1261	1121	502 501	
	75	1212	54	47		2738	1248	1109	500	
	74	1167	53	48		2729	1238	1103	492	
	73	1135	52	45		2717	1232	1096	491	
	72	1118	51	44		2706	1223	1090	490	
	71	1095	50			2697	1216	1084	483	
	70	1066	49	-43	3	2689 2681	1213	1083	482	
	68	1046	48	42	3	26672	1207	1078	480	
	67	1005	47	41		2664	1194	1066	473	
	66	982	46			2655	1191	1065	472	
	65	967	45	40		2645	1185	1054	471	
	64	944	44	39		2636	1179	1048	464	
	63	916	44	39	2	2628	1172	1047	463	
	61	884	43	36	2	2615	1160	1041	455	
	60	858		20		2609	1150	1035	454	
	59	836	41	36		2600	1144	1029	453	
	58	824	40			2591	1138	1023	447	
	57	805	39	35		2580	1131	1017	445	
	56	783	38	34	1	2572 2563	1128	1016	444	
	54	743	37	33		2556	1112	1005	436	
	53	731	36	32	-	2544	1109	999	435	
	52	717	35			2535	1106	993	434	
	51	698		31		2531	1100	986	427	

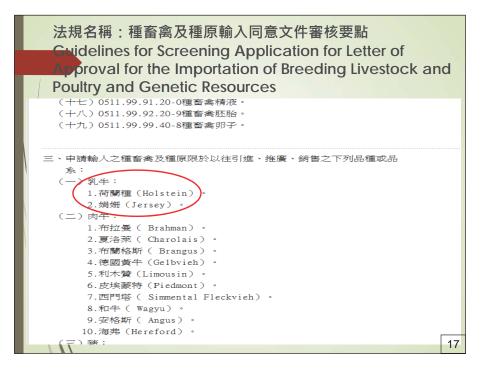
Germa	n Holste	in											
% G	nb 2017 renze < %	RZM	RZE	RZS	RZN	RZR	RZKm	RZG	ZW Mkg	ZW F %	ZW Fkg	ZW E %	ZW Ekç
	99	133	125	123	121	120	114	134	1687	0,68	59	0,28	48
	98	130	122	120	119	117	112	130	1517	0,59	54	0,25	43
	97	127	119	118	117	115	110	128	1414	0,53	49	0,22	40
	96	125	118	117	116	114	110	126	1325	0,49	46	0,2	37
	9 5	124	117	116	115	113	109	124	1256	0,46	43	0,19	35
	90	119	113	112	111	109	107	118	1015	0,34	33	0,14	28
	85	116	110	109	108	107	105	114	844	0,27	28	0,11	23
	80	113	108	107	106	105	104	110	717	0,2	23	0,09	19
	75	111	106	105	104	103	103	107	600	0,15	19	0,06	16
	70	109	104	103	102	101	102	105	507	0,1	15	0,05	13
	55	107	102	102	100	100	101	102	416	0,06	12	0,03	10
	50	105	101	100	99	99	101	101	328	0,02	9	0,01	8
	55	103	99	99	97	97	100	99	-243	0,01	-6	0,01	5
	50	102	98	97	96	96	99	97	-161	0,05	-2	0,02	3





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	Index	Max value	Top 1%	Topl 5 %	Top 10 %	Top 25 % threshold	Mean	Standard	Number
	ISU	237	203	194	186	170	150,14	26,51	2979
	INEL	87	65	53	48	37	26	16,88	2979
	MG	103	77	62	54	41	26,33	21,77	2979
	MP	66	52	43	38	30	20,42	13,72	2979
	TB	10,4	7,4	5,3	4,2	2,5	0,65	2,72	2979
	TP	6,8	3,3	2,5	2,1	1,3	0,52	1,21	2979
	LAIT	2265	1647	1267	1094	826	517,44	468.09	2979
	CEL	4,3	3,1	2,4	2,1	1,6	0,9	0,98	2979
	MACL	3,5	2,4	1,8	1,5	1	0,44	0,86	2979
	FERT	3,7	2,7	2,2	1,9	1,4	0,8	0,89	2979
	FERG	2,4	1,6	1,3	1,1	0,8	0,41	0,55	2979
	IVIA1	3	2,4	1,8	1,5	1,1	0,42	0,92	2979
	LGF	3,2	2,5	2,1	1.9	1,5	1,01	0,7	2979
	NAI	95	94	93	92	91	89,94	1,93	2979
	VEL	96	95	94	94	93	91,47	1,99	2979
	VIN	96	95	94	94	94	92.9	1,01	2979
	VIV	98	96	96	95	95	93,58	1,7	2979
	TR	2,5	1.8	1,2	1	0,6	0,05	0,74	2979
	TE	2,2	1,7	1,3	1,1	0,7	0,32	0,63	2979
	PS PJ	3,5 4,2	2,4	1,9	1.6 2.7	1,1 2,1	0,53	0,83	2979 2979
	EQ	3,3	2,3	3,1	1.5	2,1	0,49	0,8	2979
	AA	3,3	2,3	2,3	1,5	1,5	0,49	0,8	2979
	AH	3,8	2,8	2,3	2.1	1,5	1,11	0,89	2979
	EA	4	2,4	1.9	1.6	1,0	0,46	0,82	2979
/	IA	3.3	2.3	1,9	1.5	1	0,46	0,85	2979
/	LT	2,9	1.9	1,8	0.9	0.4	-0,19	0,83	2979
/	HS	4	3,1	2,5	2.2	1.6	0,94	0,97	2979
/	LP	3,2	2,3	1,7	1.4	0,9	0,41	0,8	2979
	PC	3.3	2.3	1,7	1.5	1	0,43	0.8	2979
	AC	3	2,2	1.8	1.5	1.1	0,62	0,72	2979
\mathbf{N}	EC	2.5	1.6	1	0.8	0,3	-0,14	0,71	2979
\mathbf{X}	15	3.8	2.6	1.9	1.5	1	0.34	0.93	2979
M	18	3,1	2	1,4	1.1	0,6	0.02	0,83	2979
M	AI	2.1	1.5	0.9	0.6	0,2	-0.33	0,75	2979
	PI	3,1	2	1,5	1,2	0,8	0,39	0,69	2979
11	MR	3,2	2,2	1,7	1.4	0,9	0,41	0,81	2979
	LO	3	2,2	1,8	1.5	1,1	0,64	0,69	2979
N I	MA	4,4	3,4	2,8	2.5	2	1,31	0,96	2979
11	CC	4	2,7	2	1,6	1,1	0,51	0,9	2979
11 5	ME	2,9	2,2	1,7	1,5	1,1	0,62	0,72	2979
	MO	5,1	3,7	3,1	2.8	2.2	1,47	1,04	2979





冷凍牛精液輸入檢疫條件 Ouarantine Requirements for the Importation of Bovine

動物及動物產品輸入檢疫條件第七點附件三之一 冷凍牛精液輸入檢疫條件

行政院農業委員會 中華民國87 年9 月16 日 87 農牧字第 87050500 號公告

- ➡一、限自無口蹄疫、牛瘟、牛接觸傳染性胸膜性肺炎、非洲豬瘟等疫病疫區之 國家地區輸入。
- 二、牛精液應產自輸出國政府動物衛生機構監督之人工授精之牛場(註明場名、 住址)。

➤三、採精用之公牛應經輸出國政府動物檢疫機構證明還自過去1年未發生牛布 氏桿菌病、牛結核病、惡性卡他爾熱、牛副結核病、藍舌病及假性狂犬病 等,和過去半年未發生牛白血病、牛病毒性下痢、牛傳染性鼻氣管炎、牛 傳染性膿疱性陰道體炎(IPV)、弧菌病、滴蟲病及鉤端螺旋體病等傳染病之 人工授精之牛場,並於採精前30天內絕檢查無任何前這殘病之象徵。惟鉤 讓採精用之公牛已不存在時,應檢附符合本條件六各項診斷試驗報告記錄。 四、牛精液應產自過去1年未發生水疱性口炎之州或相當之行或區域。 1. Bovine semen shall be imported only from countries or zones recognized by the Council of Agriculture as free from foot and mouth disease, rinderpest, contagious bovine pleuropneumonia, and African swine fever.

