

Israeli Holstein Bulls Catalogue 2012









As Israel's leading company for the artificial insemination and breeding of dairy cows, we are proud to present our 2012 catalogue.

We trust that you will benefit from the professional data and updated information, including our listing of bull characteristics, production traits and functional traits.

We feel certain that you will find valuable information to help you promote your breeding program and improve production results at your dairy farm.

In addition, we welcome you to visit our website <u>www.sion-israel.com</u> and feel free to "Contact Us" for any additional information and/or comments.

Sincerely,

Alon Inbar, CEO

SION Israeli Company for AI & Breeding Ltd.

Genomics

Every year, as part of its breeding program, Sion purchases 50 young bulls for testing. With the entrance of the genomic era, fewer bulls will be tested and the number will most probably drop to about 30 bulls per year. The Israel Cattle Breeders Association and Sion have recently completed the validation tests in Israel for more than 1,000 proven bulls. We are currently in the process of implementing a national program for receiving the genomic data from selective cows and heifers, as well as from all of the calves and young bulls for the breeding program.

Sion Laboratory and Sperm Bank

In 2011, semen was collected from 117 bulls, out of which 28 were proven bulls for use on the bull list and the rest were young and tested bulls - a total of 1.2 million doses. Close to 454,000 doses of semen were artificially inseminated in Israel and about 95% of the semen was Israeli. At the Sion laboratory we currently produce doses of semen based on a targeted post thaw number of 8 million progressively motile sperm cells. The total number of sperm cells per straw can vary, but at the end of the process, and after freezing and thawing, there are 8 million sperm cells with progressive motion.



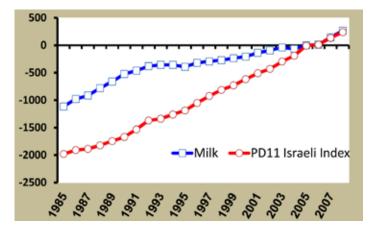
Inseminators

Two additional insemination areas were added to our workload in 2011, bringing the total to 35 different areas throughout the country. The majority of inseminations are from the Holstein Friesian breed. Sion purchased software that is capable of informing the inseminators of the mating demands per farm on a daily basis. This information enables the coordination and distribution of workloads among the various insemination areas. The inseminators participated in professional training courses, both in Israel and around the world, in attempts to improve their professional levels of performance.

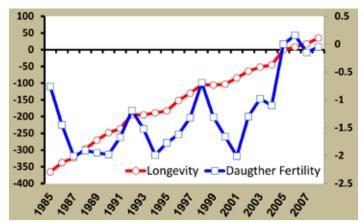
Genetic Advancements

Details regarding the planned mating of the dairy cows in Israel are transferred directly to the inseminators' portable terminals. In turn, inseminators work according to an organized plan, coordinating between cow and bull. The primary advancements are the kilograms of protein and fat, supplemented by the secondary traits of daughter fertility, persistence, longevity and daughter calving ease. The genetic advancements over the past ten years stand at: 100 PD11 units (the Israeli Breeding Index) per year, 50 Kg. of milk per year, 15 days of cow longevity in the herd per year, 0.1% daughter fertility per year and 0.08% persistence in first lactations per year (illustrations).





Genetic Advancements in Longevity and Daughter Fertility



Exports

Sion exports semen primarily to countries in the Middle East, Eastern Asia, Western Asia and Africa. Numerous dairy farms and organizations around the world have requested Israeli genetic material, but due to veterinary limitations, we are not able to export to countries in Europe or North America. The number of doses of semen being exported is on the rise and currently stands at 100,000 doses per year.



Israeli Artificial Insemination & Breeding Company

The Israeli dairy cattle population has the highest mean milk and milk solid production in the world, even though dairy production conditions are sub-optimal due to heat stress during most of the year. Israeli bulls transmit outstanding genetic ability for milk yield and components and excel in fertility, longevity and udder health traits. Currently, 88% of the Israeli dairy herds are involved in the DHI system.

Approximately 50 young bulls are tested every year. Semen from about 20 proven bulls is available to the Israeli dairy farmers for general service. Most are proven bulls with evaluations based on daughter production records, and the rest are high pedigree index young bulls. Genetic evaluations are performed bi-annually. Bulls are ranked by the Israeli Selection Index PD11.

Sion is Israel's leading company for AI techniques, with decades of practical experience.

E Sion is responsible for 95% of all dairy cow inseminations and breeding in Israel.

Sion's breeding index focuses on production and economic fitness traits.

Sion is an integral part of the 3 pillars: the insemination, expert cow veterinarians and the Herd Book data flow.

Sion's mating program ensures very low inbreeding percentages.

Sion's data reliability assures trustworthy and dependable genetic parameters.

