Israeli Holstein Bulls Catalogue 2015

ISRAELI COMPANY FOR ARTIFICIAL INSEMINATION & BREEDING LTD

ISRAEL

SION

ISRAELI COMPANY FOR ARTIFICIAL INSEMINATION & BREEDING LTD

SION AI & BREEDING COMPANY

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SION

ISRAELI COMPANY FOR ARTIFICIAL INSEMINATION & BREEDING LTD

SION, Israel's leading company for artificial insemination and breeding of dairy cows, is proud to present the new 2015 bulls' catalogue.

We hope that the professional data presented, including bulls' characteristics and production traits, will help you promote your breeding program and improve your production results.

It is known that the Israeli cow has the highest average milk and milk solids production in the world, despite the fact that we have sub-optimal conditions. This outstanding success is the result of our genetic program and quality of bulls.

Besides from providing 95% of all inseminations in Israel, SION has been providing Bulls' semen to countries in Far East Asia, Central Asia and Africa.

The results in these countries are extremely high, similar to the success we see in Israel, both in increasing of milk production and improvement of genetic qualities.

We will be happy to see you too, as one of our satisfied customers and are ready to provide you with all additional information regarding genetics and production.

Please visit our website www.sion-israel.com

Sincerely yours,

Alon Inbar, CEO

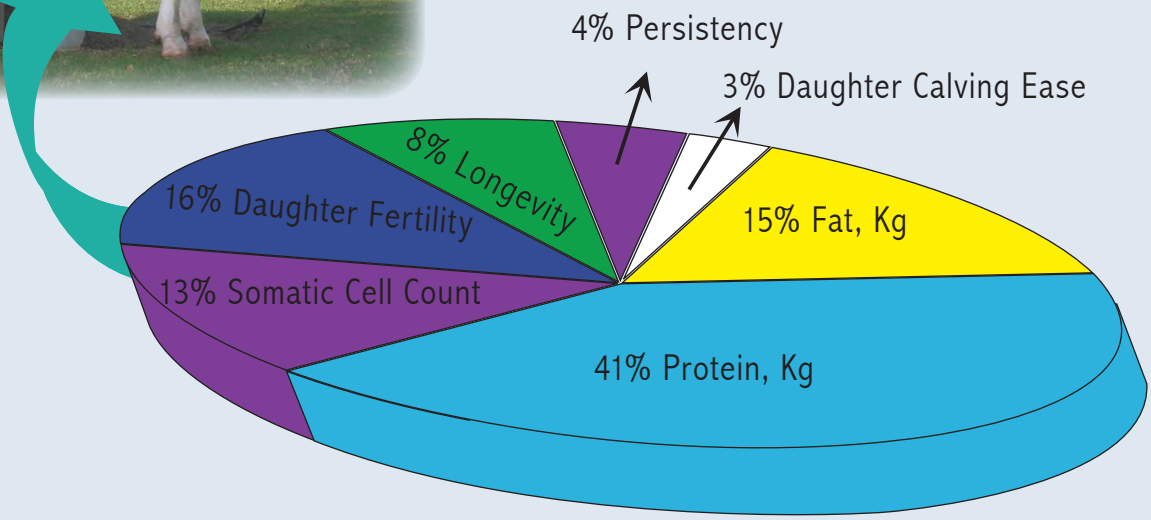
SION Israeli Company for AI & Breeding Ltd

SION

Israeli Artificial Insemination & Breeding Company

- SION is Israel's leading company for AI techniques, with decades of practical experience.
- 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 & The Israel Cattle Breeders Association (ICBA) supply essential assistance to all Israeli dairy farms.
- SION, ICBA and dairy farmers are all connected to a data intensive computing system.
- All data are subjectively tested, so that the dairy farmers and other end-users receive accurate and reliable information.
- Production level in the Israeli dairy farms is extremely high, despite our hot climate. This is the result of our breeding indexes along with good management.
- Inbreeding management (less than 3.1%) is done by our professional AI technicians, for every insemination.

The Israeli Breeding Index – PD11



AISE 7053

International No. ISRM000000007053

PD 11
518

Sire : Avsha
Sire Dam : Sidon

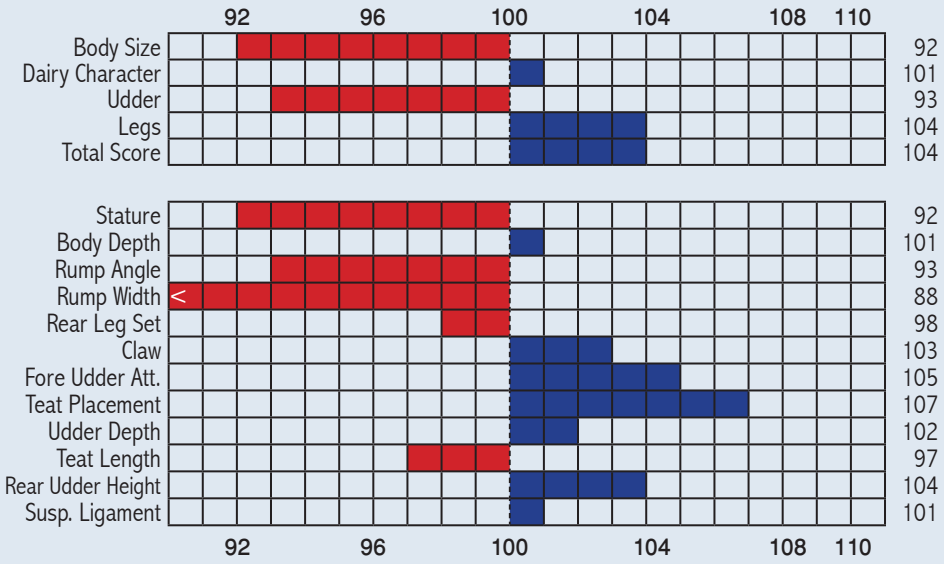
Born : 24.06.2001
Farm : Yad Hail Yad Mordechai
Owner : SION
Daughters: 8,703
Herds: 708
Breeding value: November 2014

Production Traits Rel: 100%	
Milk Kg	476
Fat Kg	19.4
Fat %	0.02%
Protein Kg	13.2
Protein %	-0.01%

Functional Traits		
Somatic Cell Count		-0.12
Sire Calving %	Calving Difficulty	3.5
	Calf Mortality	1.3
Daughter Calving %	Calving Difficulty	6.2
	Calf Mortality	2.8
Longevity (days)		114
Persistence %		1
Daughter Fertility %		-1.1

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,053
Fat %	3.60%
Protein %	3.07%

Type Traits → Rel: 97% → Daughters: 1215



ASA 7085

International No. ISRM000000007085

PD 11
414

Sire : Avsha

Sire Dam : Scorer

Born : 19.10.2001

Farm : Ashdot Yaacov Ichud

Owner : SION

Daughters: 7,596

Herds: 708

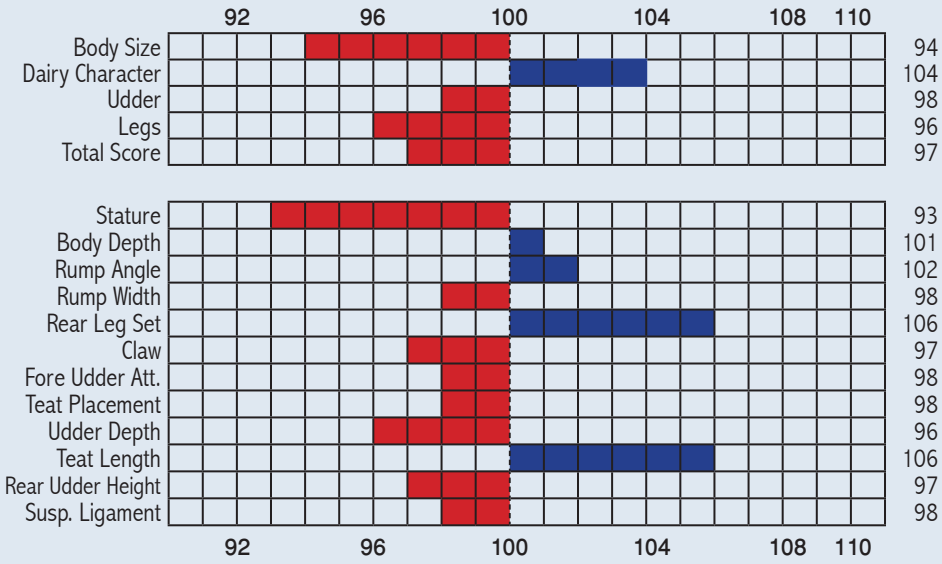
Breeding value: November 2014

Production Traits	Rel: 100%
Milk Kg	457
Fat Kg	14.3
Fat %	-0.02%
Protein Kg	13.1
Protein %	-0.01%

