

Wheat straw



Main analysis	Unit	Avg	SD	Min	Max	Nb
Dry matter	% as fed	91.0	1.3	87.3	93.8	438
Crude protein	% DM	4.2	0.7	2.6	6.0	428
Crude fibre	% DM	41.5	2.1	36.6	46.2	438
NDF	% DM	77.5	4.2	65.4	86.0	85 *
ADF	% DM	50.0	3.5	43.3	57.0	80 *
Lignin	% DM	7.2	1.0	5.3	9.7	203
Ether extract	% DM	1.4	0.5	0.7	2.8	53
Ash	% DM	6.7	1.2	4.4	10.0	433
Starch (polarimetry)	% DM	1.0	0.6	0.1	2.6	114
Total sugars	% DM	1.2	0.9	0.3	5.7	138
Gross energy	MJ/kg DM	18.5	0.6	16.0	18.5	18 *

Minerals	Unit	Avg	SD	Min	Max	Nb
Calcium	g/kg DM	4.8	1.1	2.8	7.9	226
Phosphorus	g/kg DM	0.7	0.2	0.3	1.2	226
Potassium	g/kg DM	11.2	4.6	5.4	21.2	40
Sodium	g/kg DM	0.1	0.1	0.0	0.4	143
Magnesium	g/kg DM	1.2	1.2	0.4	5.4	18
Manganese	mg/kg DM	32	19	12	60	5
Zinc	mg/kg DM	17	7	8	28	10
Copper	mg/kg DM	4	2	2	9	10
Iron	mg/kg DM	184	201	52	643	8

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De Heus Pty Ltd
P.O. Box 179
3730 Umlaas Road
South Africa

Farmer: IntelliFarmPty
1
Oudtshoorn

Profi Report

Product Whole Crop Silage (171)
Type / Cultivar Whole Crop Silage
Lot / Pit / Field Ruvoer Blok 40%
Sample Code 69221206042

Sample taken by
Date of harvest / grazing 2022-11-03
Date of sampling 2022-11-24
Date of analyzing 2022-12-07

Results:

Parameter ¹	Results		Target	Average
	Product	DM		
Dry matter	712		250 - 450	375
Ash		77	50 - 110	72
pH	5,4		3.8 - 4.4	4.4
Acetic acid		43	-	12
Lactic acid		2	-	33
Butyric Acid				
VEM		650	775 - 875	767
VEVI		609	750 - 900	757
NH3 fraction (%CP)		8	<10	12
Nitrate		0,2	<7.5	
Crude protein		109	85 - 145	95
Total crude protein		119	95 - 155	107
CP-SOL (%CP)		58,0	-	
Crude fiber		344	225 - 300	280
Crude fat		17	20 - 40	33
Starch		72	50 - 175	69
ByPass starch (%)		5	-	5
Sugar		81	25 - 100	64

Parameter ¹	Results		Target	Average
	DM			
Dig.OM (%)	60,4		65 - 75	65.7
NDF	656		425 - 550	544
NDF-dig. (%)	52,2		-	50.4
ADF	425		250 - 325	323
ADL	53		25 - 45	33
GLP	81		-	88
SDVE	34		35 - 50	34
SOEB	7		-25 - 10	2
SFOS	500		450 - 550	478
FCP1	66		-	60
FCP2	5		-	4
FCP3	5		-	5
FCH1	198		-	181
FCH2	82		-	84
FCH3	143		-	145
SdvLYS	2,2		-	2.2
SdvMET	0,9		-	0.9

¹ Results in gr / kg DM unless stated differently. Explanation of the parameters on page 2

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De Heus Pty Ltd
P.O. Box 179
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South Africa

Farmer: IntelliFarmPty
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Oudtshoorn

Explanation

Analysis method: NIRS

Product

NIRs	Near Infrared Reflection Spectroscopy
VEM	Feed Unit Milk
VEVI	Feed Unit Beef Cattle Intensive
Dig.OM (%)	Digestible Organic Matter
SDVE	Synchro Intestine Digestible Protein
SOEB	Synchro Degradable Protein Balance
SFOS	Synchro Fermentable Organic Substance
NDF	Neutral Detergent Fibre
ADF	Acid Detergent Fibre
ADL	Acid Detergent Lignin
GLP	Glucogenic Power
FCP1	Fermentable Crude Protein (fast)
FCP2	Fermentable Crude Protein (medium)
FCP3	Fermentable Crude Protein (slow)
FCH1	Fermentable CarboHydrates (fast)
FCH2	Fermentable CarboHydrates (medium)
FCH3	Fermentable CarboHydrates (slow)
SdvLYS	Synchro Intestine Digestible Lysine
SdvMET	Synchro Intestine Digestible Methionine

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P.O. Box 179
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South Africa

Farmer: IntelliFarmPtyLtd
1
Oudtshoorn

Profi Report

Product Whole Crop Silage (171)
Type / Cultivar Whole Crop Silage
Lot / Pit / Field Ruvoer Blok50%
Sample Code 69221206043

Sample taken by
Date of harvest / grazing 2022-11-03
Date of sampling 2022-11-24
Date of analyzing 2022-12-07

Results:

Parameter ¹	Results		Target	Average
	Product	DM		
Dry matter	715		250 - 450	375
Ash		98	50 - 110	72
pH	5,3		3.8 - 4.4	4.4
Acetic acid		34	-	12
Lactic acid		2	-	33
Butyric Acid				
VEM		709	775 - 875	767
VEVI		686	750 - 900	757
NH3 fraction (%CP)		7	<10	12
Nitrate		0,5	<7.5	
Crude protein		148	85 - 145	95
Total crude protein		160	95 - 155	107
CP-SOL (%CP)		57,0	-	
Crude fiber		269	225 - 300	280
Crude fat		19	20 - 40	33
Starch		58	50 - 175	69
ByPass starch (%)		5	-	5
Sugar		61	25 - 100	64

Parameter ¹	Results		Target	Average
	DM			
Dig.OM (%)	64,9		65 - 75	65.7
NDF	567		425 - 550	544
NDF-dig. (%)	52,8		-	50.4
ADF	371		250 - 325	323
ADL	43		25 - 45	33
GLP	80		-	88
SDVE	41		35 - 50	34
SOEB	38		-25 - 10	2
SFOS	474		450 - 550	478
FCP1	89		-	60
FCP2	6		-	4
FCP3	7		-	5
FCH1	159		-	181
FCH2	77		-	84
FCH3	134		-	145
SdvLYS	2,3		-	2.2
SdvMET	0,9		-	0.9

¹ Results in gr / kg DM unless stated differently. Explanation of the parameters on page 2

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South Africa

Farmer: IntelliFarmPtyLtd
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Oudtshoorn

Explanation

Analysis method: NIRS

Product

NIRs	Near Infrared Reflection Spectroscopy
VEM	Feed Unit Milk
VEVI	Feed Unit Beef Cattle Intensive
Dig.OM (%)	Digestible Organic Matter
SDVE	Synchro Intestine Digestible Protein
SOEB	Synchro Degradable Protein Balance
SFOS	Synchro Fermentable Organic Substance
NDF	Neutral Detergent Fibre
ADF	Acid Detergent Fibre
ADL	Acid Detergent Lignin
GLP	Glucogenic Power
FCP1	Fermentable Crude Protein (fast)
FCP2	Fermentable Crude Protein (medium)
FCP3	Fermentable Crude Protein (slow)
FCH1	Fermentable CarboHydrates (fast)
FCH2	Fermentable CarboHydrates (medium)
FCH3	Fermentable CarboHydrates (slow)
SdvLYS	Synchro Intestine Digestible Lysine
SdvMET	Synchro Intestine Digestible Methionine

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South Africa

Farmer: IntelliFarmPtyLtd
1
Oudtshoorn

Profi Report

Product Whole Crop Silage (171)
Type / Cultivar Whole Crop Silage
Lot / Pit / Field Ruvoer Blok 60%
Sample Code 69221206044

Sample taken by
Date of harvest / grazing 2022-11-03
Date of sampling 2022-11-24
Date of analyzing 2022-12-09

Results:

Parameter ¹	Results		Target	Average
	Product	DM		
Dry matter	657		250 - 450	375
Ash		146	50 - 110	72
pH	5,0		3.8 - 4.4	4.4
Acetic acid		71	-	12
Lactic acid		35	-	33
Butyric Acid				
VEM		667	775 - 875	767
VEVI		641	750 - 900	757
NH3 fraction (%CP)		8	<10	12
Nitrate		0,5	<7.5	
Crude protein		172	85 - 145	95
Total crude protein		187	95 - 155	107
CP-SOL (%CP)		63,0	-	
Crude fiber		265	225 - 300	280
Crude fat		18	20 - 40	33
Starch		12	50 - 175	69
ByPass starch (%)		5	-	5
Sugar		65	25 - 100	64

Parameter ¹	Results		Target	Average
	DM			
Dig.OM (%)	64,9		65 - 75	65.7
NDF	543		425 - 550	544
NDF-dig. (%)	48,4		-	50.4
ADF	351		250 - 325	323
ADL	34		25 - 45	33
GLP	86		-	88
SDVE	44		35 - 50	34
SOEB	55		-25 - 10	2
SFOS	519		450 - 550	478
FCP1	105		-	60
FCP2	7		-	4
FCP3	9		-	5
FCH1	195		-	181
FCH2	80		-	84
FCH3	123		-	145
SdvLYS	2,3		-	2.2
SdvMET	1,0		-	0.9

¹ Results in gr / kg DM unless stated differently. Explanation of the parameters on page 2

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Farmer: IntelliFarmPtyLtd
1
Oudtshoorn

Explanation

Analysis method: NIRS

Product

NIRs	Near Infrared Reflection Spectroscopy
VEM	Feed Unit Milk
VEVI	Feed Unit Beef Cattle Intensive
Dig.OM (%)	Digestible Organic Matter
SDVE	Synchro Intestine Digestible Protein
SOEB	Synchro Degradable Protein Balance
SFOS	Synchro Fermentable Organic Substance
NDF	Neutral Detergent Fibre
ADF	Acid Detergent Fibre
ADL	Acid Detergent Lignin
GLP	Glucogenic Power
FCP1	Fermentable Crude Protein (fast)
FCP2	Fermentable Crude Protein (medium)
FCP3	Fermentable Crude Protein (slow)
FCH1	Fermentable CarboHydrates (fast)
FCH2	Fermentable CarboHydrates (medium)
FCH3	Fermentable CarboHydrates (slow)
SdvLYS	Synchro Intestine Digestible Lysine
SdvMET	Synchro Intestine Digestible Methionine