3. The donor bulls originate from the artificial insemination centers where brucellosis, bovine tuberculosis, malignant catarrhal fever. Paratuberculosis (Johne's disease), bluetongue, and pseudorabies have not occurred in the previous year; and enzootic bovine leucosis, bovine viral diarrhea, infectious bovine rhinotracheitis. infectious pustular vulvovaginitis, bovine genital campylobacteriosis, trichomoniasis, and leptospirosis have not occurred during the past 6 months. In addition, the donor bulls have been inspected and found free from clinical evidence of the above communicable diseases within 30 days prior to semen collection. 19



 2. 分所牧場挑選冷凍精液標準?
 2. What Is the Performance Requirements for Dairy Bull Frozen Semen used in our herd?

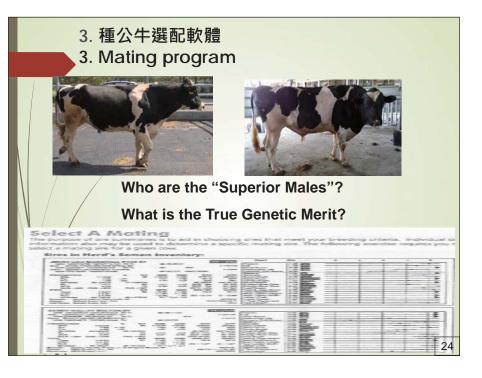
■ 2019 / 要求標準為TPI 2600以上 (Above TPI 2600)

品巧	(item)	劑量 (dose)
選性精液 Holstein sexed semen	後裔檢定公牛 Progeny-tested AI bulls	150
	基因體檢測公牛 Genomic young bulls	50
傳統精液 Holstein traditional	後裔檢定公牛 Progeny-tested AI bulls	70
semen	基因體檢測公牛 Genomic young bulls	30
娟姗牛選性精液 Jersey sexed semen		30

	PRO	DTEIN	F	AT				COMP	OSITES					
Bulls	PTAP	PTA%P	PTAF	PTA%F	PTAM	NMS	PTAT	UDC	FLC	PL	DPR	SCS	TPI	要求標準
TOP 1%	72 (66 to 91)	0.13 (0.12 to 0.19)	96 (89 to 121)	0.31 (0.27 to 0.43)	2418 (2150 to 3801)	819 (768 to 992)	3.33 (3.01 to 4.23)	3.25 (2.99 to 4.15)	2.59 (2.31 to 3.49)	7.6 (7.0 to 9.5)	6.4 (5.6 to 8.5)	2.43 (2.19 to 2.48)	2639 (2578 to 2824)	2600以_ Above
TOP 5%	60 (53 to 91)	0.10 (0.09 to 0.19)	82 (73 to 121)	0.24 (0.20 to 0.43)	1969 (1672 to 3801)	725 (663 to 992)	2.70 (2.31 to 4.23)	2.77 (2.44 to 4.15)	2.13 (1.85 to 3.49)	6.7 (6.0 to 9.5)	4.9 (4.1 to 8.5)	2.52 (2.19 to 2.58)	2533 (2456 to 2824)	TPI 260
TOP 10%	55 (47 to 91)	0.10 (0.08 to 0.19)	74 (64 to 121)	0.21 (0.16 to 0.43)	1754 (1434 to 3801)	680 (609 to 992)	2.42 (2.01 to 4.23)	2.53 (2.16 to 4.15)	1.91 (1.57 to 3.49)	6.1 (5.3 to 9.5)	4.3 (3.4 to 8.5)	2.56 (2.19 to 2.63)	2476 (2385 to 2824)	
TOP 20%	48 (39 to 91)	0.08 (0.06 to 0.19)	66 (54 to 121)	0.17 (0.12 to 0.43)	1519 (1146 to 3801)	625 (535 to 992)	2.13 (1.69 to 4.23)	2.25 (1.79 to 4.15)	1.66 (1.29 to 3.49)	5.4 (4.4 to 9.5)	3.7 (2.6 to 8.5)	2.62 (2.19 to 2.70)	2407 (2298 to 2824)	
TOP 30%	44 (34 to 91)	0.07 (0.05 to 0.19)	61 (47 to 121)	0.15 (0.09 to 0.43)	1358 (943 to 3801)	585 (480 to 992)	1.94 (1.45 to 4.23)	2.05 (1.53 to 4.15)	1.49 (1.05 to 3.49)	5.0 (3.8 to 9.5)	3.1 (1.9 to 8.5)	2.65 (2.19 to 2.75)	2359 (2229 to 2824)	
TOP 50%	38 (25 to 91)	0.05 (0.02 to 0.19)	52 (34 to 121)	0.12 (0.04 to 0.43)	1127 (621 to 3801)	523 (382 to 992)	1.66 (1.09 to 4.23)	1.76 (1.14 to 4.15)	1.24 (0.69 to 3.49)	4.3 (2.7 to 9.5)	2.4 (0.9 to 8.5)	2.72 (2.19 to 2.84)	2281 (2103 to 2824)	
ALL	26 (-68 to 91)	0.02 (15 to 0.19)	34 (-58 to 121)	0.04 (29 to 0.43)	628 (-2993 to 3801)	378 (-448 to 992)	1.08 (-4.65 to 4.23)	1.14 (-4.42 to 4.15)	0.67 (-2.46 to 3.49)	2.7 (-5.4 to 9.5)	1.0 (-5.8 to 8.5)	2.84 (2.19 to 3.55)	2106 (1244 to 2824)	
No. Bulls	7132	7132	7132	7132	7132	7132	5298	5298	5298	7132	7132	7132	5270	
*All bulls enter *December 20 *Must be in NA	18 official pro	oofs from USD	A-AIPL an			А								