Functional Traits		
Somatic Cell Count		0.26
Sire Calving %	Calving Difficulty	-1.6
	Calf Mortality	0.2
Daughter Calving %	Calving Difficulty	4.6
	Calf Mortality	1.2
Longevity (days)		45
Persistence %		4
Daughter Fertility %		0.9

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,296
Fat %	3.62
Protein %	3.11

Type Traits → Rel: 96% → Daughters: 968



BUFON 7510

International No. ISRM000000007510

PD 11
899

Sire : Badon
Sire Dam : Sufon

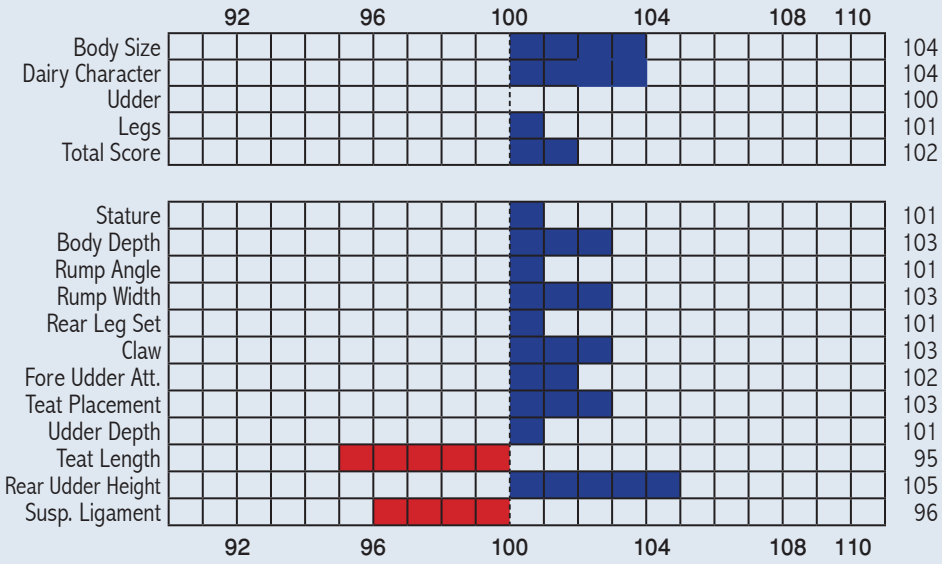
Born : 14.04.2007
Farm : Chaklaut Geva
Owner : SION
Daughters: 108
Herds: 76
Breeding value: November 2014

Production Traits Rel: 92%	
Milk Kg	532
Fat Kg	40.7
Fat %	0.18%
Protein Kg	19.5
Protein %	0.02%

Functional Traits		
Somatic Cell Count		-0.07
Sire Calving %	Calving Difficulty	4.5
	Calf Mortality	0.7
Daughter Calving %	Calving Difficulty	5.6
	Calf Mortality	0.5
Longevity (days)		80
Persistence %		1.7
Daughter Fertility %		0.7

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,338
Fat %	3.81
Protein %	3.16

Type Traits → Rel: 71% → Daughters: 55



CUGEL 7658

International No. ISRM000000007658

PD 11
416

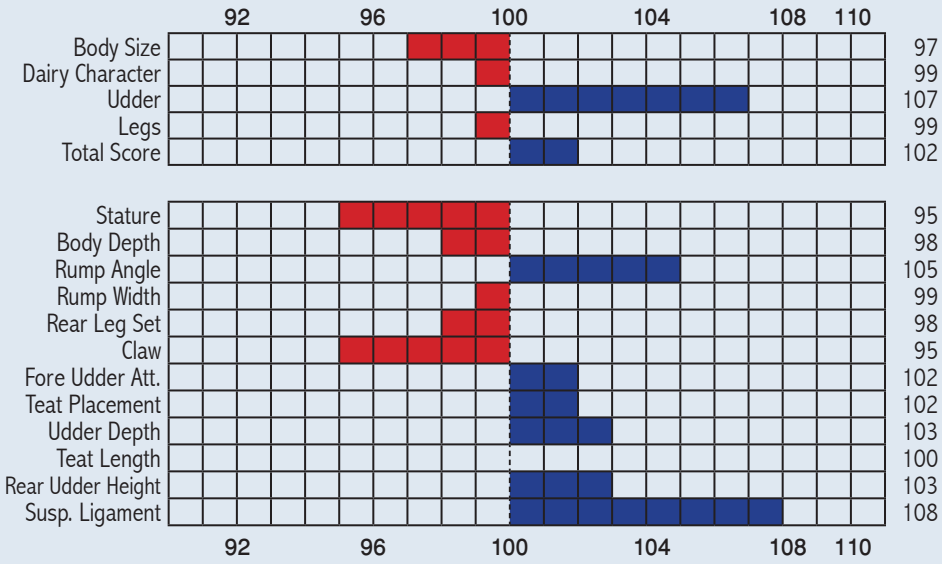
Sire : Krak	
Sire Dam : Ragil	
Born : 27.09.2008	
Farm : Refet Hanegev	
Owner : SION	
Daughters: 271	
Herds: 160	
Breeding value: November 2014	

Production Traits Rel: 96%	
Milk Kg	431
Fat Kg	8.6
Fat %	-0.06%
Protein Kg	7.8
Protein %	-0.05%

Functional Traits		
Somatic Cell Count		-0.17
Sire Calving %	Calving Difficulty	2.0
	Calf Mortality	0.6
Daughter Calving %	Calving Difficulty	4.9
	Calf Mortality	2.3
Longevity (days)		90
Persistence %		1.5
Daughter Fertility %		3.9

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,237
Fat %	3.57
Protein %	3.06

Type Traits → Rel: 80% → Daughters: 102



HODEL 7343

International No. ISRM000000007343

PD 11
629

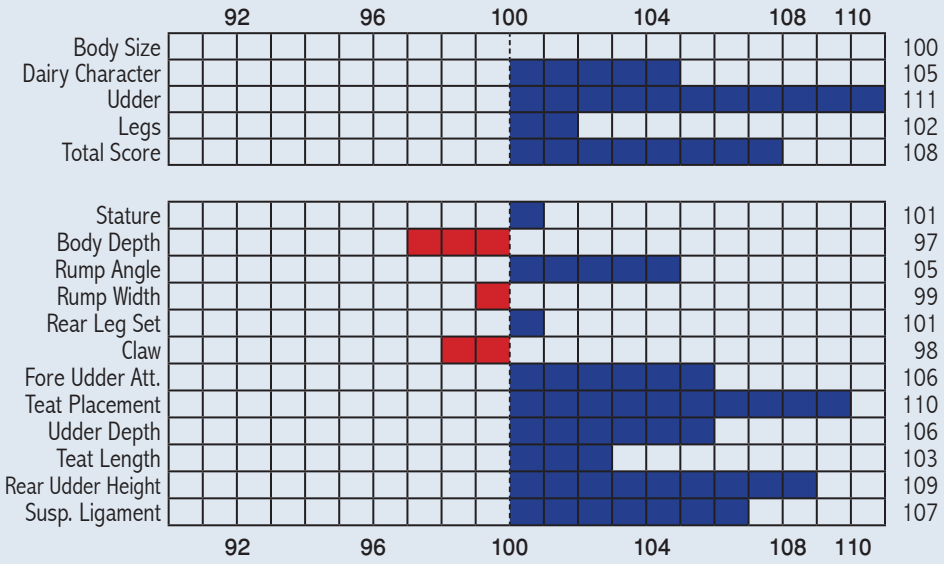
Sire : Harry	
Sire Dam : Dalia	
Born : 23.09.2004	
Farm : Ein Tzurim	
Owner : SION	
Daughters: 3402	
Herds: 589	
Breeding value: November 2014	