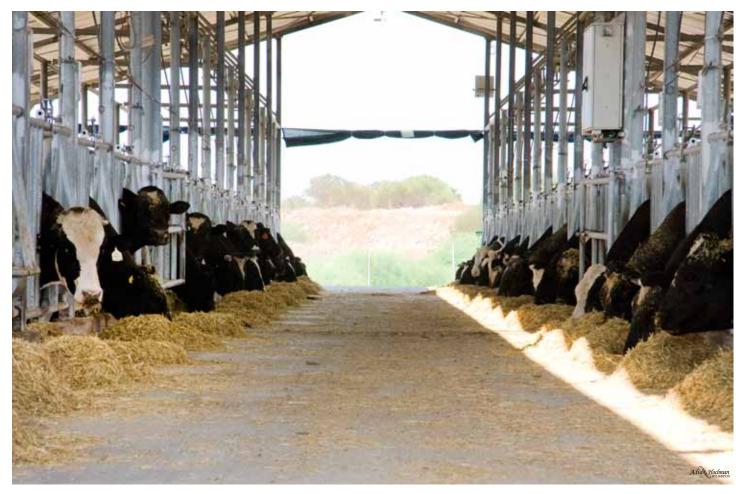
Sion's bulls are of the highest quality, due to the combination of mutual cooperation among Israeli breeders and the central data system, along with the lack of incentive for preferential treatment of elite cows.

Sion's bulls, with excellent genetic traits, combined with professional management, ensure high production dairy cows, in spite of the hot, humid climate.

A Sion's bulls contribute to reasonable fertility parameters and high longevity.



SION Israeli Artificial Insemination & Breeding Company



ADESO 7505

International No. ISRM000000007505





Born: February 22, 2007

Farm: Reshafim

Owner: SION

Breeding Values: November 2011

Sire : Aise

Avsha Tapuach

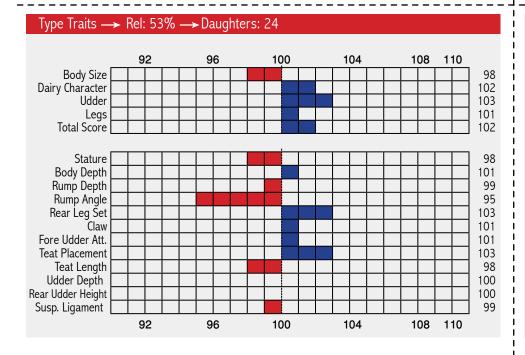
Dam: 4992

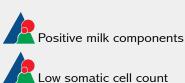
Dandan
4515

Production Tra	its Rel:86
Milk Kg	208
Fat Kg	19.5
Fat %	0.1
Protein Kg	14.8
Protein %	0.07
Daughters	82
Herds	68

Functional Traits		
Somatic Cell Count		-0.13
Sire Calving %	Stillbirth	0.4
	Calving Difficulty	1.0
Daughter Calving %	Stillbirth	0.8
	Calving Difficulty	1.8
Longevity (days)		41
Persistence %		0.6
Female Fertility %		-0.5

Average Daughter Performance (305d)		
Milk Kg	12,006	
Fat Kg	429	
Fat %	3.57	
Protein Kg	381	
Protein %	3.17	





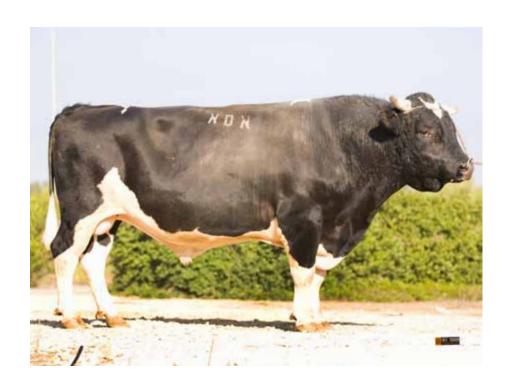
Daugh

Daughters have small body size

ASA 7085

International No. ISRM000000007085





Farm : Ashdot Yaakov

Owner : SION

Breeding Values : November 2011

Sire : Avsha

{
Bell Extra
Dekel

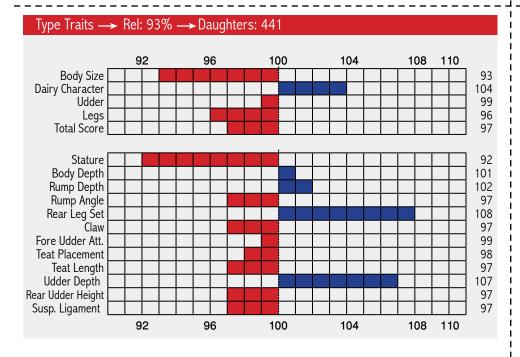
| Dam : Hamra | Scorer
Helem

Born: October 19, 2001

Production Tra	its Rel:100
Milk Kg	396
Fat Kg	12.9
Fat %	-0.01
Protein Kg	11.5
Protein %	-0.01
Daughters	4,384
Herds	636

Functional Traits		
Somatic Cell Count		0.26
Sire Calving %	Stillbirth	0.1
	Calving Difficulty	-1.7
Daughter Calving %	Stillbirth	1.2
	Calving Difficulty	2.4
Longevity (days)		78
Persistence %		4.3
Female Fertility %		1.8

Average Daughter Performance (305d)		
Milk Kg	11,995	
Fat Kg	432	
Fat %	3.6	
Protein Kg	375	
Protein %	3.13	





