Plaa Plar The Plea • Tr • All • Ca • Alt The	The Animal and Plant Health Agency Scottish Government Department of Agriculture and Rural Development The Chancel Questionnaire (MAIZE) Plant Varieties Act 1997 and The Seeds (National Lists of Varieties) Regulations 2001 (as amended) Please note: • The completed TQ and the application will form part of the public record for this variety. • The seed submitted for DUS in the first year will be regarded as the definitive stock. • All relative sections of this form must be completed. An incomplete form may result in a delay in processing the application. • Completed forms should be e-mailed to NLPBR-Applications@apha.gsi.gov.uk • Alternatively forms may be sent to: The Animal and Plant Health Agency, Eastbrook, Shaftesbury Road, Cambridge, CB2 8DR								
	phone 0208 026 5993. tion 1 - Application D	etails							
(a)	National Listing (NI]	Pla	ant Breed	ers' Rig	hts (Pl	BR)	Parental Line (PL)
(b)	Species: Latin name	Ze	a mais	L.		Gr	ain ma	aize	Forage maize
(C)	Common name								
(d)	Please give details of a	1.	ons alrea						
	Country	Date		Appl	ication No	. NL	PBR	Va	ariety name or Breeders' reference
(e)	Has an application for	Europea	an Comr	nunity	Plant Breed	lers' Righ	ts (ECI	PBR)	been made? Yes No
		lt	' Yes ', I	Please	state date	e of appli	cation		
	tion 2 – Applicant de								
(a)	Name and address ofNational Listing:	applica	nt for						
	• National Listing.								
	Plant Breeders' F (if different)	Rights							
	(if different)								
	Name and address								
	of breeder:								
	Name and address for								
	Name and address for correspondence:								
	Is the address for:								
	service	or							
	agent								
	gent is authorised to act						cation, i	incluc	ding instructions to withdraw applications,
_	te from a National List			'lant B	reeders' R	ights			
	tion 3 - Variety denor Where appropriate pro			tudona	mination				
(a)									T-1
/L\		an /l							
(b)	Provisional designati	on (bre	eaer's r	iame/r	eterence)				T-1

Sect			mation on origin, maintenance and reproduction of the variety	
4.1	data If 'yes If 'no	relate s', plea	the details and data relating to components of hybrid varieties including d to their cultivation to be treated as confidential? Yes No ase give this information on the separate form for confidential information. Se give information on data relating to the components of hybrid varieties including data related to tion.	:0
	Breed	ding so	cheme (indicate female component first)	
4.2	Туре	of ma	iterial	
	(a)	inbre	ed line	
	(b)	Sing	le-cross hybrid	
	(C)	Thre	e-way hybrid	
	(d)	Dout	ple-cross hybrid	
	(e)	Oper	n-pollinated variety	
	(d)	othe	r (please indicate formula)	
		-	Ilting from:	
	1.	Cros	sing	
		(a)	Controlled cross (please state parent varieties)	
		(b)	Partially known cross	
		()	(please state parent variety/ies)	
		(c)	Unknown cross	
	2.	Muta		
		(plea	se state parent variety)	
	3.	Disc	overy and development	
	0.		Ise state where and when discovered and how developed)	
			Γ	
	4.	Othe		
		(piea	ise provide details)	
		1		

4.3			propagating the variety		
	4.3.1		he case of hybrid varieties the production all the parental lines for propagating the		ould be provided. This should provide details
		(a)		nybha eg	
		14/	Single hybrid	٦ 、	[]
				Х	
			female parent line		male parent line
		• •	Three-way hybrid		г
		sinę par	gle hybrid (below) used as female ent	x	
		μα.			male parent line
		or		x	single hybrid (below) used as male parent
		с		^	
				7	İ
				x	
			female parent line	single hybrid	male parent line
		(C)	Double hybrid		
				-	
				x	
			female parent line single h	ybrid used as f	female parent male parent line
		[======================================
				x	
			female parent line single l	^ hybrid used as	male parent male parent line
		i 			
		and	(single nybrid used as female pare should identify in particular:	ent) x ((single hybrid used as male parent)
		(i)	any male sterile female parent lines		
		(1)	ally male sterile lemale parent mes		
		(ii)	maintenance system of male sterile f	emale parent li	ines
	4.3.2		Open pollingted variation		
			Open-pollinated varieties		
	4.3.3		Other (please provide details		
44	Mana	aina	the risk of adventitious GM presenc	•	
		3		-	
(a)	I ne re	gion	and the country in which the variety wa	as bred or disc	overed and developed
(b)	Count	ry of	origin of the seed of the candidate var	iety	
(C)	Δre v(rrently a participant in the voluntary AG	 MD risk audit i	programme run by the GM Inspectorate for
(0)	•		n behalf of Defra?		
	-			Yes	
			ase provide an assessment of your com	pany's quality	assurance measures with respect to
	adven	titiou	is GM presence in conventional seed		

