



## Test conditions :

1. The milk tests are made in 2 different and independent research locations, managed by CRV.
2. The milk tests are made with the same original quality and quantity of feed in the 2 companies
3. The tests are made with cows in second or third lactation with a uniform genetics and history of production
4. The tests are made in the 2 companies with forage with equal VEM values
5. The test are done with cows that calved in the same period (15/6/12 - 30/6/12)

## Specification of feeding of groups of cows :

1. **Baled forage** for all feeding tests: TMR of Orkel maize bales + Orkel grass bales + concentrate.
2. **Bunker silo forage: same spec** TMR of bunker maize silo + grass bunker silo + concentrate
3. Equal VEM (net energy kg/dry matter) for 1 and 2.



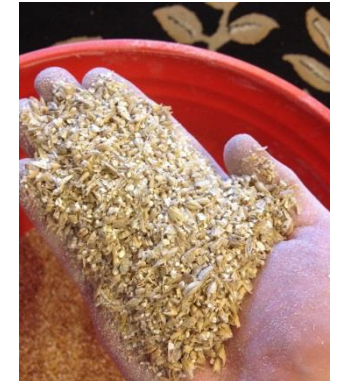
Orkel MP 2000 Compactor



Orkel bales of maize and grass



Bunker silos of maize and grass



Concentrate



# Milk and quality test group 1: August 2012 – January 2013

10 cows - mixture Mais bales + hay + grain					
BALES					
	kg milk/day	%fat (g/100g)	%protein (g/100g)	%lactose (g/100g)	cel count (x1000/ml)
20.08.2012	27,00	4,88	3,41	4,59	52,00
20.09.2012	29,00	4,76	3,67	4,58	39,00
21.10.2012	28,00	4,74	3,88	4,86	41,00
21.11.2012	26,00	4,68	3,87	4,49	87,00
20.12.2012	24,50	4,71	3,97	4,41	343,00
18.01.2013	23,00	4,47	4,01	4,36	122,00
<b>AVERAGE BALES</b>	<b>26,25</b>	<b>4,71</b>	<b>3,80</b>	<b>4,55</b>	<b>114,00</b>

10 cows - mixture silo maize + silo grass + grain					
SILO					
	kg milk/day	%fat (g/100g)	%protein (g/100g)	%lactose (g/100g)	cel count (x1000/ml)
20.08.2012	23,00	4,20	3,24	4,18	552,00
20.09.2012	22,50	4,28	3,26	3,60	612,00
21.10.2012	24,00	3,69	3,12	3,54	550,00
21.11.2012	21,00	3,65	3,08	3,26	595,00
20.12.2012	18,00	3,34	3,01	3,20	953,00
18.01.2013	17,00	3,21	2,28	3,18	1100,00
<b>AVERAGE SILO</b>	<b>20,92</b>	<b>3,73</b>	<b>3,00</b>	<b>3,49</b>	<b>727,00</b>



	kg milk/day	%fat (g/100g)	%protein (g/100g)	%lactose (g/100g)	cel count (x1000/ml)
<b>Difference</b>	<b>5,33</b>	<b>0,98</b>	<b>0,80</b>	<b>1,06</b>	<b>-613,00</b>
<b>in %</b>	<b>25,5</b>	<b>26,2</b>	<b>26,8</b>	<b>30,2</b>	<b>-84,3</b>



Milk and quality test group 2: August 2012 – January 2013

4 cows - mixture Mais bales + grass bales + grain					
BALES					
	kg milk/day	%fat (g/100g)	%protein (g/100g)	%lactose (g/100g)	cel count (x1000/ml)
20.08.2012	28,38	4,79	3,51	4,37	93,50
20.09.2012	29,63	4,82	3,87	4,30	68,00
21.10.2012	29,38	4,73	3,82	4,33	65,50
21.11.2012	28,13	4,65	3,55	4,24	89,50
20.12.2012	26,75	4,56	3,46	4,21	147,75
18.01.2013	24,88	4,38	3,65	4,16	112,50
<b>AVERAGE BALES</b>	<b>27,85</b>	<b>4,65</b>	<b>3,64</b>	<b>4,27</b>	<b>96,13</b>

4 cows - mixture silo maize + silo grass + grain					
SILO					
	kg milk/day	%fat (g/100g)	%protein (g/100g)	%lactose (g/100g)	cel count (x1000/ml)
20.08.2012	24,00	4,13	3,20	4,04	834,25
20.09.2012	23,38	4,08	3,14	3,74	506,25
21.10.2012	22,50	3,73	3,01	3,53	493,75
21.11.2012	19,25	3,59	3,01	3,15	711,25
20.12.2012	17,25	3,24	2,94	3,10	695,75
18.01.2013	16,13	3,11	2,59	2,99	708,75
<b>AVERAGE SILO</b>	<b>20,42</b>	<b>3,65</b>	<b>2,98</b>	<b>3,42</b>	<b>658,33</b>



	kg milk/day	%fat (g/100g)	%protein (g/100g)	%lactose (g/100g)	cel count (x1000/ml)
<b>Difference</b>	<b>7,44</b>	<b>1,01</b>	<b>0,66</b>	<b>0,84</b>	<b>-562,21</b>
<b>in %</b>	<b>36,4</b>	<b>27,7</b>	<b>22,1</b>	<b>24,6</b>	<b>-85,4</b>

# Improved animal production based on