CONGRESS 7489

International No. ISRM00000007489





Born : September 29, 2006 Farm : Afek

Owner : SION

Breeding Values : November 2011

Sire : Canvas

Sparta Canberra

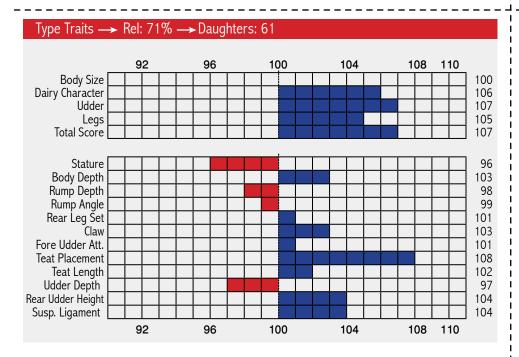
Dam: Gartel

Marseye Mandarina

Production Train	its Rel:88
Milk Kg	340
Fat Kg	28.0
Fat %	0.13
Protein Kg	12.7
Protein %	0.02
Daughters	98
Herds	72

Functional Traits		
Somatic Cell Count		-0.16
Sire Calving %	Stillbirth	0.8
	Calving Difficulty	2.7
Daughter Calving %	Stillbirth	2.4
	Calving Difficulty	3.6
Longevity (days)		1
Persistence %		1.0
Female Fertility %		-1.8

Average Daughter Performance (305d)		
Milk Kg	12,294	
Fat Kg	461	
Fat %	3.75	
Protein Kg	390	
Protein %	3.17	





conformation traits

DIGI 7334

International No. ISRM000000007334





Born: February 9, 2004

Farm: Nirim

Owner: SION

Breeding Values: November 2011

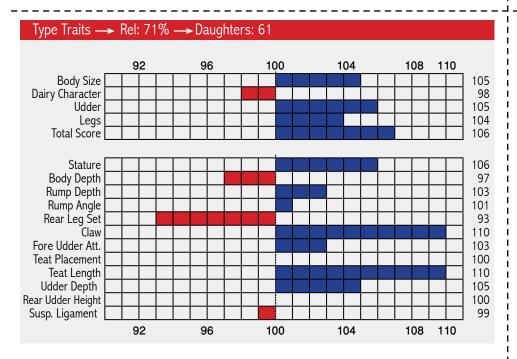
Sire: Dandan { Damsel}

Dam: Bat 500 { Patzil Bat

Production Tra	its Rel:93
Milk Kg	-61
Fat Kg	2.6
Fat %	0.04
Protein Kg	10.4
Protein %	0.11
Daughters	128
Herds	96

	-0.38
Stillbirth	1.1
Calving Difficulty	5
Stillbirth	1.1
Calving Difficulty	1.7
	155
	0.9
	2.6
	Calving Difficulty Stillbirth

Average Daughter Performance (305d)		
Milk Kg	11,651	
Fat Kg	421	
Fat %	3.61	
Protein Kg	380	
Protein %	3.26	





GUTYE 7518

International No. ISRM000000007518





Born: September 19, 2006

Farm: Sa'ad

Owner: SION

Breeding Values: November 2011

Sire: Manfred Justice Cubby Manfred Justice Horst Harry

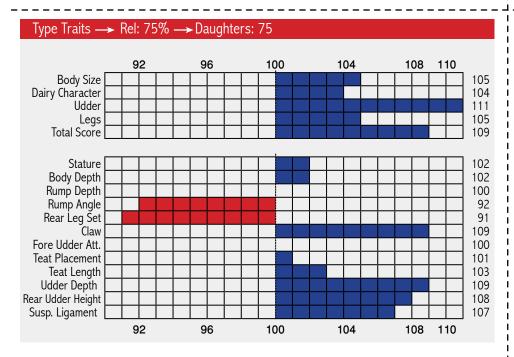
Dam: Bar Mat Horst Harry

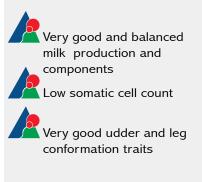
l Birzia

Production Tra	its Rel:89
Milk Kg	586
Fat Kg	27.2
Fat %	0.05
Protein Kg	23.4
Protein %	0.04
Daughters	104
Herds	78

Functional Traits		
Somatic Cell Count		-0.15
Sira Calvina %	Stillbirth	1.0
Sire Calving %	Calving Difficulty	1.6
Daughter Calving %	Stillbirth	2.4
Daughter Calving %	Calving Difficulty	2.1
Longevity (days)		61
Persistence %		-3.8
Female Fertility %		0.02

Average Daughter Performance (305d)		
Performai	nce (305d)	
Milk Kg	12,491	
Fat Kg	456	
Fat %	3.65	
Protein Kg	396	
Protein %	3.17	





International No. ISRM000000007397





Born : August 10, 2005

Farm : Shamir Eliahu

Owner : SION

Breeding Values : November 2011

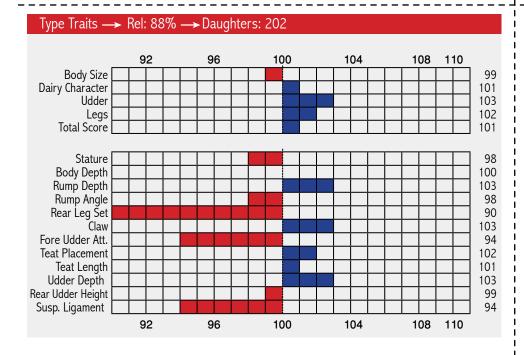
Sire : Manfred Justice Cubby Manfred Justice Soopi