Production Traits Rel: 100%	
Milk Kg	774
Fat Kg	3.1
Fat %	-0.20%
Protein Kg	29
Protein %	0.04%

Functional Traits		
Somatic Cell Count		0.12
Sire Calving %	Calving Difficulty	-0.2
	Calf Mortality	0
Daughter Calving %	Calving Difficulty	4
	Calf Mortality	2.3
Longevity (days)		99
Persistence %		-0.8
Daughter Fertility %		-2.8

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,600
Fat %	3.40%
Protein %	3.14%

Type Traits → Rel: 93% → Daughters: 404



JAKI 7397

International No. ISRM000000007397

PD 11
784

Sire : Justice

Sire Dam : Goopi

Born : 10.08.2005

Farm : Shamir Eliyahu

Owner : SION

Daughters: 5,656

Herds: 636

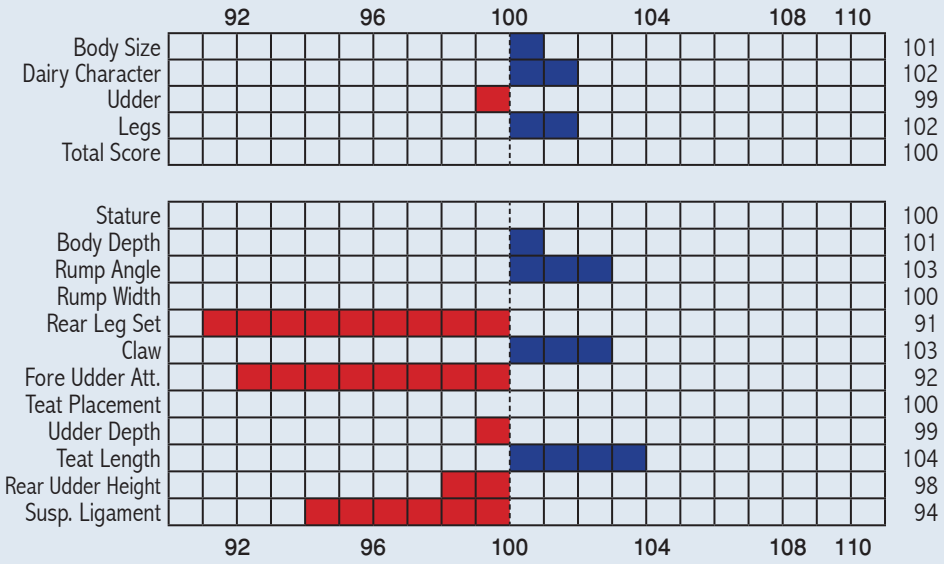
Breeding value: November 2014

Production Traits Rel: 100%	
Milk Kg	563
Fat Kg	11.8
Fat %	-0.07%
Protein Kg	19.6
Protein %	0.02%

Functional Traits		
Somatic Cell Count		-0.12
Sire Calving %	Calving Difficulty	-3.8
	Calf Mortality	-2.2
Daughter Calving %	Calving Difficulty	0.9
	Calf Mortality	1.1
Longevity (days)		127
Persistence %		-1.2
Daughter Fertility %		5.3

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,458
Fat %	3.52%
Protein %	3.13%

Type Traits → Rel: 94% → Daughters: 446



JEMBA 7394

International No. ISRM000000007394

PD 11
504

Sire : Joko

Sire Dam : Got

Born : 02.07.2005

Farm : Bet Hashita

Owner : SION

Daughters: 1,204

Herds: 387

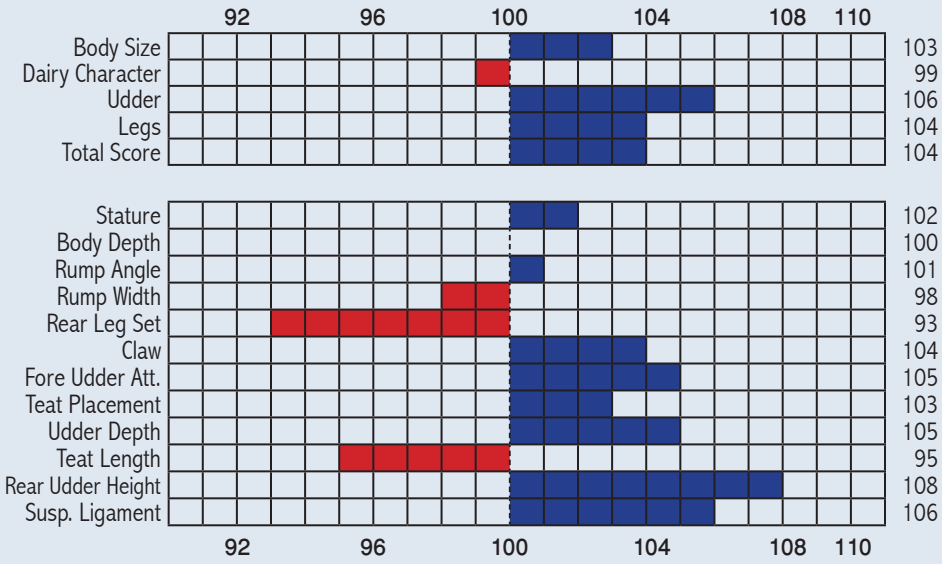
Breeding value: November 2014

Production Traits Rel: 99%	
Milk Kg	506
Fat Kg	7.5
Fat %	-0.09%
Protein Kg	12.7
Protein %	-0.03%

Functional Traits		
Somatic Cell Count		-0.2
Sire Calving %	Calving Difficulty	0.9
	Calf Mortality	0.1
Daughter Calving %	Calving Difficulty	3.4
	Calf Mortality	1.6
Longevity (days)		112
Persistence %		0.9
Daughter Fertility %		1.0

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,374
Fat %	3.50
Protein %	3.09

Type Traits → Rel: 86% → Daughters: 171



JHONSON 7398

International No. ISRM000000007398

PD 11
406

Sire : Justice

Sire Dam : Sidon

Born : 22.06.2005

Farm : Megido

Owner : SION

Daughters: 1,416

Herds: 434

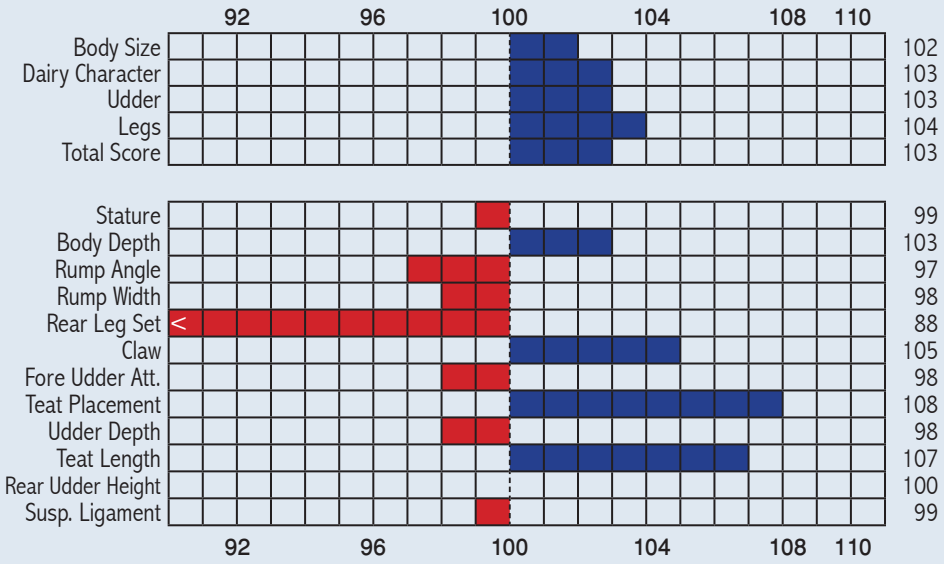
Breeding value: November 2014

Production Traits Rel: 99%	
Milk Kg	434
Fat Kg	-1.1
Fat %	-0.14%
Protein Kg	13.9
Protein %	0.00%

Functional Traits		
Somatic Cell Count		-0.19
Sire Calving %	Calving Difficulty	-0.4
	Calf Mortality	0.9
Daughter Calving %	Calving Difficulty	1
	Calf Mortality	0.3
Longevity (days)		15
Persistence %		3.4
Daughter Fertility %		-0.4

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,439
Fat %	3.42%
Protein %	3.11%

