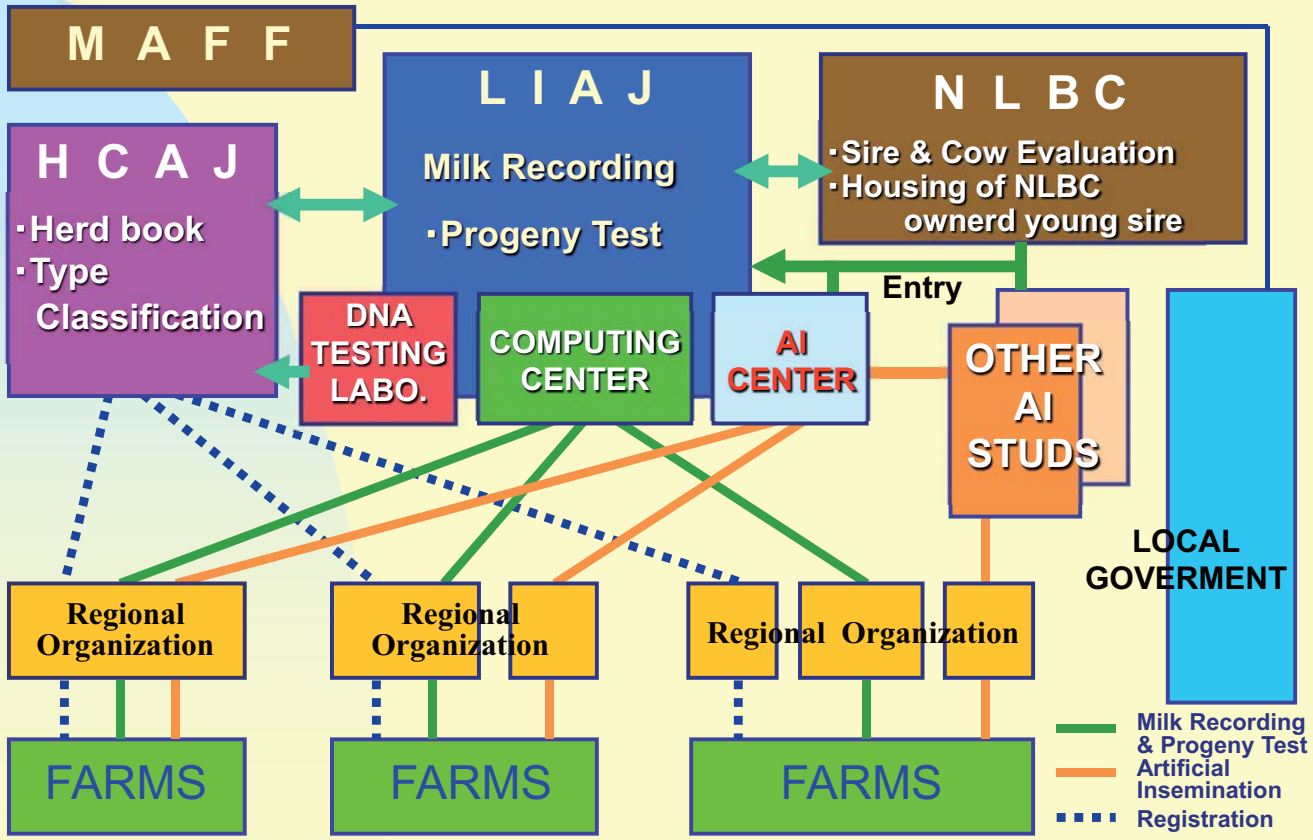
LIAJ INFORMATION

DAIRY CATTLE BREEDING

Dairy Cattle Breeding Structure



Breeding Program

Selection basis

Selection by computer and comission

Selection criteria
NTP
（protein,butterfat, udder,feet&legs、,scs）

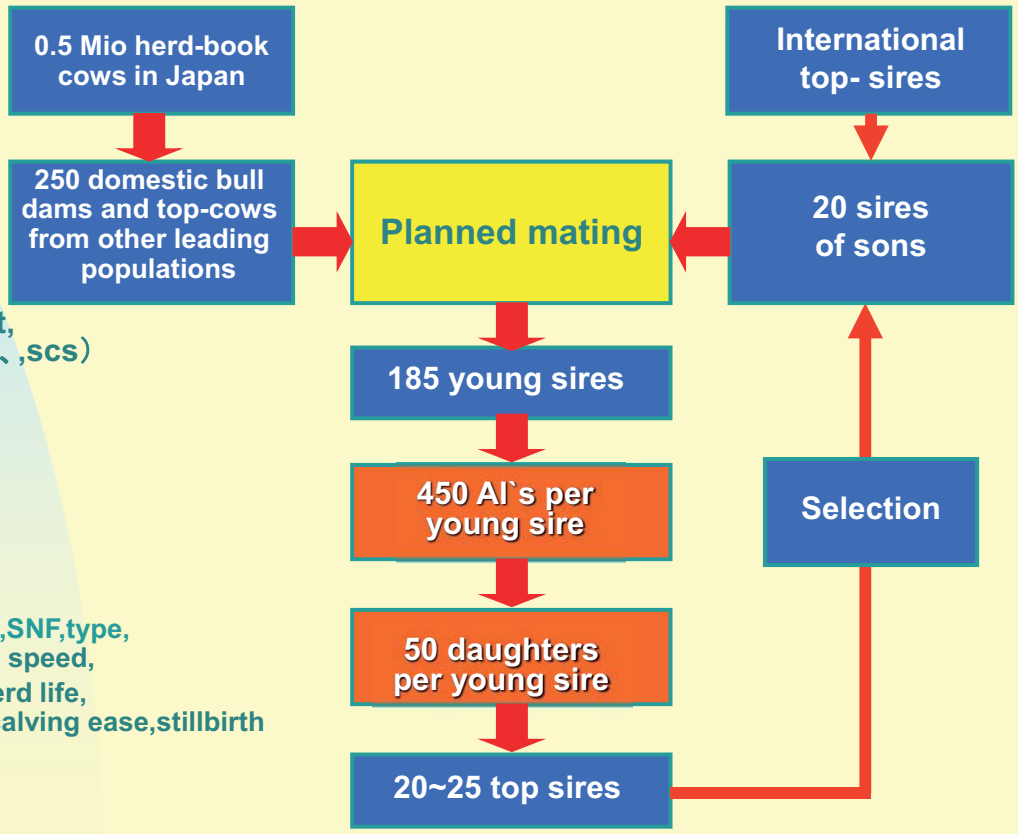
Selection

Selection criteria
G-NTP

Test mating

Progeny testing
milk,butterfat,protein,SNF,type, temperament,milking speed, somatic cell score,herd life, milking persistency,calving ease,stillbirth

Selection



Trend in Dairy Farming

Year	No.of Dairy Farms (1)	No.of Dairyu Cattle (1)	Avg. Herd Size	No. of Cows (1)	Total Milk Prod. (2)	Avg.Prod. Per Cow Per Year (kg)
1975	160. 1	1, 787	11. 2	1, 117	5, 006	4, 464
1990	63. 3	2, 058	32. 5	1, 275	8, 203	6, 383
1995	44. 3	1, 951	44. 0	1, 213	8, 468	6, 986
1996	41. 6	1, 927	46. 3	1, 211	8, 658	7, 168
1998	37. 4	1, 860	49. 7	1, 190	8, 548	7, 242
2000	33. 6	1, 764	52. 5	1, 150	8, 415	7, 401
2001	32. 2	1, 725	53. 6	1, 124	8, 312	7, 388
2002	31. 0	1, 726	55. 7	1, 126	8, 380	7, 462
2003	29. 8	1, 719	57. 7	1, 120	8, 405	7, 613
2004	28. 8	1, 690	58. 7	1, 088	8, 285	7, 732
2005	27. 7	1, 655	59. 7	1, 055	8, 293	7, 894
2006	26. 6	1, 635	61. 5	1, 046	8, 088	7, 864
2007	25. 4	1, 592	62. 7	1, 011	8, 024	7, 988
2008	24. 4	1, 533	62. 8	998	7, 945	8, 011
2009	23. 1	1, 500	64. 9	985	7, 881	8, 088
2010	21. 9	1, 484	67. 8	964	7, 631	8, 046
2011	21. 0	1, 467	69. 9	933	7, 534	8, 034
2012	20. 1	1, 449	72. 1	943	7, 607	8, 153
2013	19. 4	1, 423	73. 4	923	—	—

Note 1) As of Feb. 1st .Each year.(×1,000)
2) 1,000t. Fiscal year （Apr. To Mar.）

Present Status of Milk Recording

(As of 31st. March,2014 *March,2013)

No. of regional organization		46
No. of local milk recording coop.		246
No. of herds enrolled		8, 916
No. of cows enrolled		542, 866
Percentage of herds enrolled		44. 8%
Percentage of cows enrolled		60. 9%
Percentage of registered cows(Holstein)		88. 4%*
Type of test		
official(A4、AT、AMS)	8, 831herds	538, 954cows
owner sampler(B4)	85herds	3, 912cows
Avg. Calving interval in days		435d.*
days in milk		369d.*
dry period		66d.*
Avg. at first calving		25. 2m.*
Avg. Number of calving		2. 7*
Avg. Age of cow in test in month		48m.*
Avg. Number of insemination for preg		2. 4*
Percentage of cows in first lactation		31. 1%*

Average Production of Milk Recording Cows

(Offcialy tested Holstein Cows, 305days 2x)

Year	Milk (kg)	Fat (%)	Prot. (%)	F+P (kg)	SNF (%)
1975	5, 826	3. 6	—	—	—
1980	6, 339	3. 7	—	—	—
1985	7, 008	3. 65	—	—	8. 60
1990	7, 798	3. 69	3. 09	529	8. 62
1995	8, 282	3. 80	3. 16	576	8. 65
2000	8, 794	3. 87	3. 19	621	8. 73
2001	8, 871	3. 89	3. 20	629	8. 73
2002	9. 014	3. 92	3. 21	643	8. 73
2003	9, 093	3. 96	3. 25	656	8. 76
2004	9, 196	3. 96	3. 24	662	8. 75
2005	9, 121	3. 95	3. 25	658	8. 75
2006	9, 179	3. 95	3. 25	661	8. 75
2007	9, 140	3. 96	3. 24	658	8. 73
2008	9, 147	3. 95	3. 23	657	8. 72
2009	9, 217	3. 94	3. 24	662	8. 72
2010	9. 286	3. 93	3. 23	665	8. 71
2011	9, 225	3. 91	3. 23	661	8. 72
2012	9, 286	3. 92	3. 25	666	8. 74
2013	9. 406	3. 92	3. 26	675	8. 75

Average of 305 days production per cow completed lactation in 2012 in ICAR member countries

(Holstein or Black and White)

Country	No. of lactations	Milk (kg)	Fat (%)	Prot. (%)	F+P (kg)
Israel *	72, 925	11, 689	3. 65	3. 24	805
USA	3, 776, 943	10, 791	3. 66	3. 08	727
The Netherlands	558, 427	8, 898	4. 33	3. 52	698
Canada	288, 712	9, 979	3. 80	3. 19	698
Japan	365, 138	9, 295	3. 96	3. 30	675
Germany	2, 076, 830	8, 807	4. 07	3. 38	656
France	1, 687, 730	9, 135	3. 87	3. 30	655
Korea	154, 473	9, 563	3. 78	3. 06	654('09)
Spain	347, 317	9, 504	3. 63	3. 20	649
Italy	699, 480	9, 072	3. 66	3. 31	632
UK	461, 934	8, 572	3. 99	3. 24	620