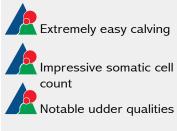
Dam: 593 $\begin{cases}
Goopi \\
Shachmitz
\end{cases}$

Production Tra	its Rel:98
Milk Kg	430
Fat Kg	10.9
Fat %	-0.04
Protein Kg	14.8
Protein %	0.01
Daughters	702
Herds	291

Functional Traits		
Somatic Cell Count		-0.23
Sira Calvina %	Stillbirth	-2.1
Sire Calving %	Calving Difficulty	-3.5
Daughter Calving %	Stillbirth	0.5
Daughter Calving %	Calving Difficulty	1.5
Longevity (days)		99
Persistence %		-0.4
Female Fertility %		3.3

Average Daughter Performance (305d)		
Milk Kg	12,137	
Fat Kg	436	
Fat %	3.59	
Protein Kg	384	
Protein %	3.16	

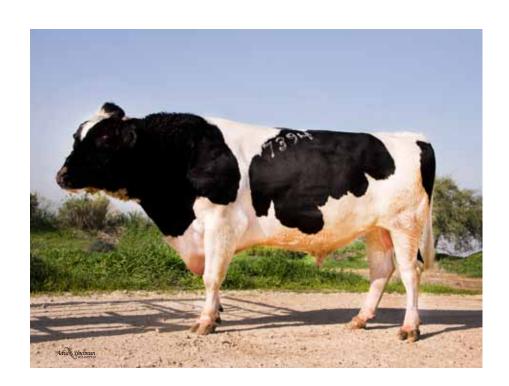




JEMBA 7394

International No. ISRM000000007394





Born: July 2, 2005

Farm: Beit Hashita

Owner: SION

Breeding Values: November 2011

Sire: Jocko
Besn

Besbe Buck
Gaya

Dam: Kohenet

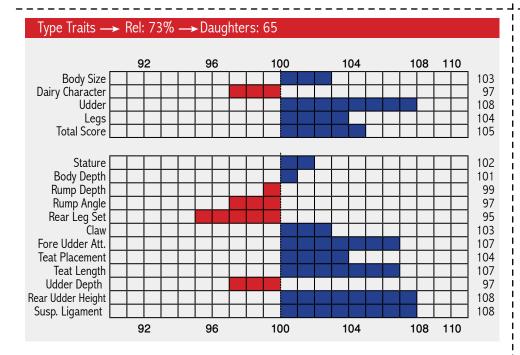
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**** 4715

Production Tra	its Rel:93
Milk Kg	430
Fat Kg	9.9
Fat %	-0.04
Protein Kg	11.7
Protein %	-0.01
Daughters	151
Herds	117

Functional Traits		
Somatic Cell Count		-0.13
Sira Calvina %	Stillbirth	-0.2
Sire Calving %	Calving Difficulty	1.3
Daughter Calving 9/	Stillbirth	1.3
Daughter Calving %	Calving Difficulty	2.4
Longevity (days)		109
Persistence %		1.1
Female Fertility %		0.4

Average Daughter Performance (305d)		
Milk Kg	12,051	
Fat Kg	428	
Fat %	3.55	
Protein Kg	375	
Protein %	3.11	





JENTILE 7395

International No. ISRM000000007395





Born: May 4, 2005

Farm: Revadim

Owner: SION

Breeding Values: November 2011

Sire: Jocko
Besn

Besne Buck
Gaya

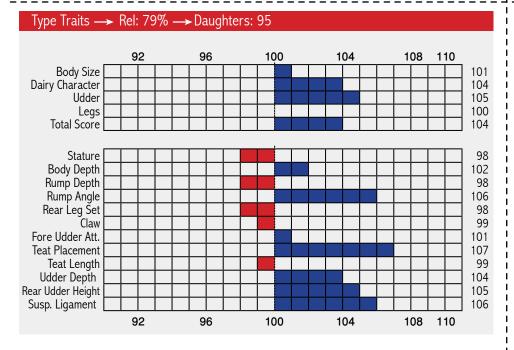
Dam: Agora

Patsil
Epon

Production Tra	its Rel:97
Milk Kg	124
Fat Kg	11.3
Fat %	0.06
Protein Kg	11.1
Protein %	0.06
Daughters	319
Herds	168

Functional Traits		
Somatic Cell Count		0.33
Sira Calvina %	Stillbirth	-0.4
Sire Calving %	Calving Difficulty	1.0
Daughter Calving %	Stillbirth	1.2
Daughter Calving %	Calving Difficulty	2.7
Longevity (days)		52
Persistence %		2.2
Female Fertility %		2.5

Average Daughter Performance (305d)		
Milk Kg	11,962	
Fat Kg	439	
Fat %	3.67	
Protein Kg	378	
Protein %	3.16	



