# THE UNITED STATES OF AMERICA

#### TO ALL TO WHOM THESE PRESENTS SHALL COME:

# Maribo Seed International Aps.

Whereas, THERE HAS BEEN PRESENTED TO THE

### Secretary of Agriculture

An application requesting a certificate of protection for an alleged distinct variety of sexually reproduced, or tuber propagated plant, the name and description of which are contained in the application and exhibits, a copy of which is hereunto annexed and made a part hereof, and the various requirements of LAW in such cases made and provided have been complied with, and the title thereto is, from the records of the PLANT VARIETY PROTECTION OFFICE, in the applicant(s) indicated in the said copy, and Whereas, upon due examination made, the said applicant(s) is (are) adjudged to be entitled to a certificate of plant variety protection under the LAW.

Now, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of TWENTY years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or conditioning it for propagation, or stocking it for any of the above purposes, or using it in producing a hybrid or different variety therefrom, to the extent provided by the PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)



Attest:

No.

Commissioner Plant Variety Protection Office Agricultural Marketing Service

#### PEA, FIELD

201400192

#### 'JETSET'

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In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this fourteenth day of August, in the year two thousand and fifteen.

leun J. Vilal

Secretary of Agriculture

# 2014 FEB 21 PH 2:55

REPRODUCE LOCALLY. Include form number and date on all reproduce	ctions							Form Approved - OMB No. 0581-0055		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTIO	IN OFFICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.								
APPLICATION FOR PLANT VARIETY PROTECTION CERTI (Instructions and information collection burden statement on re	FICATE everse)	Application is required in order to determine if a plant vanety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).								
1. NAME OF OWNER		2. TEMPOR	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 3. VARIETY NAME							
Maribo Seed Internationa	I Aps.	DS	496	30			JETSET			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Cod	e, and Country)	5. TELEPH	ONE (include a	area code)		-		FOR OFFICIAL USE ONLY		
Højbygaardvej 31, 4960 Holeby, De	enmark	<b>743 3</b>	44007	00				201400192		
		+ 45	544607	ักร		-	FIL INO	201400172		
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)	DRATED, GIV ON	E STATE OF	9. DATE OF	INCORPORATIO	N	FILING	2/21/2014			
				NE (Include a	ama codo)		F			
APPLICATION. (First person listed will receive all papers)	ERVEINTHIS						Ē	\$ 4,382		
Mr. Lars Andersen Maribo Seed International Aos.			+45 :	0440	0700		s	date 2/21/2014		
Højbygaardvej 31			12. FAX (Inclu	ide area code	)		E	CERTIFICATION FEE:		
Denmark		+ 45	544	16070	3	D.	DATE			
13. E-MAIL										
lars.andersen@mariboseed.com				200				ME (Potonical)		
Field Doo	Digun	n eativ		CRUP				inceao		
		HE VARIETY				LCY	ES THE OWNER SPECIFY THAT SEED OF THIS			
		YES NO						DLD ONLY AS A CLASS OF CERTIFIED		
		Act)						solon us(a) of the Frank Vanciy Froteonon		
	IF YES, PLE NUMBER FO GENETICAL	EASE GIVE THE ASSIGNED USDA-APHIS REFERENCE OR THE APPROVED PETITION TO DEREGULATE THE LLY MODIFIED PLANT FOR COMMERCIALIZATION.					ES (If "yes", answer items 21 and 22 below) IO (If "no", go to item 23)			
							NDECIE	DED		
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMIT (Follow instructions on reverse)	FTED		21. DO NU	ES THE OWN MBER OF CL	ASSES?	AT SEED (	OF THIS	S VARIETY BE LIMITED AS TO		
a. Exhibit A. Origin and Breeding History of the Variety			IEN							
b. Exhibit B. Statement of Distinctness			22. DO	ES THE OWN		AT SEED (				
c. Exhibit C. Objective Description of Vanety			OF GEN	ERATIONS?						
d. D Exhibit D. Additional Description of the Vanety (Optional)			IF YES.	J YES SPECIFY TH	LI NO E NUMBER 1.2.3.	etc. FOR	EACH	CLASS.		
e. Exhibit E. Statement of the Basis of the Owner's Ownership				FOUND	ATION	REGISTE	RED	CERTIFIED		
r. E Filing and Examination Fee (\$4,382), make checks payable to (Mail to the Plant Variety Protection Office) other methods of pay	ment explained i	in the instruct	ions (If additi	onal explanat	tion is necessary, p	olease use	the spa	ce indicated on the reverse.)		
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OTHER COUNTRIES?	OR A HYBRID F , OR USED IN T	PRODUCED HE U. S. OR	24. IS 1 PROPE	THE VARIETY RTY RIGHT (	OR ANY COMPC	ONENT OF R'S RIGHT	THE V. OR PA	ARIETY PROTECTED BY INTELLECTUAL TENT)?		
E YES 🗆 NO				YES	D NO					
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSI	TION, TRANSFE	ER, OR USE	FOR IF YES		E COUNTRY, DA		ING OF	R ISSUANCE AND ASSIGNED		
25. The owners declare that a viable sample of basic seed will be fund accordance with such regulations as may be applicable. For y uber pro- repository within three months of the date of the certificate fe- the undersigned owner(s) is (are) the owner(s) of this sexually repor- entitled to protection under the provisions of Section 42 of the security yar.	shed directly to a opagated variety etter. These will be or tuber prop iety <b>Ory</b> ction A	an acceptable or vegetative be maintaine pagated plant act. Owner(s)	depository in a propagated p d for the durat variety, and b is (are) inform	support of the arent of the va- ion of the cert elieve(s) that t ed that false r	<ul> <li>variety within threater use s ariety, a tissue cult tificate."</li> <li>the variety is new, representation here</li> </ul>	e months c ture or vege distinct, ur ein can jeo	of filing. etative s niform, a pardize	Seed will be replenished upon request in sample will be deposited in a public and stable as required in Section 42, and is protection and result in penalties.		
SIGNATURE OF OWNER	4 10 31, Dr	nation	SIGNAT	JRE OF OWN	ER					
Jan Anderse	100700	4960 Hou	Aps							
NAME (Please print or type)			NAME (F	Please print or t	type)					
Lars Andersen										
CAPACITY OR TITLE DATI	E		CAPACI	TY OR TITLE		[	DATE			
Product Manager 7-	-Feb-2	014								

