#### Choosing the Correct Forage Maize Maturity Class for Your Field

The aim of this proforma is to provide guidance to growers as to the suitability of their individual fields for maize and, if a field is suitable, direction to the most appropriate maturity class.

Growers should use the form (Step 9) to collate a score/maturity class for their field. If a field scores more than 12 (the earliest maturity variety on the list) then its suitability for maize should be questioned and alternatives such as biodegradable film or wholecrop cereal silage considered.

#### • <u>Step 1</u>

What is your target harvest date?	
	Your score
15 <sup>th</sup> - 22 <sup>nd</sup> September	3
23 <sup>rd</sup> - 30 <sup>th</sup> September	2
1 <sup>st</sup> - 7 <sup>th</sup> October	1
8 <sup>th</sup> - 15 <sup>th</sup> October	0

Harvest should be targeted at
mid to late September to
optimise the yield and quality of
maize silage. The later the crop is
harvested, the greater the risk of
run- off and soil erosion.
Earlier harvest also provides an
opportunity to drill following
crops in a timely manner.
In cooler summers maturity will
be slower and consideration
should be given to this when
choosing the most suitable
variety.

### • <u>Step 2</u>

What is your target drilling date?	
Your score	Maize matures at a standard rate.
Before 10 <sup>th</sup> April 0	As a consequence harvest date will be sooner for earlier drilled
10 <sup>th</sup> - 20 <sup>th</sup> April 1	crops. Note : Maize drilling date should
21 <sup>st</sup> - 30 <sup>th</sup> April 2	be based on soil temperature and ground conditions at the time, in
1 <sup>st</sup> - 10 <sup>th</sup> May 3	preference to date.
After 10 <sup>th</sup> May 4	

### • <u>Step 3</u>

What is the altitude of your field?		
	Your score	
0 - 45m	0	
46 -90m	1	
91 – 135m	2	
136m +	3	
What is the Aspect of your field?		
	Your score	
North Facing	1	
Highly exposed to wind	1	

Altitude does have an effect on the maturity of the crop, but this can be outweighed with south facing slopes. So, if you are growing in the more marginal higher areas, ensure that the crop is grown on a south-facing slope if possible. North facing and or exposed fields will be slower to mature than others.

### • <u>Step 4</u>

What are your likely field characteristics? Light / Fine	Your score 0	Soil type affects seedbed preparation and quality; the ability to retain moisture during the growing season will influence
Medium / Good	1	harvesting conditions. Therefore, fields that are likely to produce a cloddy seedbed or give rise to
Heavy / Cloddy	2	difficult harvesting conditions should be allowed for.
V Heavy / V Cloddy	3	

### • <u>Step 5</u>

What is your annual rainj	fall? Your score	When soil becomes wet it generally gets colder leading to
Low (250mm-675mm)	0	slow maize growth.
Medium (700-975)	1	In high rainfall areas soil wash and erosion is also more of a
High (1000mm+)	2	concern.

# • <u>Step 6</u>

What is the average gradient of your field?

	Your score
<3° Slight	0
4–8° medium	1
>9° steep	2

While water will runoff any compacted field whether flat or sloping, the speed built up when running off steeper fields can result in more damage being caused.

### • <u>Step 7</u>

How close to the lowest edge of your field to a watercourse, and or road, and or building, and or other environmental feature eg SSSI etc?

	Your score	
More than 100 metres away	0	
10 – 100 metres away	1	While soil movement within your own fields is not ideal, such, within field movement, is not as
Within 10 metres with buffer/hedge	2	challenging to the environment as that which leaves the farm.
Within 10 metres no buffer/hedge	3	

## • <u>Step 8</u>

Which county are you in?

#### Please select from the table

County	Score	County	Score
Berkshire	0	Lincolnshire	1
Buckinghamshire	0	Norfolk	0
Cambridgeshire	-1	Northamptonshire	1
Cheshire	1	Nottinghamshire	1
Cumbria	2	North & Mid Wales	2
Devon & Cornwall (North)	2	Northumberland	3
Devon & Cornwall (South)	1	Oxfordshire	0
Derbyshire	2	Scotland	3
Dorset	0	Shropshire	0
Durham	2	Somerset	0
Essex	-1	Staffordshire	1
Gloucester	0	South Wales	1
Glamorgan	1	Suffolk	0
Gwent	1	Surrey	0
Hampshire	-1	Sussex	-1
Herefordshire	0	Warwickshire	1
Hertfordshire	0	Wiltshire	0
Kent	-1	Worcestershire	1
Lancashire	1	Yorkshire (North)	2
Leicestershire	1	Yorkshire (South)	1

# • <u>Step 9</u>

Use this table to record your scores from the above questions. The Total Score equates to the most appropriate maturity class for that field. If a field scores more than 12 (the earliest maturity variety on the list) then its suitability for maize should be questioned and alternatives such as biodegradable film or wholecrop cereal silage considered

Factor	Your Score	
1. Harvest date		
2. Drilling date		
3. Altitude/Aspect		
4. Soil characteristics and seedbed quality		
5. Annual rainfall		
6. Gradient		
7. Proximity of environmental features		
8. County		
Total Score	*	
* Now go to the table of varieties with the same MGA group number as your score		