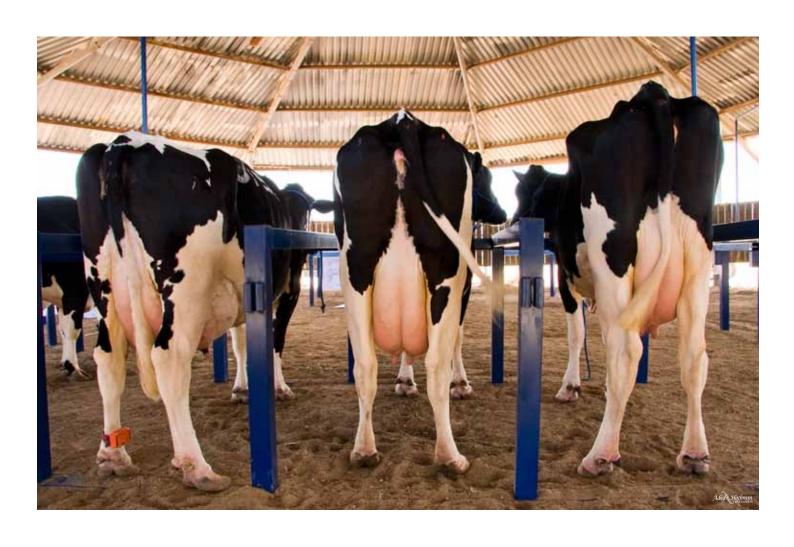




JENTILE 7395

ASFOR 7664





SEEDORF 7381



JERMIN 7396

International No. ISRM000000007396





Born : July 15, 2005 Farm : Ein Hashlosha

Owner : SION

Breeding Values: November 2011

Sire : Manfred Justice Cubby Manfred

Moach

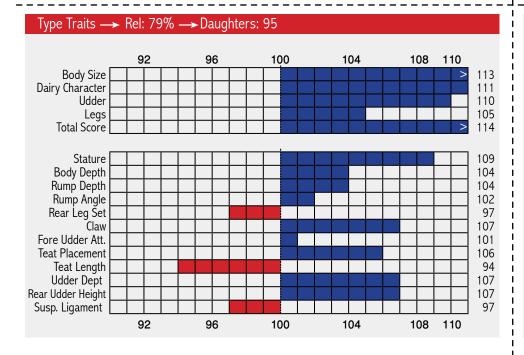
Dam : Krembo

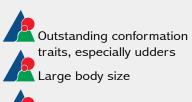
Moach Klee

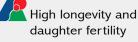
Production Tra	its Rel:95
Milk Kg	549
Fat Kg	5.8
Fat %	-0.11
Protein Kg	29.3
Protein %	0.10
Daughters	219
Herds	139

Functional Traits		
Somatic Cell Count		-0.01
Sire Calving %	Stillbirth	2.5
	Calving Difficulty	6.1
Daughter Calving %	Stillbirth	3.4
	Calving Difficulty	3.7
Longevity (days)		163
Persistence %		0.5
Female Fertility %		2.6

Average Daughter Performance (305d)		
Milk Kg	12,375	
Fat Kg	432	
Fat %	3.49	
Protein Kg	397	
Protein %	3.21	







JEROM 7425

International No. ISRM00000007425





Born: October 5, 2005

Farm: Refet Gan

Owner: SION

Breeding Values: November 2011

Sire : Manfred Justice

Cubby Manfred

**** Jezebel

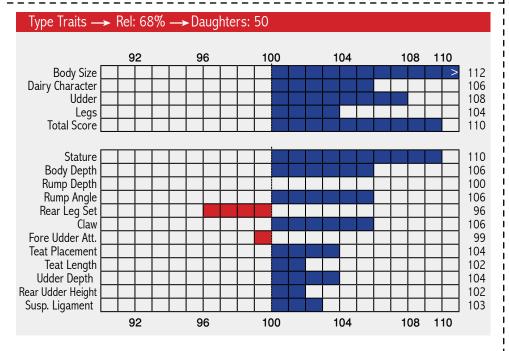
Dam : Man

{ Masbo Mania

Production Tra	its Rel:92
Milk Kg	637
Fat Kg	12.4
Fat %	-0.08
Protein Kg	20.9
Protein %	0.01
Daughters	121
Herds	91

Functional Traits		
Somatic Cell Count		-0.09
Sire Calving %	Stillbirth	2.1
	Calving Difficulty	4.6
Daughter Calving %	Stillbirth	1.2
	Calving Difficulty	2.3
Longevity (days)		98
Persistence %		0.6
Female Fertility %		2.7

Average Daughter Performance (305d)		
12,394		
434		
3.5		
387		
3.12		





High milk production



High protein (Kg and %)



Good conformation traits, especially udders

JEYJEY 7424

International No. ISRM00000007424





Born : October 5, 2005 Farm : Ramat Yochanan

Owner: SION

Breeding Values: November 2011

Sire : Manfred Justice Cubby Manfred

(Jezebei

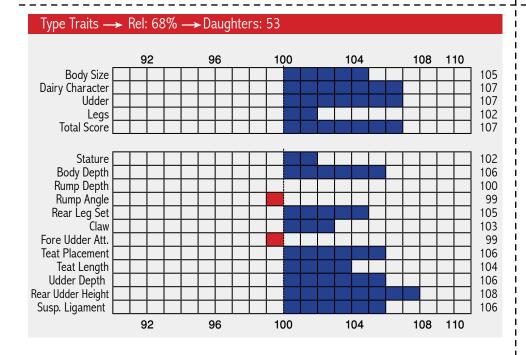
Dam : Naomi

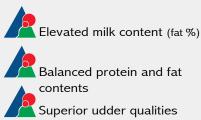
 ${ \begin{cases} \text{Jeffrey} \\ \text{Noam} \end{cases} }$