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Continuation Page from ST - 470 (Application for Plant Variety Protection Certificate)

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

**23. CONTINUED FROM FRONT** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Sales of high grade seed t	o Licensee only for the purpose of see	d production only	
Date of sales to Licensee	Generation of seed sold to Licensee	First public sales of certified seed	
25-02-2008	Pre Basic	Feb/March 2010	
15-03-2011	Breeders Seed	No public sales prior to present date	
	Sales of high grade seed t Date of sales to Licensee 25-02-2008 15-03-2011	Sales of high grade seed to Licensee only for the purpose of seeDate of sales to LicenseeGeneration of seed sold to Licensee25-02-2008Pre Basic15-03-2011Breeders Seed	Sales of high grade seed to Licensee only for the purpose of seed production onlyDate of sales to LicenseeGeneration of seed sold to LicenseeFirst public sales of certified seed25-02-2008Pre BasicFeb/March 201015-03-2011Breeders SeedNo public sales prior to present date

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

European Union Application date: 18-July-2008. Grant date: 04-April-2011. No: EU29410.

	US DEPARTMENT OF A			FOR OFFICIAL USE ONLY				
S	AGRICULTURAL MARKE	TING SERVICE ARIETY PROTECTION OFFICE		PVPO NUMBER				
APPLIC	CATION FOR PLANT VARIETY	PROTECTION CERTIFICATE						
Name of Ourner	EXHIBIT A - ORIGIN AND B ** Use additional pages	s as needed.	rimontal Nama	2 Variate Nama				
I. Name of Owner		2. Temporary Designation of Exp	cimental Name	5. Variety Ivanie				
Maribo Seed II	nternational Aps.	DS 49630		JETSET				
<ul> <li>4. Describe the genealogy (the Last cross: 1996: Original crosses in RIGEL)))</li> <li>F2 field in DK 199</li> </ul>	oack to and including public and control (EIFFEL x BACCAF n years: 1996:((1993	ommercial varieties, lines, or clone RA) x ((RENATA x ( B ::(EIFFEL x BACCAR	s used) and the brea OHATYR x A) x (1988:	eding method(s). ** M420062=RIGEL)) (RENATA x (1982: (BOHATYR >				
Single Seed Desc Selection of F9 sin	endant generation F ngle plant no. 73 in D	3-F9 1998-2000. In D DK Field 2001	РК					
5. Give the details of subseq	uent stages of selection and multi	plication. **						
Year 1997	Det F2	ail of Stage	Selection f	Selection Criteria for large round yellow seed bods, strong plants				
1998-2000	F3 - F8		No selection	on apart from seed type				
2001	F9		Selection of	of nice productive single pl.				
2002	F10		Pure line s mity, seed	vield and lodging resistance				
2003	F11		First yield	trials				
2004	F12		Second ye	ar of multi location trials				
2005	F13		First year o	of Official trials in AT. Registered in 2007				
6. Is the variety uniform?	Ves No							
How did you test for uniform	nitv?							
Single plants were to the original line. together in bulk and official d.u.s. test pe	harvested as F9 in 200 This was repeated in F d represented the first t erformed in the AT fron	1. Progeny were grown 11 but this time as main preeder seed quantity n 2005 to 2007.	as lines a contenance plot IETSET was	ompared with each other as well as ts. All uniform plots were harvested also tested for uniformity during the				
7. Is the variety stable?	Yes No							
How did you test for stability	? Over how many generations?							
In the process of unit 2001. in 2003 new si This was repeated ag	formity test described ab ngle plants were pulled o gain in 2007. So in total o	ove the individual mainter out and another cycle of n JETSET has performed u	nance lines we naintenance li niform and sta	ere compared to the original line from ines, plots and bulk was conducted. able over 6 generations after F10.				
8. Are genetic variants observed	rved or expected during reproducti	ion and multiplication? Yes	No No					
If yes, state how these varian	ts may be identified, their type and	d frequency.						

ST - 470 (2012) designed by the Plant Variety Protection Office

# Jetset

## Exhibit B

Jetset is most similar to the variety Admiral, however Jetset differs in the following way.

- 1. Jetset has a longer pod than Admiral
  - 70.6 mm for Jetset vs. 63.51 mm for Admiral
- 2. DS Admiral is resistant to powdery mildew and Jetset is suseptable.

# Jetset vs. Admiral Pod Length

		Jetset	Admiral		- C. 1	Jetset	Admiral
	1920	mm	mm			mm	mm
Year	Location			Year	Location		
2014	Carrington, ND	68.31	61.64	2014	Minot, ND	72.25	61.09
		73.27	64.58			72.25	70.16
		70.05	65.20			74.71	58.66
		63.46	62.99			66.53	62.08
		68.91	68.09			73.56	63.46
		67.37	70.35			73.04	62.48 0
		67.36	67.76			73.50	59.27 ill
		67.95	63.78			73.60	69.85 <u>U</u>
		75.69	61.31			66.53	64.15
		73.64	69.10			71.61	65.15
		69.79	59.42			72.46	64.33
		74.56	64.76			67.74	59.05
		66.63	65.30			71.16	63.73
		72.45	64.54			71.26	55.28
		68.61	61.28			68.31	59.77
		70.54	63.70			72.36	62.47
		70.23	64.53			72.77	64.73
		70.93	68.17			69.02	63.51
		71.94	62.80			66.71	60.69
		73.08	63.58		and a state	69.88	57.52
	Same .	70.24	64.64			70.96	62.37

