



Sales Aid

Kale



Trials Data

Variety	Type	Total Dry Matter Yield %	Total Fresh Yield %	Dry Matter %	Leaf: Stem Ratio ▲	Height cm	Digestibility Value %
100%=Tonnes/Ha		9.5	70.2				
Caledonian	Club Root resistant	122	123	13.8	0.6	105	71.2
Grampian	Intermediate	114	113	14.1	0.6	101	73.7
Pinfold	Intermediate	112	100	15.6	1.0	101	71.1
Bittern	Intermediate	112	101	15.5	0.8	94	74.0
Voltage	Intermediate	105	93	15.7	0.9	97	70.6
Keeper	Short Grazer	103	92	15.7	1.2	85	74.2
Maris Kestrel (c)	Short Grazer	100	100	13.9	1.1	74	75.6
Thousand Head	Older Standards	99	83	16.6	1.2	99	70.1

Data Source: Limagrain UK & James Hutton Institute trials 1991-2013

(C) = Control

Typical Yields and Feed Quality

Average Dry Matter yield	=	8-10 tonnes/ha
Average fresh yields	=	60-65 tonnes/ha
Dry Matter	=	14-16%
Crude protein	=	16-17%
Digestibility value	=	68%
Metabolisable energy	=	10-11 MJ/kg DM

Data Source: Kingshay Forage Costings Report 2010

Typical Costs and Value

	Total Cost
Cost per acre	£202 (£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)	130	120	110	90	60	0-40	0
Phosphate (P ₂ O ₅)	110	80	50	0	0	0	0
Potash (K ₂ O)	260	280	200 (-2) 170 (+2)	130	0	0	0

Data Source: DEFRA Fertiliser Manual (RB209)