		ety to be indicated (the number in brackets re ase mark the state of expression which best	
	Characteristic	Example varieties	Note
5.1 (6)	Tassel: time of anthesis		
	Very early		1
	Very early to early	KW1069, Spirit (SC)	2
	Early	F257, Champ (SC)	3
	Early to medium	F259, Centurion (SC)	4
	Medium	F522, Zenith (SC)	5
	Medium to late	A632	6
	Late	B73	7
	Late to very late	AM1513	8
	Very late		9
5.2 (7)	Tassel: anthocyanin colouratio	n at base of glume	
. ,	Absent or very weak	W117, Royalty (SC)	1
	Weak	F66, Boston (SC)	3
	Medium	F107	5
	Strong	EP1	7
	Very stong		9
5.3 (14)	Ear: anthocyanin colouration a	t base of silks	
	Absent or very weak	F7, F195, Bonus (SC)	1
	Weak	F257, El Toro (SC)	3
	Medium	F244, Gyöngymazsola (SC)	5
	Strong	W401	7
	Very stong		9
5.4.	Only hybrids and open-pollina Plant: length	ated varieties	
(22.2			
	Very short		1
	Short	PR39D23	3
	Medium	PR37Y12	5
	Long	DKC5166	7
	Very long		9

	Characteristic	Example varieties	Note
5.5 (34)	Ear: type of grain		
	Flint	F2	1
	Flint-like	F252	2
	Intermediate	F107	3
	Dent-like	A654	4
	Dent	W182 E	5
	Sweet	Jubilee (SC)	6
	Рор	lowa pop (SC)	7
	Waxy		8
	Flour		9
5.6 (37)	Ear colour of dorsal side of gr	ain	
(01)	White	F481	1
	Yellowish-white	A188	2
	Yellow		3
	Orange yellow	F66	4
	Orange	EP1	5
	Red Orange		6
	Red	lowa pop (SC)	7
	Purple		8
	Brownish		9
	Blue black		10
5.7 (39)	Ear: anthocyanin colouration	of glumes of cob	
(- <i>-</i>)	Absent of very weak	F2, F257	1
	Weak	F252	3
	Medium	W117	5
	Strong	A632	7
	Very strong		9
Sect	ion 6 – Similar varieties and dif	ferences from these varieties:	

Denomination of	Characteristic in which the	State of expression of	State of expression of
similar variety	similar variety is different ¹	similar variety	candidate variety
Similar variety	Similar variety is unreferit	Similar variety	candidate variety

¹ In the case of identical states of expression of both varieties, please indicate the size of the difference.

Sect	ion 7 – Additional information which m Resistance to pests and diseases	nay help to distingu	ish the varie	ty	
7.2	Special conditions for the examinatio	n of the variety			
	Yes, please specify	Ĭ			
	No				
	If it is agreed to carry out a special DUS	test an appropriate	charge will be	elevied	
7.3	Other information				
	Yes, please specify				
	No				
Soci	ion 8 - GMO and other Novel types				
5601	Does this application relate to a Genetication	ally Modified Organi	sm as de <u>fine</u> d	in Section 106 of the	
	Environmental Protection Act 1990?		Yes	No	
	If "Yes" you must complete form PVS9/B	Genetically Modifie	d and other N	lovel Candidates.	
Sect 9.1	ion 9 - Information on plant material to The expression of a characteristic or sev		of a variaty m	ay be affected by factors, such as	<u> </u>
9.1	pests and disease, chemical treatment (,
9.2	The plant material should not have unde				
	characteristics of the variety, unless the material has undergone such treatment,				
	indicate below, to the best of your knowl				
	(a) Micro-organisms (eg virus, bacteria,	phytoplasma)	Yes	No	
	(b) Chemical treatment (eg growth retard	dant or pesticide)	Yes	No	
	(c) Tissue culture		Yes	No	
	(d) Other factors		Yes	No	
	Please provide details of where you have	e indicated "Yes"			
Sect 10.1	ion 10 - Value for Cultivation and use (Standard VCU characters and agreed			oses only)	
10.1	The obligatory VCU characters measured			ld in the VCU procedures	
	at https://www.gov.uk/guidance/vcu-prote				
	or are available from the Animal and Plan characters (shown in italics in the VCU pr that they be measured. Additional fees v	ocedures). If you wis	h any of these	e to be assessed, you must reques	
	Do you wish any optional characters to b	e measured?	-	Yes No	
	If 'Yes' please give details				'

10.2 Additional VCU characters
Are there any non-standard characters to be measured? Yes No
If 'Yes' please provide details of the proposed test to APHA. The characteristic being tested for must have Value for Cultivation and Use. The test must be able to demonstrate whether the candidate has the characteristic and be statistically valid. The agreement of the UK National Authorities is required before special tests can be undertaken and additional fees will be charged.
10.3 Other factors for VCU assessment Are there any other factors that should be taken into account for the VCU accomment (e.g. succentibility to commercial
Are there any other factors that should be taken into account for the VCU assessment (e.g. susceptibility to commerci
herbicides, special uses, agronomic characteristics, pest/disease resistance)? Yes No
If 'Yes' please give details
Declaration
I/We declare that to the best of my/our knowledge and belief the statements made in this Technical Questionnaire are correct
Signature of Applicant Date
(original signature unless emailed)
Name in BLOCK letters
For and on behalf of