

Maize for Anaerobic Digestion - BSPB/NIAB 2017 List



The 'Maize for Anaerobic Digestion List' is available to provide anaerobic digestion (AD) plant operators and growers with independent data to use when selecting varieties to maximise biogas (methane) production.

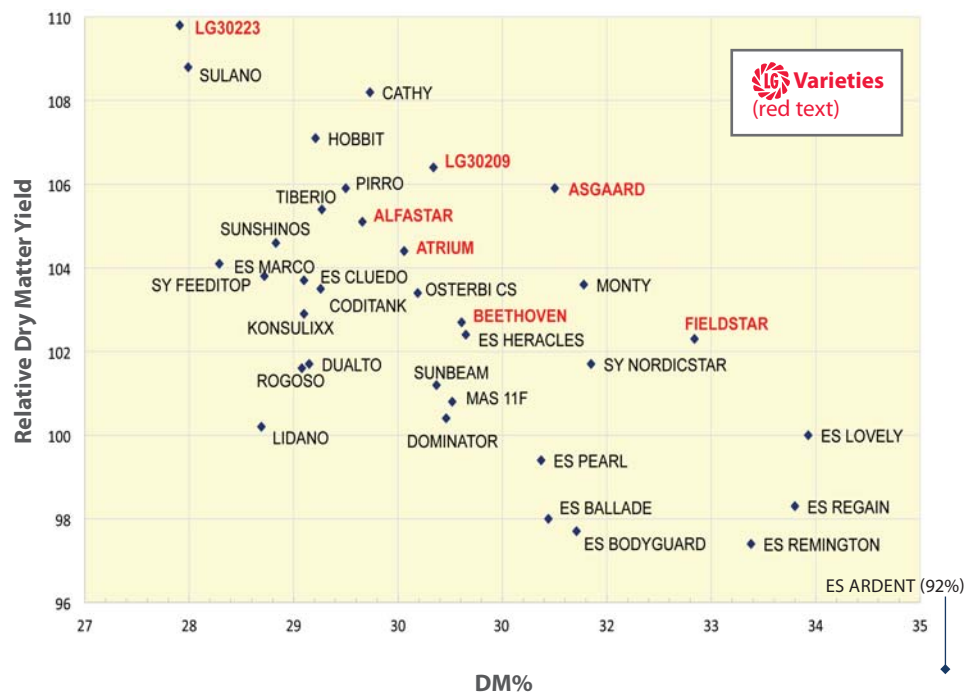
This List has been compiled from over five years of independent BSPB/NIAB trial data, and recognises that the selection criteria for anaerobic digesters are different from those for livestock feeding. **When selecting varieties to maximise the production of biogas, the best indication of their potential is the total energy (ME) yield per hectare.**

As with the List for forage maize, information on variety performance is provided for sites which are Favourable and Less Favourable. On this page, the Favourable List is shown, as most AD plants are in good growing areas. Further information for Less Favourable sites can be found at www.lgseeds.co.uk/maize



BSPB/NIAB 2017 AD List for Favourable Sites

Relative Dry Matter Yield v DM%



RANKED BY ENERGY (ME) YIELD

DESCRIPTION VARIETY	MATURITY			YIELD DATA		AGRONOMIC DATA			ENERGY DATA		
	MC**	DM % (at harvest)	# Days Earlier to Harvest	DM YIELD (t/ha)	REL DM YIELD (%)	EARLY VIGOUR 9=good 1=poor	STANDING (at harvest) 9=good 1=poor	EYESPOT RATING (9=good, 1=poor)	ME YIELD (MJ/kg at harvest)	REL ME YIELD (%)	ME (MJ/kg DM at harvest)
Mean of 4&5 year varieties		32.7		16.9	100	7.0	8.2	5.1	191		11.32
LG30.223	4	27.9	0	18.6	110	7.3	8.3	5.4	206	108	11.09
LG30.209	6	30.3	9	18.0	106	7.0	8.2	3.4	204	107	11.36
CATHY	5	29.7	6	18.3	108	6.9	8.3	4.8	204	107	11.16
ASGAARD	7	31.5	13	17.9	106	7.6	8.3	3.8	204	107	11.39
ATRIUM	5	30.1	8	17.7	104	7.2	8.2	3.0	204	106	11.54
HOBBIT	5	29.2	5	18.1	107	7.2	8.1	3.3	201	105	11.13
ALFASTAR	5	29.7	6	17.8	105	7.4	8.3	4.8	201	105	11.30
SUNSHINOS	5	28.8	3	17.7	105	7.3	8.3	3.0	200	105	11.31
SULANO	4	28.0	0	18.4	109	6.9	8.0	4.1	199	104	10.84
MONTY	6	31.8	14	17.5	104	6.6	8.3	4.5	198	104	11.33
TIBERIO	5	29.3	5	17.8	105	7.1	8.0	6.2	198	103	11.10
FIELDSTAR	8	32.8	17	17.3	102	7.2	8.3	6.4	197	103	11.41
SY FEEDITOP	4	28.3	1	17.6	104	7.0	8.3	6.0	197	103	11.18
CODITANK	5	29.3	5	17.5	104	6.4	8.3	6.1	196	102	11.20
SY NORDICSTAR	7	31.9	14	17.2	102	7.3	8.2	7.0	196	102	11.39
ES MARCO	4	28.7	3	17.5	104	6.1	8.2	6.8	194	102	11.08
OSTERBI CS	6	30.2	8	17.5	103	6.9	8.1	5.9	194	102	11.12
PIRRO	5	29.5	6	17.9	106	6.6	7.6	5.4	194	102	10.85
DUALTO	5	29.2	4	17.2	102	6.4	8.3	6.6	194	101	11.26
BEETHOVEN	6	30.6	9	17.4	103	6.8	8.1	4.8	193	101	11.11
MAS 11F	6	30.5	9	17.0	101	6.9	8.2	4.6	191	100	11.22
ES LOVELY	9	33.9	21	16.9	100	7.4	8.3	3.6	191	100	11.28
ES CLUEDO	5	29.1	4	17.5	104	6.2	8.2	5.1	190	100	10.87
SUNBEAM	6	30.4	9	17.1	101	6.5	8.3	6.1	190	99	11.11
ES PEARL	7	31.4	12	16.8	99	7.1	7.9	5.4	189	99	11.25
ES REGAIN	8	33.8	21	16.6	98	7.2	8.3	3.8	188	98	11.31
ES HERACLES	6	30.7	10	17.3	102	6.3	8.1	5.6	188	98	10.85
ROGOSO	5	29.1	4	17.2	102	6.3	8.3	6.2	187	98	10.91
KONSULIXX	5	29.1	4	17.4	103	6.9	8.0	6.9	186	97	10.69
DOMINATOR	6	30.5	9	17.0	100	7.0	8.3	5.6	186	97	10.94
ES BODYGUARD	7	31.7	13	16.5	98	6.4	8.3	6.5	186	97	11.24
LIDANO	4	28.7	3	16.9	100	5.7	8.3	4.9	185	97	10.93
ES BALLADE	7	31.4	12	16.6	98	6.8	8.2	4.4	185	97	11.14
ES REMINGTON	8	33.4	19	16.5	97	7.2	8.3	4.2	183	95	11.08
ES ARDENT	10	35.3	26	15.6	92	6.4	8.3	5.7	176	92	11.26

Limagrain estimated days earlier to harvest than LG30.223. **MC = Limagrain estimation of maturity class

The varieties tabulated are forage maize varieties that the breeders have nominated as having potential suitability for AD use. The List may not represent the full range of forage maize or biogas varieties that are available for the market.