Note * All breed

Genetic Trend (EBV)

(NLBC DAIRY SIRE and COW Evaluation,2013-Aug)

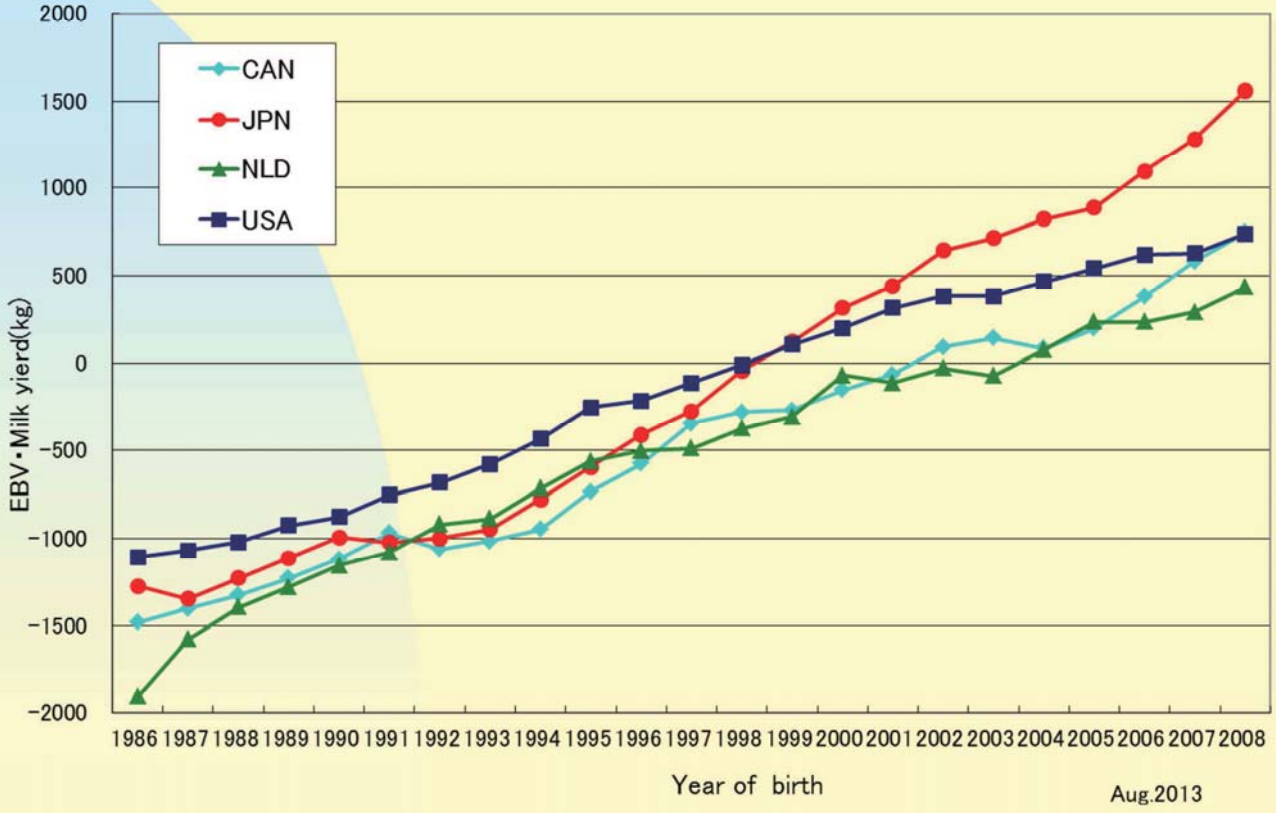
Production Trait	Bulls published `98-`07	Cows tested `01–`10
Milk (kg)	138. 5	138. 7
Fat (kg)	3. 7	3. 2
Protein (kg)	3. 4	3. 9
SNF (kg)	11. 0	11. 4
Fat%	-0. 017	-0. 025
Protein%	-0. 011	-0. 007
SNF%	-0. 012	-0. 008

Genetic Trend（EBV）

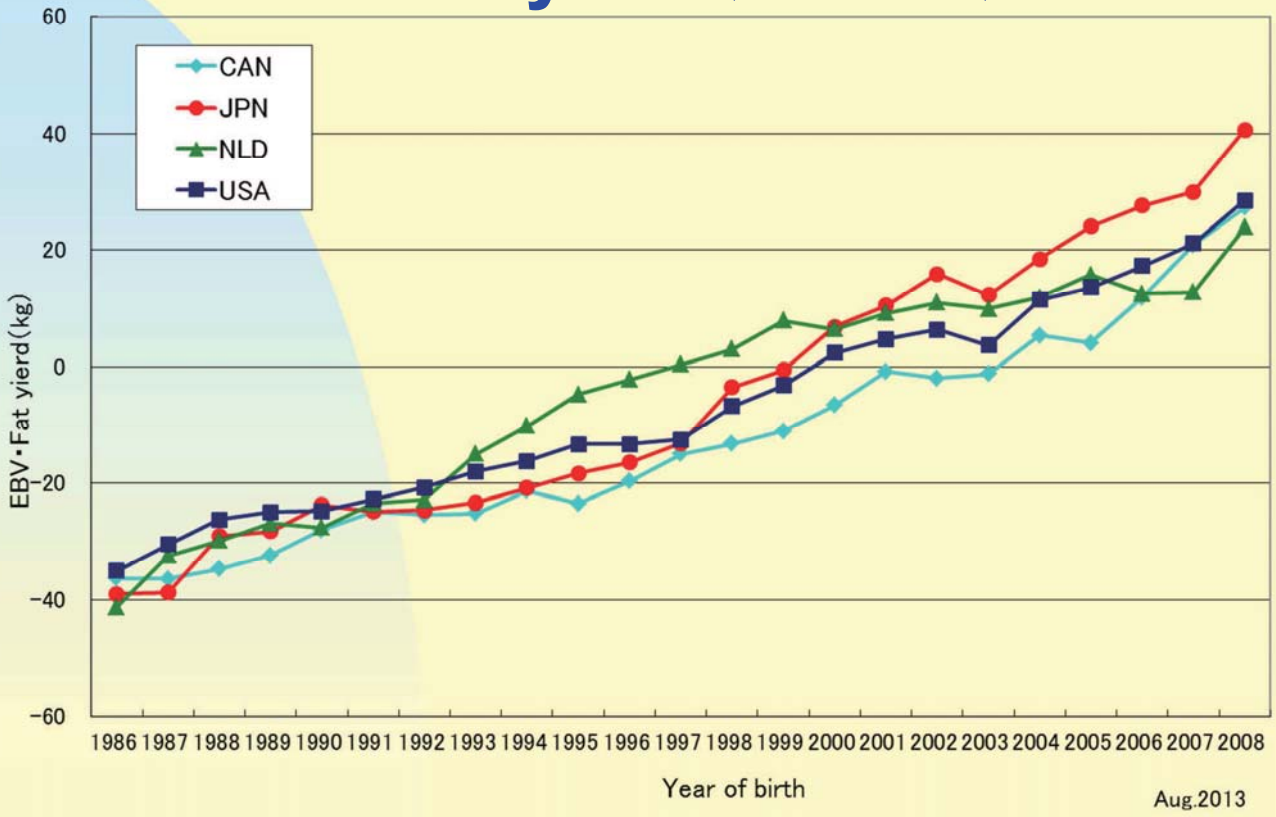
（NLBC DAIRY SIRE and COW Evaluation,2013-Aug）

TYPE Trait	Bulls published `98-`07	Cows tested `01−`10
Final Score	0. 134	0. 096
Frame	0. 102	0. 051
Feet & Legs	0. 074	0. 038
Dairy Strength	0. 099	0. 070
Mammary System	0. 133	0. 102

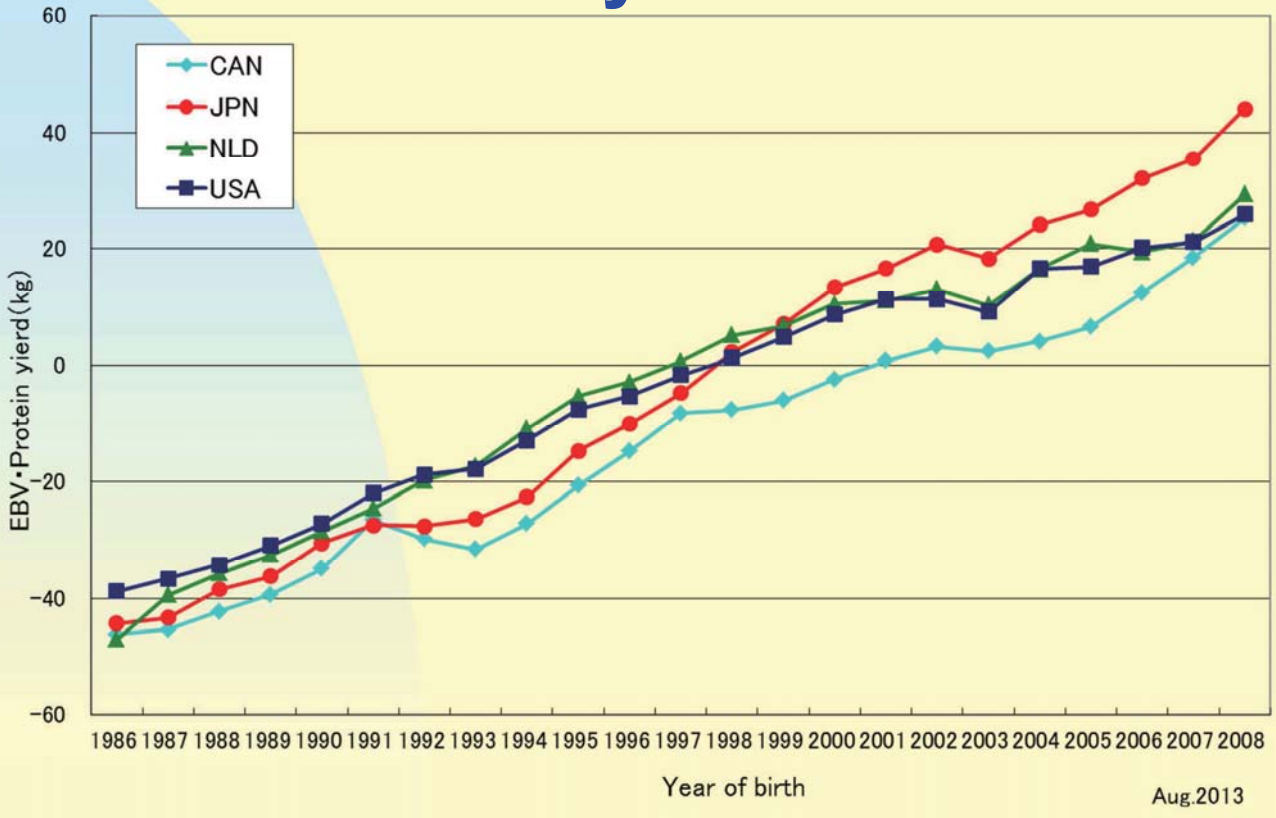
Genetic trend of Bulls of Milk yield（MACE）