Support	HERDS	Stature Strength Sody Depth Dairy Form Rump Angle Thurl Width Rear Legs-Side Rear Legs-Side Rear Legs-Rear Foot Angle	+	0.74 0.23 0.04 1.23	Tall Strong Deep Open Rib			OH	
ROBOT READ' COMPONENTS COULS IN ROBOT HERDS OF OTHER HERDS	HERDS	Strength Body Depth Dairy Form Rump Angle Thurl Width Rear Legs-Side Rear Legs-Rear Foot Angle	•	0.23 0.04 1.23	Strong Deep Open Rib	-2 -1			
ROBOT READY COMPONENTS SERVICE CULLS IN ROBOT HERDS OF OTHER HERD	HERDS	Strength Body Depth Dairy Form Rump Angle Thurl Width Rear Legs-Side Rear Legs-Rear Foot Angle	•	0.23 0.04 1.23	Strong Deep Open Rib				
ROBOT READY: COMPONENTS CULLS IN ROBOT HERDS USCR USCR	HERDS	Body Depth Dairy Form Rump Angle Thurl Width Rear Legs-Side Rear Legs-Rear Foot Angle	+ + +	+0.04 +1.23	Deep Open Rib			-	
VOCUME VOCUMERTERSO VICUME VOCUMERTERSO VICUMERTERSO VOCUMERTERSO <td>2 2 2 3 7 4</td> <td>Dairy Form Rump Angle Thurl Width Rear Legs-Side Rear Legs-Rear Foot Angle</td> <td>•</td> <td>1.23</td> <td>Open Rib</td> <td></td> <td></td> <td></td> <td></td>	2 2 2 3 7 4	Dairy Form Rump Angle Thurl Width Rear Legs-Side Rear Legs-Rear Foot Angle	•	1.23	Open Rib				
KURTH KURTH <td< td=""><td>AURINI 5%</td><td>Rump Angle Thurl Width Rear Legs-Side Rear Legs-Rear Foot Angle</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	AURINI 5%	Rump Angle Thurl Width Rear Legs-Side Rear Legs-Rear Foot Angle							
WOLLT Winder Winder Orall Winder WESTINGE Winder Winder Orall Winder WESTINGE Winder Winder Winder Orall Winder WESTINGE Winder Winder Winder Orall Winder WESTINGE Winder Winder Winder Orall Winder Winder Winder Winder Orall Winder Orall Orall Winder Winder Winder Winder Orall Orall<	2000 F	Thurl Width Rear Legs-Side Rear Legs-Rear Foot Angle	+		High Pins		-		-
Milling Milling Milling Milling Milling Milling Milling Milling	5%	Rear Legs-Side Rear Legs-Rear Foot Angle					_		
HIGH GENETIC MERIT Image and the state a	кони 5%	Rear Legs-Rear Foot Angle	View -						
HIGH GENETIC MERIT 500% 3200 GTB HIGH GENETIC MERIT 100% 3200 GTB HIGH GENETIC MER	5%						_	_	
+4.1% +6.5% COMMON REASONS FOR RETREVED CONS COMMON REASONS FOR RETREVED CONS HIGH GENETIC MERIT 50% COMMON REASONS FOR RETREVED CONS Diagonal Statistication and the	5%								
HIGH GENETIC MERIT 50% 50% 3200 cfm	or believen	Feet & Legs Sco							
HIGH GENETIC MERIT 500% 3000 GFB	ar sa, benar			1.44	Strong				
HIGH GENETIC MERIT 50% 3000 GTH HIGH G		Rear Udder Heig	ight +	3.25	High				
HIGH GENETIC MERIT 50% 3000 GTH HIGH G	SONS		th +	2.99	Wide				
HIGH GENETIC MERIT 50% Son of the	ows U								_
HIGH GENETIC MERIT 19.0% 5.7% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15									
HIGH GENETIC MERIT 10.00% STORE THE STORE									
HIGH GENETIC MERIT									
500 cm		Feat Length	+	r0.07	Long				
	and a			1000	No. 4				
Built for Automation (Conv.) + EU	4.5%	SexedULTRA4	44	UDD	ERS (
"All and a second secon			Udder Depth Front Teat Plac Rear Teat Plac Teat Length	Udder Depth + Front Teat Placement + Rear Teat Placement + Teat Length +	Udder Depth +130 Front Teat Placement +013 Rear Teat Placement +034 Teat Length +0.07	Udder Depth +1.30 [Shallow Front Teat Placement +0.13 [Close Rear Teat Placement +0.34 [Close Teat Length +0.07 [Long	Udder Depth +1.30 [Shallow Front Teat Placement +0.13 [Close Rear Teat Placement +0.34 [Close Teat Length +0.07 [Long	Udder Depth +1 30 Shallow Front Teat Placement +0.13 Close Rear Teat Placement +0.34 Close Teat Length +0.07 Long	Udder Depth +1.30 [Shallow Front Teat Placement +0.13 [Close Rear Teat Placement +0.34 [Close Teat Length +0.07 [Long]





