

Supplementary Tables

Table S1. Effect of mulch type and mulch rate on selected parameters at Syferkuil.

Syferkuil 2017						
Mulch type	Moisture	Chlorophyll	Stem Diameter	Plant Height	Shoot Biomass	Grain Yield
	(%)		(mm)	(cm)	(kg/ha)	(kg/ha)
C	4.47a	22.85a	6.75a	23.98b	1037.78a	349.43b
MLT	6.49a	29.11a	7.79a	26.21a	1093.92a	277.67c
MST	6.76a	28.75a	8.14a	27.43a	1088.92a	410.17a
VK	6.39a	28.35a	8.02a	27.46a	1143.61a	397.50a
	ns	ns	ns	*	ns	**
Mulch Rate						
0	4.47b	22.85c	6.75a	23.98a	1037.78b	349.43ab
3	6.37a	25.99b	7.72a	26.46a	1032.36b	263.26b
6	6.40a	30.08a	8.08a	27.64a	1195.15a	418.33a
9	6.87a	30.14a	8.15a	26.99a	1098.94ab	403.75a
	*	***	ns	ns	***	***
Syferkuil 2018						
Mulch Type	Moisture	Chlorophyll	Stem diameter	Plant height	Shoot biomass	Grain yield
	(%)		(mm)	(cm)	(kg/ha)	(kg/ha)
C	5.79a	23.25c	7.93b	23.22b	249.72d	83.71a
MLT	6.70a	26.05b	8.93a	24.44a	442.98b	66.98ab
MST	6.84a	27.47a	8.96a	25.12a	486.88a	74.80a
VK	6.83a	26.37b	8.49ab	25.07a	401.81c	46.52b
	ns	***	*	**	**	**
Mulch Rate						
0	5.79a	23.25c	7.93b	23.22c	249.72d	83.71a
3	6.84a	27.13a	8.54ab	23.66c	422.50b	44.21b
6	6.56a	26.31b	8.68a	25.05b	384.17c	64.87ab
9	6.96a	26.44b	9.16a	25.91a	525.00a	79.21a
	ns	***	**	***	***	***

Table S2. Effect of mulch type and mulch rate on selected parameters at Syferkuil.

Ofcolaco 2017						
Mulch type	Moisture	Chlorophyll	Stem diameter	Plant height	Shoot Biomass	Grain Yield
	(%)		(mm)	(cm)	(kg/ha)	(kg/ha)
C	4.64c	12.26b	8.41b	31.56a	687.04a	319.06a
MLT	6.22ab	22.51a	11.27a	31.42a	1032.70a	469.48a
MST	6.56a	22.21a	10.90a	31.44a	1079.38a	505.63a
VK	5.75b	21.81a	10.28a	32.15a	983.02a	456.15a
	**	ns	*	ns	ns	ns
Mulch Rate (tons/ha)						
0	4.64b	12.26b	8.41b	31.56a	687.04a	319.06a
3	6.35a	23.05a	10.76a	31.60a	1011.20a	445.42a
6	6.00a	22.05a	10.35a	32.35a	1080.26a	509.79a
9	6.19a	21.43a	11.35a	31.06a	1003.64a	476.04a
	ns	*	*	ns	ns	ns
Ofcolaco 2018						
Mulch Type	Moisture	Chlorophyll	Stem diameter	Plant height	Shoot Biomass	Grain Yield
	(%)		(mm)	(cm)	(kg/ha)	(kg/ha)

C	5.30c	16.31d	6.33c	33.36c	985.09d	156.86b
MLT	6.72ab	19.91b	11.93a	40.27a	1902.07b	273.14a
MST	7.13a	21.02b	12.40a	40.67a	2046.63a	303.51a
VK	6.35b	19.07c	11.22b	38.49b	1593.32c	287.60a
	**	***	***	***	***	*
Mulch Rate (tons/ha)						
0	5.30c	16.31c	6.33c	33.36c	985.09d	156.86c
3	6.31b	20.31a	10.82b	39.20b	1664.68c	255.13b
6	6.71ab	20.35a	11.02b	38.54b	1747.58b	254.58b
9	7.17a	19.34b	13.72c	41.70a	2129.75a	354.55a
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