Type Traits → Rel: 87% → Daughters: 193



JORDAN 7368

International No. ISRM000000007368

PD 11
570

Sire : Justice

Sire Dam : Supreme

Born : 17.01.2005

Farm : Beeri

Owner : SION

Daughters: 3,801

Herds: 592

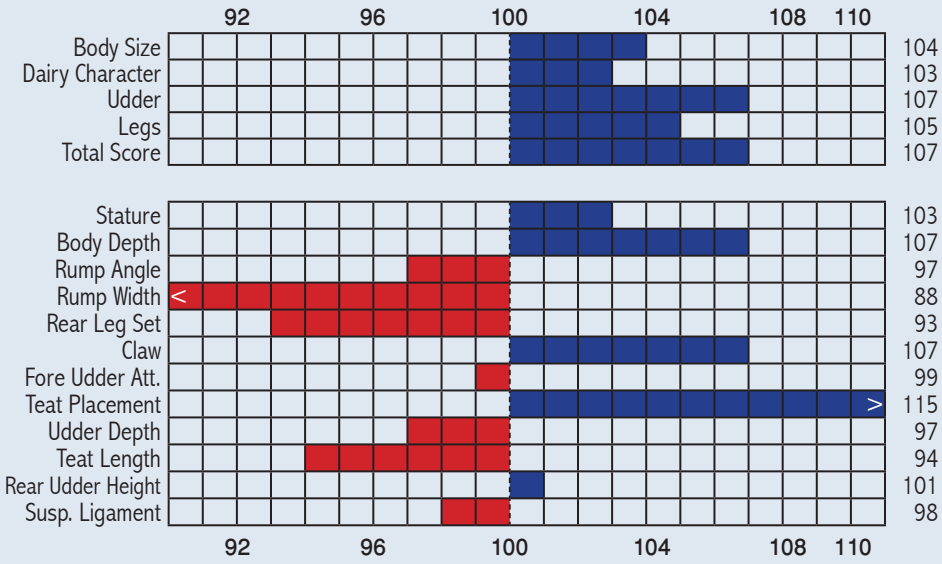
Breeding value: November 2014

Production Traits Rel: 100%	
Milk Kg	662
Fat Kg	20
Fat %	-0.03%
Protein Kg	15.1
Protein %	-0.04%

Functional Traits		
Somatic Cell Count		-0.08
Sire Calving %	Calving Difficulty	2.4
	Calf Mortality	1.6
Daughter Calving %	Calving Difficulty	4.1
	Calf Mortality	3.1
Longevity (days)		69
Persistence %		1.5
Daughter Fertility %		0.2

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,687
Fat %	3.54%
Protein %	3.06%

Type Traits → Rel: 92% → Daughters: 324



KARS 7477 (Red Factor)

International No. ISRM000000007477

PD 11
369

Sire : Canvas

Sire Dam : Sidon

Born : 02.10.2006

Farm : Nir Galim

Owner : SION

Daughters: 96

Herds: 80

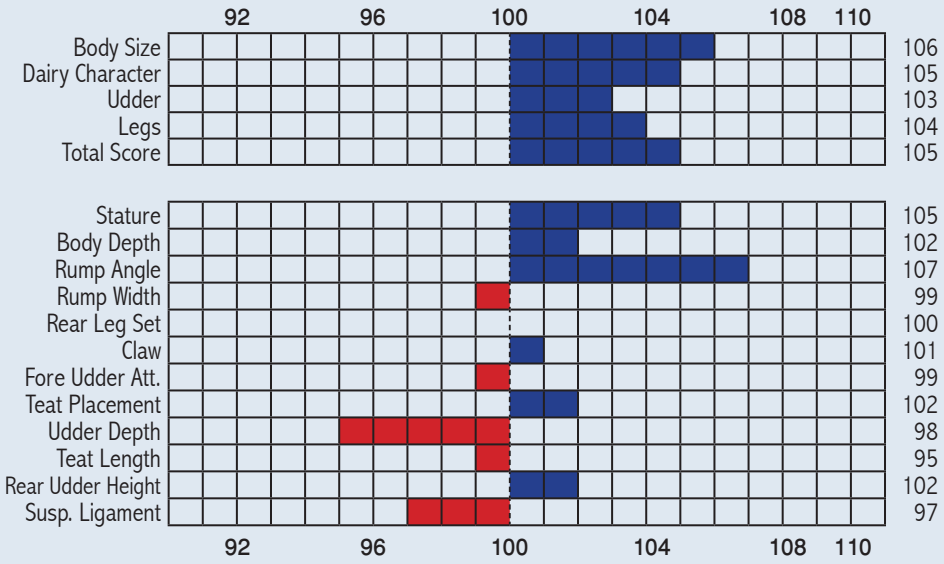
Breeding value: November 2014

Production Traits	Rel: 91%
Milk Kg	568
Fat Kg	-3.6
Fat %	-0.20%
Protein Kg	19.6
Protein %	0.02%

Functional Traits		
Somatic Cell Count		0.08
Sire Calving %	Calving Difficulty	1.7
	Calf Mortality	0.1
Daughter Calving %	Calving Difficulty	5.6
	Calf Mortality	0.4
Longevity (days)		15
Persistence %		2.5
Daughter Fertility %		-2.2

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,571
Fat %	3.42%
Protein %	3.14%

Type Traits → Rel: 67% → Daughters: 52



KONGRES 7489 (Red Factor)

International No. ISRM000000007489

PD 11
367

Sire : Canvas

Sire Dam : Marseye

Born : 29.09.2006

Farm : Afek

Owner : SION

Daughters: 190

Herds: 126

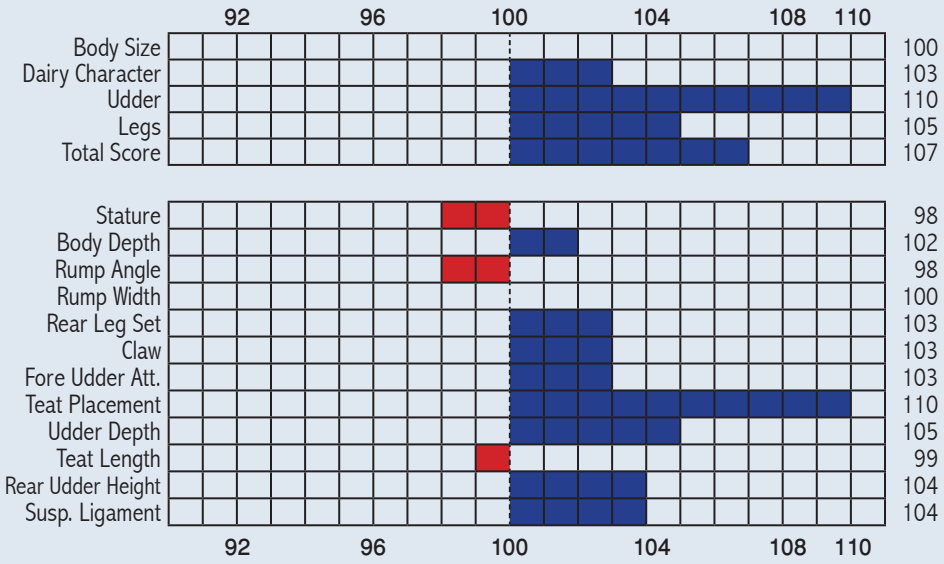
Breeding value: November 2014

Production Traits Rel: 94%	
Milk Kg	250
Fat Kg	23.6
Fat %	0.12%
Protein Kg	11.5
Protein %	0.03%

Functional Traits		
Somatic Cell Count		-0.09
Sire Calving %	Calving Difficulty	0.5
	Calf Mortality	0.3
Daughter Calving %	Calving Difficulty	4.5
	Calf Mortality	3.4
Longevity (days)		-58
Persistence %		1.1
Daughter Fertility %		-2.3

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,408
Fat %	3.68%
Protein %	3.13%