0			SE	FCT SIR	ES PRO	VEN SIR	ES MAT	ING GUI	DE		
SHALET TO SHAL			JE			VEN SIN	Lo man				
	Net Merit \$	Mik	Protein	Fat	DPR	Productive Life	WT\$	DWP\$	CW\$	%DEH Sire	SCR
•	Tader		Jed+82		Pebore	Profit	Pageane +\$252		Pagenne+365	Deceiver 4.4%	Set
	Supervise		Mayflower +81	Duke+111 Toder+105	Franchise	Damaria	Profit +\$187 Repair +\$187	Tetris +\$581 Profit +\$573	Petrone +\$40 Diamondback +\$41	Pageone 4.6% Franchise 4.6%	Teder +2.8 6.W Abend +2.7
	Dute +831		Matraci +30	Millington+101	Frufit +3.8	Fagnore	Petrose +\$164	Rockie +\$321	Ferdinand	Gold Chip 5.1%	Superior +2.1
	Modeuty	Duke +2,454	Marty+77	Supersies+97	ind	Modesty	Altor	Retroix +\$850	Damaris	Buller 5.3%	Deceiver
	Ambriten	Marty+2,310 Feedinand+2,296	Reflector +72 Fertiment +72	Marty +95 Tetris +94	Mdsight +35 Pegeone +36	Treation +6.6 Judi +6.5	Geld Chip +\$143 Camer	Yoder +\$582 Butler +\$873	Rager-Red +\$55 GWRhened +\$77	Modesty 5.3% Hannybee 5.5%	Mallinger +2
AUCUCT	Millingham +801	Tetris +2,166	restand +/2	Brewmaster +03	Madechy 43.3	Hubbled +6.4	Referent +\$114	Butler +\$873 Mayfineer +\$870	12 W Armond + \$27	Ipark 56%	Modesty +7
AUGUST	Magare	Jeff +2,152	Spark	Lais	Morgan +2.8	Morgan +6.3	Revenberg., +\$133	Rager-Red +\$867	Superior	Malinger	Jedi. +7.
2018	Mapfower +778	Madron +2,064	Modenta	Hang-Time+89	Boh +2.8	Sengger	Rennie	Spark	Carney	Swagger 5.7%	Teltin +2
2018	Treatan +774 Remain +766	Dragenheart +1,941 Supervise +1,938	Butter +64 Tebris +64	Archition +82 Rockie +82	Bayotet +2.8 Hotobut +2.8	Petrane +6.2 Franchise +8.0	Bob+\$108 Midnight+\$105	Supersite +\$838 Donatello +\$835	Profit +\$25 Headliner +\$16	Draganheart 5.8% Yoder 5.9%	Dragonheart +2. Duke +2
	Rookie +766	Megirt +1.893	Madran +54	Malinger 481	Hang-Time +2.8	Supersire	Kinggin +\$104	Refector +\$534	Trenton +814	Rockie 5.9%	Beener +11
	Denatelle+758	Buller	Headliner	Greenway	Mt	Reflectar +5.9	Reflector +\$100	Marty +\$820	Alco+\$14	Mogul	Garra
	Marty +758 Hane 3mm +757	Ambilian+1,852 Growman +1,779	Supersien +61 Generation +61	Retnie +78 Morul +77	Denstelle +7.6 Densiver +2.6	Spark +5.9 Ambitian +5.9	Buller	Franchise +\$614	Margan +\$13 Franchine +\$10	Greenway	Uptown
	Hang-Sam +752 Profit +752		Generating +61	Mogul	Maufinert +2.5	Anbilian+5.5 Buller+5.7	Rages-Red +398 Franchise	Ambilion +\$802 Modenty +\$802	Franchine+\$10	Denatello	Damaris+1. Maguire+1.
#Plix a registered	520% +741		Bub. +56	Swagger +77	Dogotest +25	Tebia	Tebis + \$80	Midnight +\$794	Heisenberg	Carvette 6.2%	Heisesberg +13
trademark of Helchele	Swagget +739	Headlinet +1,722	Magairs+56	Montroux	Rages-Red +7.2	Rennie	Covette+\$66	Magaire+\$790	Denatello	Heisenberg62%	Pat-Red 413
Accortation USA,	Morgan+737		Morgan+55	Megint+76	Reflector +2.1	Mayfineer +5.4	Deceiver + \$66	Duke+\$785	Pal-Red	lat	Hcs
Somatic Cell	Mastitis	Stature (Least)	Stature	Dairy Form	Strength	Body Depth	Rump Width	Rump Angle	Legs-Side View	Legs Rear View	Foot Angle
Madran 2.58	Mentruca		Kingpin +3.83 Deflant +3.57	G W Atwood +3.86 Beener+3.53	Corvette +2.62 Marty +2.52	Beamer +2.56 Defant +2.52	Corvette +3.09 Camey +3.04		Panet 2.533 Nemie 2.063	Corvetts +3.79	Corvette+3.6
Pageone 2.58 Unitaria 2.60	Yoder -1.3 Fertinand -1.2	Swagger	Defiant +3.57 Basmar +3.56	Berner +3.53 Default +3.31	Marty +2.52 Carmer +2.33	Defiant +2.52 G.W.Abecod +2.44	Carney+3.04 Kingbey+2.85	Dragosbeart 1.72 Kingsin 1.59		G W Abwood +3.31 Bradwick +3.13	Bradnick +3.4 Diamondback +2.5
Petrone	Duke -1.2	Damaria -0.72	G W Abwood +3.18	Mullinger +2.85	Heisenberg+2.20	Corvette +2.43	Defiant +2.80	Mittight 1.49	Honeybee 1.325	Diamondback +2.80	Kingbey
Milington 2.62	Greenway	Modesty0.68	Carvette	Greenway	Modenta +2.18	Diamendback +2.37	G W Abwood+2.67	Bradeick1.40	Swagger	Gold Chip	Davinci +2.4
Ambition 2.62 Santh 2.63	Kingboy0.8 Convette0.7	Helphot	Heisenberg +2.91 Kinghay	Headliner +2.64 Millington +2.27	Diamondback +2.15 Kingboy +2.08	Carney	Diamondback +2.64 flob +2.44	Marty 1.23 Epic 1.04	Tetris 1.085 Save 1.065	Butlet +2.76 Garta +2.72	Migsl
Dempsey 2.64	Bradaick -0.4	Tetris -0.40	Geld Chip +2.69	Hang-Time +2.26	Kingpin	Marty +191	Marty +1.89	left. 1.02	Madeon 1.001	Bealliner +253	GWAtecod +7.3
Hubbit 2.65	Butler	Treaton	Carney+2.64	Duko +2.22	Beener +1.83	Noisesberg_+1.86	Spark +1.75	Donatella	Donatella	Beemer +2.58	Thereau
Geld Chip	Jeff0.1 Raper-Ref+2.9	Madron -0.34 Montenas -0.09	Marty +2.63 Democry +2.57	Rockin +2.05 Thoreau +2.05	Mcgirt+1.78 Defined +1.77	Kingpin	Garza+1.72 Rages.Red+1.68	Profit 0.97 Gette 0.91	Tienton 0.945 Midnistf 0.915	Mcgirt+2.58 Alco+2.58	Heisenberg+2.25 Kingpin+2.25
Kingpin 2.67 Posta 2.67	Rager-Hot	Ambdian -0.03	Diamondback +2.37	Montross +2.03	Diffe +1.75	Duke +1.67	Ragen-rive	Recent 0.91	Ambitum 0.875	Mogul +2.54	Kingpin42.21
Kingboy 2.69	fieisenberg	Multinger	Epic +2.12	Kingtoy	Uptows +1.73	Rager-Red +1.61	Salt	Monbusz	Hetshot 0.835	Salt +2.42	Uptown +2.1
Ruskie	Morgan	Petrote+0.23	Bradmick +1.85	Diamondhack +1.90	Demptoy+1.68	Mcgit	Brewnaster_+1.54	Doress		Thereas	Deflant +2.1
Midnight 271 Heisenberg 271	Aico	Atto +0.37 Pat-Red +0.38	Uptren +1.66 Headliner +1.64	Denstelle	Epic+1.68 Reflector+1.65	Headliner+1.44 Thornos +1.38	Bradnick +1.51 Uptown +1.47	Rennie 0.76 Corvetta 0.73	Rager-Red 0.695 Molesty 0.651	Davinci +2.30 Yuder +2.27	Ferdinand
Margan 2.73	Pageone +2.1	Morgan +0.40	Dragsminart. +1.51	Dempiry +1.54	G W Atwood+1.61	Refector +1.37	bertan +1.41	Magaine 0.75		Heinstderg +2.27	Jeli +1.9
Corvette 2.73	Gold Chip+2.0	Superior +0.42	Marflower	Baymet 41.84	Headliner41.58	Salt+1.37	Seemer +1.37	Dempany	Deceiver	Defiant +2.24	Gars +1.8
Reflector 2.74	Moneytres +2.0	Franchise +0.43	Bayoret	1011 +1.01	Jedi+1.50 Ferdinand+1.38	Bayonet	Davinci	Duke	Margan 0.625 Supervise 0.575	Luit +2.24	Gold Chip+1.8
Davinci 2.74	Rannie +2,0		Reflector+1.48	Breemaster_ +1.77		Uptows +1.33	Mcgirt+1.32	Rager-Red 0.63		Rager-Red +2.05	Jeff +17
Feet & Legs Score	Feet/Log Comp.	Fore Udder Attachment	Rear Udder Height	Rear Udder Width	Udder Cleft	Udder Depth	Front Teat Place	Rear Teat Place	Udder Comp.	Type	GTPI®
G W Abword +3.08 Cervette	G W Abrood +2.67 Convette +2.58		Higsl	Megal	G W Atward +3.03 Carney +2.71	Carney +4.01 Kingpin +3.58	Carney +3.08 Honeyber +2.58	Mdright1.64 Reflector1.46	Carsey +3.64 Magai +3.11	6 W Alteroid +3.54 Defiant +3.55	Nater +273 Jeck
Clamentback +2,40	Bradmick +2.43	Pity+3.88	Diamon/Back +8.24	Diamondback +3.90	Defast +2.69	Geld Chip+3.21	Superior +2.34	Mayfouer	Fatz +3.04	Berner +3.35	Dulle +271
Bradmick	Diamondback +2.27	Diamondback +3.63	Kingboy	Kingboy +3.00	Deemer	Beiserberg +3.02	5alt	Brewmaster1.11	Bortas +2.02	Dismondback +3.22	Modesty +263
Heismiberg_ +2.27 Eager-Red_ +2.22	Mogul +2.20 Therman +2.16	5et +3.50 Davinci +3.58	Hang-Time+4.17 G W Abresod+4.15	Hang-Time +3.54 G W Abrood +3.82	Heigenderg +2.19 Denstello +2.18	Beener +2.91 Salt +2.74	Reroie +2.14 Treaton +2.11	Alco0.81 Damaris0.58	Salt +2.37 Diamondback +2.74	Kingboy	Hang-Time +263
Beener +2.22	tais +2.10	Mond	Defiant +4.11	Defiant +3.78	Rages-Red +213	Pety +2.69	Madron +2.05	Epir -0.41	Hang-Time+2.68	Corvetts +2.80	Prefit +262
Thornau	Modesty+2.11	Benner	Mordrate	Martruss +3.74	Honeybee	Davinci	Denatella+1.99	Gold Chip0.19	Bradsick	Kingpin +2.74	Mayflewer +258
Deflart +2.18	Alco	Uptown	Thureau +4.01	Thereas	Dempiors +2.03 Remain +1.95	Bradnick +2.48 Corvette +2.37	Millington +1.78 Yather +1.68	Jeff6.17 Morgan613	Gatta +2.65	Heisenberg +2.61 Bradrick +2.46	Martreat
Lain +2.12 Geld Chip +2.08	Garm +2.06 Raper-Red +2.01	Kingboy +3.31 Defiant +3.29	Ferdinand +3.54 Beener +3.85	Personand +3.62 Beemer +3.58	Rennie +1.99 Bradnick +1.97	Defaul +2.19	Tube +1.60 Therman +1.67	Ferdinand -0.07	fingley +2.57 Davinci +2.53	Bradnick +2.46 Rages-Red +2.45	Marty+259 Millington+259
£pic +2.01	Pageone	Thornu	Pety+3.87	Pety+3.56	Kinghey	Garza+2.17	Planet +1.65	Maguire	G W Atwood +2.52	Saft	Anti-tun +258
Gerza +7.00	Buller +1.95	Ferdinand +3.15	Bradrick+3.05	Bradnick +3.55	Kingpin	Franchise+2,04	Mngul +1.65	Convette -0.04	Metersty+2.52	Thoreau	Teltis
Modesty	Mcgirt+1.09 Heisenberg+1.05		Garss +1.82 Salt +3.59	Gatta +3.51 Salt +3.30	Millington +1.62 Deceiver +1.61	Seperior +2.02 Drapotheart +1.99	Pdy+1.64 Greenway+1.62	Dragonheart 0.12 Modesty 0.18	Ferfinand +2.52 Defiant +2.48	Optown +2.41 Dempsey +2.34	Rages-Red+257 Mergan+257
Alco	Gold Chip +1.84	Franchise +3.08	Notown +3.48	Uptown +3.20	Hang-Time +1.55	GW Abwood_+1.96	Raper.Rel +1.62	Baynet 0.20	Reeman 42.48	Gold Chip	Franchine +256
Dempsey	Franchise	Heisenberg +2.94	Pmft +3.44	Profit	Geld Chip +1.58	Midnight	Deteiver +1.59	Supersire0.23	Uptren +2.45	Pety	Neisenberg +256
Mcgirt	Davinci +1.74	Superior +2.92	Mcgit+3.44	Mcgirt +3.16	Thoreau+1.45	Deceiver+1.94	Beb +1.53	Hotshet0.27	Franchise +2.40	Ferdinand +2.25	Bib
Upteen +1.82 Butler +1.76	Beester +1.72 Headliner +1.71	Damaris	Mallinger +3.37 Headliner +3.35	Mallinger +3.10 Heidlinet +3.08	Corvette +1.44	Distort +1.94 Dismondback +1.94	Defiard +1.44 Davinci +1.44	Buffer 0.34 Modesha 0.56	Deceiver	Garza +2.24 Headliner +2.19	Reflector 259 Butler 259
vanif	+1/1	variation	+3.09	***************************************	Aug. 10.00	summered +1.94	******		+218		and an art CP