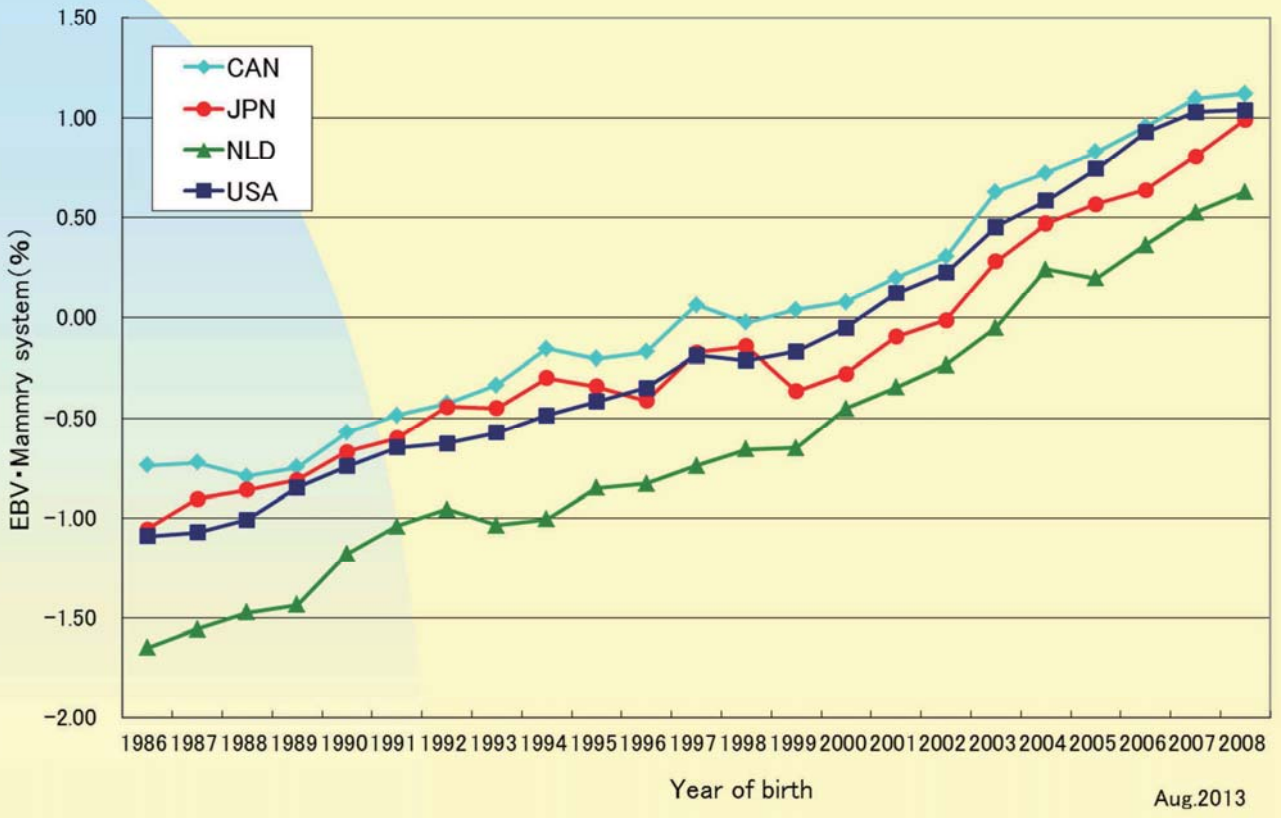
Genetic trend of Bulls of Fat yield（MACE）



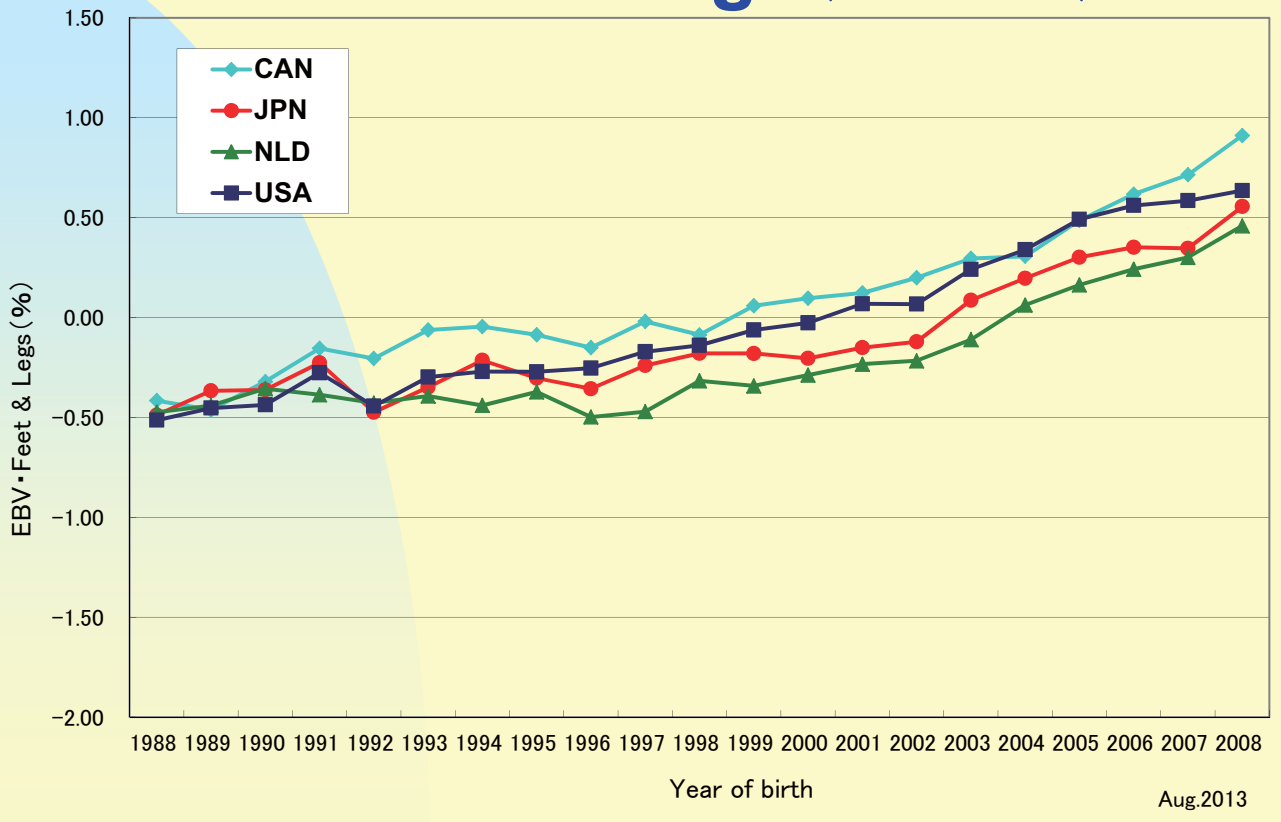
Genetic trend of Bulls of Protein yield（MACE）



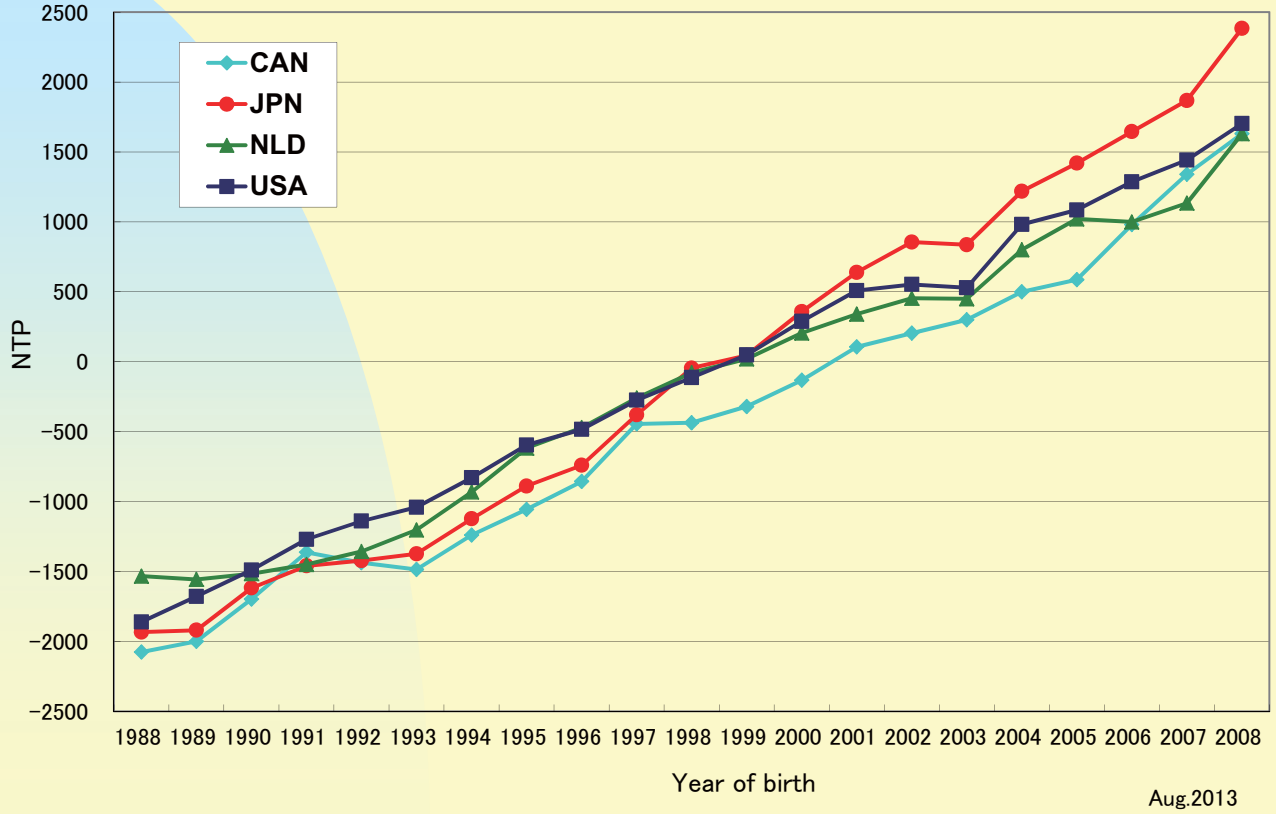
Genetic trend of Bulls of Mammary system（MACE）