Type Traits → Rel: 79% → Daughters: 98



KWARTS 7656

International No. ISRM000000007656

PD 11
537

Sire : Store

Sire Dam : Torpedo

Born : 28.01.2009

Farm : Refet Zvulun

Owner : SION

Daughters: 363

Herds: 196

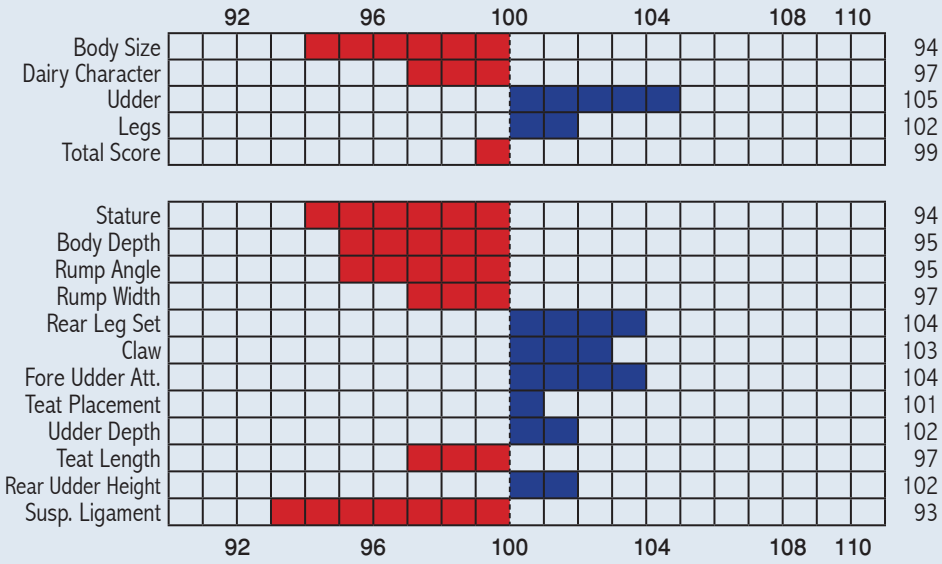
Breeding value: November 2014

Production Traits Rel: 96%	
Milk Kg	349
Fat Kg	4.5
Fat %	-0.07%
Protein Kg	13.4
Protein %	0.02%

Functional Traits		
Somatic Cell Count		-0.31
Sire Calving %	Calving Difficulty	1.2
	Calf Mortality	-0.3
Daughter Calving %	Calving Difficulty	1.3
	Calf Mortality	0.4
Longevity (days)		32
Persistence %		0.6
Daughter Fertility %		2.8

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,219
Fat %	3.45%
Protein %	3.12%

Type Traits → Rel: 82% → Daughters: 115



MASLUR 7475

International No. ISRM000000007475

PD 11
441

Sire : Mascol

Sire Dam : Boiler

Born : 14.10.2006

Farm : Mesilot

Owner : SION

Daughters: 375

Herds: 188

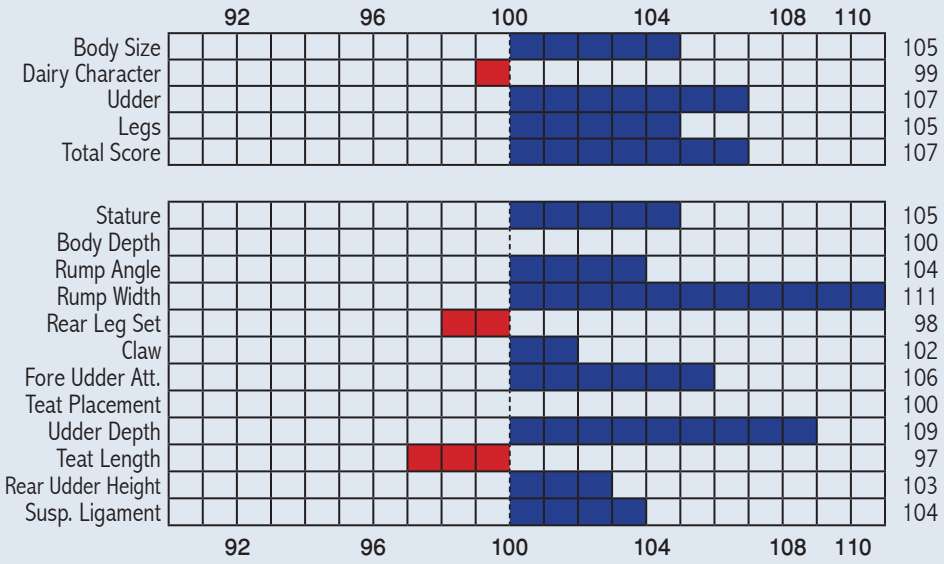
Breeding value: November 2014

Production Traits Rel: 98%	
Milk Kg	231
Fat Kg	17
Fat %	0.07%
Protein Kg	9.4
Protein %	0.02%

Functional Traits		
Somatic Cell Count		-0.06
Sire Calving %	Calving Difficulty	1.7
	Calf Mortality	0.9
Daughter Calving %	Calving Difficulty	4
	Calf Mortality	2.8
Longevity (days)		131
Persistence %		-1.6
Daughter Fertility %		1.3

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,000
Fat %	3.70%
Protein %	3.15%

Type Traits → Rel: 83% → Daughters: 141



MISHAK 7589

International No. ISRM000000007589

PD 11
198

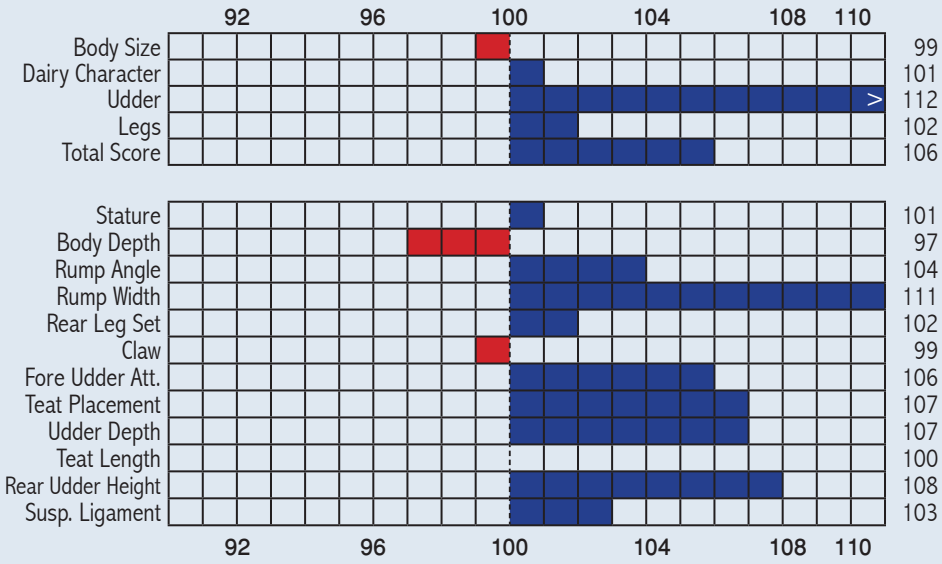
Sire : Mascol
Sire Dam : Dalia
Born : 21.12.2007
Farm : Maoz Haim
Owner : SION
Daughters: 241
Herds: 143
Breeding value: November 2014

Production Traits Rel: 95%	
Milk Kg	125
Fat Kg	12
Fat %	0.06%
Protein Kg	12
Protein %	0.06%

Functional Traits		
Somatic Cell Count		0.24
Sire Calving %	Calving Difficulty	-2.3
	Calf Mortality	-1.8
Daughter Calving %	Calving Difficulty	-0.4
	Calf Mortality	-1.4
Longevity (days)		46
Persistence %		-1.3
Daughter Fertility %		0.6

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,250
Fat %	3.64%
Protein %	3.12%

