



# MAIZE SEED

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## GUIDE TO SUCCESSFUL MAIZE SILAGE



- Drilling Date:** Ideally mid-April to early May, early drilling improves dry matter yields, grain content and drought sensitivity.
- Soil Temperature:** Consistently at 8°C at sowing depth.
- Seed bed:** Ensure a moist loose / fluffy deep tilth with no compaction or water logging.
- Sowing depth:** Sow as shallow as possible 25-40mm. The seed must however be sown into moisture.
- Starter Fertiliser:** Improves establishment by speeding up growth, maturity and improving dry matter and starch yields (see fertilisation section)
- Growth Fertilizer:** Vitally important for maize yield & quality (see table below)
- Seed Dressing:** Mesuro is currently applied as a standard if there is a risk of wireworm attack, after a long term ley use Sonido treatments. (Treatment legislation is likely to change in 2020)
- Seed Rates:** Optimum seed rate of 45,000 seeds per acre yield of energy & starch (Silage)
- Weed Control:** Due to maize's lack of competitiveness in its early growth stages effective weed control is imperative to avoid crop failure.
- Maize Eyespot:** An increasingly common fungal disease effecting continuous maize at temperatures below 27 degrees. It will also effect harvest dates, starch levels and feed values. A preventative spray in mid July will control any potential occurrences.
- Harvest Maturity:** Immature harvesting reduces energy and starch yields by up to approximately 30%, adversely effecting silage performance.
- Dry Matter:**
- |          |           |  |
|----------|-----------|--|
| Forage   | 30% - 35% | Maximum animal intake                        |
| Digester | 27% - 31% | Maximum for anaerobic digestion fermentation |
- Chop Length:**
- |                   |             |                             |
|-------------------|-------------|-----------------------------|
| Forage Long Chop  | 12mm - 15mm | for rumen digestibility     |
| Biogas Short Chop | 7mm - 10mm  | for extra surface area      |
| Very Wet          | 20mm - 25mm | to reduce effluent          |
| Very Dry          | 10mm        | to improve clamp compaction |
- Grain Cracking:** To ensure maximum energy utilisation the corn cracker must be correctly adjusted to completely shatter all the grains to a powder.
- Feed Out:** Leave the clamp sealed for at least 4 weeks allowing the silage to stabilise and the grains to soften to maximise feed energy.

**BIOTAL** Crop and Condition inoculants deliver high quality forage for both livestock and anaerobic digestors

**maizecool** **solomaize**  
gold

If you have any questions or require extra information please call **01531 822833**



## MAIZE FERTILISER REQUIREMENTS

Correct nutrition is vital to provide a successful and economic maize crop. Figures below based on peak uptake for a 20 t/ac (50 t/ha) maize crop.

210 kg / ha	168 units / acre	Nitrogen (N)
55 kg / ha	44 units / acre	Phosphate (P)
220 kg / ha	176 units / acre	Potash (K)

### Available nutrients for the next crop following spring application

	Kg per tonne			Units per ton		
	N	P	K	N	P	K
Cattle FYM	1.2	2.1	7.2	2.4	4.2	14.4
Broiler Litter	9	15	16	18	30	32
	Kg per cubic meter			Units per 1000 gal		
Cow Slurry	1.0	0.6	3.2	9	5.4	29
Pig Slurry	1.2	1.0	2.3	11	9	21

Source PDA

**It is important not to exceed environmental guidelines**

See Fertiliser section on page 65 






## RGT DUXXBURY (VERY EARLY F.A.O 160)

A new generation of early maturing maize from the same breeder as Agiraxx which has shown consistency in 4 years of National Listing Trials.

Duxxbury has the **highest forage quality in UK National List Trials**, combining excellent plant digestibility, energy and starch.

Duxxbury offers very early maturity even if sown relatively late after a spring silage cut on less favourable sites.

### Benefits

- Very good grain maturity reaching advanced true cob maturity
- Early whole plant dry down ensures good levels of dry matter in the clamp
- Very good starch yields from the early cob ripeness
- Excellent early vigour, standing power and produces well filled cobs reducing risk of microtoxin contamination in the clamp.
- Duxxbury is recommended for all less favourable, marginal maize growing sites or where early harvest date is of prime importance
- Very good eyespot resistance for an early variety
- Duxxbury offers a good balance of plant dry down and grain maturity ensuring maximum utilisation and intake.
- Available with wireworm treatment (limited) 

### Characteristics

Maturity	11
Dry Matter Yield %	97
Dry Matter %	37.4
Starch Content %	35.6
ME (MJ/kg)	11.7
Cell Wall Digestibility %	58.3

NIAB figures



Mesuroil & Thiram treated, 50,000 seed packs

Bred by 



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## RGT AGIRAXX (EARLY F.A.O 170)

UK'S  
MARKET  
LEADER


The UK's most proven Maize variety for Forage, Grain and Biogas.

A new generation of high intake varieties  from R.A.G.T offering maximum digestibility.

Combines high dry matter and starch yields resulting in a high energy and digestible forage.