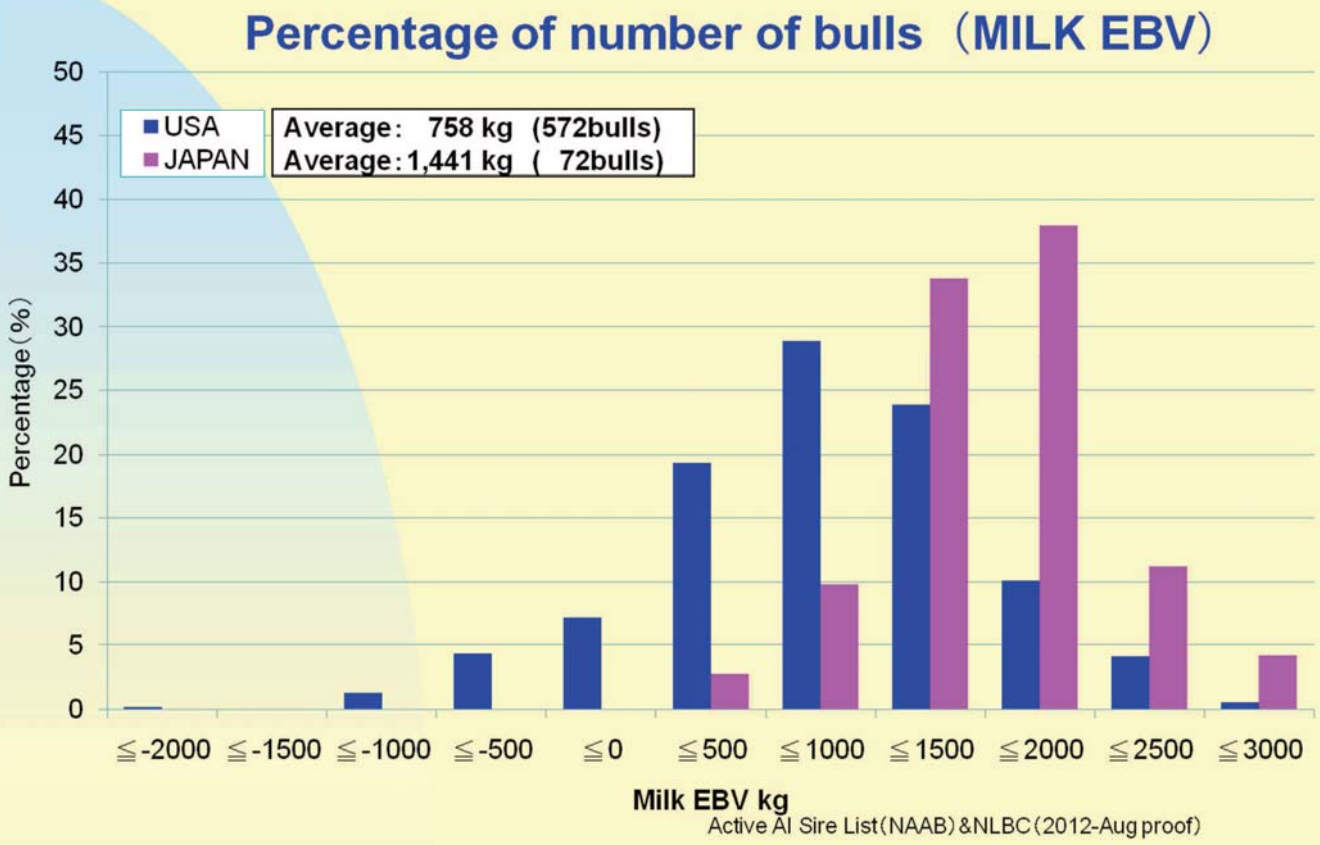
Genetic trend of Bulls of Feet & Legs（MACE）