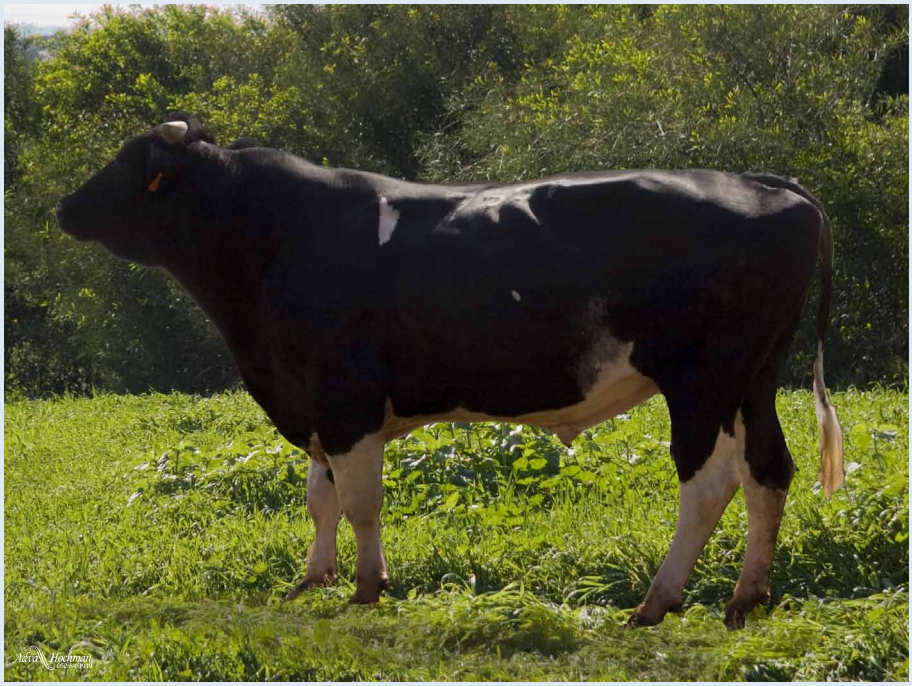
Type Traits → Rel: 80% → Daughters: 101



MITERAN 7557

International No. ISRM000000007557

PD 11
702



Sire : Mascol
Sire Dam : Trent

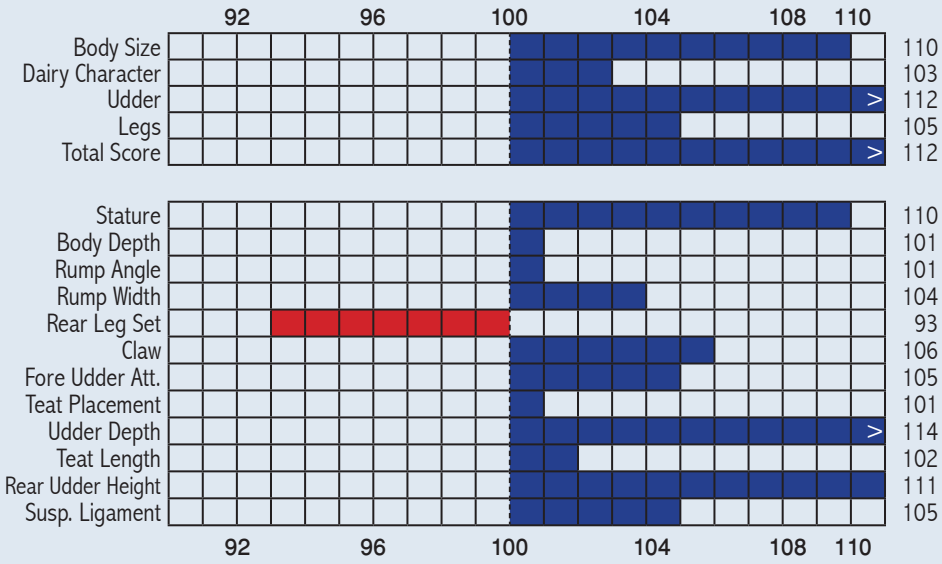
Born : 17.08.2007
Farm : Sa'ad
Owner : SION
Daughters: 226
Herds: 152
Breeding value: November 2014

Production Traits Rel: 96%	
Milk Kg	750
Fat Kg	20.5
Fat %	-0.05%
Protein Kg	24.8
Protein %	0.01%

Functional Traits		
Somatic Cell Count		0.02
Sire Calving %	Calving Difficulty	4.1
	Calf Mortality	1.2
Daughter Calving %	Calving Difficulty	3.1
	Calf Mortality	0.8
Longevity (days)		38
Persistence %		-0.9
Daughter Fertility %		-1.6

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,528
Fat %	3.55%
Protein %	3.14%

Type Traits → Rel: 77% → Daughters: 85



MUKIR 7525

International No. ISRM000000007525

PD 11
576

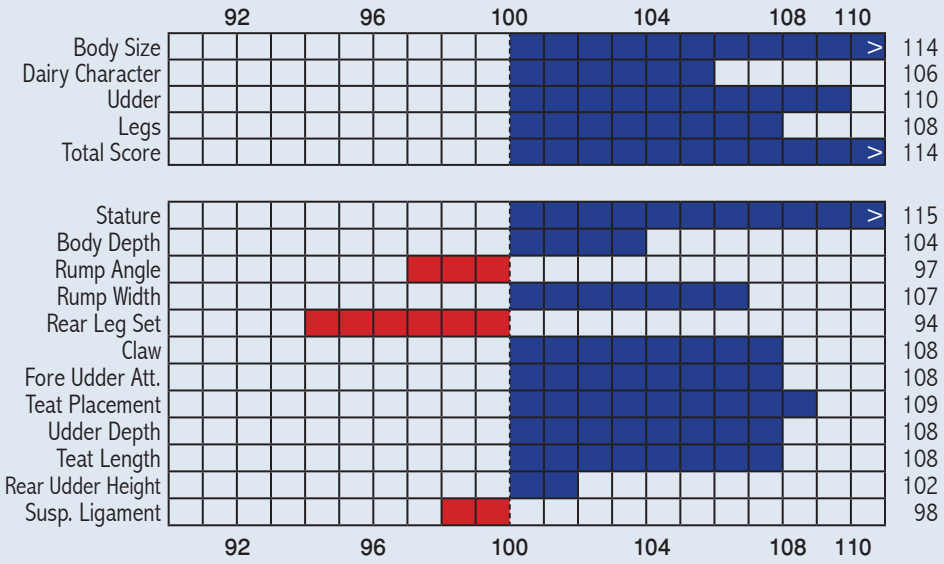
Sire : Marion	
Sire Dam : Scorer	
Born : 11.12.2006	
Farm : Gan Shmuel	
Owner : SION	
Daughters: 106	
Herds: 79	
Breeding value: November 2014	

Production Traits	Rel: 92%
Milk Kg	932
Fat Kg	16.5
Fat %	-0.13 %
Protein Kg	19.6
Protein %	-0.07%

Functional Traits		
Somatic Cell Count		0.05
Sire Calving %	Calving Difficulty	5.1
	Calf Mortality	1.5
Daughter Calving %	Calving Difficulty	2.7
	Calf Mortality	-1.2
Longevity (days)		58
Persistence %		0.9
Daughter Fertility %		-1.8

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,457
Fat %	3.49%
Protein %	3.08%

Type Traits → Rel: 69% → Daughters: 50



SAGIV 7577

International No. ISRM000000007577

PD 11
422

Sire : Shottle
Sire Dam : Gover

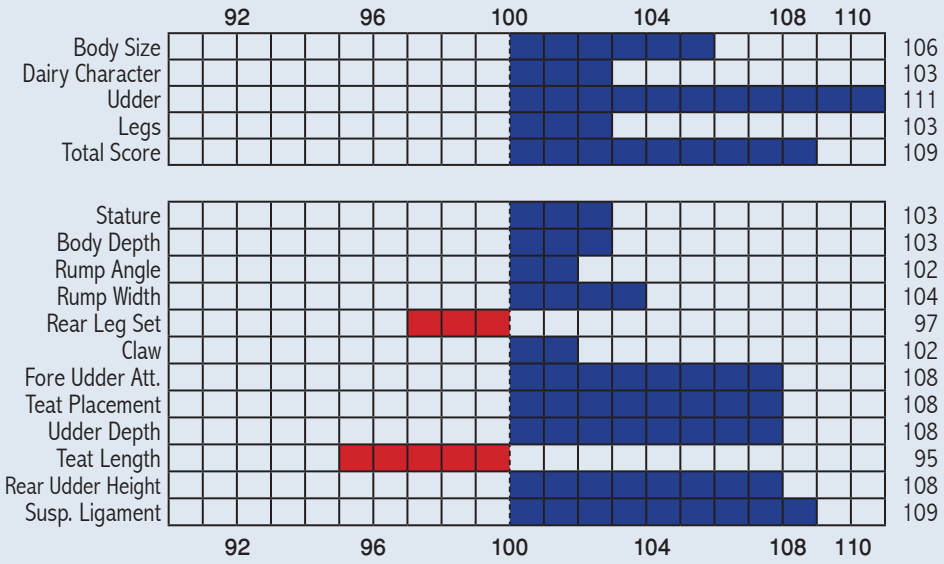
Born : 10.09.2007
Farm : Alonei Abba
Owner : SION
Daughters: 115
Herds: 89
Breeding value: November 2014