Production Tra	its Rel:90
Milk Kg	315
Fat Kg	17.2
Fat %	0.05
Protein Kg	20
Protein %	0.09
Daughters	92
Herds	73

	Functional Traits		
	Somatic Cell Count		-0.14
Cina Cabrina O	Stillbirth	0.1	
	Sire Calving %	Calving Difficulty	-0.1
	Daughter Calving %	Stillbirth	2.1
		Calving Difficulty	2.4
	Longevity (days)		100
	Persistence %		-0.2
	Female Fertility %		0.6

Average Daughter Performance (305d)		
Milk Kg	12,249	
Fat Kg	447	
Fat %	3.65	
Protein Kg	392	
Protein %	3.2	





JHEY 7400

International No. ISRM00000007400





Born: April 2, 2005

Farm: Refet Hamenorah

Owner: SION

Breeding Values: November 2011

Sire : Manfred Justice Cubby Manfred

**** Jezebel

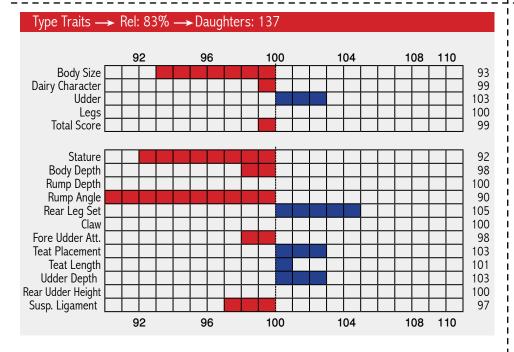
Dam : Afikim

Goopi 53813

Production Tra	its Rel:97
Milk Kg	-154
Fat Kg	15.7
Fat %	0.19
Protein Kg	12.5
Protein %	0.15
Daughters	349
Herds	198

Functional Traits		
Somatic Cell Count		-0.16
Sire Calving %	Stillbirth	-1.4
	Calving Difficulty	0.1
Daughter Calving %	Stillbirth	2.1
	Calving Difficulty	2.2
Longevity (days)		76
Persistence %		-0.8
Female Fertility %		4.4

Average Daughter Performance (305d)		
Milk Kg	11,462	
Fat Kg	434	
Fat %	3.79	
Protein Kg	376	
Protein %	3.28	





Elevated milk content

(protein and fat %)

Superior daughter fertility



Small body size with attractive udders

MARKANA 7437

International No. ISRM00000007437





Born: November 3, 2005

Farm: Mevo Horon

Owner: SION

Breeding Values: November 2011

Sire: Marseye

Marke Mascot
Teri

Dam: Ramelia

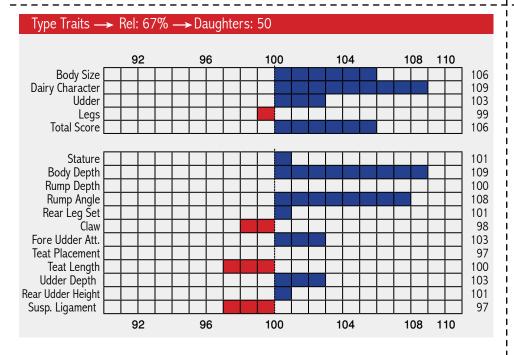
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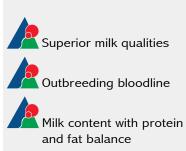
l Ramala

Production Tra	its Rel:91
Milk Kg	785
Fat Kg	17.8
Fat %	-0.08
Protein Kg	20.7
Protein %	-0.03
Daughters	107
Herds	86

Functional Traits		
Somatic Cell Count		0.07
Sire Calving %	Stillbirth	0.4
	Calving Difficulty	4.6
Daughter Calving %	Stillbirth	0.5
	Calving Difficulty	2.1
Longevity (days)		91
Persistence %		1.4
Female Fertility %		-1.5

Average Daughter Performance (305d)		
Milk Kg	12,640	
Fat Kg	437	
Fat %	3.46	
Protein Kg	388	
Protein %	3.07	





MEFAREK 7592

International No. ISRM000000007592





Born: February 16, 2007 Farm: Fudor Menachem Owner: SION

Breeding Values: November 2011

relude Mtoto Sire: Maskol LElaine 2Y

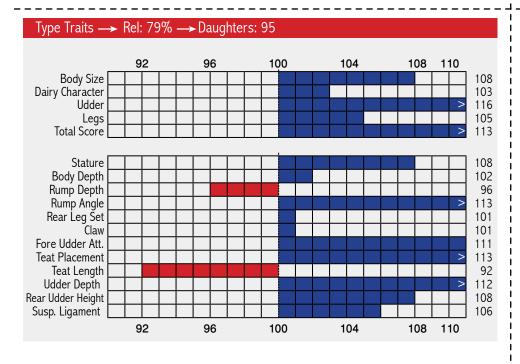
Almere Pericles Dam: 312

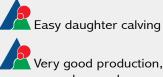
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Production Tra	its Rel:96
Milk Kg	105
Fat Kg	30.7
Fat %	0.23
Protein Kg	11.1
Protein %	0.07
Daughters	386
Herds	190