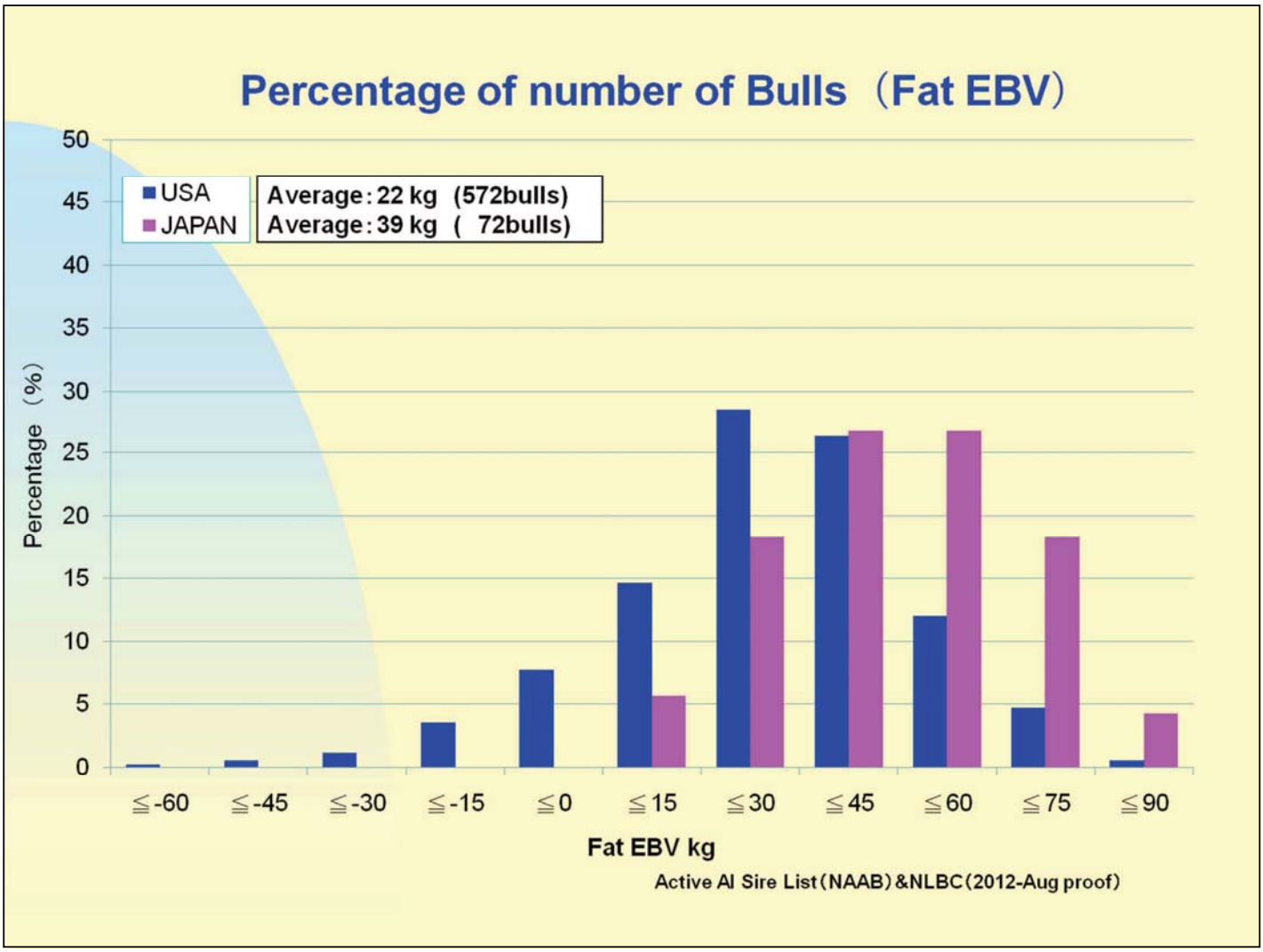


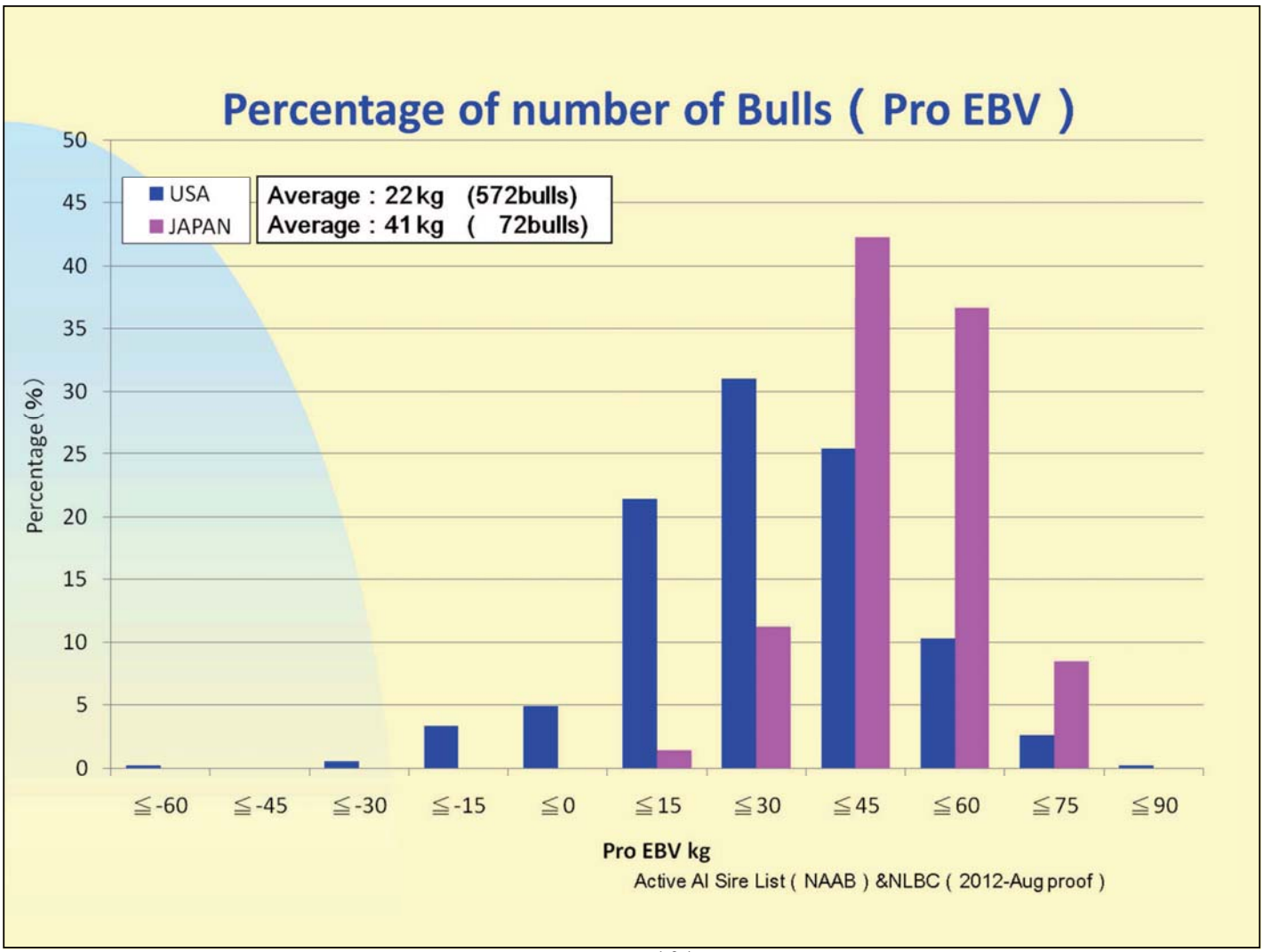
Genetic trend of Bulls of NTP（MACE）

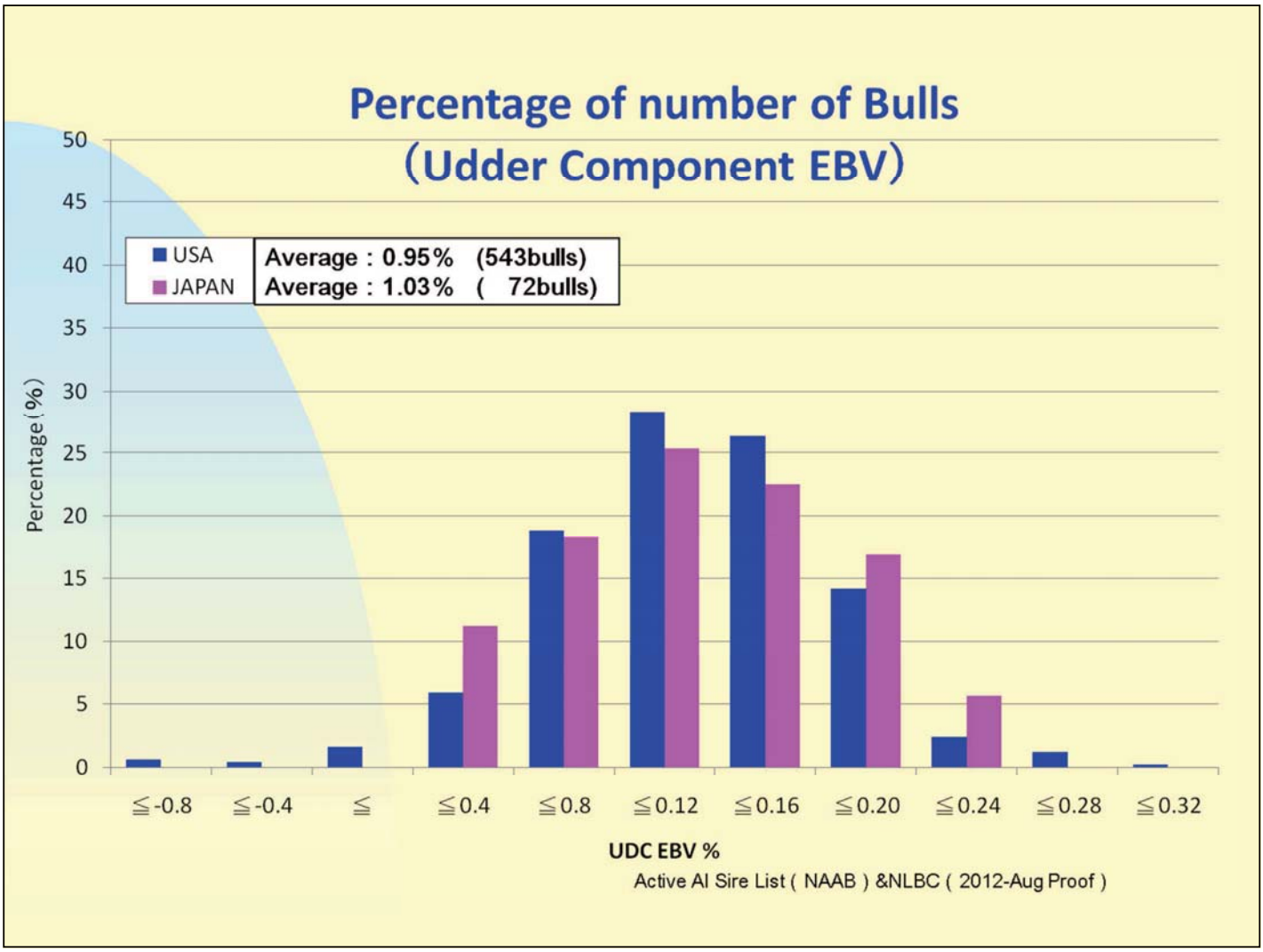


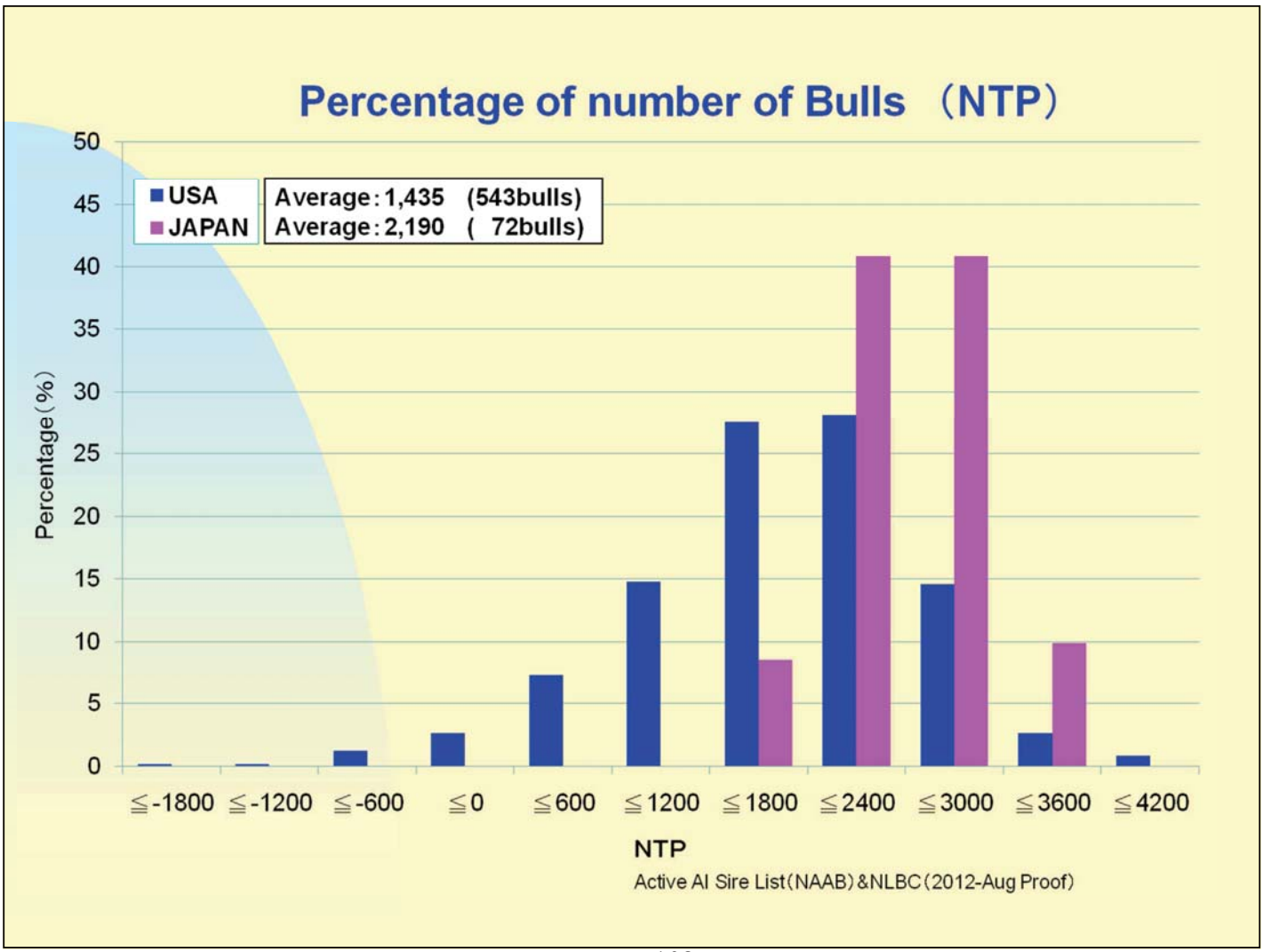
Comparison of Active Sire (JAPAN : USA)




Percentage of number of Bulls（Fat EBV）
USA
JAPAN
Average：22 kg (572bulls)
Average：39 kg (72bulls)
Percentage（%）
50
45
40
35
30
25
20
15
10
5
0
≦-60
≦-45
≦-30
≦-15
≦0
≦15
≦30
≦45
≦60
≦75
≦90
Fat EBV kg
Active AI Sire List（NAAB）&NLBC（2012-Aug proof）


Percentage of number of Bulls (Pro EBV)
USA
JAPAN
Average : 22 kg (572bulls)
Average : 41 kg (72bulls)
Percentage（%）
50
45
40
35
30
25
20
15
10
5
0
≦-60
≦-45
≦-30
≦-15
≦0
≦15
≦30
≦45
≦60
≦75
≦90
Pro EBV kg
Active AI Sire List (NAAB) &NLBC (2012-Aug proof)


Percentage of number of Bulls
(Udder Component EBV)
USA
JAPAN
Average : 0.95% (543bulls)
Average : 1.03% (72bulls)
Percentage (%)
50
45
40
35
30
25
20
15
10
5
0
≦-0.8
≦-0.4
≦
≦0.4
≦0.8
≦0.12
≦0.16
≦0.20
≦0.24
≦0.28
≦0.32
UDC EBV %
Active AI Sire List (NAAB) &NLBC (2012-Aug Proof)


Percentage of number of Bulls (NTP)
USA
JAPAN
Average: 1,435 (543bulls)
Average: 2,190 (72bulls)
Percentage (%)
50
45
40
35
30
25
20
15
10
5
0
≦-1800
≦-1200
≦-600
≦0
≦600
≦1200
≦1800
≦2400
≦3000
≦3600
≦4200
NTP
Active AI Sire List(NAAB) &NLBC(2012-Aug Proof)

NTP

NTP（Nippon Total Profit Index）

$= 7.2[27(Fat / SD_{fat}) + 73(Protein / SD_{protein})]$

$+ 2.4[15(Feet\&Legs / SD_{FL}) + 85(UC / SD_{UC})]$

$+ 0.4[-100(SCS - Average\ of\ SCS\ of\ cow\ were\ born\ in\ base\ year) / SDscs]$

UC（Udder Component）

= 0.17 × Mammary System

+ 0.83 (0.18 × Fore Udder Attachment

+ 0.09 × Rear Udder Height + 0.10 × Udder Support

+ 0.24 × Udder Depth + 0.07 × Front Teat Placement

- 0.10 × Teat Length - 0.22 × Rear Teat Placement)

INTER-BULL EVALUATION -1-

Japanese Holstein Sire`s genetic level is outstanding in the World.

- Japanese Sire（young bulls）`s genetic potencial is improving continuously every year.
- Japanese Sire born in 2008 has highest breeding value in the world in milk yield.

2 Japanese bull is ranked in the world top 5 NTP.
4 Japanese bull is ranked in the world top 5 Milk.
3 Japanese bull is ranked in the world top 5 Protein.
1 Japanese bull is ranked in the world top 5 Feet & legs.

■ Average Milk EBV（2014-Apr Evalution）

（kg）

Year of birth	Canada	France	Japan	Holland	USA
2008	714	855	1401	409	795

INTER-BULL EVALUATION -2-

Japanese Holstein Sire`s genetic level is outstanding in the World.