Production Traits Rel: 92%	
Milk Kg	504
Fat Kg	18.7
Fat %	0.01%
Protein Kg	18.7
Protein %	0.01%

Functional Traits		
Somatic Cell Count		-0.16
Sire Calving %	Calving Difficulty	3
	Calf Mortality	0.8
Daughter Calving %	Calving Difficulty	4.8
	Calf Mortality	0.7
Longevity (days)		10
Persistence %		-2.7
Daughter Fertility %		-3.3

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,435
Fat %	3.60%
Protein %	3.11%

Type Traits → Rel: 66% → Daughters: 45



SARI 7596

International No. ISRM000000007596

PD 11
573

Sire : Sadash
Sire Dam : Harry

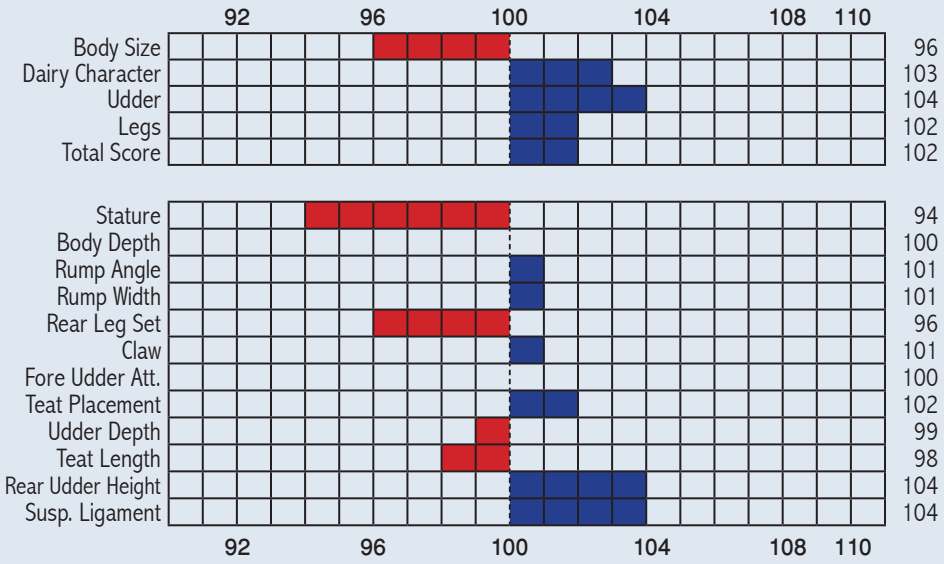
Born : 22.02.2008
Farm : Ein Tzurim
Owner : SION
Daughters: 99
Herds: 79
Breeding value: November 2014

Production Traits Rel: 90%	
Milk Kg	740
Fat Kg	22.6
Fat %	-0.03%
Protein Kg	24.3
Protein %	0.01%

Functional Traits		
Somatic Cell Count		0.27
Sire Calving %	Calving Difficulty	7.5
	Calf Mortality	-0.1
Daughter Calving %	Calving Difficulty	5.9
	Calf Mortality	1.1
Longevity (days)		109
Persistence %		1.2
Daughter Fertility %		-5.9

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,517
Fat %	3.58%
Protein %	3.11%

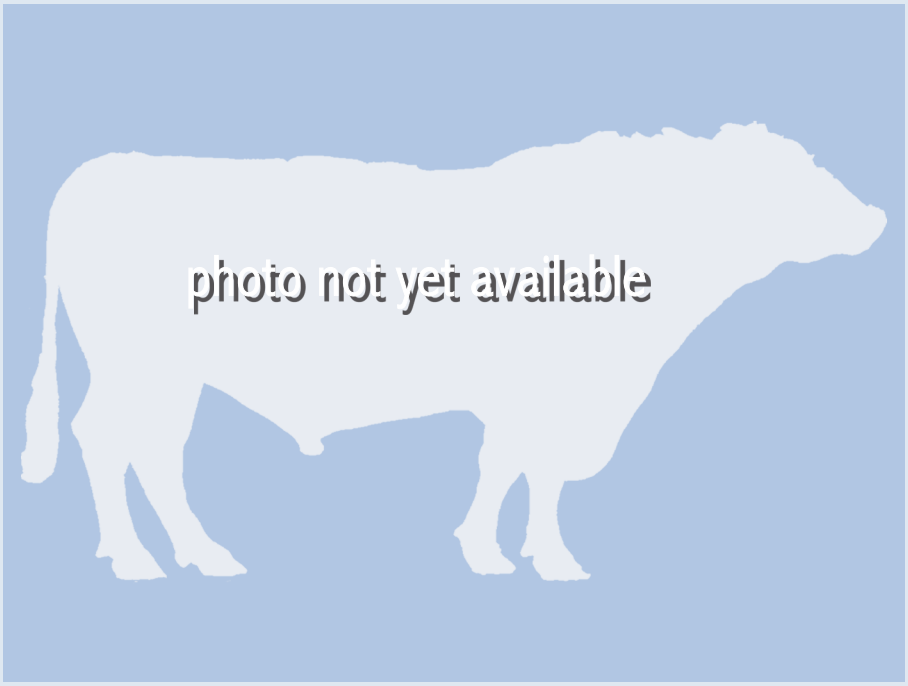
Type Traits → Rel: 68% → Daughters: 46



SHARAV 7602

International No. ISRM000000007602

PD 11
418



Sire : Sharky
Sire Dam : Avsha

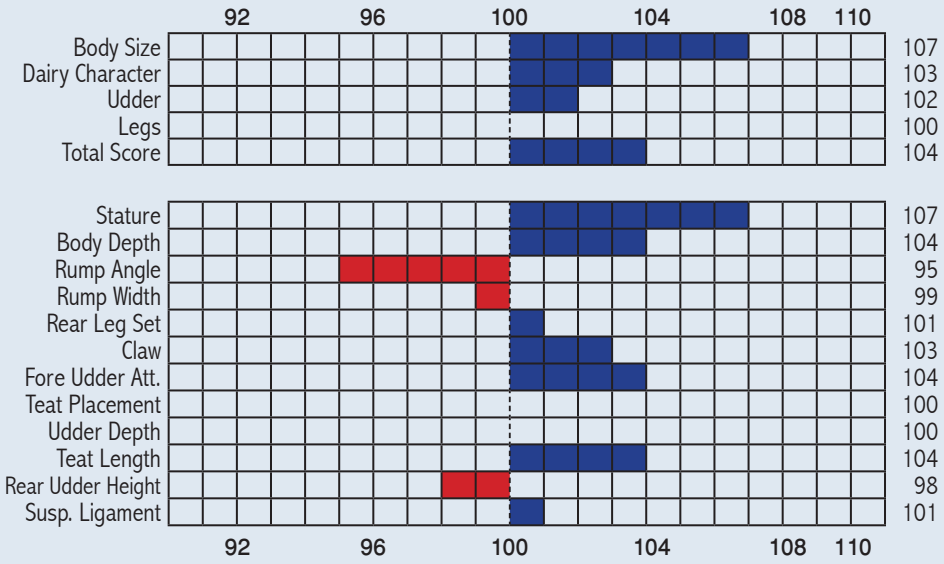
Born : 15.10.2007
Farm : Refet Hot Hasharon
Owner : SION
Daughters: 94
Herds: 76
Breeding value: November 2014

Production Traits Rel: 91%	
Milk Kg	669
Fat Kg	18.6
Fat %	-0.04%
Protein Kg	19.6
Protein %	-0.01%

Functional Traits		
Somatic Cell Count		0.13
Sire Calving %	Calving Difficulty	5.3
	Calf Mortality	0.3
Daughter Calving %	Calving Difficulty	4.2
	Calf Mortality	1.3
Longevity (days)		6
Persistence %		-1.8
Daughter Fertility %		-4.6

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,527
Fat %	3.59%
Protein %	3.12%

