KALE
TECHNICAL AID

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 NEW	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 ©	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	*

Data Source: Limagrain UK trials & James Hutton Institute Trials 1991 - 2013 © Control Winter hardiness scored Jan 2011 Note: Not all varieties trialled every year, not all scores taken every year
* No data available CR: Club root tolerant

TYPICAL YIELDS AND 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 AND VALUE

	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 HECTARE

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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