- 70 Japanese bull is ranked in the World top 100 in milk in the selection criteria.（1,414 bulls official Sire summaris, over 75% reliavility in milk & 70% reliavility in the type）
- 21 Japanese bull is ranked in the top 100 in milk in all of the world bulls.（136,000 bull evaluated by Inter- Bull）

■ Number of Japanese bull in the TOP100 in the Wolrd

（2014-Apr Evalution）

classfication	Milk	Fat	Pro	NTP
Official Sire Summaries（Japan）	70	49	58	44
All Bull	21	12	12	17

LIAJ乳牛　冷凍精液

一般社団法人 家畜改良事業団

LIAJ 乳用牛冷凍精液性能表 LIAJ Dairy Sire evaluation results

2014-2月

	精液號碼	姓 名	NTP 總合指數	PC 產乳成份	DC 耐久性成份	HFC 疾病繁殖成份	LTMN(¥) 長命連產效果	EBV(¥) 乳代效果	Reliability 可信度(%)	Production Traits 生產性能(EBV) Milk 乳量 (kg)	Fat 脂肪 (kg)	Fat (%)	Pro 蛋白質 (kg)	Pro (%)	SNF 無脂 (kg)	SNF (%)	SCS 體細胞分數	Reliability 可信度(%)	Type Traits 體型(EBV) Final Score 決定得点	Frame 骨格	Feet & Legs 肢蹄	Dairy Strength 強健性	Udder 乳房組成	Pedigree 血 譜 Sire 父 系	MGS 外祖父系
1	JP5H53562	O-KFARM HEART **LANCASTER**-ET	3,597	3,063	549	-15	77,192	162,610	99	1,870	68	-0.05	65	0.04	171	0.06	2.43	95	0.81	-1.01	0.69	0.27	1.43	TITANIC	AARON
2	JP5H53812	WHG OCEANIC **JOVIAN**-ET	3,111	2,637	421	53	123,126	146,822	95	1,623	73	0.08	52	-0.01	149	0.06	2.06	85	0.67	0.53	0.58	0.23	0.54	O-MAN	GARTER
3	JP5H54668	OMURA **SWEET G**-ET	2,940	2,691	245	4	45,284	155,341	89	2,197	42	-0.39	62	-0.08	150	-0.38	2.33	79	0.94	0.77	0.64	1.12	0.68	BAXTER	BW MARSHALL
4	JP5H54241	RCA **AVENSIS** TWO-O-ET	2,721	2,381	423	-83	56,161	96,983	92	908	73	0.37	45	0.15	88	0.08	2.80	84	0.34	-0.21	0.03	-0.20	0.76	JET STREAM	BW MARSHALL
5	JP5H54423	WHG BARLETTA **JAMUNA**-ET	2,713	2,267	361	85	52,132	109,027	89	1,133	69	0.23	43	0.06	103	0.03	1.89	78	1.46	1.12	0.70	1.73	1.27	BACKEYE	TITANIC
6	JP5H54028	**TOPGUN** OF CLEITUS-ET	2,703	2,249	404	50	107,745	122,152	91	1,389	49	-0.05	48	0.03	131	0.09	2.08	83	0.89	1.35	0.23	0.49	0.79	O-MAN	HERSHEL
7	JP5H54887	**ROCKEY** PRELUDE LEADMAN-ET	2,658	2,378	212	68	45,714	165,464	87	2,285	29	-0.53	57	-0.15	180	-0.18	1.98	79	1.49	1.18	0.63	1.69	1.16	BAXTER	FINLEY
8	JP5H54570	ROADVIEW GALPARA **AMANOCH**-ET	2,592	2,483	135	-26	53,319	206,543	86	2,867	54	-0.49	53	-0.34	206	-0.38	2.49	75	1.30	1.59	0.44	1.95	0.63	LOU	CONVINCER
9	JP5H54411	RCA **ATHLETE** 26-ET	2,504	2,109	391	4	56,545	117,971	90	1,449	46	-0.10	45	-0.02	119	-0.08	2.33	79	1.37	0.43	0.89	1.52	1.27	TOYSTORY	O-MAN
10	JP5H54566	WHG BARLETTA **CHATHAM**-ET	2,455	1,926	461	68	89,502	153,622	88	2,106	35	-0.42	43	-0.23	160	-0.22	1.98	78	1.28	1.34	0.48	0.87	1.32	BUCKEYE	MORTY
11	JP5H53241	NLBC ELFIN **MASERATI**-ET	2,283	1,893	475	-85	35,673	105,877	99	1,328	39	-0.13	41	-0.02	107	-0.09	2.81	99	1.70	1.49	0.59	1.67	1.62	LHEROS	R MARSHALL

NTP：Nippon Total Profit Index(総合指数)

NTP=PC+DC+HFC

PC=産乳成份=Production Component　DC=耐久性成份=Durability Component　HFC=疾病繁殖成份=Health & Fertility Component

NTP=7.2{27x(FAT/SD fat)+73(PRO/SD pro)}+2.4{15(FL/SD fl)+85(UC/SD uc)}+0.4{-100(SCS-2005year Barth AVERAGE SCS)/SD scs}

SD：Standard deviation

FL=Foot & Legs　UC=Udder Composite　SCS=Somatic Cell Score

UC=0.17×Mammary System(EBV)+0.83(0.18×Fore Attachment+0.09×Rear Udder Height+0.10×Udder Cleft+0.24×Udder Depth+0.07×Fore Teat Placement-0.10×Teat Length-0.22×Rear Teat Placement)

LTNM(¥)=Life Time Net Merit

Milk

略 号	名 号	kg
JP5H54570	AMANOCH	2,867
JP5H54887	ROCKEY	2,285
JP5H54668	SWEETY G	2,197
JP5H54566	CHATHAM	2,106
JP5H53562	LANCASTER	1,870
JP5H53812	JOVIAN	1,623
JP5H54411	ATHLETE	1,449
JP5H54028	TOPGUN	1,389
JP5H53241	MASERATIE	1,328
JP5H54423	JAMUNA	1,133
JP5H54241	AVENSIS	908

Fat

略 号	名 号	kg
JP5H53812	JOVIAN	73
JP5H54241	AVENSIS	73
JP5H54423	JAMUNA	69
JP5H53562	LANCASTER	68
JP5H54570	AMANOCH	54
JP5H54028	TOPGUN	49
JP5H54411	ATHLETE	46
JP5H54668	SWEETY G	42
JP5H53241	MASERATIE	39
JP5H54566	CHATHAM	35
JP5H54887	ROCKEY	29

Pro

略 号	名 号	kg
JP5H53562	LANCASTER	65
JP5H54668	SWEETY G	62
JP5H54887	ROCKEY	57
JP5H54570	AMANOCH	53
JP5H53812	JOVIAN	52
JP5H54028	TOPGUN	48
JP5H54241	AVENSIS	45
JP5H54411	ATHLETE	45
JP5H54423	JAMUNA	43
JP5H54566	CHATHAM	43
JP5H53241	MASERATIE	41

Final Score

略 号	名 号	
JP5H53241	MASERATIE	1.70
JP5H54887	ROCKEY	1.49
JP5H54423	JAMUNA	1.46
JP5H54411	ATHLETE	1.37
JP5H54570	AMANOCH	1.30
JP5H54566	CHATHAM	1.28
JP5H54668	SWEETY G	0.94
JP5H54028	TOPGUN	0.89
JP5H53562	LANCASTER	0.81
JP5H53812	JOVIAN	0.67
JP5H54241	AVENSIS	0.34

Udder

略 号	名 号	UD
JP5H53241	MASERATIE	1.62
JP5H53562	LANCASTER	1.43
JP5H54566	CHATHAM	1.32
JP5H54423	JAMUNA	1.27
JP5H54411	ATHLETE	1.27
JP5H54887	ROCKEY	1.16
JP5H54028	TOPGUN	0.79
JP5H54241	AVENSIS	0.76
JP5H54668	SWEETY G	0.68
JP5H54570	AMANOCH	0.63
JP5H53812	JOVIAN	0.54

JP5H53562

O-KFARM HEART LANCASTER ET

系 譜

HARTLINE TITANIC- ET

USA123066734

MAUGHLIN STORM-ET

CAN5457798

DOCO LEADMAN

TENACIOUS-ET

USA14734618A

SAVAGE-LEIGH AARON

LINNY-ET

USA60046207

DIXIE-LEE AARON-ET

USA2265005

SAVAGE-LEIGH

BELLWOOD LINDA

USA17121835

JP5H53562

LANCASTER

NTP +3,597(第位)

産乳成份	+3,063
耐久性成份	+549
疾病繁殖成份	−15

長命連産効果 +77,912円

乳代効果 +162,610円

EBV

Milk	+1,870kg	
Fat	+68kg	−0.05%
SNF	+171kg	+0.06%
Pro	+65kg	+0.04%

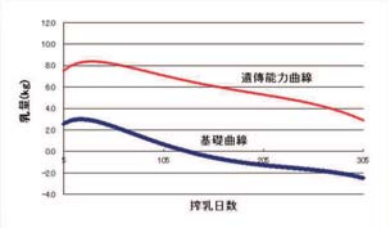
(99%R 535D/357H)

體細胞分數 2.43 (第 位)

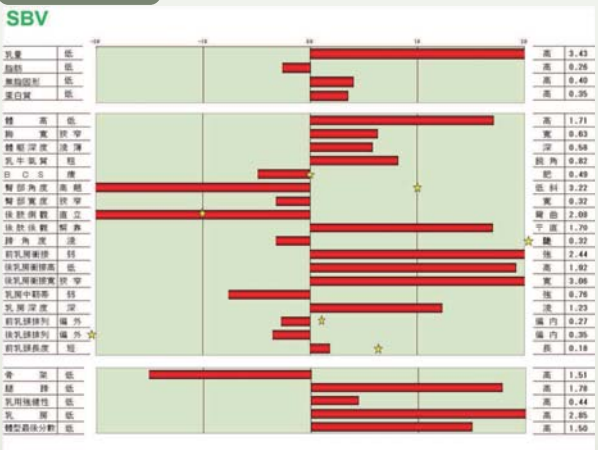
體型最後分數	+0.81	乳用強健性	+0.27
體貌骨架	−1.01	乳 房	+1.43
腿 蹄	+0.69		

(99%R 260D/196H)

遺傳能力曲線



SBV



管理性状

生産孩難産率	10% (85%R)
女兒牛難産率	14% (80%R)
生産孩死産率	8% (98%R)
女兒牛死産率	6% (78%R)
女兒受胎率	37% (76%R)
天空胎日數	149日 (76%R)

気 質	101
搾乳性	100
在群期間	100 (87%R)
泌乳持続性	100 (82%R)

LANCASTER 女兒牛

JP5H54668

日本國產種公牛

OMURA

SWEETY G

系　譜

EMERALD-ACR-SA

T-BAXTER

USA132973942

OMURA SWEETY MARSHALL

JPN100190545

FUSTEAD EMORY BLITZ- ET

USA17013604

EMERALD-ACR-SA

T-MALLORY ET

USA130227821

MARA-THON

BW MARSHALL-ET

USA2290977

OMURA SWEETY DURHAM

JPN0819204538

JP5H54668

SWEETY G

NTP +2, 940(第位)

產乳成份	+2, 691
耐久性成份	+245
疾病繁殖成份	+4

長命連產効果 +45,284円

乳代効果 +155,341円

EBV

Milk	+2, 197kg	
Fat	+42kg	-0. 39%
SNF	+150kg	-0. 38%
Pro	+62kg	-0. 08%

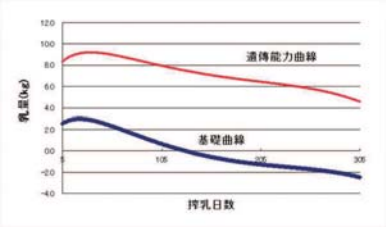
(89%R 61D/54H)