# **Analysis of Variance**

## Jetset vs. Admiral

## 2014 Carrington, ND

Variable: Pod Length - mm

Source	df	SS	MS	F-value	Pr> F	
Total	39	642.525				
BLOCK	19	152.240	8.013	0.86	0.6284	
ENTRY	1	312.984	312.984	33.54	0.0000	
Residual	19	177.302	9.332			
And the second second second			Children Children			

Grand mean = 67.441 R-squared = 0.7241 C.V. = 4.53%

LSD for ENTRY = 2.0219, S.E.D. = 0.9660, r= 20.0, Herit. = 0.619 t (2-sided a=0.050, 19 df) = 2.0930 MSE = 9.33166 Genetic variance = 15.1826, Phenotypic variance = 24.5143 Standard error of heritability = 0.3526, Bias = 0.5017

#### ENTRY

Averages Level --- Y --- Cv Rank

1 70.24 4.3 1 Jetset 2 64.64 4.2 2 Admiral

POD LENGTH Means Separation Table - LSD = 2.022

#### ENTRY MEAN SIGNIF

1 70.24 a 2 64.64 b

# **Analysis of Variance**

## Jetset vs. Admiral

## 2014 Minot, ND

Variable: Pod Length - mm

Source	df	SS	MS	F-value	Pr> F	
Total	39	1128.417		A CALL ST		
BLOCK	19	233.053	12.266	1.48	0.1997	
ENTRY	1	738.053	738.053	89.14	0.0000	
Residual	19	157.311	8.280	S. S. S.	End and and	
					and the second s	

Grand mean = 66.667	R-squared = 0.8606	C.V. = 4.32%
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LSD for ENTRY = 1.9045, S.E.D. = 0.9099, r= 20.0, Herit. = 0.815 t (2-sided a=0.050, 19 df) = 2.0930 MSE = 8.27952 Genetic variance = 36.4887, Phenotypic variance = 44.7682 Standard error of heritability = 0.2212, Bias = 0.3085

#### ENTRY

Averages Level — Y — Cv Rank

1	70.96	3.7	1 Jetset
2	62.37	5.9	2 Admiral

POD LENGTH Means Separation Table - LSD = 1.904

ENTRY MEAN SIGNIF

1 70.96 a 2 62.37 b

# NDSU Carrington Research Extension Center 2014 Variety Trial Data

Field Pea	1.2.1.1.1.	march	1000	The second	1	1. 2.5	Nº SAS					Carrin	gton (Pa	ige 1 of 3)
				Canopy			- Harves	st Ease <sup>2</sup>	-				Seed	l Yield
	Days to	Days to	Vine	Ht at	Height	Lodge		3-vr.	Seed	Seeds/	1000	Test		≥ 3-vr.
Variety	Bloom	PM	Length	Harvest	Index <sup>1</sup>	at PM	2014	Avg.	Protein	Pound	KWT	Weight	2014	Avg.
2.41 1991	1.2 1.2 3	1.5	inch	inch	%	0 to 9	0	- 9	%		gram	lb/bu	bi	100ac
Yellow Cotyledo	n Type		mon		10						Brunn			
Agassiz	56.5	91.8	36.5	22.2	60.8	0.5	6.3	4.2	25.7	1763	258	63.6	80.4	Q 69.3
DS Admiral	55.8	87.0	33.7	16.8	50.2	3.3	5.8	2.8	25.9	1837	247	63.8	62.0	58.3
CDC Meadow	56.0	88.8	32.8	18.6	56.8	2.5	6.0	4.4	25.2	2000	227	65.0	71.0	64.1
Bridger	55.0	88.8	34.8	20.3	58.1	2.0	7.0	3.0	25.3	1838	247	63.9	74.1	66.2
Spider	58.3	90.8	34.2	17.5	51.3	2.3	5.8	4.0	25.7	1723	264	64.6	80.3	66.2
Navarro	50.3	88.8	33.6	16.6	49.5	3.5	5.5	3.4	25.5	1661	273	64.0	73.7	64.0
Salamanca	59.8	91.0	36.8	20.6	56.3	1.8	7.0	4.1	26.5	1700	267	64.0	74.2	64.4
Gunner	58.3	91.3	35.0	20.9	59.7	1.0	6.5	4.1	25.1	1820	250	63.9	73.0	63.2
Vegas	58.8	90.3	39.8	21.2	53.2	2.0	6.8	3.1	26.0	1846	246	64.3	75.9	65.0
Yellowstone	50.3	86.0	34.1	17.7	52.0	3.3	5.3		25.2	1633	278	64.0	65.0	
Hyline	58.3	91.3	36.2	16.7	46.2	2.0	5.8	-	24.8	1671	272	64.4	76.8	
Jetset	56.3	88.3	34.8	18.8	53.9	3.0	6.3		25.2	1786	254	63.5	76.7	
Earlystar	56.3	88.8	37.3	22.6	59.8	1.8	6.8		24.0	2022	225	63.2	77.7	
LN4228	52.3	92.0	37.3	22.4	60.0	1.0	7.3	3.1	26.4	1607	283	64.6	74.6	64.3
CM3404	60.5	91.3	34.3	19.7	58.3	1.8	6.5	4.7	25.5	1471	309	63.9	74.0	67.4
LN4236	58.0	92.0	34.9	19.0	55.9	2.0	5.8		26.7	1749	260	64.0	80.9	
N08056-092	54.5	89.5	35.7	16.3	45.9	2.8	5.8		25.5	1891	240	63.4	78.4	
N08056-099	57.0	92.8	36.9	18.0	48.8	1.3	6.5		26.8	1767	257	63.1	78.1	
UN F377	52.8	88.8	33.9	16.9	50.1	4.3	5.3		25.4	1812	251	63.7	74.5	
CM1609	62.3	91.3	38.5	23.4	61.2	1.5	6.5		24.9	1367	332	63.6	70.9	
PSTSP16	60.0	89.3	35.8	20.0	55.9	1.5	7.0		25.4	1750	260	63.4	67.9	
PSTSP17	59.5	91.5	35.8	18.7	52.4	1.8	6.3		26.1	1580	287	63.4	73.0	
SW Midas	57.0	88.8	35.5	15.9	45.2	3.3	5.0	4.0	25.1	2077	219	64.0	71.9	64.3
MEAN	56.6	90.5	35.6	19.1	53.7	2.2	6.1		25.5	1767	259.6	64	73.9	
C.V. (%)	1.5	1.7	6.9	12.1	13.5	53.6	11.0		2.4	3.3	3.2	1.0	8.0	
LSD 0.10	0.8	1.4	2.2	2.1	6.6	1.1	0.6		0.7	53	7.6	0.6	5.3	
LSD 0.05	1.2	2.1	3.4	3.2	10.1	1.6	0.9		0.8	81	11.6	0.9	8.2	

