ITALIAN MEDITERRANEAN WATER BUFFALO
The Best Genetics Available in Italy

COFA

Catalogue Autumn Winter 2015/16

EEC code IT01 bu
ARTIFICIAL INSEMINATION CENTER
THE BUFFALO IN THE WORLD

by Mattia Casali

The buffalo has always been part of Italian culture as a matter of fact, according to some historians the buffalo has been in our country since the Longobardi eras, instead according to others it has being around since the Roman's. In Italy it has always being used to produce milk out of which, as you all know, we mostly make mozzarella cheese. In the rest of the world instead the buffalo has been used mainly to help the man working the land, and in some country it still is. Do to his versatility we can find in the world, like we do also for the bovine species, different type of breeds that satisfy the different needs. We have the Italian Mediterranean buffalo, the Indian buffalo (we can find the Carabao in southern Asia, instead the Arni we can find it more in Vietnam, China, Philippine, Taiwan, Indonesia and Thailand), the African Black Buffalo, the Bison (we can find it in United States of America although there is also an European cousin), the Murrah buffalo (originally comes from the some regions of India more precise from Punjab and Haryana and we can find it too in Pakistan), then similar to the Murrah we also have the Nili-Ravi buffalo (we can find it mainly in Pakistan and in India in the region of Punjab).

So we can say that up to some years ago the buffalo was more of a Asian/European prerogative, instead in this last few years we have seeing an interest in it from other country like Australia, Canada and United State, this because is a rustic animal ad has the capability of adapting to any kind of climate. The world buffalo population is estimated to be around 174 million heads of which 97% is in Asia (concentrate for the most in India, China and Pakistan), 2% in Africa (for the most part in Egypt) and the remaining is spread in Europe (Italy, Romania and Turkey) and South America (Brazil, Venezuela, Colombia and Argentina). As you can see that is a great potential, very interesting for all of the breeders in particular the Mediterranean’s. the buffalo are animals that, for us that we work with them daily we know for sure, can give great satisfactions. Just by looking at these numbers makes you understand the great potential there is and the future that we can build.

INDEX OF BUFFALOS and HEIFERS

With the September 2015 genetic index published by ANASB, COFA confirms is leadership in the Italian genetic selection. If you look at a the indexes you may see that in the first 120 indexed buffalo 40 are out of COFA’s sire, quite an excellent result.

First 120 Indexed Buffalo

<table>
<thead>
<tr>
<th>Sire from other Al stud</th>
<th>Natural mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>67</td>
</tr>
<tr>
<td>Total: 120</td>
<td></td>
</tr>
</tbody>
</table>

We got an extraordinary result on the heifers, as you can see in the first 120 indexed heifer 66 are daughters of COFA’s sires.

First 120 Indexed Heifers

<table>
<thead>
<tr>
<th>Sire from other Al stud</th>
<th>Natural mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>28</td>
</tr>
<tr>
<td>Total: 120</td>
<td></td>
</tr>
</tbody>
</table>

ZERBIO with the September 2015 Genetic Index he confirms is fantastic data, ZERBIO stays the # 1 bulls in the world, extraordinary is his milk and Kg of protein index. His daughter are exceptional animals with great structure and dairyness, he’s for sure a great sire and will live a strong effect on the Italian genetic selection.

OTELLO after his first excellent index, he manages to upgrade is milk index to a +338.3 placing himself within the first 10 best sire for milk index, furthermore his daughters are animals with excellent udders.

MALANDRINO III after so many years of leading the chart he had to leave the way to ZERBIO.

GOKU is confirming with his 212 daughters all of the positive traits for milk production and % of fat and protein with a 98% reliability.

LUCKY with his 187 daughters and 98% reliability, confirms his strength in transmitting high production with good structure, udder and feet & legs.

CAESAR is confirming with his 262 indexed daughters a sire very well balanced for production, milk quality and excellent morphology.

O-B-ONE with his 434 daughters and a 99% reliability is a sire very well balanced on his production traits and gives daughters with exceptional udders.

TORCINO has confirm his good data for production.

ETTORE is confirming well balance on production.

SPARTACUS is confirm his good data for production.

JAFAR one of our pioneer of our genetic, with his 173 daughters is confirming is accuracy on his production traits.

With the support of ANASB and the cooperation of our fellow farmers, we have being able to achieve all this extraordinary result on the Italian buffalo selection.

Giovanni Binotti
Director of COFA A.I. stud
Zerbio’s daughters distinguish themselves as animals with a big structure and for the excellent udder composite.

**Tested Bull**

**Sire**
- MALANDRINO III VG 89
  - PKM 169,10 Dati ANASB 2015

**Dam**
- TERZA IT003900021248
  - PKM 169,10 Dati ANASB 2015

**Data ANASB September 2015**

<table>
<thead>
<tr>
<th>n°</th>
<th>Year</th>
<th>Days</th>
<th>Milk</th>
<th>F%</th>
<th>P%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>02.07</td>
<td>270</td>
<td>4623</td>
<td>7,2</td>
<td>4,3</td>
</tr>
<tr>
<td>2</td>
<td>04.09</td>
<td>270</td>
<td>6460</td>
<td>8,4</td>
<td>4,5</td>
</tr>
<tr>
<td>3</td>
<td>06.04</td>
<td>270</td>
<td>5345</td>
<td>7,4</td>
<td>4,1</td>
</tr>
</tbody>
</table>

**Teaser**

**Morphylogy Genetic Index**

**Production Genetic Index**

<table>
<thead>
<tr>
<th>Daug. 129</th>
<th>Lact. 242</th>
<th>Herds 36</th>
<th>97% R</th>
</tr>
</thead>
<tbody>
<tr>
<td>PKM</td>
<td>+204,40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Milk</td>
<td>+906,90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F Kg</td>
<td>+59,70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F %</td>
<td>-0,44</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P Kg</td>
<td>+39,50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P %</td>
<td>-0,10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Data ANASB December 2014