Type Traits → Rel: 56% → Daughters: 30



SILVAN 7365

International No. ISRM000000007365

PD 11
479

Sire : Boy
Sire Dam : Dalia

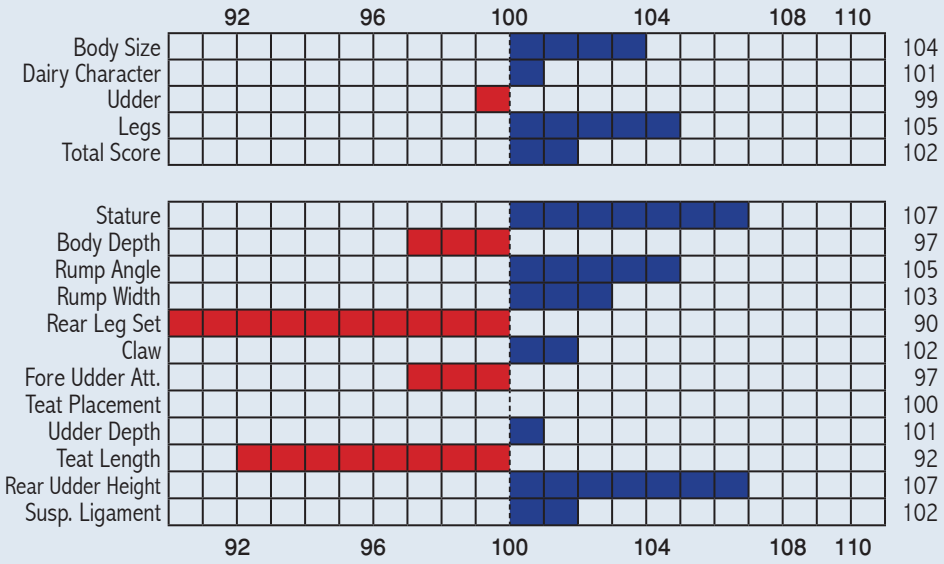
Born : 23.10.2003
Farm : Fudor Menachem
Owner : SION
Daughters: 3,704
Herds: 597
Breeding value: November 2014

Production Traits Rel: 100%	
Milk Kg	439
Fat Kg	22.7
Fat %	0.06%
Protein Kg	13.1
Protein %	0.00%

Functional Traits		
Somatic Cell Count		-0.08
Sire Calving %	Calving Difficulty	4.3
	Calf Mortality	-0.5
Daughter Calving %	Calving Difficulty	4.3
	Calf Mortality	1.6
Longevity (days)		21
Persistence %		1.7
Daughter Fertility %		-1.6

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,266
Fat %	3.61%
Protein %	3.09%

Type Traits → Rel: 90% → Daughters: 273



SITBON 7631

International No. ISRM000000007631

PD 11
979

Sire : Stop

Sire Dam : Badon

Born : 01.06.2008

Farm : Sa'ar

Owner : SION

Daughters: 118

Herds: 88

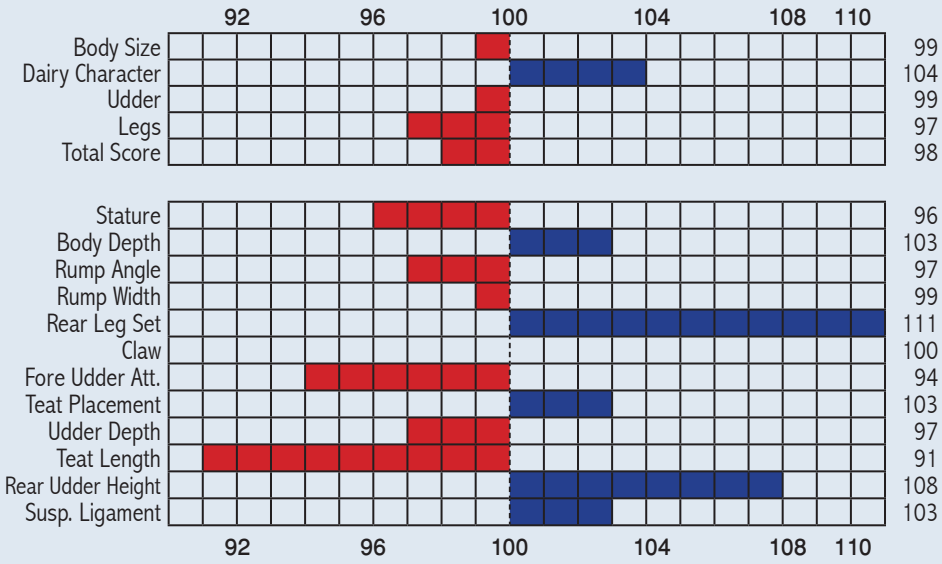
Breeding value: November 2014

Production Traits Rel: 92%	
Milk Kg	1,076
Fat Kg	35.9
Fat %	-0.02%
Protein Kg	27.7
Protein %	-0.05%

Functional Traits		
Somatic Cell Count		0.04
Sire Calving %	Calving Difficulty	3
	Calf Mortality	-0.1
Daughter Calving %	Calving Difficulty	2
	Calf Mortality	1.8
Longevity (days)		120
Persistence %		0.9
Daughter Fertility %		-0.6

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,924
Fat %	3.59%
Protein %	3.05%

Type Traits → Rel: 70% → Daughters: 55



ZAHAVON 7519

International No. ISRM000000007519

PD 11
392

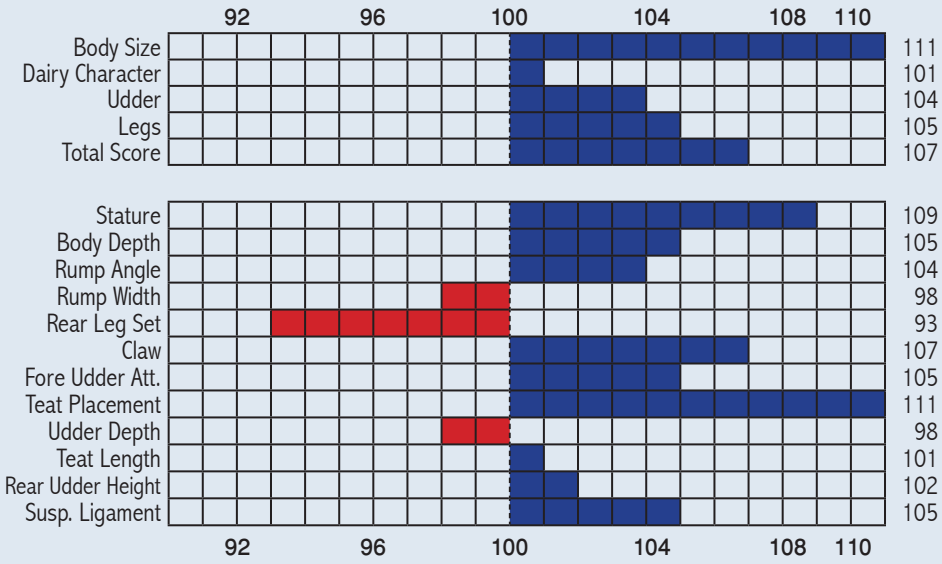
Sire : Jose	
Sire Dam : Avsha	
Born : 18.04.2007	
Farm : Gan Shmuel	
Owner : SION	
Daughters: 110	
Herds: 83	
Breeding value: November 2014	

Production Traits Rel: 92%	
Milk Kg	450
Fat Kg	20.4
Fat %	0.04%
Protein Kg	8
Protein %	-0.05%

Functional Traits		
Somatic Cell Count		-0.2
Sire Calving %	Calving Difficulty	4.2
	Calf Mortality	0.1
Daughter Calving %	Calving Difficulty	5
	Calf Mortality	1.2
Longevity (days)		39
Persistence %		2.2
Daughter Fertility %		-1.9

Production summary 1st lactation adjusted for 305 days	
Milk Kg	12,588
Fat %	3.71%
Protein %	3.07%

Type Traits → Rel: 69% → Daughters: 49



Terms and Abbreviations

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

Data
ICBA November, 2014 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 PD11 calculation
(7.9*Kg Fat) +(23.7*Kg Protein)+ (0.6*Durability) +(26*Fertility)+ (-300*SCC) +(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 (SCC)
Is highly correlated with mastitis 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 favorabie.

Calving difficulty
Expressed as percentage of incidence of dystocia. Negative values are favorable.

Bull daughters calving index
The sum of percent dystocia 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.

TV
Tested as free of CVM (Cervical Vertebral Malformation).

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