Planting Date = May 1; Harvest Date = August 11; Previous Crop = Spring Wheat

## NDSU Carrington Research Extension Center 2014 Variety Trial Data

Field Pea	S. 6. 20.	Rua M	20.3	10.200		284	No. No. Co	3 262	-			Carrin	gton (Pag	ge 2 of 3)
				Canopy			- Harves	st Ease <sup>2</sup>					Seed	Yield
Variety	Days to Bloom	Days to PM	Vine Length	Ht at Harvest	Height Index <sup>1</sup>	Lodge at PM	2014	3-yr. Avg.	Seed Protein	Seeds/ Pound	1000 KWT	Test Weight	2014	Avg.
rarety	Divoin		inch	inch	%	0 to 9	0	- 9	- %		gram	lb/bu	bu	
Yellow Cotyledon	Туре		men								8			5
Abarth	55.8	90.3	36.2	19.7	54.6	2.0	6.0		23.6	1616	281	64.5	80.9	5
Nette	55.3	87.8	34.9	17.3	50.1	2.0	6.3	3.3	25.0	1960	232	64.6	75.9	5 65.7
Korando	51.5	91.0	34.7	18.4	53.1	2.3	5.8	3.8	26.8	1719	264	64.4	69.5	68.6
Mystique	56.8	93.0	36.9	21.0	57.2	1.3	7.3	4.3	25.0	1630	279	63.6	74.1	65.1
Durwood	58.0	90.8	39.0	22.3	57.4	1.0	6.8		25.5	1712	266	63.6	74.2	
PUSA 11001-2	50.0	88.5	34.7	19.4	56.1	3.0	6.0	2.9	25.9	1698	267	63.5	74.8	65.8
PUSA 11002	51.5	89.5	33.6	18.1	54.4	2.5	5.3	3.6	26.7	2169	209	64.4	69.7	64.3
PUSA EXP 1300	56.8	92.8	34.0	20.2	59.4	1.3	6.5		26.6	1812	251	63.8	68.1	
PUSA EXP 1305	56.3	87.5	37.8	21.1	55.7	2.0	7.0		24.2	1448	314	64.2	75.0	
PUSA EXP 1308	55.3	90.3	36.2	22.4	62.1	0.8	6.5		25.5	1714	265	63.8	70.1	
PUSA EXP 612	51.0	91.7	34.5	19.2	55.4	3.0	6.0	3.2	26.8	1731	262	63.5	62.3	62.3
PUSA EXP 0113	58.7	85.3	33.7	19.4	57.7	2.7	5.7		23.5	1711	265	63.7	58.6	
PUSA 0014	58.3	90.7	34.0	18.4	54.1	3.0	5.7		24.0	1745	260	64.1	73.7	
PUSA 0314	51.5	90.0	35.7	17.3	48.5	2.8	5.8		23.7	1802	252	63.9	72.9	
PUSA 0514	58.0	90.0	40.6	19.7	48.4	1.0	6.7		26.3	1544	294	63.5	83.7	
PUSA 0614	54.8	92.3	33.3	20.1	60.5	2.0	6.3		27.3	1754	259	63.9	72.5	
PUSA 0714	57.3	90.8	37.1	26.7	71.9	2.3	7.0		25.7	1777	255	64.3	79.4	
PUSA 0914	50.8	90.3	31.8	18.4	58.0	1.5	6.3		26.4	1680	270	64.3	71.4	
PUSA 1014	52.0	87.0	35.2	17.8	50.9	3.0	6.0		26.0	1567	290	64.2	69.3	
PUSA 1114	59.8	95.3	36.7	21.7	59.1	1.0	7.3		24.6	1830	248	63.1	78.1	
MS001	57.5	89.0	36.1	19.7	54.7	2.3	6.3		23.9	1871	243	64.0	72.9	
Torch	60.3	90.0	34.5	19.7	57.0	2.0	6.0	3.0	26.0	1629	279	63.2	75.6	63.1
Quantim	58.5	94.3	35.9	18.4	51.3	1.0	6.3		24.9	1511	301	63.3	79.7	inger-
MEAN	56.6	90.5	35.6	19.1	53.7	2.2	6.1		25.5	1767	259.6	64	73.9	
C.V. (%)	1.5	1.7	6.9	12.1	13.5	53.6	11.0		2.4	3.3	3.2	1.0	8.0	
LSD 0.10	0.8	1.4	2.2	2.1	6.6	1.1	0.6		0.7	53	7.6	0.6	5.3	
LSD 0.05	1.2	2.1	3.4	3.2	10.1	1.6	0.9		0.8	81	11.6	0.9	8.2	