Owner: Caprarelli F.lli

Az. Agr. Facchi
Born 06 June 2006
Novara Italy
**Production Genetic Index**

Daug. 262  Lact. 670  Herds 50  98% R

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PKM</td>
<td>+51,60</td>
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<tr>
<td>Milk</td>
<td>208,20</td>
</tr>
<tr>
<td>F Kg</td>
<td>+15,60</td>
</tr>
<tr>
<td>F %</td>
<td>-0,05</td>
</tr>
<tr>
<td>P Kg</td>
<td>+9,70</td>
</tr>
<tr>
<td>P %</td>
<td>+0,00</td>
</tr>
</tbody>
</table>

Data ANASB September 2015

**Morphology Genetic Index**

General Score  Structure  Feet & Legs  Dairyness  Udder Composite  Stature  Chest High  Body Length  Fetterlock Strength  Front Udder Attachment Length  Rear Udder Attachment With Distance to the Hock  Teats Direction  Teats Length

Sire  VG 85

**Tonnino II°  CE 24521**

NAPOLI  CE 28216

PKM 4,49  Data ANASB 2012

Daug. 190  Herds 43

**Production Genetic Index**

Daug. 187  Lact. 465  Herds 52  98% R

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PKM</td>
<td>+96,30</td>
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<tr>
<td>Milk</td>
<td>+424,00</td>
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<tr>
<td>F Kg</td>
<td>+29,00</td>
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<tr>
<td>F %</td>
<td>-0,18</td>
</tr>
<tr>
<td>P Kg</td>
<td>+18,30</td>
</tr>
<tr>
<td>P %</td>
<td>-0,07</td>
</tr>
</tbody>
</table>

Data ANASB September 2015

**Morphology Genetic Index**

General Score  Structure  Feet & Legs  Dairyness  Udder Composite  Stature  Chest High  Body Length  Fetterlock Strength  Front Udder Attachment Length  Rear Udder Attachment With Distance to the Hock  Teats Direction  Teats Length

Sire  VG 85,5

**Master  IT054CR003C202**

MALANDRINO  CE 24552

NONTISAZI MAI  CE 18428

4  1998  270  2884  8,1

**Malandrino  CE 24552**

INSEGNA  CR 630  G+ 82

MALANDRINO  CE 24552

COLORIZIO  CE 28255

n° anno gg  Latte  G%  P%  

1  1998  270  4379  7,2  4,0

n°  anno days  Milk  F%  P%  

1  1995  270  2713  9,7  4,7
2  1996  270  3726  8,0  4,5
3  1997  263  3664  7,7  4,7
4  1999  270  3944  8,1  4,7
5  2000  270  3849  7,8  4,6
6  2001  270  4161  8,0  4,6
## O-B-ONE

**# 1 for Udder Composite**

Available Straws 0,50cc and 0,25cc

### Morfology Genetic Index

<table>
<thead>
<tr>
<th>Daug.</th>
<th>Herds</th>
<th>95% R</th>
</tr>
</thead>
<tbody>
<tr>
<td>313</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

#### General Score
- Structure
- Feet & Legs
- Dairyness
- Udder Composite
- Stature
- Chest High
- Body Length
- Fetterlock Strength
- Front Udder Attachment Length
- Rear Udder Attachment Width
- Distance to the Hock
- Teats Drection
- Teats Length

Data ANASB Dicember 2015

### Production Genetic Index

<table>
<thead>
<tr>
<th>Daug.</th>
<th>Lact.</th>
<th>Herds</th>
<th>99%</th>
</tr>
</thead>
<tbody>
<tr>
<td>434</td>
<td>1033</td>
<td>61</td>
<td></td>
</tr>
</tbody>
</table>

#### PKM
- +27,30

#### Milk
- +141,20

#### F Kg
- +8,80

#### F %
- -0,10

#### P Kg
- +5,00

#### P %
- -0,07

Data ANASB Sept 2015

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### Tested Bull

- **Sire**: VG 89
  - ALDESTE SA 42196
- **JAFAR**: IT054CR003C167
  - PKM 45.20 Data ANASB 2015
- **INSEGNA**: CR 630 G+ 82
  - 6 2001 270 4161 8,0 4,6
- **Dam**: VG 86
  - ALESSIO CR 721
- **RESICA**: CR 1574
  - CR 721
- **n° year days Milk F% P%**
  - 1 1998 270 8,0 4,5
  - 2 2000 270 7,4 4,2
  - 3 2001 270 7,6 4,3
  - 4 2002 270 7,9 4,6
  - 5 2004 270 7,8 4,4

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**Best Bull for Mammary System**

**Exceptional Structure**

**O-B-ONE daughter**

Reserve Champion at the interregional fair in Eboli Salerno 2007

Owner: Massari F.lli

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**RESICA - Dam of O-B-ONE**

Available Straws 0,50cc and 0,25cc

IT01500215620 Az. Agr. Massari Cremona Italy

Born 17 Sep. 2001
**Production Genetic Index**

<table>
<thead>
<tr>
<th>Daug.</th>
<th>Lact.</th>
<th>Herds</th>
<th>% R</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>24</td>
<td>7</td>
<td>83%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PKM</th>
<th>Milk</th>
<th>F Kg</th>
<th>P Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>+77,30</td>
<td>338,30</td>
<td>+13,06</td>
<td>+25,00</td>
</tr>
</tbody>
</table>

Data ANASB September 2015

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**Production Genetic Index**

<table>
<thead>
<tr>
<th>Daug.</th>
<th>Lact.</th>
<th>Herds</th>
<th>% R</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>168</td>
<td>22</td>
<td>95%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PKM</th>
<th>Milk</th>
<th>F Kg</th>
<th>P Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>+13,50</td>
<td>+234,40</td>
<td>+2,40</td>
<td>+5,30</td>
</tr>
</tbody>
</table>

Data ANASB September 2015

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**Morphology Genetic Index**

<table>
<thead>
<tr>
<th>General Score</th>
<th>Structure</th>
<th>Feet &amp; Legs</th>
<th>Udder Composite</th>
<th>Stature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sire**

- **CIRCE 1**
- **PKM 15,80**
  - Data ANASB 2015

**Dam**

- **COROLLA**
  - **IT019500176494**
  - **IT051CR035C004**
  - **VG 88**

---

**Morphology Genetic Index**

<table>
<thead>
<tr>
<th>General Score</th>
<th>Structure</th>
<th>Feet &amp; Legs</th>
<th>Udder Composite</th>
<th>Stature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Sire**

- **EX 90**
  - **LT 6997**
  - **EX 93**

**Dam**

- **RADAR**
  - **SA 49426**
  - **IT021AP357C126**
  - **G+ 84**

**n° year days**

<table>
<thead>
<tr>
<th>Milk</th>
<th>F%</th>
<th>P%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**n° year days**

<table>
<thead>
<tr>
<th>Milk</th>
<th>F%</th>
<th>P%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Data  ANASB  September 2015**
BLACKSTAR is the #1 among the YOUNG BULLS. The best bull in A.I. with the Sire and Grand Sire with Production & Morphology indexes.

