KALE
UK TRIALS DATA

TRIALS DATA

Variety	Type	Relative DM Yield %	Relative Fresh Yield %	DM Content %	Leaf:Stem Ratio High = Leafy	Height cm	Digestibility Value	Winter Hardiness 9=best
100%=Tonnes/Ha		9.7	70.2					
Caledonian CR	**Marrow stem**	**122**	**123**	**13.8**	**0.6**	**105**	**71.2**	**5**
Bombardier CR	**Marrow stem**	**118**	**121**	**13.5**	**0.5**	**102**	**72.2**	**5**
Grampian CR	**Marrow stem**	**115**	**113**	**14.1**	**0.6**	**101**	73.7	4
Pinfold (C)	**Intermediate**	**112**	**100**	**15.6**	**1.0**	**101**	**71.1**	**6**
Bittern	Intermediate	112	101	15.5	0.8	94	74.0	*
Voltage	Intermediate	104	93	15.7	0.9	97	70.6	5
Keeper	**Short**	**104**	**92**	**15.7**	**1.2**	**85**	**74.2**	**5**
Maris Kestrel	Short	100	100	13.9	1.1	74	75.6	3
Thousand Head	Older standard	100	83	16.6	1.2	99	70.1	*

Source: Limagrain UK trials & James Hutton Institute Trials 1991 - 2013, (C) = Control, Winter hardiness scored Jan 2011. Not all varieties trialled every year, not all scores taken every year, * No data available, CR: Clubroot tolerant

TYPICAL YIELDS & FEED QUALITY

Average dry matter yield	=	8 - 10 tonnes/ha
Average fresh yields	=	60 - 70 tonnes/ha
Dry matter	=	14 - 16%
Crude protein	=	16 - 17%
Digestibility value	=	70 - 75%
Metabolisable energy	=	10 - 11 MJ/kg DM

Data Source: Kingshay Forage Costings Report 2010

TYPICAL COSTS & VALUES

	Total Cost
Cost per hectare	£496/ha
Cost per tonne fresh weight	£7
Cost per tonne utilised dry matter	£67
Relative value £/tonne DM	£133
Cost per litre of milk	2.8p
Cost per kilo of live weight gain	18.8p

SOWING RATES PER HA

Precision drilled	Direct drilled	Broadcast
2kg	4-5kg	8kg

FERTILISER GUIDELINES

SNS Index		0	1	2	3	4	5	6
Nitrogen (N)	kg/ha	130	120	110	90	60	0-40	0
Phosphate (P_2O_5)	kg/ha	110	80	50	0	0	0	0
Potash (K_2O)	kg/ha	260	280	200(-2)170(+2)	130	0	0	0

Data Source: DEFRA Fertiliser Manual (RB209)

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