體細胞分數 2. 33

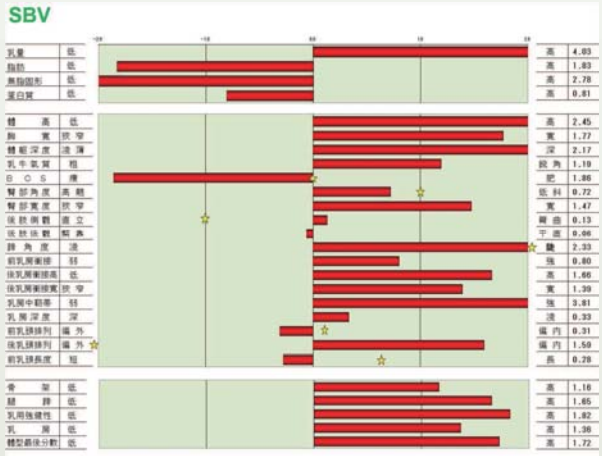
體型最後分數	+0. 94	乳用強健性	+1. 12
體貌骨架	+0. 77	乳　房	+0. 68
腿　蹄	+0. 64		

(79%R 49D/46H)

遺傳能力曲線



SBV



管理性状

生產孩難產率	6%	(予測値)
女兒牛難產率	6%	(35%R)
生產孩死產率	6%	(59%R)
女兒牛死產率	5%	(43%R)
女兒受胎率	34%	(51%R)
天空胎日數	155日	(58%R)

気　質	99	
搾乳性	97	
在群期間	100	(62%R)
泌乳持続性	100	(84%R)

SWEETY G　女兒牛

JP5H54668

ROCKEY PRELUDE LEADMAN－ET

系　譜

- EMERALD-ACR-SA
  - T-BAXTER
    - USA132973942
- RALMA FINLEY C-F
  - CHERISH-ET
    - USA52357909
- FUSTEAD EMORY BLITZ- ET
  - USA17013604
- EMERALD-ACR-SA
  - T-MALLORY ET
    - USA130227821
- OPSAL FINLEY-ET
  - USA120780521
- RALMA CHRISTMAS
  - FUDGE-ET
    - USA51547373

JP5H54887

ROCKEY

NTP +2, 658(第位)

産乳成份	+2, 378
耐久性成份	+212
疾病繁殖成份	+68

長命連産効果 +45,714円

乳代効果 +165,464円

EBV

Milk	+2, 285kg	
Fat	+29kg	-0. 53%
SNF	+180kg	-0. 18%
Pro	+57kg	-0. 15%

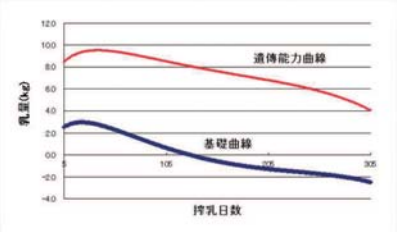
(87%R 52D/44H)

體細胞分數 1. 98

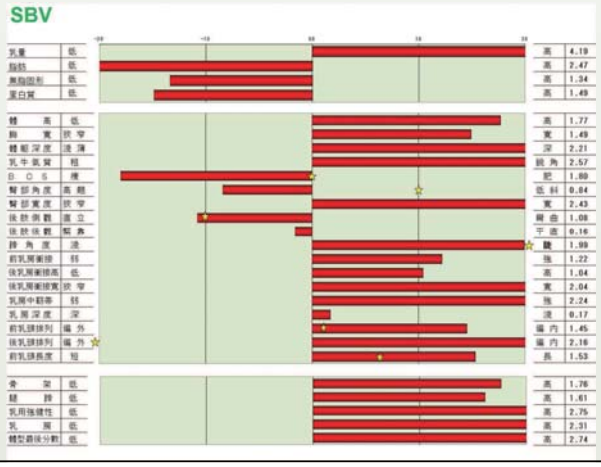
體型最後分數	+1. 49	乳用強健性	+1. 69
體貌骨架	+1. 18	乳　房	+1. 16
腿　蹄	+0. 63		

(79%R 51D/45H)

遺傳能力曲線



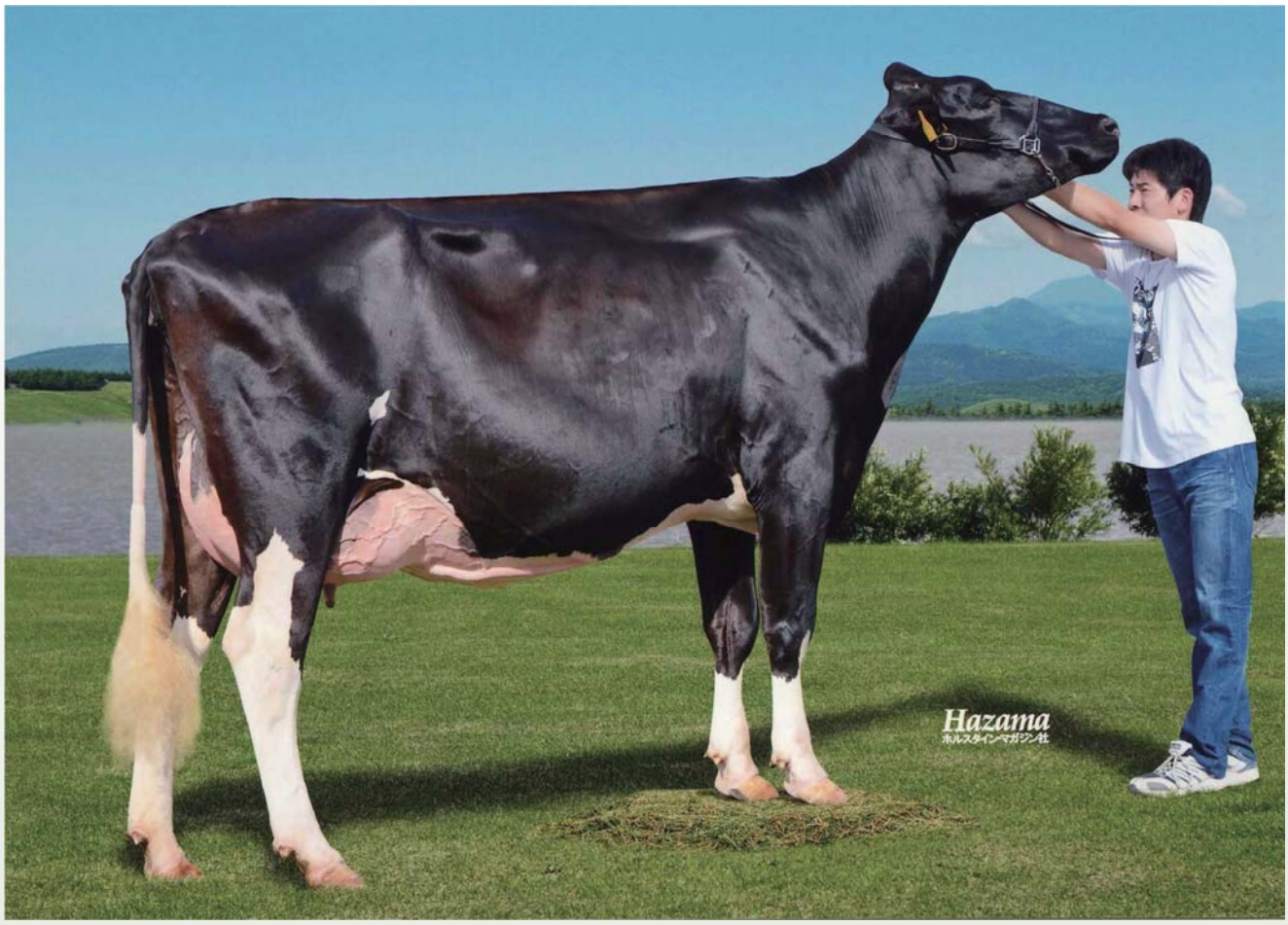
SBV



管理性状

生産孩難産率	6%（予測値）
女兒牛難産率	6%（33%R）
生産孩死産率	6%（56%R）
女兒牛死産率	5%（38%R）
女兒受胎率	38%（48%R）
天空胎日數	145日（55%R）

気　質	101
搾乳性	99
在群期間	99（60%R）
泌乳持続性	100（82%R）



ROCKEY　女兒牛

JP5H54570

日本國產種公牛

ROADVIEW GALPARA

AMANOCH ET

系　譜

- JENNY-LOU MARSHALL
  - P-149-ET
    - USA122274798
  - LADYS-MANOR
    - GALS PARADISE
      - JPN351204133
- MARA-THON BW
  - MARSHALL-ET
    - USA2290977
  - JENNY-LOU
    - PATRON TOYANE
      - USA17313307
- WA-DEL CONVINCER
  - USA224905
  - LADUS-MANOR
    - COSMOPOLITAN
      - JPN1015393156

JP5H54570

AMANOCH

NTP +2, 592(第位)

產乳成份	+2, 483
耐久性成份	+135
疾病繁殖成份	-26

長命連產效果 +53,319円

乳代効果 +206,543円

EBV

Milk	+2, 867kg	
Fat	+54kg	-0. 49%
SNF	+206kg	-0. 38%
Pro	+53kg	-0. 34%

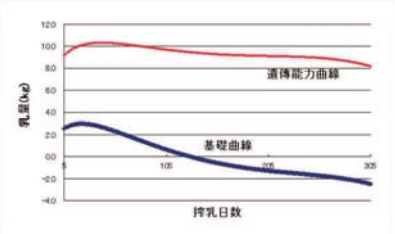
(86%R 46D/42H)

體細胞分數 2. 49

體型最後分數	+1. 30	乳用強健性	+1. 95
體貌骨架	+1. 59	乳　房	+0. 63
腿　蹄	+0. 44		

(75%R 36D/36H)

遺傳能力曲線



SBV

管理性状

生產孩難產率	6%（予測値）
女兒牛難產率	6%（25%R）
生產孩死產率	6%（52%R）
女兒牛死產率	7%（37%R）
女兒受胎率	34%（48%R）
天空胎日數	155日（57%R）

気　質	101
搾乳性	100
在群期間	100（60%R）
泌乳持続性	101（83%R）

AMANOCH　女兒牛

JP5H54028

TOPGUN OF CLEITUS ET

系　譜

- O-BEE MANFRED JUSTIS-ET
  USA122358313
  - HA-HO CUBBY MANFRED-ET
    USA2183007
  - MEIER-MEADOWS EL JEZEBEL-ET
    USA15459080
- DE-SU HERSHEL DEBBIE-ET
  USA207489798
  - LEXVOLD LUKE HERSHELL-ET
    USA2294436
  - FAR-O-LA WINCHESTER DOT-ET
    USA126302088

JP5H54028

TOPGUN

NTP +2, 703(第位)