	ENOMIC	ANII		. R	ECC	טאט	5				C	Cust. I		9700	3859			N KE	JLAN		1311	UIL					AE	S	<u>GN</u>	IS
cow	V ID PERM I	MILK	FAT	PRO	FAT P	RO PI	. scs	DPR	HCR	CCR	SCE	DCE	SSB	DSB	STA	STR	DFM	RPA	TRW	RLS	RLR	FTA	FUA	RUH	UCL	UDP	FTP	RTP	TLG	HAP
105F	309 000001058	309 963	1	22	-0.12 -	0.03 1.4	2.96	-3.2	-0.7	-1.7	6.1	6.2	8.1	6.1	0.06	-0.09	0.42	-0.40	0.16	-0.50	1.08	0.36	0.73	0.90	0.38	0.95	1.01	0.88	-0.99	HH3
105F	310 LRIHC105	310 503	-2	17	-0.08 (.01 3.0	2.92	1.7	2.5	2.9	7.0	5.5	6.7	4.6	-0.97	-1.28	-1.09	0.05	-1.36	1.68	-1.22	-1.37	-0.40	-0.23	-0.04	0.12	-0.49	0.13	-0.48	
105F;	311 000001058	311 1.564	46	43	-0.04 -	0.02 2.3	2.91	-1.9	0.5	-1.5	7.8	6.1	7.5	7.3	0.29	-0.10	1.66	0.29	0.55	1.54	-0.25	-0.70	0.40	1.36	0.11	-0.20	-0.14	0.01	1.06	HH0
105F	312 000001058	312 978	17	34	0.07 (.02 1.0	3.00	0.0	0.0	1.0	73	6.2	73	5.0	0.24	0.11	0.04	0.24	0.38	0.02	0.61	0.01	1.04	0.50	0.01	1.42	0.73	0.30	0.85	HH3
																														1010
105F			5			0.04 2.9																								
105F	315 00000105	315 799	34	28	0.02 (1.01 0.1	2.99	-2.2	0.1	-0.8	6.5	5.4	6.4	5.1	0.87	0.05	0.65	-1.49	0.38	-0.44	0.58	0.76	0.90	1.19	0.42	1.19	-0.08	-0.12	-0.23	HH3 HH
105F:	316 000001058	316 722	10	18	-0.06 -	0.01 2.5	5 3.10	0.6	0.2	1.2	6.6	5.4	7.7	4.3	1.69	0.43	0.35	-1.38	0.39	-0.11	1.62	1.11	1.48	1.77	-0.11	2.23	-0.76	-0.82	-0.05	
105F	317 000001058	317 316	6	7	-0.02 -	0.01 2.0	3.03	0.1	0.8	0.8	6.9	5.8	7.1	6.7	0.41	0.30	0.18	0.09	-0.42	-1.63	2.06	0.78	0.39	1.00	0.15	0.23	-0.77	-1.11	1.15	
MATING	G SIRE	TIO	NS	_	100 L					С	ust.	For: No: ale:		0/20	9 - 00												RB	S	GN	
	MEND		NS		MO TO BRD	HPR S		_	151 0		Dust.	No:	9700	385	9 - 00			ND CI	юксе			GIE	1				RB HOK		GN	0
	MEND	W ID #2			TO	*	7H012	611			D D	No: ate:	9700	0/20	9 - 00 18 B		2		HOICE					0119		DRD C		×	GN	0
COW ID #1		W ID #2 HC98F10		1	TO	14	7HO12 7HO11		FE	5409	CE	No: ate:	9700	0/20	9 - 00 18 7	•	27	SE/					7H	0119 H018	85	JIRED C	ж	×	GN	0
COW ID #1		W ID #2 HC98F10 098F108 098F386			TO 3RD 08 08 08	14 29 73	7H011 29H01	985 7918	FE		CE VANE	No: ate:	9700	0/20	9 - 00 18 7/ 7/ 5;	HO128 HO118 29HO1	28 132 121 17573	SE/ MA	VER	WER			7H 29 14	HO18	85 018 80	TE DJ FC	TRIS	R		0
COW ID #1 F102 F108 F386 F201		W ID #2 HC98F10 098F108 098F386 099F201			10 3RD 08 08 08 08 08	14 29 73 17	7H011 29H01 29H01	985 7918 6701	FE TE SK		CE VANE LL ON	No: ate:	9700	0/20	9 - 00 18 71 71 53 71	H0128 H0118 29H01 H0128	27 132 121 17573 132	SE/ MA SIL	VER	WER			7H 29 14 7H	HO18 HO77 0116	85 018 80 21	TE DA FC M	TRIS ANCE ORCE	R		0
COW 10 #1 F102 F108 F386 F201 F207		W ID #2 HC98F10 098F108 098F386 099F201 099F201			TO 3RD 08 08 08 08 08 08	14 29 73 17 54	7H011 29H01 29H01 529H0	985 7918 6701 17573	FE TE SK LA		GE VANE LL DN	No: ate:	9700	0/20	9 - 00 18 71 71 51 71 21	H0121 H0121 29H01 H0128 9H012	28 832 821 17573 832 7918	SEA MA SIL SEA	VER ATTLE FALL	WER			7H 298 148 7H 148	HO18 HO77 0116 HO77	85 018 80 21 80	TE DA FC	TRIS MICE DRCE AYFL	R		AS Q
COW 10 #1 F102 F108 F386 F201 F207 F209		W ID #2 HC98F10 098F108 098F386 099F201 099F207	12		TO 5RD 08 08 08 08 08 08 08	14 29 73 17 54 19	7H011 29H01 29H01 529H0 29H01	985 7918 6701 17573 6701	FE TE Sk LA SII		CE CE VANE S LL ON S ON	No: ale:	9700	0/20	9 - 00 18 7/ 7/ 5; 7/ 2%	H0128 H0116 29H01 H0128 9H017 H0118	28 132 17573 132 7918 521	SE/ MA SIL SE/ SK MA	VER VFLOV VER ATTLE VFALL	WER			7H 291 141 7H 141 7H	HO184 HO775 O1165 HO775 O119	85 018 80 21 80 85	TE DA FC Mu FC	TRIS MICE DRCE AVFL DRCE ETRIS	R		0
COW ID #1 F102 F108 F708 F201 F207 F209 F210		W ID #2 HC98F10 098F108 098F201 099F201 099F207 099F209	12		TO 9HD 08 08 08 08 08 08 08 08	14 29 73 17 54 19 42	7H011 29H01 29H01 529H0 29H01 7H011	985 7918 6701 17573 6701 621	FE TE Sk LA Sil		CE CE NANE S LL DN S DN COVE	No: ale:	9700	0/20 ⁻	9 - 00 18 71 71 53 71 24 71 21	H0128 H0118 29H01 H0128 9H011 9H0118 9H011	23 832 821 17573 832 7918 621 8018	SEA MA SIL SEA SKO MA DAI	VER VFLOV VER VFALL VFALL VFLOV	WER		GIE S	7H 29 14 7H 14 7H 29	HO18 HO77 0116 HO77 0119 HO17	85 018 80 21 80 85 918	TE DA FC MA FC TE SP	TRIS ANCE DRCE AYFLU DRCE ETRIS	R		d,
COW ID #1 IF 102 IF 102 IF 201 IF 201 IF 207 IF 210 IOF 404		W ID #2 HC98F10 098F108 098F201 099F201 099F207 099F209 0099F210 HC100F40	12		TO 8HD 08 08 08 08 08 08 08 08 08	14 29 73 17 54 19 42 31	7H011 29H01 29H01 529H0 29H01 7H011 7H012	965 7918 6701 17573 6701 621 832	FE TE SK LA SII LA SI	PHON PRDIM TRUS CYFA BRO LVEF ABRO AYFL EATT	CEE VANC S LL ON S ON OWE LE	No: ate: D	9700	0/20 ⁻	9 - 00 18 77 78 55 77 24 77 21 21 21 22	HO120 HO120 29HO1 HO128 9HO11 9HO11 9HO11 9HO11	23 17573 17573 132 7918 1521 18018	SEA MA SIL SEA SK MA DAI DAI	ATTLE VFLOW VER ATTLE VFLOW VFLOW NCER	WER		GIE S	7H 291 141 7H 141 7H 291 5 52	HO18 HO77 0116 HO77 0119 HO17 9HO17	85 018 80 21 80 85 918 7573	TE DV FC Mi FC SI	CHOK TRIS MACE DRCE AYFLI DRCE ETRIS KYFAI	R		d,
