

Overwinter Green Manure Options

Crop	Seed Rate (kg/ha)	Seed Costs (£/ha)	Latest Sowing Date	Weed/Disease Considerations & Following Crops	Shoot Benefit?	ELS EJ13 Compliant	Grazing Value	Comments
Forage Rye	185kg/ha	£157/ha	Mid-End October	Take-all potential in next crop (not too bad if spring sown crop). Do not allow to set seed.	Probably too wet	Yes	Good	Best N Fixer but expensive
Westerwolds/IRG Ley	30kg/ha	£63/ha	Mid October	Do not allow to set seed.	Probably too wet	Not stated but should be ok	Good	Could be undersown to Maize or potential to get silage crop before maize or late drilled linseed/spr rape? Could fit in with ELS maize options? Potential for 15t/ha biomass (would not be as high if silage cut taken)
Vetch/IRG Mixture	67kg/ha	£117/ha	Mid October	Do not allow to set seed.	Probably too wet	Not stated but should be ok	Good	Combined N Lifter and N Fixer.
Crimson Clover	15kg/ha	£84/ha	Mid-Late August	Possible sclerotinia carry over to bean crops?	Probably too wet	Not stated but should be ok	Good	Should fix around 4t biomass/ha. Dubious as to how established it would be by destruction in following spring? Will fix upto 150kg/N/ha
Oats	100kg/ha	£20/ha (based on oat sale price of £200/T)	Mid September	Advantage over other cereals as part take-all break	Probably too wet	Not stated but should be ok	Good	Good cheap, reliable and relatively flexible option. Not great if oats are to follow.
Vetches	75kg/ha	£116/ha	Mid October		Probably too wet	Yes	Good	Can fix upto 200kg/ha/N.
Mustard	Drill @ 5kg/ha Broadcast @ 10kg/ha	Drill = £15/ha Broadcast = £30/ha	End August	Brassica diseases (severity dependant on pH and drainage)	Attractive to pheasant/partridge	Yes	?	Suceptible to frost. Potential for biofumigation effects from Brown Mustard if chopped and incorporated immediately!
Fodder Radish	7kg/ha	£31/ha	Early August	Brassica diseases (severity dependant on pH and drainage)	Pheasant & partridge	Not stated but should be ok	Good	
Stubble Turnips	Apprx 5kg/ha (possibly upto 7kg/ha if broadcast)	£30-35/ha	Mid September	Brassica diseases (severity dependant on pH and drainage). Potential vols in WOSR	Particularly good for partridge	<u>Not if grazed hard</u>	Good (lambs)	
Kings Winter Cover (forage rape/brown mustard/fodder radish)	10kg/ha	£70/ha	End August	Brassica diseases (severity dependant on pH and drainage)	Potential for early season holding and driving cover	Yes	Good	
Kings Stubbles Mix (forage rape/mustard/turnips)	10kg/ha	£50/ha	End August	Brassica diseases (severity dependant on pH and drainage)	Potential for early season holding and driving cover	Yes	Good	
Pedders Mix (Oats Vetch Tic beans Black sunflower Buckwheat Linseed Red millet Fodder Radish)	41-50kg/ha	£25/ha	Mid - End August	Brassica diseases	Will provide good cover if established well. Possibly too wet if dense.	Yes	Very Good	Nice mix. Keep an eye on slugs.