Planting Date = May 1; Harvest Date = August 11; Previous Crop = Spring Wheat

4 - 3

NDSU Carrington Research	<b>Extension Center</b>
2014 Variety Tria	l Data

Field Pea		a training		1.12	-		1.5					Carrin	gton (Pa	ge 3 of 3)
				Canopy			- Harves	st Ease <sup>2</sup>	-			19.00	Seed	Yield
	Days to	Days to	Vine	Htat	Height	Lodge		3-vr.	Seed	Seeds/	1000	Test		≥ 3-vr.
Variety	Bloom	PM	Length	Harvest	Index <sup>1</sup>	at PM	2014	Avg.	Protein	Pound	KWT	Weight	2014	Avg.
Green Cotyledor	1 Туре		inch	inch	%	0 to 9	0	- 9	- %		gram	lb/bu	bi	
Majoret	58.8	90.8	34.9	18.2	52.4	2.0	6.0	5.1	27.1	1766	258	63.7	72.7	2 59.6
Cruiser	56.5	91.8	35.1	18.0	51.2	1.0	6.0	4.6	26.2	2029	224	63.2	67.8	58.5
CDC Striker	57.0	90.3	34.2	13.6	39.8	5.7	4.8	5.4	25.4	2086	219	63.1	73.6	63.1
Bluemoon	58.0	92.3	37.9	19.6	52.0	1.8	6.5	3.6	26.3	1704	266	64.0	77.9	67.0
K2	55.8	90.3	34.4	19.9	58.2	2.3	6.3	3.4	25.6	2014	226	64.1	69.7	58.0
Arcadia	57.0	90.3	33.0	14.8	44.8	6.0	3.8	4.7	25.8	2134	213	63.8	81.4	66.6
Daytona	59.0	90.5	32.7	14.8	45.3	2.5	5.0		24.9	1711	266	63.5	75.3	
LN1115	57.0	91.0	36.3	14.9	40.9	6.5	3.8	2.7	26.3	1677	271	64.5	78.4	69.6
LN1123	60.0	92.5	32.9	15.4	47.4	2.3	4.3		25.2	1894	240	64.3	78.1	
LN1109	58.0	91.8	33.3	18.1	54.5	2.5	6.0		25.1	1483	307	64.4	66.8	
Aragorn	54.5	90.5	34.2	18.0	52.9	1.5	5.3	4.8	27.2	1968	231	62.6	67.4	54.8
Greenwood	56.5	90.8	33.5	15.7	47.1	3.3	4.5		24.4	2097	217	64.6	64.6	
Ginny	56.0	91.0	34.7	16.5	47.6	2.8	5.3		25.7	2096	217	63.6	68.1	
PSTSP5	56.5	93.5	39.4	19.1	48.9	1.8	6.5		25.9	1692	268	64.1	71.0	
PSTSP9	60.0	91.3	34.6	21.3	62.0	2.5	6.8		24.5	1661	273	63.3	71.9	
PSTSP13	60.3	90.3	34.0	18.4	54.1	1.8	6.5		25.3	1506	302	64.0	74.6	
Matrix	60.5	89.8	36.0	15.4	42.6	2.5	5.8		24.6	1602	284	63.9	72.7	
LN 1123	60.0	93.0	34.5	18.0	52.3	1.5	5.5		24.8	1857	244	65.0	79.0	
PUSA 0214	56.3	95.5	39.5	22.1	56.2	1.8	7.0		26.9	1601	284	62.3	77.1	
Shamrock	61.3	94.0	34.4	19.2	55.9	0.8	6.0	3.7	25.1	1712	265	63.7	75.3	58.2
MEAN	56.6	90.5	35.6	19.1	53.7	2.2	6.1		25.5	1767	259.6	64	73.9	
C.V. (%)	1.5	1.7	6.9	12.1	13.5	53.6	11.0		2.4	3.3	3.2	1.0	8.0	
LSD 0.10	0.8	1.4	2.2	2.1	6.6	1.1	0.6		0.7	53	7.6	0.6	5.3	
LSD 0.05	1.2	2.1	3.4	3.2	10.1	1.6	0.9		0.8	81	11.6	0.9	8.2	

Planting Date = May 1; Harvest Date = August 11; Previous Crop = Spring Wheat

<sup>1</sup> Harvest Index: Plant height at time of harvest relative to plant height at end of bloom.

<sup>2</sup> Harvest Ease scores: 0 = all plants upright ~ very easy harvest, to 9 = all plants flat ~ very difficult to harvest direct.

\* Crop development notes, equate to days from planting.

Table 8. 2014 Dry Pea - Minot - Authors, T. Stefaniak, K. McPhee and E. Eriksmoen

								1,000		Seed	Yield
	Days to	Days to	Vine	Canopy	Height	Seed	Seeds/	Seed	Test		3-yr
Variety	Flower	PM	Length <sup>1</sup>	Height <sup>2</sup>	Index <sup>3</sup>	Protein	Pound	Weight	Weight	2014	Avg.
A. BURKER	(DAP) <sup>4</sup>	(DAP) <sup>4</sup>	(inches)	(inches)	(%)	(%)	18.18	(grams)	(lb/bu)	Bou	/a)
Yellow Cotyledon Type											
AGASSIZ	45	85	37	16	43	26.5	2023	228	62.0	40.00	50.2
BRIDGER	43	81	28	22	79	25.3	2003	228	63.9	28.8	46.2
CDC MEADOW	45	83	33	17	51	24.4	2235	205	63.7	31.35	46.7
CM1609	50	82	31	26	83	24.2	2007	238	63.8	29.8	
CM3404	48	86	33	20	63	25.1	1576	290	63.1	28.7	
DS ADMIRAL	45	81	32	15	48	24.8	2065	222	62.7	30.1	46.0
DURWOOD	44	88	35	25	74	26.1	1804	253	63.2	35.8	
EARLYSTAR	45	85	32	17	55	24.1	2202	207	63.0	30.6	
GUNNER	45	87	33	19	60	25.5	2080	219	62.7	28.6	
HYLINE	45	84	34	23	70	23.8	1854	248	63.1	26.3	
JETSET	45	82	33	22	68	26.3	1952	234	63.2	31.8	-
LN4228	40	86	34	18	74	26.2	1817	251	64.1	33.0	
LN4236	45	85	10	16	62	27.0	1770	259	62.6	33.7	
MS001	45	85	25	16	55	24.3	1921	238	62.8	37.6	
N08056-092	42	81	28	15	67	26.1	2055	222	63.5	29.2	
N08056-099	43	88	41	27	74	26.5	1898	240	63.9	29.7	
NAVARRO	39	82	29	22	54	26.8	1842	251	63.0	26.6	44.0
NETTE	43	81	24	20	81	25.2	1980	230	63.8	29.5	
QUANTIM	48	84	37	16	48	24.9	1733	272	61.9	42.2	
SALAMANCA	46	82	36	23	63	26.6	1839	248	62.2	34.7	
SPIDER	45	87	31	17	56	25.8	1848	249	63.0	25.5	49.0
TORCH	45	86	26	21	81	24.4	1795	254	63.4	14.3	40.2
TRAPEZE	43	84	26	14	57	25.8	1864	246	62.5	25.5	
UN F377	42	84	31	19	64	23.8	1937	237	63.2	23.4	
VEGAS	45	90	32	22	67	28.6	1858	245	62.7	31.6	
YELLOWSTONE	41	81	30	27	96	25.0	1635	281	63.0	32.2	

