

AUTOGRASSMILK

Effect of the distribution of maize silage Results 2014

WP1

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Effect of the distribution of maize silage

Results 2014

43 Grazing cows divided in 2 groups:

- **High concentrate (HC):** 3.13 ± 0.04 kg conc.
- **Low concentrate (LC):** 1.97 ± 0.04 kg conc.

2 periods of 7 days :

- Period 1 without maize: 8/10 -14/10/2014
- Period 2 with maize (5.8 kg DM/cow): 15/10-21/10/2014

Effect of the distribution of maize silage

Results 2014

Grass availability

Period 1: Grass cover: 1202 kg DM/Ha – 172 kg DM/cm

Period 2: Grass cover: 1946 kg DM/Ha – 189 kgDM/cm

Effect of the distribution of maize silage

Results 2014

- Milk yield: Effect of concentrate level

	MY (kg)	
	Without maize	With maize
HC	16.88 ± 0.33 ^{aA}	18.14 ± 0.32 ^a
LC	15.38 ± 0.37 ^{bA}	18.12 ± 0.37 ^a

Effect of the distribution of maize silage

Results 2014

- Milkings – Effect of concentrate level

	Milkings	
	Without maize	With maize
HC	1.62 ± 0.04^{aA}	1.83 ± 0.04^a
LC	1.82 ± 0.04^{bA}	2.07 ± 0.04^b

Effect of the distribution of maize silage

Results 2014

- Milk yield: Effect of lactation stage

	MY (kg)	
	Without maize	With maize
<200 DIM	20.14 ± 0.40 ^{aA}	22.79 ± 0.41 ^a
>200DIM	12.14 ± 0.30 ^{bA}	13.47 ± 0.28 ^b

Effect of the distribution of maize silage

Results 2014

- Milkings: Effect of lactation stage

	Milkings	
	Without maize	With maize
<200 DIM	1.90 ± 0.05 ^{aA}	2.13 ± 0.06 ^a
>200DIM	1.54 ± 0.04 ^{bA}	1.77 ± 0.04 ^b

Effect of the distribution of maize silage

Results 2014

- Effect of parity on milk yield and milkings

	MY (kg)		Milkings	
	Without maize	With maize	Without	With
Multi	18.19 ± 0.25 ^{aA}	20.03 ± 0.24 ^a	1.73 ± 0.03 ^{aA}	1.90 ± 0.03 ^a
Primi	14.08 ± 0.48 ^{bA}	16.22 ± 0.49 ^b	1.71 ± 0.06 ^{aA}	2.00 ± 0.06 ^a

Effect of the distribution of maize silage

Results 2014

Effect on refusals

- Concentrate level, lactation stage

Refusals	Without maize		With maize	
	HC	LC	HC	LC
Concentrates	0.84 ± 0.08 ^{aA}	0.85 ± 0.08 ^{aA}	0.56 ± 0.07 ^a	0.66 ± 0.08 ^a
DIM	<200	>200	<200	>200
	1.05 ± 0.09 ^{aA}	0.66 ± 0.09 ^b	0.65 ± 0.07 ^a	0.56 ± 0.08 ^a

Effect of the distribution of maize silage

Results 2014

- Refusals – Effect of parity

	Refusals	
	Without maize	With maize
Pluri	0.91 ± 0.06^{aA}	0.63 ± 0.06^a
Primi	0.79 ± 0.11^{bA}	0.59 ± 0.11^a

Effect of the distribution of maize silage

Results 2014

	Ratio milkings/refusals	
	Without maize	With maize
HC	1.92	3.26
LC	2.14	3.14

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Results 2014

	Ratio milkings/refusals	
	Without maize	With maize
< 200 DIM	1.81	3.27
> 200 DIM	2.30	3.16



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