<table>
<thead>
<tr>
<th>Sire</th>
<th>VG 88,5</th>
</tr>
</thead>
<tbody>
<tr>
<td>MALANDRINO III IT054CR003C174</td>
<td>PKM 169,10 Data ANASB 2015</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dam</th>
<th>PKM 153,60 Sept 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>River PERLA IT077990042258 G+ 83</td>
<td>n° year days Milk F% P%</td>
</tr>
<tr>
<td></td>
<td>3 05.01 270 5118 7,6 4,3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resica IT019500348511 VG 87</th>
<th>PKM 96,30 Data ANASB 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n° year days Milk F% P%</td>
</tr>
<tr>
<td></td>
<td>3 04.01 270 4712 7,0 4,4</td>
</tr>
</tbody>
</table>

BLACKSTAR #1 among the young bulls has a fantastic Expected Morphology Index, as a matter of fact by looking at the graph, it comes to attention it’s positive impact on all of the morphology traits. In particular you can see that it’s very strong on the Front and Rear Udder Attachment, Stature and Body Length. Very good also on Foot & Legs and Fetterlock Strength, traits that are very important on Buffalo selection. BLACKSTAR is a sure bet because is improving production and all of the morphology traits.

Data ANASB Dicember 2014

Expected Genetic Index

<table>
<thead>
<tr>
<th>PKM</th>
<th>+161,35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Milk</td>
<td>+764,65</td>
</tr>
<tr>
<td>F Kg</td>
<td>+45,10</td>
</tr>
<tr>
<td>F %</td>
<td>-0,37</td>
</tr>
<tr>
<td>P Kg</td>
<td>+32,05</td>
</tr>
<tr>
<td>P %</td>
<td>-0,10</td>
</tr>
</tbody>
</table>

Data ANASB September 2015
### Sons of O-B-One

**Sire**  
JAFAR IT054CR003C167

**O-B-ONE** IT019500215620  
PKM 27,30 Data ANASB 2015

**Dam**  
FAEMA IT019500263675

**Resica** CR 1574 VG 86

<table>
<thead>
<tr>
<th>n° year</th>
<th>days</th>
<th>Milk</th>
<th>F%</th>
<th>P%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>270</td>
<td>3185</td>
<td>7.2</td>
<td>4.4</td>
</tr>
<tr>
<td>2</td>
<td>242</td>
<td>3461</td>
<td>8.0</td>
<td>4.5</td>
</tr>
<tr>
<td>3</td>
<td>260</td>
<td>3839</td>
<td>6.6</td>
<td>4.4</td>
</tr>
<tr>
<td>4</td>
<td>270</td>
<td>3410</td>
<td>8.6</td>
<td>4.5</td>
</tr>
<tr>
<td>5</td>
<td>270</td>
<td>3635</td>
<td>8.4</td>
<td>4.4</td>
</tr>
</tbody>
</table>

**Data ANASB 2015**

### BATIMAN

**Sire**  
JAFAR IT054CR003C167

**O-B-ONE** IT019500215620  
PKM 27,30 Data ANASB 2015

**Dam**  
TAITI IT03900021197

**Resica** CR 1574 VG 86

<table>
<thead>
<tr>
<th>n° year</th>
<th>days</th>
<th>Milk</th>
<th>F%</th>
<th>P%</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>270</td>
<td>3809</td>
<td>6.9</td>
<td>4.5</td>
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<td>4940</td>
<td>7.9</td>
<td>4.6</td>
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<td>3</td>
<td>270</td>
<td>4535</td>
<td>7.9</td>
<td>4.7</td>
</tr>
<tr>
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<td>270</td>
<td>4303</td>
<td>7.2</td>
<td>4.2</td>
</tr>
<tr>
<td>5</td>
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<td>5242</td>
<td>7.4</td>
<td>4.3</td>
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<tr>
<td>6</td>
<td>270</td>
<td>4978</td>
<td>5.5</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Data ANASB 2015**

### Pedigree Index

**Milk** +

**F Kg** + F % -

**P Kg** + P % +

**Data ANASB September 2015**

### Genetic Index

**Milk** +

**F Kg** + F % -

**P Kg** + P % +

**Data ANASB September 2015**
CICLOPE

bull in A.I. with the Sire and Maternal Grand Sire that has the Production and Morphology Indexes.

<table>
<thead>
<tr>
<th>Sire</th>
<th>VG 85</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAFAR</td>
<td>IT054CR003C167 VG 89</td>
</tr>
<tr>
<td>O-B ONE</td>
<td>IT019500215620 PKM 45.20 Data ANASB 2015</td>
</tr>
<tr>
<td>PKM</td>
<td>27.30 Data ANASB 2015</td>
</tr>
<tr>
<td>RESICA</td>
<td>ITCR000001574 VG 86</td>
</tr>
<tr>
<td>Malandrino III</td>
<td>IT054CR003C174 VG 89</td>
</tr>
<tr>
<td>UDEA</td>
<td>IT003990003934 VG 86</td>
</tr>
<tr>
<td>OLIPIA</td>
<td>IT003108000786 G+ 80</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Dam</th>
<th>PKM 255.40 Sept 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>PKM</td>
<td>141.35 Data ANASB Dicember 2014</td>
</tr>
<tr>
<td>Milk</td>
<td>673.20 Data ANASB September 2015</td>
</tr>
<tr>
<td>F Kg</td>
<td>39.10 Data ANASB</td>
</tr>
<tr>
<td>F %</td>
<td>-0.25 Data ANASB</td>
</tr>
<tr>
<td>P Kg</td>
<td>28.05 Data ANASB</td>
</tr>
<tr>
<td>P %</td>
<td>-0.06 Data ANASB</td>
</tr>
</tbody>
</table>