Green Cotyledon Type											
ARAGORN	42	79	25	16	63	26.4	2247	203	62.4	21.3	
ARCADIA	43	82	25	12	55	24.2	2026	225	63.3	28.8	
BLUEMOON	45	82	29	17	61	24.3	1782	262	63.1	25.4	42.8
CDC STRIKER	44	84	24	11	50	23.8	2105	219	62.6	23.9	42.7
CRUISER	45	84	33	13	43	25.7	2270	201	62.1	29.90	37.8
DAYTONA	45	84	30	18	64	25.4	1690	269	62.7	28.20	
GINNY	46	82	26	15	56	25.2	2084	225	62.7	28.60	
GREENWOOD	44	82	31	15	49	23.9	2162	211	63.4	29.1	
К2	42	82	29	17	59	25.1	2169	211	62.8	27.65	
LN1109	46	85	26	17	25	24.7	1562	291	63.3	30.1	
LN1115	45	83	30	15	52	26.9	1909	242	63.1	31.3	
LN1123	46	86	29	17	58	25.6	1991	231	63.5	29.4	
MAJORET	48	86	26	19	60	26.2	1856	245	62.6	34.5	44.9
SHAMROCK	48	86	33	21	66	25.3	1950	234	62.6	30.1	
VIPER	42	80	27	19	70	26.9	1976	230	62.6	27.2	
GRAND MEAN	44	84	30	18	62	25.3	1941	238	63.0	29.5	SIG
CV	4.9	4.9	19.9	22.0	32.1	3.8	8.8	9.0	0.8	20.3	
LSD (10%)	2	4	5	4	18	1.0	156	20	1.0	5.4	

Replacement from RFI response LAWC 12/8/14

Planted: May 2, 2014; harvested Sept. 2, 2014

Previous crop: Hard red spring wheat

<sup>1</sup> Plant height at end of flowering

<sup>2</sup> Height of canopy at harvest

<sup>3</sup> Calculated as the ratio of canopy height/plant height

<sup>4</sup> Days after planting

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1. TYPE: 2

19

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4. VINE:

searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information

5. LEAF	LETS						
0	Color:	1 = Light Green (Alaska WR) 4 = Other (Specify)	2 = Mediur	m Green (Thom 5 = Blue Gree	as Laxton WR) 3 = Dark Green en 6 = Yellow Green 0 = N	(Alderman) lot Applicable	
0	Wax:	1 = None 2 = Light	3 = Medium	4 = Heavy	0 = Not Applicable		
0	Molding:	1 = Not Marlbed 2 = Marb	led (Alaska)	0 = Not Ap	plicable		
0	Number of I	_eaflet Pairs: 1 = Not Paired	2 = One	3 = Two	4 = Three or More 0 = Not	Applicable	
2	Leaflet Type	e: 1 = Leafless 2 = Semi	3 = Normai				
6. STIP	ULES						
2	1 = Lacking	2 = Present 1 = No	ot Clasping 2 =	- Clasping	$\begin{bmatrix} 2 \end{bmatrix}$ 1 = Not Marbled 2 = M	larbled	>
	Size (Comp	ared with Leaflets): 1 = Smaller	2 = Same	3 = Larger	0 = Not Applicable		do
Ο	Color (Com	pared with Leaflets): 1 = Lighter	2 = Same	3 = Darker	0 = Not Applicable		al O
2	Color: 1	= Light Green 2 = Medium G	reen 3 = Dark G	reen 4 = Bl	ue Green 5 = Yellow Green	0 = Not Applicable	ffici
	Color Cha	art Value:	Select th	e Color Chart L	Ised to Determine the Values:		oul
			Roya	al Horticulture S sell Color Char	Society Colour Chart		
2			<b>_</b> ✓_Dthe	er _Character consid	ered unstable and is not used in Europe		
4	Stipule S	ze: 1 = Small 2 = Me	edium 3 = Large				
	Please P	rovide Comparitive Varieties (Chec	(Varieties) and Stip	oule Color			
			Vanety (2) BI UEMOON	J	Vanety (3)		
Variety N	lame:	L: 85.8 mm. W: 16.5 mm	L: 70.3 mm. \	W: 39.3 mm			
Stipule S	olze:				<u></u>		
Color:	art Value:				<u> </u>		
7. FLOW	VER COLOR:						
	Venation	Standard	Wing	Цк	leel		
1 = White	e 2 = Greer	hish 3 = Lavender 4 = Purp	e 5 = Red 6	6 = Other (Spec	ify)	-	
8. PODS	<b>S</b> :						
2	Shape:	1 = Straight	2 = Slightly Curved	3 = Curved	I		
2	End:	1 = Pointed(Alderman)	2 = Blunt (Alaska)				
2	Color:	1 = Light Green (Alaska WR)	2 = Medium Green	3 = Dark Gree	en (Alderman)		
[1]	<b>.</b> (	4 = Other (Specify)	. 2	5 = Blue	6 = Purple 7 = Yellow		
	Surrace:	1 = Smooth $2 = Rol$		Surrace:	1 = Sniny 2 = Duli 1 = Single Dauble & Triple 5 = D	auble 8 Triple	
		6 = Triple 7 = Other (Spe	cify)	8	3 = Quad, Single, Double, Triple	9 = Quad	
80	3 cm Lengt	h [1]7] mm Wi	dth (Between Sutur	es)	08 No. Seeds Per Pod		
9. SEED	<b>)S</b> : (95-100 T	enderometer)					
1	Color: 1	= Light Green 2 = Green	3 = Dark Green	4 = Other (	Specify)		
	5	= Yellow 6 = Brown	7 = Yellow Gree	en			
<u> </u>	1				3 Average		
Selv	e: %						