COW ID #1 F102 F102 F103 F201 F207 F207 F209 F210 OF404 OF409		WID #2 HC98F10 098F108 098F386 099F201 099F207 099F209 099F210 IC100F40 IC100F40	12		TO 3RD 08 08 08 08 08 08 08 08 08 08 08	14 29 73 17 54 19 42 31 1	7H011 29H01 29H01 529H0 29H01 7H011 7H012 29H01	985 7918 6701 17573 6701 621 832 6980	FE TE Sk LA SI LA SI SE VE	CHOI ERDIN ETRIS CYFA HBRO LVER HBRO AVFL EATT ERSA	CUST. D CON NAME S LL ON ON ON E LE LE	No: ate: D	9700	0/20 ⁻	B 77 77 54 77 24 77 25 77 25 77 25 77 21 77 77 21 77	H0121 H0121 H0110 29H012 9H011 9H011 9H011 H012	28 332 321 17573 332 7918 521 8018 521 8018 2026	SEA MA SIL SEA SKO MA DAU DAU GR	ATTLE VER ATTLE VFALL VFALL VFALL VFALL VFALL VFALL VFALL VFALL VFALL	WER		GIE S	7H 291 141 7H 141 7H 291 5 52 291	HO18 HO77 0116 HO77 0119 HO17 9HO1 HO16	85 018 80 21 80 85 918 7573 701	TE D/ FC Mi FC SI SI	TRIS ANCE DRCE AYFLI DRCE ETRIS CYFAI LVER			q
COW ID #1 F102 F108 F305 F207 F209 F210 0F404 0F409 0F414		WID #2 HC98F10 098F108 099F201 099F207 099F209 099F210 IC100F40 IC100F40 0100F41	12 14 19		TO 8HD 08 08 08 08 08 08 08 08 08	14 29 73 17 54 19 42 31 1 44	7H011 29H01 29H01 529H0 29H01 7H011 7H012	985 7918 6701 17573 6701 621 832 6980 8018	FE TE SK LA SII LA SII VE VE DJ	PHON PRDIM TRUS CYFA BRO LVEF ABRO AYFL EATT	CUST. D CON CON CON CON CON CON CON CON CON CON	No: ate: D	9700	0/20 ⁻	B 77 77 55 77 22 77 21 20 22 77 55 77 55 77 55	HO120 HO120 29HO1 HO120 9HO11 9HO11 9HO11 9HO11	28 832 8321 17573 832 7918 621 8018 8018 8018 8018 17573	SEA MA SIL SEA SKO MA DAU DAU GR SIL	ATTLE VER ATTLE VFALL VFALL VFALL VFALL VFALL VFALL VFALL VFALL VFALL	WER WER		GIE S	7H 299 149 7H 149 7H 299 5 52 299 299	HO18 HO77 0116 HO77 0119 HO17 9HO17	85 018 80 21 80 85 918 7573 701 918	SIRD C TE DA FC MA FC SI SI SI SI SI SI SI	CHOK TRIS MACE DRCE AYFLI DRCE ETRIS KYFAI	R DWEI LL		q
COW ID #1 F102 F108 F386 F201 F207 F209 F207 F209 F210 0F404 0F404 0F416		W ID #2 HC98F10 098F108 099F201 099F207 099F209 099F210 IC100F40 IC100F40 10100F41 10100F41	12 14 19 4		TO 3RD 08 08 08 08 08 08 08 08 08 08 08 08 08	14 29 73 17 54 19 42 31 1 44 24	7H011 29H01 29H01 529H01 29H01 7H011 7H012 29H01	985 7918 6701 17573 6701 621 832 6980 8018 832	FE TE Sk LA St LA M SE SE DJ SE	PHO PRDI TRIS CYFA HBRC LVEF HBRC AVFL EATT EATT	Cust. D NANE 3 LL ON OWE LE R LE	No: ate: D	9700	0/20 ⁻	B 77 77 55 77 24 77 24 77 25 77 25 77 55 77 55 77	H0128 H0118 29H01 H0128 9H011 9H011 9H011 9H011 29H01	23 332 321 17573 332 7918 521 8018 521 8018 521 8018 525 511	SEA MA SIL SEA SKO MA DAU DAU GR SIL FEA	ATTLE VER ATTLE VFALL VFALL VFALL VFLOV NCER EENW VER	WER WER		GIE S	7H 291 141 7H 140 7H 291 5 52 291 52	HO18 HO77 0116 HO77 0119 HO17 9HO1 HO16 HO17	85 018 80 21 80 85 918 7573 701 918 7573	TE DA FC MA FC SI SI SI SI SI SI SI SI	CHOIC TRIS MACE DRCE ETRIS CYFA LVER CYFA	R DWE		đ
COW ID #1 F102 F108 F386 F386 F2801 F207 F209 F210 OF404 OF409 OF418 OF419 OF419		W ID #2 HC98F10 098F108 099F201 099F207 099F209 099F210 IC100F40 IC100F40 0100F41 0100F41 0100F41	12 14 19 4 6 9		TO SRD 08 08 08 08 08 08 08 08 08 08	14 29 73 17 54 19 42 31 1 44 24 33	7H011 29H01 29H01 529H0 29H01 7H012 29H01 29H01 29H01 29H01	985 7918 6701 17573 6701 621 832 6980 8018 832 985	FE TE Sk LA SII MU SE VE DV SE TE	ERDIP ETRIS CYFA HBRO LVER HBRO HBRO LVER HBRO LVER HBRO LVER HBRO HBRO LVER HBRO HBRO HBRO HBRO HBRO HBRO HBRO HBR	CUST. D CON AANE S LL CON CON E CON CON E R LE S	No: ate: D	9700	7	B 77 77 54 77 22 70 23 77 55 77 25 77 25 77 25 77 25 77 25 77 25	HO121 HO112 29HO11 29HO11 9HO11 9HO11 9HO11 29HO11 HO122 29HO1 HO122	23 332 321 37573 332 7918 521 8018 521 8018 525 511 8018	SEA MA SIL SEA SKO MA DAU DAU GR SIL FEA	ATTLE VER ATTLE VFALL VFALL VFALL VFALL VER VER VER VER	WER WER		GIE %	7H 291 141 7H 141 7H 291 55 291 52 52 52	HO18 HO77 O116 HO77 O119 HO17 9HO1 HO16 HO17 9HO1	85 018 80 21 80 85 918 7573 701 918 7573 7573	TE DA FC M FC TE SI SI SI SI SI SI	CHOIC TTRIS DRCE DRCE ETRIS CYFA LVER LVER	R DWE LLL		q,
COWID#1 F102 F100 F201 F205 F200 F210 OF404 OF414 OF414 OF416 OF419 OF419 OF419		WID #2 HC98F108 098F108 099F201 099F207 099F209 0099F200 0099F210 HC100F40 00100F41 00100F41 00100F41 00100F41	12 14 19 4 6 9 5		TO 3RD 08 08 08 08 08 08 08 08 08 08	14 29 73 17 54 19 42 31 1 44 24 33 57	7H011 29H01 29H01 529H0 29H01 7H011 7H012 29H01 29H01 7H012 7H011	985 7918 6701 17573 6701 621 832 6980 8018 832 985 6701	FE SK LA SII SII SII SII SII SII SII SII SII SI	ERDIR ETRIS KYFA 4-BRO LVEF 4-BRO LVEF EATT ERSA ANCE EATT ETRIS	UUST. D VANE S VANE VANE VANE VANE VANE VANE VANE VANE	No: ate: D	9700	7	9 - 00 18 7/ 7/ 55 7/ 7/ 2/ 7/ 50 2/ 7/ 50 2/ 7/ 50 2/ 7/ 50 2/ 7/ 50 2/ 7/ 2/ 7/ 50 2/ 7/ 7/ 2/ 7/ 50 2/ 7/ 7/ 51 2/ 7/ 7/ 51 2/ 7/ 7/ 7/ 51 2/ 7/ 7/ 7/ 51 2/ 7/ 7/ 7/ 51 2/ 7/ 7/ 7/ 51 2/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/	HO121 HO122 29HO12 9HO122 9HO11 9HO122 29HO12 29HO12 9HO121 9HO121	23 332 321 17573 332 7918 521 5018 5018 5026 511 8018 8018 8018 780	SEA MA SIL SEA SKO MA DAU DAU GR SIL FEA DAU FEA	ATTLE VER ATTLE VFALL VFALL VFALL VFALL VER VER VER VER	WER WER		GIE %	7H 291 141 7H 141 7H 291 55 52 52 52 52 52 52 52 52 52 52 52 52	HO18 HO77 O116 HO77 O119 HO17 9HO1 HO16 HO17 9HO1 9HO1	85 018 80 21 80 85 918 7573 7573 7573 7573 24	TE DA FC M FC SI SI SI SI SI SI SI O	TRIS TRIS DRCE DRCE TRIS CYFAI LVER LVER	R DWE I I I I I I		q,