Functional Traits		
Somatic Cell Count		-0.37
Sire Calving %	Stillbirth	0.0
	Calving Difficulty	1.0
Daughter Calving %	Stillbirth	-0.4
	Calving Difficulty	0.2
Longevity (days)		114
Persistence %		-0.1
Female Fertility %		0.9

Average Daughter Performance (305d)		
Milk Kg	12,062	
Fat Kg	443	
Fat %	3.67	
Protein Kg	380	
Protein %	3.15	





Very good production, secondary and conformation traits



New bloodline

PATRUSHA 7483

International No. ISRM00000007483





Born: September 30, 2006

Farm : Sa'ad

Owner: SION

Breeding Values: November 2011

Sire: Patur Ad

Addison TL

Larissa

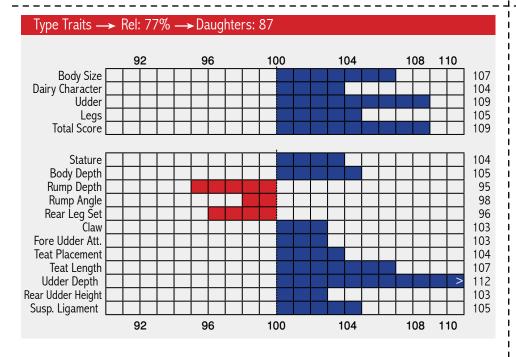
Dam : Bat Mazal

Avsha Birzia

Production Tra	its Rel:91
Milk Kg	643
Fat Kg	23.7
Fat %	0.01
Protein Kg	24.3
Protein %	0.04
Daughters	142
Herds	102

Functional Traits		
Somatic Cell Count		-0.04
Sire Calving %	Stillbirth	0.9
	Calving Difficulty	4.2
Daughter Calving %	Stillbirth	-1.0
	Calving Difficulty	-1.0
Longevity (days)		26
Persistence %		-2.2
Female Fertility %		-3.5

Average Daughter Performance (305d)		
Milk Kg	12,293	
Fat Kg	450	
Fat %	3.66	
Protein Kg	392	
Protein %	3.19	





SILVAN 7365

International No. ISRM000000007365





Born: October 23, 2003

Farm: Foder - Nir Israel

Owner: SION

Breeding Values: November 2011

Sire: Wonderboy

Lily 55276

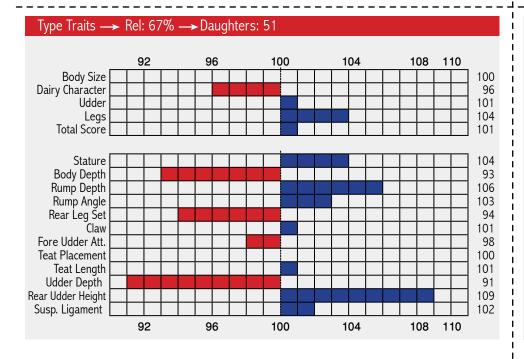
Dam: 832

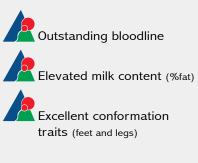
Dalia 50507

Production Tra	its Rel:91
Milk Kg	488
Fat Kg	35.3
Fat %	0.15
Protein Kg	14.4
Protein %	-0.01
Daughters	97
Herds	78

Functional Traits		
Somatic Cell Count		-0.07
Sire Calving %	Stillbirth	-0.6
	Calving Difficulty	4.0
Daughter Calving %	Stillbirth	1.8
	Calving Difficulty	2.0
Longevity (days)		16
Persistence %		2.2
Female Fertility %		-2.9

Average Daughter Performance (305d)		
Milk Kg	12,130	
Fat Kg	450	
Fat %	3.71	
Protein Kg	377	
Protein %	3.11	





STED 7279

International No. ISRM000000007279



Dam: Agata



Born: November 11, 2003

Farm: Yariv Shultfut

Owner: SION

Breeding Values: November 2011

Sire: Sufon

Scorer
4679

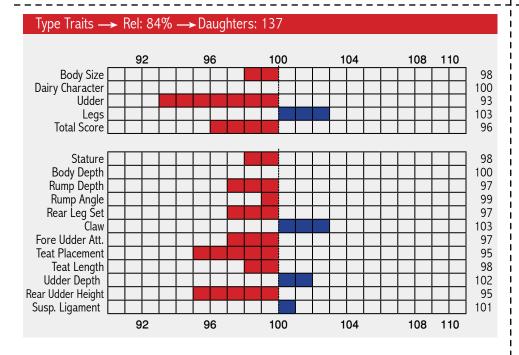
Torpedo

\ Agada

Production Tra	its Rel:97
Milk Kg	-10
Fat Kg	22.7
Fat %	0.2
Protein Kg	9.1
Protein %	0.08
Daughters	312
Herds	186

Functional Traits		
Somatic Cell Count		-0.47
Sire Calving %	Stillbirth	1.4
	Calving Difficulty	3.4
Daughter Calving %	Stillbirth	1.3
	Calving Difficulty	1.8
Longevity (days)		91
Persistence %		0.2
Female Fertility %		3.3

Average Daughter Performance (305d)		
Milk Kg	11,517	
Fat Kg	434	
Fat %	3.77	
Protein Kg	370	
Protein %	3.21	