9. SEEDS: (cont.) (Dry-Mature)	
3 Shape: 1 = Flattened 2 = Angular 3 = Oval 4 = F	Rounded
Surface: 1 = Smooth 2 = Dimpled 3 = Wrinkled	Luster: 1 = Shiny 2 = Dull
Color Pattern: 1 = Monocolor 2 = Mottled 3	= Striped 4 = Dotted
7Primary Color:1 = Creamy White2 = Cream & Gree1Secondary Color:5 = Dark Green6 = Blue Green9 = Red10 = Gray13 = Purple14 = Tan17 = Yellow Green	ben 3 = Light Green4 = Medium Green7 = Yellow8 = Brown11 = Black12 = Salmon15 = White16 = Pink
1Hilum Color:1 = White2 = Tan3 = Black2Cotyledon Color:1 = Green2 = Yellow3 = Orang	je 4 = Cream
2 7 Grams per 100 Seeds	
10. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Moderatel	y Resistant, 4 = Moderately Susceptible, 5 = Tolerant)
2 Fusarium Wilt – Race 1	Fusarium Wilt (Near Wilt) Race 2
0 Ascochyta Blight 0	Common Mosaic
0 Bacterial Blight	Pea Enation Mosaic Virus
0 Downy Mildew	Seedborne Mosaic Virus
Powdery Mildew   0	Yellow Bean Mosaic Virus
0 Other (Specify) 0	Leaf Roll Virus
0 Other (Specify) 0	Other (Specify)
11. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Moderately	Resistant, 4 = Moderately Susceptible, 5 = Tolerant)
0 Aphids	Other (Specify)

12. Additional informtion on any item above, or general comments that may aid in identification:

UPOV variety description is completed in the UK on 04 th November 2010.

AFP number: 84/639.

A copy of the report is provided with this application.



## CERTIFICATE ON THE GRANT OF COMMUNITY PLANT VARIETY RIGHTS

THE COMMUNITY PLANT VARIETY OFFICE HEREBY ACKNOWLEDGES THE GRANT OF COMMUNITY PLANT VARIETY RIGHT BY ITS DECISION N° **EU 29410** OF **04 APRIL 2011** TAKEN IN ACCORDANCE WITH COUNCIL REGULATION (EC) N° 2100/94 ON COMMUNITY PLANT VARIETY RIGHTS, WITH EFFECT FROM THE DATE OF THE DECISION REFERRED TO ABOVE, FOR

#### Maribo Seed International ApS

BEING DOMICILED OR HAVING HIS SEAT OR ESTABLISHMENT IN

#### Højbygårdvej 31 DK - 4960 Holeby

AS HOLDER OF THIS RIGHT, IN RESPECT OF THE VARIETY OF *Pisum sativum L.* BEARING THE DESIGNATED DENOMINATION:

#### JETSET

FOR A PERIOD EXPIRING ON 31 DECEMBER 2036 AT THE LATEST.

THE COMMUNITY PLANT VARIETY RIGHT HAS UNIFORM EFFECT WITHIN THE TERRITORY OF THE EUROPEAN COMMUNITY AND MAY NOT BE TRANSFERRED IN RESPECT OF THIS TERRITORY OTHERWISE THAN ON SUCH UNIFORM BASIS. IT CAN BE EXERCISED AND ENJOYED BY THE HOLDER IN ACCORDANCE WITH COUNCIL REGULATION N° 2100/94 ON COMMUNITY PLANT VARIETY RIGHTS.

THIS ACKNOWLEDGEMENT DOES NOT AFFECT THE REQUIREMENT OF THE HOLDER TO PAY THE FEES DUE FOR EACH YEAR OF DURATION OF THE COMMUNITY PLANT VARIETY RIGHT.

President of the Community Plant Variety Office OFFICE plan Bart KIE Office Communautaire des Varia



## DECISION (No: 29410)

The competent Committee for determining applications for the grant of Community Plant Variety Rights has decided, pursuant to article 62 of Council Regulation (EC) No 2100/94 (the Regulation), to grant such a right in relation to -

JETSET the variety:

(Application number: 2008/1603)

Carlos GODINHO

of species: Pisum sativum L.

Maribo Seed International ApS to: Højbygårdvej 31 (Applicant) DK - 4960 Holeby

Date: 04 APRIL 2011

In connection with the grant of this Community Plant Variety Right the Committee has approved, pursuant to article 63 of the Regulation, the variety denomination:

JETSET

Signed:

**Dirk THEOBALD** 

Bart KIEW

Comm

Martin EKVAD

Taken under the authority of the President of the Office,

arietu O

The attention of the applicant is drawn to their possibility to appeal against this decision. Notice of appeal shall be filed by the applicant in writing to the attention of the Community Plant Variety Office within two months of the service of the decision. The attention of the applicant is drawn to the possibility of an appeal against this decision by a third party to whom it is of direct and individual concern. Notice of such appeal shall be filed in writing to the attention of the Community Plant Variety Office within two months of the publication of the decision.