CICLOPE is a progeny bulls that has excellent Expected Indexes, in particularly the Expected Morphology Index, because it has a lineage with big structure, exceptional udder and excellent teats traits, dimension and position, very strong on the body length, furthermore the daughters are animals well structured with bug dairyness traits. A sure promise for the Italian selection.
For the first time in the history the #1 buffalo for PKM comes from the Latina province. Born and raised in the farm of Giuseppe and Alessandro Caprarelli, one of the historic farm of the Agro Pontino, the buffalo az 427 IT059990136247 has succeeded in being at the first place for PKM on the September genetic index 2014 published by ANASB but this is not all, this extraordinary animal has succeeded in confirming his status of #1 buffalo for PKM by staying at the first place also on the publication by ANASB of the genetic index of March and September 2015.

This buffalo, with extraordinary production is scored G+84 and it's a daughter of Zerbio, best sire for PKM and milk index. Right now this buffalo is pregnant with a sire to put on AI, certainly it would have an extraordinary and unique daughter of an extraordinary animal has succeeded in confirming his status of #1 buffalo for PKM.

These excellent result are possible do to the tight cooperation with their consultant Dr. Giuseppe Ronci, with which they had planned, a few year earlier, a specific program where the goal was to upgrade the genetic of the herd. In no time the result that they were expecting came through, and the Caprarelli farm was able, with the cooperation of GB Genetics, to put into the COFA A.I. stud, to start a progeny test program, a young bull with great genetic characteristics, ISIDORO.

This young sire is scored VG 85 at 2 years, is a sun of Allblack out of a Zerbio's daughter with a Ciripicchio grand dame, a pedigree that will guarantee animals with great structure, high productivity and correct and strong feet & legs.

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This young sire is scored VG 85 at 2 years, is a sun of Allblack out of a Zerbio's daughter with a Ciripicchio grand dame, a pedigree that will guarantee animals with great structure, high productivity and correct and strong feet & legs.
ISIDORO new bull in the progeny test program, strong on structure and dairyness, it was scored VG 85 at 2 years.

<table>
<thead>
<tr>
<th>Sire</th>
<th>Data ANASB</th>
<th>Year</th>
<th>Days</th>
<th>Milk</th>
<th>F%</th>
<th>P%</th>
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<tr>
<td>ALLBLACK</td>
<td>Data ANASB</td>
<td>2015</td>
<td>270</td>
<td>5361</td>
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<td>4,6</td>
</tr>
<tr>
<td>PKM 169,10</td>
<td>Data ANASB</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>River ILENYA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n° year</td>
<td>days</td>
<td>Milk</td>
<td>F%</td>
<td>P%</td>
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<tr>
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<td>03.07</td>
<td>3615</td>
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<td>4,8</td>
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</tr>
<tr>
<td>4</td>
<td>09.08</td>
<td>3140</td>
<td>8,3</td>
<td>4,9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sire:
- **MALANDRINO III**
  - ITO54CR003C174 VG 88,5
  - PKM 169,10 Data ANASB 2015

**Dam**
- **PKM 173,90** Sept 2015
- **ZERBIO** ITO039990229038

**Az 428** ITO59990136387 VG 86
- n° year days Milk F% P%
  - 1 03.00 270 3615 9,8 4,8
  - 2 04.01 270 3810 8,7 4,9

**Expected Morphology Index**

<table>
<thead>
<tr>
<th>General Score</th>
<th>Structure</th>
<th>Feet &amp; Legs</th>
<th>Dairyness</th>
<th>Udder Composite</th>
<th>Stature</th>
<th>Chest High</th>
<th>Body Length</th>
<th>Fetterlock Strength</th>
<th>Front Udder Attachment Length</th>
<th>Rear Udder Attachment With</th>
<th>Distance to the Hock</th>
<th>Teats Direction</th>
<th>Teats Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>01</td>
<td>01</td>
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<td>01</td>
<td>01</td>
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<td>01</td>
<td>01</td>
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</tbody>
</table>

**Expected Genetic Index**

<table>
<thead>
<tr>
<th>Sire</th>
<th>Data ANASB</th>
<th>Year</th>
<th>Days</th>
<th>Milk</th>
<th>F%</th>
<th>P%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISIDORO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
- **New Bull**
- **PKM** +144,48,23
- **Milk** +644,20
- **F Kg** +4,08
- **F %** -0,29
- **P Kg** +27,55
- **P %** +0,08

**Pedigree Index**

<table>
<thead>
<tr>
<th>Sire</th>
<th>Data ANASB</th>
<th>Year</th>
<th>Days</th>
<th>Milk</th>
<th>F%</th>
<th>P%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALLBLACK</td>
<td>Data ANASB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
- **PKM** +129,22
- **Milk** +554,30
- **F Kg** +39,48
- **F %** -0,10
- **P Kg** +24,00
- **P %** -0,05

**ISIDORO** although it doesn’t have an Expected Morphology Index, is a sire that has the possibility to pass on to its progeny good and strong morphology traits in terms of structure, dairyness, udder composite and feet & legs. You can deduct this by looking at its pedigree, because we can find sire of the weight of Malandrino III and Zerbio that can give us good hope on the passing on of good jeans to its progeny. Isidoro is a bull that was score VG85 at the age of 2 years and its mother was score VG86 on second lactation. Because of its characteristics we don’t advise it on heifers.