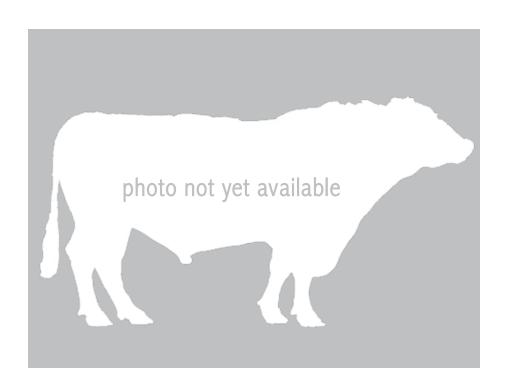




WINS 7454

International No. ISRM00000007454





Born: July 22, 2006

Farm: Netzer Sireni

Owner: SION

Breeding Values: November 2011

Sire: Win 395

Winchester ET
17214213

Dam: Reuma

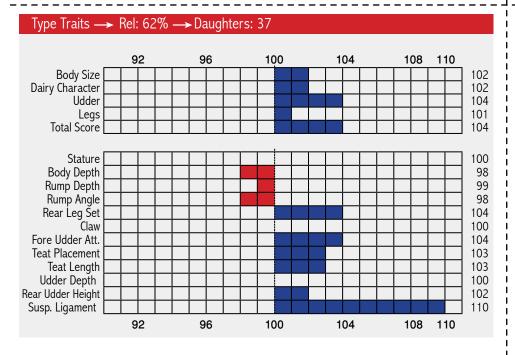
Scorer

\ Ta'ut

Production Tra	its Rel:86
Milk Kg	542
Fat Kg	11.2
Fat %	-0.07
Protein Kg	13.8
Protein %	-0.03
Daughters	81
Herds	68
пегиѕ	00

Functional Traits		
Somatic Cell Count		-0.14
Sira Calving %	Stillbirth	0.5
Sire Calving %	Calving Difficulty	1.4
Daughter Calving %	Stillbirth	-0.3
	Calving Difficulty	0.5
Longevity (days)		81
Persistence %		1.1
Female Fertility %		1.7

Average Daughter Performance (305d)		
Milk Kg	12,090	
Fat Kg	434	
Fat %	3.59	
Protein Kg	378	
Protein %	3.13	







JERMIN 7396

JHEY 7400





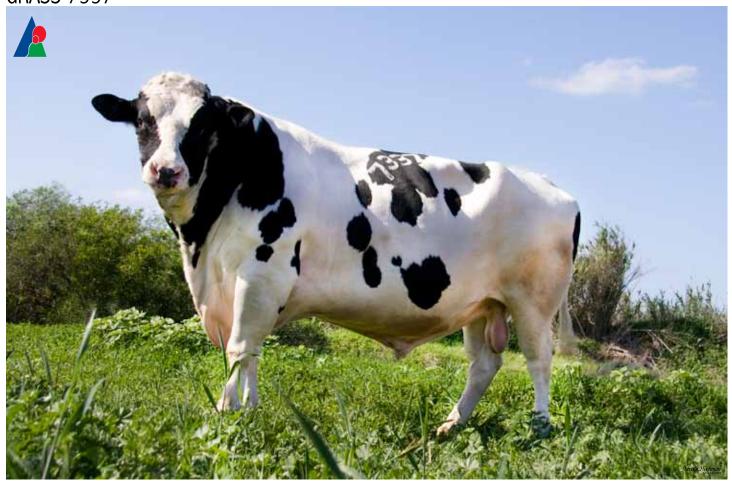
STED 7279





JEYJEY 7424

GRASS 7337



Terms and Abbreviations

The information for all bulls listed is from the Israel Cattle Breeders Association (ICBA).

TV

CV

Data ICBA November, 2011 genetic

evaluation calculated.

Fixed base = mean of daughters born in the year 2005 set to zero.

PD11 Israeli breeding index. The PD11

is the criterion for ranking bulls

and cows in Israel.

The calculation is 7.9*Kg Fat +23.7*Kg Protein+0.6*

Durability +26*Fertility -300* Somatic Cells +10* Persistance -9*

Bull daughter calving index.

Reliability (REL) An indication of the degree of

> accuracy of the proof. A higher REL indicates better reliability of

the proof.

Somatic Cell Count Is highly correlated with mastitis (SCC)

Minus indicates higher resistance

to mastitis and is favorable.

Fertility Scored as the inverse of the

> number of inseminations to conception, recorded in parities

> 1-5. Each cow that is not reinseminated is vet checked for pregnancy. Plus is favorable.

Durability Measured in days from first

> calving to culling. Durability is predicted for cows that are still milking. The mean is 1,150 days.

Plus is favorable.

Persistency Measured as the ratio of milk

> yield 220-240 days post partum to peak yield (40 to 60

days post partum,

depending on parity). Higher

percentage is favorable.

Calving difficulty Expressed as percentage of

incidence of dystocia. Negative

values are favorable.

Bull daughters The sum of percent dystocia calving index

and still births. Less than 1.5% is appropriate for heifers. Negative values are favorable.

Conformation Four quality traits and 12 linear

> traits are scored. The mean is 100 and standard deviation is 6 for all traits. Positive values are

favorable.

Tested as free of CVM (Cervical

Vertebral Malformation).

Bulls checked and found to be

CVM carriers.

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