産乳成份	+2, 249
耐久性成份	+404
疾病繁殖成份	+50

長命連産効果 +107,745円

乳代効果 +122,152円

EBV

Milk	+1, 389kg	
Fat	+49kg	-0. 05%
SNF	+131kg	+0. 09%
Pro	+48kg	+0. 03%

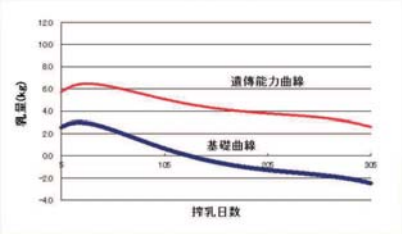
(91%R 80D/73H)

體細胞分數 2. 08

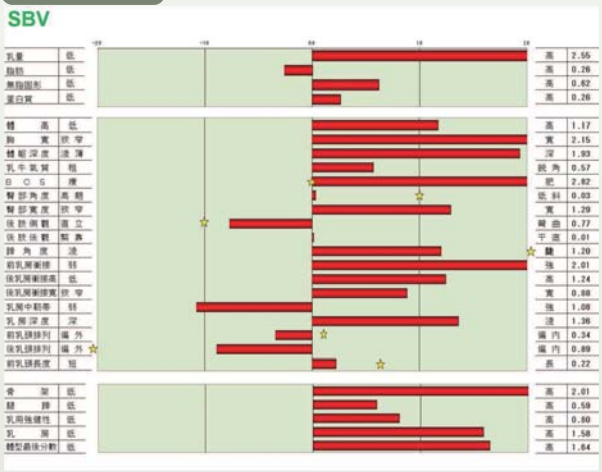
體型最後分數	+0. 89	乳用強健性	+0. 49
體貌骨架	+1. 35	乳　房	+0. 79
腿　蹄	+0. 23		

(83%R 67D/64H)

遺傳能力曲線



SBV

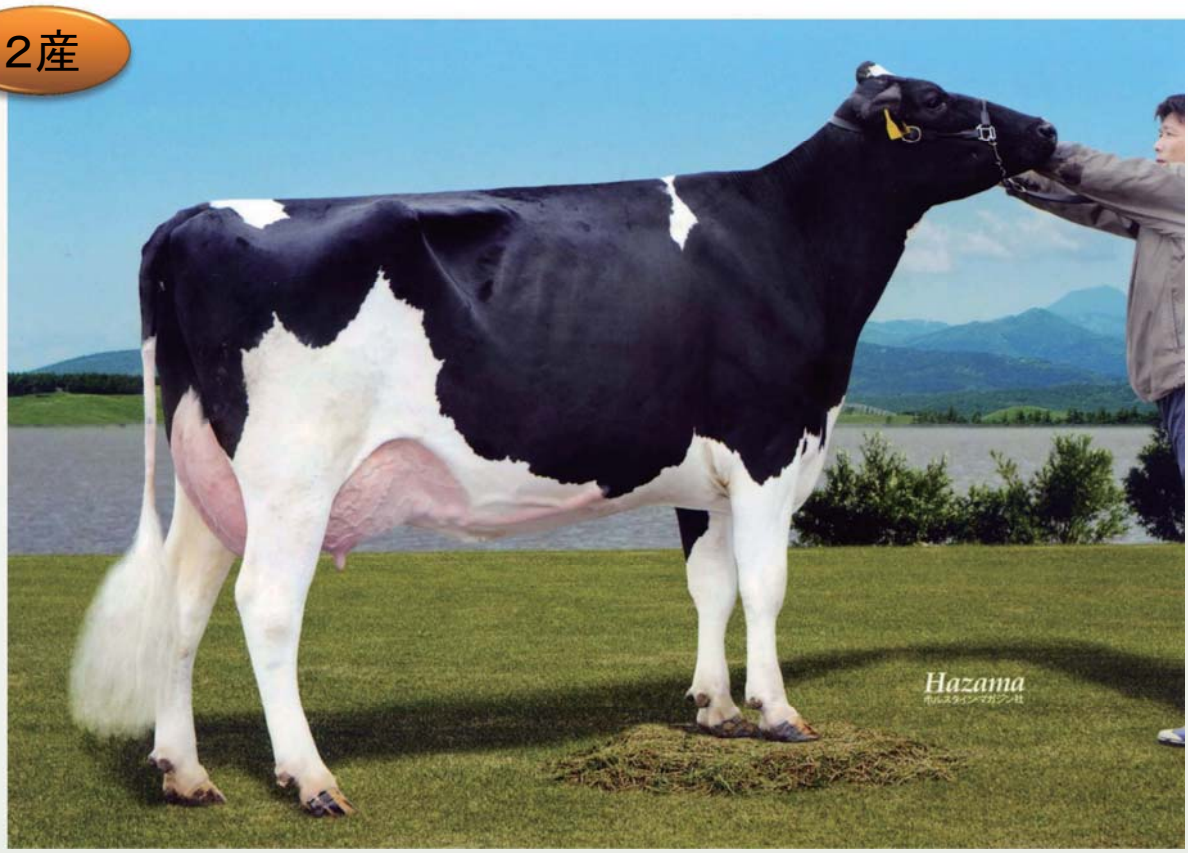


管理性状

生産孩難産率	4% (88%R)
女兒牛難産率	5% (34%R)
生産孩死産率	6% (97%R)
女兒牛死産率	6% (61%R)
女兒受胎率	43% (56%R)
天空胎日數	130日 (65%R)

気　質	101
搾乳性	100
在群期間	101 (66%R)
泌乳持続性	100 (90%R)

2産



TOPGUN 女兒牛

JP5H54423

WHG BARLETTA

JAMUNA ET

系　譜

- R-E-W BUCKEYE-ET
  - USA130588960
  - BENNER TITANIC
    - JUICY FRUIT-ET
    - CAN7441471
- MARA-THON BW
  - MARSHALL-ET
  - USA2290977
  - MAYERLANE RUD
    - BUBBLE-ET
    - USA120536177
- HARTLINE TITANIC-ET
  - USA123066734
  - BENNER OUTSIDE JOYCE
  - CAN6026421

JP5H54423

JAMUNA

NTP +2,713(第位)

産乳成份	+2,267
耐久性成份	+361
疾病繁殖成份	+85

長命連産効果	+52,132円
乳代効果	+109,027円

EBV

Milk	+1,133kg	
Fat	+69kg	+0.23%
SNF	+103kg	+0.03%
Pro	+43kg	+0.06%

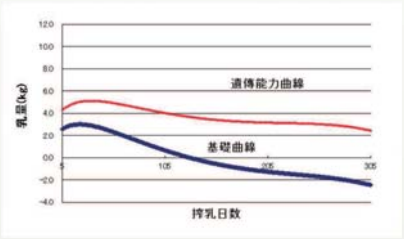
(89%R 62D/51H)

體細胞分數　1.89

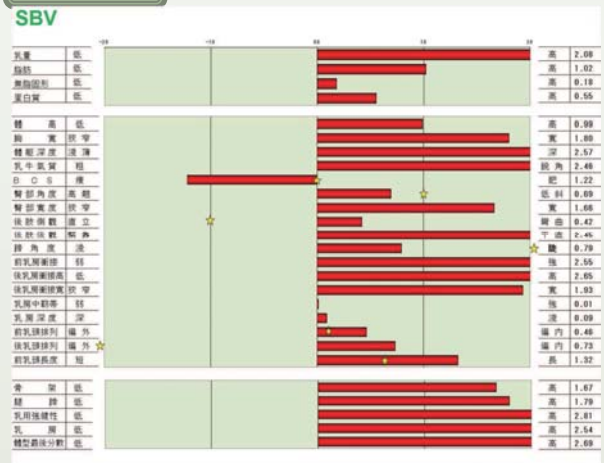
體型最後分數	+1.46	乳用強健性	+1.73
體貌骨架	+1.12	乳　房	+1.27
腿　蹄	+0.70		

(78%R 48D/43H)

遺傳能力曲線



SBV



管理性状

生産孩難産率	6%	(43%R)
女兒牛難産率	6%	(36%R)
生産孩死産率	6%	(80%R)
女兒牛死産率	6%	(49%R)
女兒受胎率	36%	(51%R)
天空胎日數	149日	(60%R)

気　質	100	
搾乳性	100	
在群期間	99	(59%R)
泌乳持続性	101	(87%R)

JAMUNA　女兒牛

JP5H53241

日本國產種公牛

NLBC ELFIN

MASERATI ET

系　譜

COMESTAR LHEROS-ET
CAN6663935

SHOREMAR MASON-ET
CAN5279989

COMESTAR LAURA BLACK-ET
CAN5319783

MACI DECIDER R MARSHALL-ET
JPN0767905716

RICECREST MARSHALL-ET
USA2297473

LANGS-TWIN-B PCD MACI-ET
USA60030272

JP5H53241

MASERATI

NTP +2, 283(第位)

産乳成份	+1, 893
耐久性成份	+475
疾病繁殖成份	−85

長命連産効果 +35,673円

乳代効果 +105,877円

EBV

Milk	+1, 328kg	
Fat	+39kg	−0. 13%
SNF	+107kg	−0. 09%
Pro	+41kg	−0. 02%

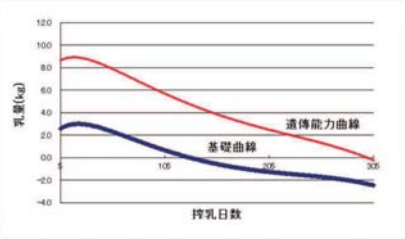
(99%R 7, 046D/2, 663H)

體細胞分數 2. 81

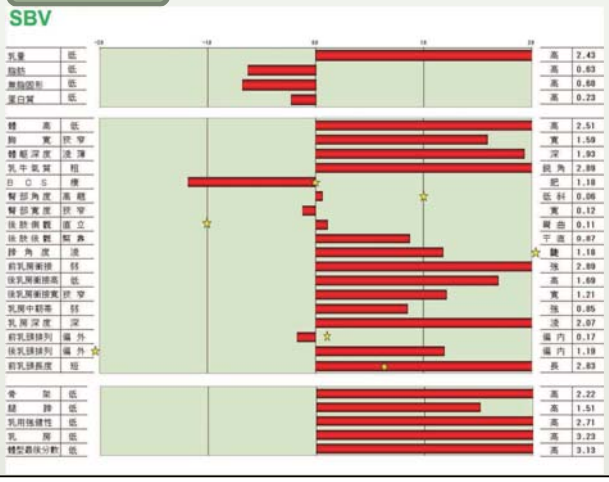
體型最後分數	+1. 70	乳用強健性	+1. 67
體貌骨架	+1. 49	乳　房	+1. 62
腿　蹄	+0. 59		

(99%R 2, 438D/1, 688H)

遺傳能力曲線



SBV



管理性状

生産孩難産率	8%	(90%R)
女兒牛難産率	4%	(97%R)
生産孩死産率	6%	(99%R)
女兒牛死産率	5%	(98%R)
女兒受胎率	40%	(97%R)
天空胎日數	135日	(99%R)

気　質	102	
搾乳性	100	
在群期間	102	(98%R)
泌乳持続性	98	(99%R)

MASERATI 女兒牛

日本の種雄牛は･･･

推薦有的特徵

- 世界屈指の泌乳能力！
- 台湾の飼養環境に近い
  日本での後代検定

清聽謝謝

一般社団法人 家畜改良事業団

JP5H53241　女兒牛