*Data ANASB Setpember 2015*
**Pedigree Index**

**PASSATORE**

- Milk: +745,75
- F Kg: +50,45 F % -0,21
- P Kg: +31,30 P % -0,08

**MALANDRINO III**

- Milk: +442,35
- F Kg: +23,43 F % -0,29
- P Kg: +21,15 P % +0,02

**CAESAR**

- Milk: +442,35
- F Kg: +23,43 F % -0,29
- P Kg: +21,15 P % +0,02

**FIULA (Mother) Genetic Index**

**PASSATORE**

- Milk: +768,50
- F Kg: +31,30 F % -0,54
- P Kg: +32,60 P % +0,06

**CAESAR**

- Milk: +745,75
- F Kg: +50,45 F % -0,21
- P Kg: +31,30 P % -0,08

**MALANDRINO III**

- Milk: +51,60
- F Kg: +23,43 F % -0,29
- P Kg: +21,15 P % +0,02

**FIULA**

- Milk: +480,00 F % -0,12
- P Kg: +30,00 P % -0,03

---

**Data ANASB September 2015**

**MALANDRINO III**

- Milk: +51,60
- F Kg: +23,43 F % -0,29
- P Kg: +21,15 P % +0,02

**FIULA**

- Milk: +480,00 F % -0,12
- P Kg: +30,00 P % -0,03

---

**Data ANASB September 2015**

**MALANDRINO III**

- Milk: +51,60
- F Kg: +23,43 F % -0,29
- P Kg: +21,15 P % +0,02

**FIULA**

- Milk: +480,00 F % -0,12
- P Kg: +30,00 P % -0,03

---

**Data ANASB September 2015**

**MALANDRINO III**

- Milk: +51,60
- F Kg: +23,43 F % -0,29
- P Kg: +21,15 P % +0,02

**FIULA**

- Milk: +480,00 F % -0,12
- P Kg: +30,00 P % -0,03
**Direction** new bull in A.I. with the Sire and Maternal Grand Sire that has the Production and Morphology Indexes.

**Expected Morphology Index**

- General Score
- Structure
- Feet & Legs
- Dairyness
- Upper Composite
- Stature
- Chest High
- Body Length
- Fetterlock Strength
- Front Udder Attachment Length
- Rear Udder Attachment With Distance to the Hock
- Teats Direction
- Teats Length

Data ANASB December 2015

**Direction** is a son of Goku on a Malandrino III daughters, his expected morphology index highlights his excellent traits especially the structure, production capability very good Feet & Legs and Fetterlock Strength. Direction is a bull that has to be protected on the mammary system, that means that he has to be bred with buffalos that have good Front Udder Attachment and Teats well placed. Direction goes well with daughter of: O-B-One, Caesar, Lucky Jece Sole and Zerbio.

**Pedigree Index**

- **Sire**: UNICO LT 6169 VG 89
- **Dam**: MAESTRA ITCR000000866 G+ 84
- **River JANA** IT077990042179 G+ 82

**Expected Genetic Index**

- **Sire**: UNICO LT 6169 VG 89
- **Dam**: MAESTRA ITCR000000866 G+ 84
- **River JANA** IT077990042179 G+ 82

Data ANASB September 2015
AGRIPPA is a son of Jesce Sole on a Goku’s dam, a very interesting breed for its production and dairyness potential.

AGRIPPA is a new A.I. progeny bull that has very good expected morphology indexes, you can see that from the graph that brings to attention the fact that it improves the stature, the dairyness, feet & legs and the fetterlock straight. Very goon on the rear udder attachment. It should be used on buffalo that have good stature and a high udder position compare to the distance to the hock. A sure promise for the Italian selection.

**Expected Morphology Index**

- General Score
- Structure
- Feet & Legs
- Dairyness
- Udder Composite
- Stature
- Chest High
- Body Length
- Fetterlock Strength
- Front Udder Attachment Length
- Rear Udder Attachment With Distance to the Hock
- Teats Direction
- Teats Length

Data ANASB Dicember 2015

**Pedigree Index**

<table>
<thead>
<tr>
<th></th>
<th>PKM</th>
<th>Milk</th>
<th>F Kg</th>
<th>P Kg</th>
<th>P%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sire</td>
<td>VG 85</td>
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<td>+36,55</td>
<td>-0,23</td>
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<tr>
<td>JESCE SOLE IT061000057361</td>
<td>IT061000023393</td>
<td>G+ 80 86</td>
<td>n° year days Milk F% P%</td>
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<td></td>
</tr>
<tr>
<td>PKM 118,00 Dati ANASB 2015</td>
<td>GOKU IT019500148587</td>
<td>AZ 895 IT059990097279</td>
<td>G+ 83</td>
<td>n° year days Milk F% P%</td>
<td>3 06.02 270 3337 8,3 4,5</td>
</tr>
</tbody>
</table>

**Expected Genetic Index**

<table>
<thead>
<tr>
<th></th>
<th>PKM</th>
<th>Milk</th>
<th>F Kg</th>
<th>P Kg</th>
<th>P%</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOKU</td>
<td>IT059990237270</td>
<td>+107,30</td>
<td>+496,85</td>
<td>+30,80</td>
<td>-0,30</td>
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<tr>
<td>Owner : Massari F.lli</td>
<td>Owner : Garofalo F.lli Caserta</td>
<td>Az.895 IT059000237698</td>
<td>G+ 83</td>
<td>n° year days Milk F% P%</td>
<td>3 06.02 270 3337 8,3 4,5</td>
</tr>
</tbody>
</table>

Data ANASB Septembree2015
**APPIO** is a new A.I. progeny bull that is impressive in stature, body length and chest high. Very strong on the back line and for its strong dairyness. Appio’s mother is an excellent buffalo scored G+83 on first lactation. Very good is her production trait in the genetic index +582,30 and exceptionally strong on the % of protein +0.06.
Mastro Titta is an excellent new A.I. progeny bull that deep roots in the Circe farm. The father is a farm bull was scored VG 86, a bull with great stature and very correct on all of is functional traits. The mother, Az.1169, is a buffalo with big productions, on her 5th lactation she had Kg 4117 of milk in 270 days, she’s 32nd on the September 2014 genetic index with a PKM of 184,20 and +853 in milk. Mastro Titta is scored G+84, it has great strength on the back line excellent rump and an extraordinary dairyness capability.