Suitable for favourable and less favourable sites.

### Benefits

- Continued winner of multiple national maize competitions in 2018
- Highest dry matter yields in Kingshay trials
- Very good grain maturity reaching advanced true cob maturity
- In trials Agiraxx produces the silage with the highest total digestibility
- High dry matter, starch and M.E yields ensure maximum livestock performance
- Early leaf dry down combines well with grain maturity allowing early harvesting
- A very bold plant with large uniform well formed and enclosed cobs
- A robust variety with good early vigour ensures rapid establishment
- Available with wireworm treatment (limited) 

Mesurool & Thiram treated, 50,000 seed packs

Bred by 

### Characteristics

Maturity	9
Dry Matter Yield %	108
Dry Matter %	35.25
Starch Content %	34.2
ME (MJ/kg)	11.6
Cell Wall Digestibility %	57

Independent trials figures

MAIZE SEED

 | Grow to expect the best

# RGT AGIRAXX

FORAGE MAIZE



Winner of Multiple Awards Nationally



FORAGE MAIZE



## KWS EDGARD (EARLY F.A.O 170)

New for 2019

KWS EDGARD is an extremely robust three way cross Forage Maize hybrid bred by KWS.

EDGARD provides high forage DM yields and rapid early vigor.

NIAB and independent UK trials Edgard has achieved top Dry Matter yields 2014 onwards.

### Benefits

- EDGARD has high grain content with 12 – 14 kernel rings for an above-average starch content
- Fully enclosed cob sheath coverage
- Top DM yield in its class - across NIAB trials (106 Rel. DM Yield)
- Extremely good early vigor on all soil types (7.6)
- Very high starch (34.3%) and ME content, 11.4 MJ/Kg from early cob maturity
- Good all round disease tolerance including Eyespot and Fusarium
- Bred by KWS – one of Europe's leading maize breeders
- Proven to be suitable for a wide range of growing and soil situations
- Versatile variety suitable for forage and biogas production
- Proven to be exceptionally stable in yield and performance

**Mesuroil & Thiram treated, 50,000 seed packs**

### Characteristics

Maturity	9
Dry Matter Yield %	106
Dry Matter %	36
Starch Content %	34.3
ME (MJ/kg)	11.4
Cell Wall Digestibility %	58



Bred by

## LikeIT ✓ (MAINSTREAM F.A.O 190)

A very robust hybrid showing well above average digestibility with high starch yields.

In NIAB trials Likelt shows the highest scores for all round disease resistance.

Likelt presents an exceptionally large cob which is fully enclosed.

### Benefits

- Likelt shows very good early vigour combine highest standing power scores
- Highest cell wall and whole plant digestibility %'s in UK National List Trials
- Good all round disease tolerance including Eyespot and Fusarium (0%)
- Likelt is bred from Europe's most proven breeding programme
- Proven to be suitable for a wide range of growing and soil situations
- A versatile variety which is reliable for forage, energy and grain production
- Likelt's high energy density is ideal for rations involving high proportions of maize silage and anaerobic digestion.
- Excellent cob retention with the highest lodging and brackling scores
- Well suited and proven for Biogas and Grain production

**Mesuroil & Thiram treated, 50,000 seed packs**

### Characteristics

Maturity	7
Dry Matter Yield %	108
Dry Matter %	34.3
Starch Content %	33
ME (MJ/kg)	11.3
Cell Wall Digestibility %	60



Best for  
Biogas

Bred by



Marketed by



For orders and advice call **01531 822833**



## NEW FOR 2019

Continued evaluation of new varieties is imperative to ensure we offer maize varieties to suit all situations and maximise farm profit. These varieties need to show a superior combination of outstanding quality, yield and agronomic characteristics.

### ABRISSE (MAINSTREAM F.A.O 190)

Very consistent single cross variety, producing large strong plants with very good grain fill and uniform cobs.

A dual use maize variety with high fibre, good digestibility and excellent forage qualities making it suitable for forage or biogas.

#### Benefits

- High fresh yields combined with high energy starch yield.
- A robust plant type with good early vigour and forage production
- Large root system gives excellent drought tolerance
- Big strong plant for its maturity group, with high dry matter yield
- Well proven for biogas where yield and early maturity required
- A slightly greener plant results in a highly digestible good quality silage is clamped with high ME
- Very good all round resistance
- Produces enclosed well-formed mature cobs.

#### Characteristics

Maturity	7
Fresh Yield %	34
Dry Matter Yield %	105
Dry Matter %	34
Starch Content %	32.5



Bred by



### ISBERI (BUDGET FORAGE/BIOGAS F.A.O 200)

- A proven UK maize variety with good yields
- Produces a strong and bulky plant
- Most suited to favourable sites and early sowing
- An economically priced and reliable variety
- Successfully used for forage and biogas production
- Good all round agronomic characteristics

#### Characteristics

Maturity	6
Dry Matter Yield %	102
Dry Matter %	32.8
ME (MJ/kg)	11.1

Previous NIAB figures

Bred by



**Mesuroil & Thiram treated, 50,000 seed packs**