Onte Communautaire de

201400192

REFERENCE OF TEST AUTHORITY	Application number:	Breeder's reference:	Applicant:
	AFP: 84/639	D\$49630	Maribó Seed, Hojbygardveg 31. DK-4960 Holeby, DENMARK

### VARIETY DESCRIPTION

Botanical name of taxon:	Pisum sativum (L).	Testing authority:	Plant Variety Rights Office, Cambridge, CB3 OLF, UK.
Common name of taxon:	PEA	Testing place:	SASA, Roddinglaw Road, Edinburgh, EH12 9FJ, UK.
Variety denomination:	Jetset	Period of testing:	2009 2010
CPVO Test Guidelines:	Doc. No: TP 7/1 Date: 06/11/2003	Date of issue of this document:	04 November 2010
National Test Guidelines:	Doc. United Kingdom National Li Examination Of Distinctness. Unit Date: November 2008	st / Plant Breeders Rights To formity And Stability – Field	echnical Protocol For The Official I Pea and Pea

A. Group:	(If characteristics of Chapter B are used for grouping they are marked with a G in that Chapter)
В.	Characteristics included in the CPVO Test Guidelines or National Test Guidelines

	CPVO No.	Characteristics	States of expression	Note	Remarks
	01	Seed: shape	ovoid	2	
*	02	Seed: shape of starch grain	simple	1	G
*	03	Seed: colour of cotyledon	yellow	2	G
G	04	Varieties with anthocyanin only: Seed: marbling of testa	not applicable	-	variety does not have anthocyanin
G	05	Varieties with anthocyanin only: Seed: violet or pink spots on testa	not applicable	-	variety does not have anthocyanin
*	06	Seed: black colour of hilum	absent	1	G
	07	Varieties with anthocyanin only: Seed: colour of testa	not applicable	-	variety does not have anthocyanin
	08	Varieties with unwrinkled seed and simple starch grains only: Seed: dimpled cotyledons	absent	1	
*	09	Plant:anthocyanin coloration	absent	1	G
	10	Plant: height	medium to long	6	98.8 cm
	11	Stem: fasciation	absent	1	
	12	Stem: length (after flowering)	short	3	108.6 cm
	13	Stem: number of nodes up to and including first fertile node	many	7	19.4
	14	Varieties with anthocyanin only: Stem: anthocyanin colouration of axil	not applicable	-	variety does not have anthocyanin
	15	Varieties with anthocyanin only: Stem: type of anthocyanin colouration of axil	not applicable	-	variety does not have anthocyanin
*	16	Foliage: colour	green	2	G
	17	Foliage: intensity of colour (excluding yellow-green and blue-green varieties)	light	3	
	18	Foliage: greyish hue	not applicable	÷	not observed: not expressed in the environment of the test centre



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201400192

201400192

	CPVO No.	Characteristics	States of expression	Note	Remarks
	52	Pod: degree of curvature	weak	3	
	53	Pod: type of curvature	concave	1	
.*	54	Pod: shape of distal part (Varieties without thickened pod wall only)	blunt	2	G
*	55	Pod: colour	green	2	G
	56	Pod: intensity of green colour	light	3	
	57	Varieties with no or partial parchment only: Pod: strings of suture	not applicable	•	parchment is entirely present
	58	Varieties with anthocyanin only: Pod: anthocyanin colouration of suture	not applicable	•	variety does not have anthocyanin
	59	Varieties with anthocyanin only: Pod: spots of anthocyanin colouration on outer wall	not applicable		variety does not have anthocyanin
	60	Pod: number of ovules	medium	5	8.2
	61	Pod: intensity of green colour of immature seed	light	3	G
	62	Seed: time of maturity	medium	5	
	63	Seed: wrinkling of cotyledon	absent	1	
	64	Seed: degree of wrinkling of cotyledon	not applicable	•	variety does not have wrinkled seed
*	65	Seed: weight of 100 seeds (g)	small to medium	4	27.2 g
	66.1	Resistance to Fusarium oxysporum f. sp. pisi Race 1	present	9	
	67	Resistance to Erysiphe pisi Syd.	absent	. 1	

COMMENTS: Candidate DS49630 is closest to SW Clara and Attika, but differs in the following respects.

SW Clara: DS49630 has longer peduncies (P=0.01)

CPVO No.	CHARACTER	DS49630	SW Clara
47	Flower: length of peduncle from stem to first flower	short to medium (4)	short (3)

Attika: DS49630 has smaller flowers (P=0.02) and has a higher first fertile node (P=0.01)

CPVO No.	CHARACTER	DS49630	Attika
13	Stem: number of nodes up to and including first fertile node	many (7)	medium to many (6)
42	Flower: maximum width of standard	medium (5)	medium to broad (6)



AGRICULTURAL MARKETI SCIENCE AND TECHNOLOGY - PLANT VA APPLICATION FOR PLANT VARIETY F	U.S. DEPARTMENT OF AGRICULTURE		
	ING SERVICE RIETY PROTECTION OFFICE PROTECTION CERTIFICATE	PVPO NUMBER	
EXHIBIT E - STATEMENT OF THE	BASIS OF OWNERSHIP		
I. Name of Owner	2. Temporary Designation or Experimental Name	3. Variety Name	
Maribo Seed International Aps.	DS 49630	JETSET	
4. Does the applicant own all rights to the variety? Mark an ">	X" in the appropriate block. If no, please explain.	YES NO	
5. Is the applicant a U.S. national or a U.S. based entity? If n DENMARK	o, give name of country. YES	NO	
). Is the applicant the original owner?	NO If no, please answer <u>one</u> of the	e following:	
a. If the original rights to variety were owned by individual	I(s), is (are) the original owner(s) a U.S. National(s) NO If no, give name of country	?	
b. If the original rights to variety were owned by a compa	ny(ies), is (are) the original owner(s) a U.S. based	company?	
YES	NO If no, give name of country	DENMARK	

#### PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

- 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by rationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.

3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.