COWIDEI F102 F102 F203 F204 F205 F207 F209 F210 F209 F210 F209 F210 F209 F210 F209 F210 F209 F210 F209 F210 F209 F210 F209 F209 F209 F209 F209 F209 F209 F20		W ID #2 HC98F10 099F100 099F207 099F207 099F209 099F209 099F210 IC100F40 0100F41 0100F41 0100F41 0100F41 0100F450	12 14 19 9 5 5 7		TO 3RD 08 08 08 08 08 08 08 08 08 08	14 29 73 17 54 19 42 31 1 44 24 33 57 55	7H011 29H01 29H01 529H0 29H01 7H011 7H012 29H01 29H01 7H012 7H011 29H01	985 7918 6701 17573 6701 621 832 6980 8018 832 985 6701 17573	FE TE SK LA SI LA M SE DV SE TE LA SE	ERDIP ERDIP	UUST. D VANE S LL DN S DN OWE LE S R LE S DN S	No: ate: D	9700	7	9 - 00 18 7/ 7/ 54 7/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 2/ 7/ 7/ 2/ 7/ 7/ 2/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/ 7/	HO121 HO122 29HO12 9HO122 9HO11 9HO122 29HO11 HO122 29HO11 HO122 9HO124 HO124 9HO124 HO124 10 HO124 10 HO124 10 HO125 HO125	28 832 521 17573 832 7918 621 8018 8018 8018 8018 8018 8018 8018 780 7918	SEA MA SIL SEA SKY MA DAI DAI DAI FEF DAI FOI SKY	ATTLE VER ATTLE VFALL VFALL VFALL VFALL VER ROER ROER ROER	WER WER		GIE %	7H 290 141 7H 142 7H 290 52 290 52 52 52 52 52 52 52 52 52 52 52 52 52	HO18 HO77 O116 HO77 O119 HO17 9HO1 HO16 HO17 9HO1 9HO1 HO73	85 018 80 21 80 85 918 7573 701 918 7573 7573 7573 7573	TE DA FC MA FC SI SI SI SI SI SI SI SI SI SI SI SI SI	TRIS TRIS DRCE TRIS CYFAI LVER LVER LVER LVER	R R DWEJ		q,
COW ID #1 F102 F386 F201 F209 F209 F209 F209 F209 F209 F209 F209	CC HOTWNOLR HOTWNOLR HOTWNOLC HOTWNO	W ID #2 HC98F10 098F108 099F201 0999F201 0999F201 0099F209 0099F210 HC100F40 0100F41 0100F41 0100F41 0100F450 00101F50 HC101F50	12 14 19 4 6 9 5 5 7 18		TO 8HD 08 08 08 08 08 08 08 08 08 08 08 08 08	14 29 73 17 54 19 42 31 1 44 24 33 57 55 2	7H011 29H01 29H01 529H0 29H01 29H01 7H012 29H01 29H01 7H012 7H011 29H01 529H0	985 7918 6701 17573 6701 621 832 6980 8018 832 985 6701 17573 324	FE TE SM LA SI LA M LA M SE SE SE SE SE SE SE SE SE SE SE SE SE	ERDIN ERDIN	CUST. DUST.	No: ate: D	9700	7	B 77 78 77 22 77 22 77 22 77 55 77 22 77 55 77 22 23 77 22 77 22 77 22 77 22 77 77 77 22 77 77	H0121 H0112 29H01 H0122 9H011 9H012 9H011 H0122 9H011 H0121 9H011 H0121 9H011 H0121 9H011	28 832 8321 17573 832 7918 621 8018 8018 8018 8018 8018 8018 8018 80	SEA MA SIL SEA SKY MA DAI GR SIL FEF DAI FOI SKY GR	VER VFLOV VER ATTLE VFLOV VER VER ROINA VER ROINA NCER RCE VFALL	WER WER ND		GIE %	7H 290 148 7H 149 7H 290 55 52 290 52 52 52 52 52 52 52 52 52 52 52 52 52	HO18 HO77 0116 HO77 0119 HO17 9HO1 HO16 HO17 9HO1 9HO1 9HO1 HO73 HO77	85 018 80 21 80 85 918 7573 7573 7573 7573 7573 7573 7573 757	TE DA FC MA FC SI SI SI SI SI SI C C	CHOIC ETRIS DRCE ETRIS CYFA LVER LVER LVER FIAN DRCE	R R DWEI LL LL		q,
RECON	(сс нотчиков	W ID #2 HC98F10 098F108 099F201 099F201 099F209 099F209 099F209 0099F209 0099F209 0099F209 0099F209 0099F200 0009F40 0009F40 0000F41 00100F41 00100F41 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F45 00100F50 00100F50 00100F50 00100F50 00100F50 00100F50 00100F50 00100F50 00100F50 00100F50 00100F50 0000000000	12 14 19 4 6 9 5 5 7 18 1		TO 8HD 08 08 08 08 08 08 08 08 08 08 08 08 08	14 29 73 17 54 19 42 31 1 44 24 33 57 55 2 1	7HO11 29HO1 29HO1 529HO 29HO1 29HO1 7HO12 29HO1 29HO1 29HO1 7HO12 7HO12 7HO11 29HO1 7HO12 7HO11 29HO1	985 7918 6701 17573 6701 621 832 6980 8018 832 985 6701 17573 324 6980	FE TE SK LA LA M. SE SE DJ SE TE LA SE SE SE SE SE SE SE SE SE SE SE SE SE	CHOI ERDIT ETRIS CYFA HBRO AVFL EATT ERSA ANCE EATT ETRIS L-BRO LVEF	CUSE DUSE DUSE S LL DON S DON COWE S CON E E E E E E E E S DON S S CON S S CON S S CON S S CON S C C S CON S C CON S C S C C S C C S C C S C S C	No: ate: D ER	9700	7	B 77 78 77 22 77 22 77 50 77 50 77 50 77 50 77 70 22 77 70 22 77 77 77 77	H0121 H0112 29H01 H0122 9H011 9H012 9H011 H0122 9H011 H0121 9H011 H0121 H0121 H012	28 832 8321 17573 832 7918 8018 8018 8018 8018 8018 8018 8018 8	SE/ MA SIL SE/ SK DA DA DA DA DA SIL FE/ DA SK GR GR	ATTLE VFLOI VER ATTLE VFALL VFLOI NCER RDINA NCER RDINA NCER RCE VFALL EENW	WER WER ND		GIE %	7H 290 140 7H 140 7H 290 55 52 52 52 52 52 52 52 52 52 52 52 52	HO18 HO77 0116 HO77 0119 HO17 9HO1 HO16 HO17 9HO1 9HO1 HO73 HO77 HO76	85 018 80 21 80 85 918 7573 7573 7573 7573 24 80 701 701	TE DA FC M FC TE SI SI SI SI SI SI SI C U U U U	CHOIC TTRIS MNCE DRCE AYFLU DRCE TRIS CYFA LVER LVER FIAN DRCE BRC			0