Musolino is a son of Jesce Sole a bull that doesn’t need any comment. The mother, Az 1002, is a buffalo with very good productions scored G+83, present on the September 2014 genetic Index on the 80th place with a PKM of 157,10 and +701,16 on milk with good fat and protein. The maternal grand sire was scored VG 89,5 a lot of its daughters that are present in the farm distinguish themselves for their productions. Musolino is scored G +82 with very good feet & legs trait and a good structure and very good dairyness.

Papa Ciro is a son of Jesce Sole, the mother, Az936, is a buffalo with very good productions and very regular on the delivery. The maternal dam, Az119, is a fantastic buffalo that had a production of Kg 4267 of milk with 8,1% fat and 4,6% protein. The maternal grand sire, LT6997, is an extraordinary bull scored Ex93, one among the best bulls ever scored in the selection of the Mediterranean Italian Buffalo. Papa Ciro is scored G+83, a bull well balance on all of its morphology trait and especially good on feet & legs.
**GOKHAN** is a new A.I. progeny bull with sire and maternal grand sire with Production and Morphology indexes.

<table>
<thead>
<tr>
<th>Sire</th>
<th>VG 85</th>
<th>UNICO</th>
<th>LT 6169 VG 89</th>
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</thead>
<tbody>
<tr>
<td>GOKU IT019500148587</td>
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<tr>
<td>PKM 136,80 Data ANASB 2015</td>
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<tr>
<td>MAESTRA ITCRR00000866 G+ 84</td>
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<tr>
<td>Dam PKM 255,40 Set 2015</td>
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<tr>
<td>UDEA IT003990003934 VG 86</td>
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<tr>
<td>n° year days Milk F% P%</td>
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<td></td>
</tr>
<tr>
<td>1 02.03 270 4880 7,8 4,8</td>
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<td>2 03.10 270 5094 7,2 4,6</td>
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<tr>
<td>5 07.08 270 3627 7,8 4,3</td>
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</table>

**Expected Morphology Index**

- General Score
- Structure
- Feet & Legs
- Dairyness
- Udder Composite
- Stature
- Chest High
- Body Length
- Fetterlock Strength
- Front Udder Attachment Length
- Rear Udder Attachment With
- Distance to the Hock
- Teats Direction
- Teats Length

**Pedigree Index**

- PKM +110,68
- Milk +424,73
- F Kg +33,53
- F % -0,02
- P Kg +20,08
- P % +0,03

**Expected Genetic Index**

- PKM +196,10
- Milk +836,60
- F Kg +55,00
- F % -0,14
- P Kg +38,45
- P % +0,04

**GOKHAN** is a new progeny bull that, as you may see from its expected Morphology Index, has great traits on structure, stature and length of the body. Excellent feet & legs and fetterlock strength. On the udder side it’s excellent its rear attachment. It has slight negativity on the length of front udder attachment and on the direction of the teats. Gokhan is a bull to be used on buffalo with good udder composite.
**Genetic Index of River ALIDA**

<table>
<thead>
<tr>
<th>PKM</th>
<th>215,40</th>
</tr>
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<tbody>
<tr>
<td>Milk</td>
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<tr>
<td>F Kg</td>
<td>+52,40</td>
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<td>F %</td>
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</tr>
<tr>
<td>P Kg</td>
<td>+44,20</td>
</tr>
<tr>
<td>P %</td>
<td>+0,38</td>
</tr>
</tbody>
</table>

Data ANASB September 2015

**ALIDA is the #1 for % of Protein.**

ALIDA is a fantastic buffalo of the Bradano River farm that combines with her tremendous production extraordinary percentages of fat and protein.

ALIDA is the best buffalo in Italy on the index for protein % with her +0,38%.

**Expected Genetic Index**

<table>
<thead>
<tr>
<th>PKM</th>
<th>+166,70</th>
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<tbody>
<tr>
<td>Milk</td>
<td>+600,10</td>
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<tr>
<td>F Kg</td>
<td>+38,35</td>
</tr>
<tr>
<td>F %</td>
<td>-0,14</td>
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<tr>
<td>P Kg</td>
<td>+38,50</td>
</tr>
<tr>
<td>P %</td>
<td>+0,13</td>
</tr>
</tbody>
</table>

Data ANASB September 2015

**River ALIDA**

IT059990056213  G+ 84

**JESCE SOLE**

IT061000057361  VG 85

PKM 118,00  Data ANASB 2015

Dam PKM 215,40  Sept 2015

River ALIDA is the #1 for % of Protein.

ALIDA is a fantastic buffalo of the Bradano River farm that combines with her tremendous production extraordinary percentages of fat and protein.

ALIDA is the best buffalo in Italy on the index for protein % with her +0,38%.

**JESCE SOLE**

IT077990043316  Soc. Bradano River

Matera  Italy

Born 01 Feb. 2011

**RAINBOW**

a young progeny bulls that promises excellent milk production with great Protein.

**Pedigree Index**

**River ALIDA** is the #1 for % of Protein.
**GENETIC VENTURE SIRE**

We are working very hard in order to be able to make available for the farmers the best genetic.

Pretty soon we’ll have available sons of:
- **ZERBIO**
- **OMBRA e NISCIUNO**
- **BASULU’**

---

**MORPHOLOGY**

Our selection objectives, for what concerns the morphology side, are concentrated on those sire that have the capability to transfer on their daughters great stature with excellent udder composites and correct feet & legs.

In order to do this we have insert in our team sons of Malandrino III like **BLACKSTAR, PASSATORE, ALLBLACK and APPIO**, this is to guarantee animals with great stature. We also insert sons of O-B-One like **CICLOPE, BATIMAN and CARLO II**, in order to obtain good result on udder indexes, in a near future we are thinking in getting sons of **BASULU’** and **OMBRA e NISCIUNO**, to guarantee us excellent udder composite with good conformation and direction of the teats, the udder has a weight of 40% on the evaluation of a buffalo that is why these traits are a priority and fundamental to have in a buffalo.

To improve feet & legs we are putting our trust on sire like **LUCKY, CAESAR, ZERBIO, BLACKSTAR and BASULU’**.