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	i a mig	011 0			aation	J
Cow	1 st choice	LN tank	2 nd choice	LN tank	3 rd choice	LN tan
	Contraction of the second		The second s	and the second		
	選配精液	液態氣	選配精液	液態氮	選配精液 (第三選擇)	液態
牛號	(第一選擇) 桶編號	(第二選擇)	桶編號		
98F102	7HO12611	BI	7HO12832	A10	7HO11985	AT
98F108	7HO11985	AI	7HO11621	B10	29HO18018	B5
98F386	29HO17918	A3	529HO17573	B 8	14HO7780	AI
99F201	29H016701	A8 68	7HO12832	A 10	7HO11621	310
99F207	529HO1/573		29HO17918	A 3	14HO7780	AI
99F209	29H016701	A8 B10	7HO11621	Bro	7HO11985	AI
99F210	7HO11621	B /0	29HO18018	B 5	29HO17918	AB
100F404	7HO12832	A10	29HO18018	B 5	529HO17573	BS
100F409	29HO16980	17	7HO12026	A2	29HO16701	48
100F414	29HO18018	BS	529HO17573	B8	29HO17918	A3
100F416	7HO12832	A10	7HO12611	BI	529HO17573	BB
100F419	7HO11985	AI	29HO18018	B5	529HO17573	BB
101F505	29HO16701	13 8	14HO7780	AI	14H07324	A10
101F507	529HO17573	88	29HO17918	A3	14HO7780	10
101F508	14H07324	A10	7HO12026	AZ	29HO16701	AF
101F511	29HO16980	A)	7HO12026	AZ	29HO16701	AP
101F512	7HO12026	AZ	7HO12611	B 1	7HO12832	A 10
101F515	7HO12611	BI	7HO12832	A10	7HO11985	AI
102F601	29HO17918	A3	529HO17573	B&	14HO7780	~ 1
102F603	29HO18018	B 5	529HO17573	B& ·	29HO17918	A3
102F606	7HO12832	A10	29HO18018	B 5	529HO17573	BA
102F608	529HO17573	B 8	29HO17918	A3	529HO17944	BJ
102F611	7HO12611	81	7HO11621	B10	7HO12832	AIO
102F612	29H018018	B 5	529H017573	BE	29HO17918	A3