All those characteristics are necessary in order to get animals that are productive, functional and with good longevity, all traits necessary in order to help the farmers in getting well balance animals that helps them to get a positive financial balance at the end.

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**PRODUCTION**

When we select sire for the future generation we ask ourselves two questions:
1. **Farmer’s needs.**
2. **Use of the milk.**

Concerning point 1 is useless to say that the quantity of milk is the first priority for a farmer, that is why we select in the past sire that could guarantee high productions like the sons of Malandrino III, Jesce Sole, now we are looking at the new generation with sons of **GOKU, OMBRA e NISCIUNO** and in particularly **ZERBIO** that with is 129 indexed daughters is for sure the n°1.

Beside the quantity of milk we are looking also at the quality of it in terms of % of fat and protein, very important factors when you transforms it into cheese and a sire that will definitely help us will be **GOKU**, that is why we’re trying to have it either in the paternal line than in the maternal one.

Concerning point 2 is well known that 90% of the milk, in Italy, is used for the production of mozzarella cheese and other semi aged type of cheeses. By keeping this in mind it explains why it’s a must that we need a sire that has high and positive trait on fat and protein. This is the reason why we use young sire with, on their blood line the sire **GOKU**, that for sure is the best Tested Bull that can unite to an excellent production an extraordinary quality of the milk in terms of % of fat and protein.

It goes without saying that in order to have a good buffalo we can’t just look at production but we have to look also at other morphology trait that can guarantee us a good food intake with good transformation and longevity, so we may end by saying that production and longevity have a close correlation with functionality.
**GOKU**

**Production Index**

Daug. 212 Lact. 571 Herds 56 98% R

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PKM</td>
<td>+136.80</td>
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<tr>
<td>Milk</td>
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</tr>
<tr>
<td>F Kg</td>
<td>+40.60</td>
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<tr>
<td>F %</td>
<td>+0.12</td>
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<tr>
<td>P Kg</td>
<td>+25.80</td>
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<td>P %</td>
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</table>

**Sire with no semen availability**

<table>
<thead>
<tr>
<th>Sire</th>
<th>Dam</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNICO</td>
<td>MALANDRINO</td>
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</tbody>
</table>

**Morphology Index**

General Score | 90
Feet & Legs   | 89
Dairyness     | 90
Udder Composite | 89
Stature       | 88
Chest High    | 90
Body Length   | 89
Fetterlock Strength | 88
Front Udder Attachment Length | 90
Rear Udder Attachment With Distance to the Hock | 89
Teats Direction | 88
Teats Length  | 88

**JAFAR**

**Production Index**

Daug. 173 Lact. 560 Herds 39 98% R

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PKM</td>
<td>+45.20</td>
</tr>
<tr>
<td>Milk</td>
<td>+163.40</td>
</tr>
<tr>
<td>F Kg</td>
<td>+16.40</td>
</tr>
<tr>
<td>F %</td>
<td>+0.13</td>
</tr>
<tr>
<td>P Kg</td>
<td>+7.40</td>
</tr>
<tr>
<td>P %</td>
<td>-0.01</td>
</tr>
</tbody>
</table>

**Sire with no semen availability**

<table>
<thead>
<tr>
<th>Sire</th>
<th>Dam</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALDESTE</td>
<td>MALANDRINO</td>
<td></td>
</tr>
</tbody>
</table>

**Morphology Index**

General Score | 90
Feet & Legs   | 90
Dairyness     | 90
Udder Composite | 89
Stature       | 90
Chest High    | 89
Body Length   | 89
Fetterlock Strength | 88
Front Udder Attachment Length | 90
Rear Udder Attachment With Distance to the Hock | 89
Teats Direction | 88
Teats Length  | 88

**SPARTACUS**

**Production Index**

Daug. 86 Lact. 227 Herds 26 96% R

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PKM</td>
<td>+46.70</td>
</tr>
<tr>
<td>Milk</td>
<td>+162.50</td>
</tr>
<tr>
<td>F Kg</td>
<td>+10.60</td>
</tr>
<tr>
<td>F %</td>
<td>-0.03</td>
</tr>
<tr>
<td>P Kg</td>
<td>+10.00</td>
</tr>
<tr>
<td>P %</td>
<td>+0.09</td>
</tr>
</tbody>
</table>

**Sire with no semen availability**

<table>
<thead>
<tr>
<th>Sire</th>
<th>Dam</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMERIERA</td>
<td>TROFEO</td>
<td></td>
</tr>
</tbody>
</table>

**Morphology Index**

General Score | 90
Feet & Legs   | 90
Dairyness     | 90
Udder Composite | 89
Stature       | 90
Chest High    | 89
Body Length   | 89
Fetterlock Strength | 88
Front Udder Attachment Length | 90
Rear Udder Attachment With Distance to the Hock | 89
Teats Direction | 88
Teats Length  | 88
ALLBLACK

MALANDRINO III
Father of ALLBLACK
Az. Agr. Massari F.Iii Cremona

Data ANASB September 2015

PKM +84,55
Milk +381,45
F Kg +26,45
F % +1,15
P Kg +15,80
P % -0,07

Sire with limited semen availability

Sire IT054CR003C174 MALANDRINO III
PKM 169,10 Data ANASB 2015

RESICA CR 1574 VG 86
n° year days Milk F% P%
3 04.06 270 5118 7,6 4,3

BASULU'

TERZA
Mother of BASULU'
Az. Agr. Facchi F.Iii Novara

Data ANASB September 2010

PKM +138,00
Milk +841,15
F Kg +48,61
F % +0,16
P Kg +30,13
P % -0,12

Sire with limited semen availability

Sire GECK SA 38324
Conдор VA 277 VG 88
Az 3054 SA 36066 G+ 82
5 08.02 255 3908 8,2 4,2

TERZA
IT003900021248
OHITKA IT00310800842
n° year days Milk F% P%
1 02.07 270 4623 7,2 4,3
2 04.09 270 6460 8,4 4,5

TERZA (Mother) Genetic Index

Data ANASB September 2010

PKM +1,682,30
Milk +97,61 F % -0,32
P Kg +60,26 P % -0,25

ETTORE

Champion at the 2013 national fair in Naples

Production Index

Daug. 77 Lact. 214 Herds 28 96% R
PKM +28,60
Milk +97,20
F Kg +10,40
F % +0,13
P Kg +4,60
P % -0,01

Data ANASB September 2015

Sire with no semen availability

Sire VG 85 SA 69871
Cameriera IT065000261262
n° year days Milk F% P%
4 06.01 270 3398 8,5 5,0

MATTINIERE IT099SA001C035
n° year days Milk F% P%
4 07.00 270 3943 9,7 5,4

TROFEO SA 63119
List 1: Traits considered by ANASB on the morphology index.

List 2: Hereditability of the considered traits.

Source ANASB

HEREDITABILITY

As you can see on List 2 the hereditability of the traits varies a lot, we can say that the higher the hereditability the faster are the genetic changes of that trait. Low hereditability correspond to a slower genetic improvement.

We can see that the traits DC, FOPA, LAAM and ARTP are traits with low hereditability and you can see this on the buffalo population because a lot of animals have those negative characteristics.

On the contrary STAT, PG and AM are traits that improve quicker. It’s advisable then to concentrate more on the traits with low hereditability.

THE IDEAL BUFFALO

In the criteria of the selection of any productive animals a big and important aspect is taken by the functional morphology, this because of the productivity that an animal can give to the farmers, that is why we try with genetics improvement to get as close as possible to the ideal model.

Talking especially about buffalos it is clear that the ideal buffalo has to be an animal with high milk productions and in order to do so it has to have a morphology that will allow it to intake and transform a big quantity of food, therefore are very important the traits in term of Stature, Transversal Diameters and Longitudinal Diameters.

What we have said up to now is not sufficient, a buffalo to be productive it has to stay on the farm as long as possible that is why Feet & Legs are very important, a buffalo with big lacks won’t be productive and will not stay long on the farm.

All of this is still not sufficient, if we consider that we are selecting an animal that has to produce milk, the Udder Composite is fundamental and for sure on the first place on our list.

Udder with defect causes problems in milking, have tendency to have mastitis and inevitably animals with little longevity and productivity that will leave soon the herd.

COMPOUNDS TRAITS

These are the traits that on a morphology evaluation of a buffalo are grouped together, with different weight in order to be able to score the four traits listed below.

- SRT is the evaluation of all of the traits that identify the structure of a buffalo.
- ARTP is the evaluation of all of the traits of the feet and legs of a buffalo.
- PP is the evaluation of all of the traits that influence the production capacity of a buffalo.
- AM is the evaluation of all of the traits of the mammary system of a buffalo.

Evaluated those four traits you use them to create the final evaluation of the animal.

- PG is the general or final evaluation of the animal that contains with different weights (List 3), all of the compounds traits.

The result of all these evaluations it helps us understand how close the animal is to our ideal model.

Giovanni Binotti
Sire Analyst COFA
**Prosynch protocol in buffalo heifers**

Diagram of ovarian dynamics and synchronization response for Prosynch Protocol hormone injection schedule in Buffalo heifers

<table>
<thead>
<tr>
<th>Days</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Ovulation or CL formation</td>
</tr>
</tbody>
</table>
| 3    | F
| 8    | 28 ± 4h ovulation |
| 7    | Ovulation or CL formation |
| 48   | Regression |
| 16   | Plus CL formed from this GnRH |

**Ovsynch protocol in buffalo**

Diagram of ovarian dynamics and synchronization response for traditional OvSynch hormone injection schedule

<table>
<thead>
<tr>
<th>Days</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Ovulation or CL formation</td>
</tr>
</tbody>
</table>
| 7    | F
| 48   | 28 ± 4h ovulation |
| 16   | Regression |

**Resynch protocol in buffalo**

Diagram of ovarian dynamics and synchronization response for Resynch protocol in Buffalo heifers

<table>
<thead>
<tr>
<th>Days</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAI</td>
<td></td>
</tr>
<tr>
<td>day 0</td>
<td>GnRH to all Buffaloes</td>
</tr>
<tr>
<td>day 28</td>
<td>PGF2a to open buffalo</td>
</tr>
<tr>
<td>day 35</td>
<td>GnRH + TAI (16 h) later</td>
</tr>
<tr>
<td>day 37</td>
<td>Buffalo closed</td>
</tr>
</tbody>
</table>

In order to obtain great result in conception rate, you don’t only need good herd management with a correct ration and a good technic in artificial insemination, you also need to have great quality semen material.

That is why COFA, on this matter has always put special attention, and has come up with specific protocol for the semen buffalo production.

At COFA, we don’t only look at the motility and concentration of the semen, but we pay very good attention at the morphology evaluation of the sperm, that allows us to make and estimate of the fertility, not only in theory at the lab but also on hand in the field.

Another very important aspect, in order to be able to produce high semen quality, is the freezing, a very delicate process.

That is why over the years we have created and perfected a SPECIAL curve only for the buffalo semen, with great result.

During the year 2014 we had 14 buffalo in production, and we had an excellent result on the quality of the semen on all of them like it shown on the table below:

- **PROGRESSIVE MOTILITY**: 57,0%
- **TOTAL CONCENTRATION**: 18,1 millions
- **NPMS (Number of Progressive Motile Sperm)**: 10,3 millions
- **MORFOLOGY anomalies**: less than 20%

With this result COFA puts itself as the world leading company in the production of high quality buffalo semen material. In the semen we make, you won’t only find and get high genetics, but you’ll also get great sperm quality.

We can say this because of the feedback we get from or numerous client and veterinarian that operates in the field in Italy and all over the world.

Cinzia Pozzaglio
COFA Laboratory Technician
Az. Ag. Facchi f.lli – Heifers Barn

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Az. Ag. Facchi f.lli – Heifers Barn

Bradano River ZEUDI IT059990072579
2° lact. 299 days Milk Kg 4.727 F % 8.42 P % 4.96
BEST UDDER at the National Fair in Foggia in 2010