

U.S. Plant Variety Protection Office

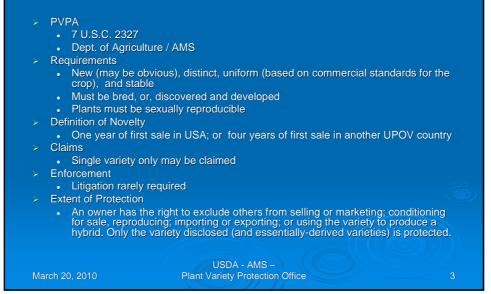
Use of Variety Descriptions Provided by Breeders – Experience in the United States of America

> USDA - AMS - Plant Variety Protection Office

March 20, 2010

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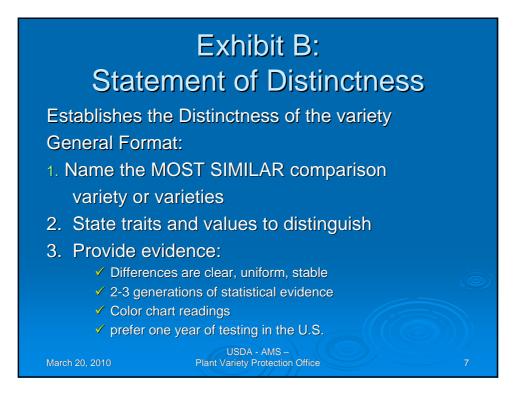


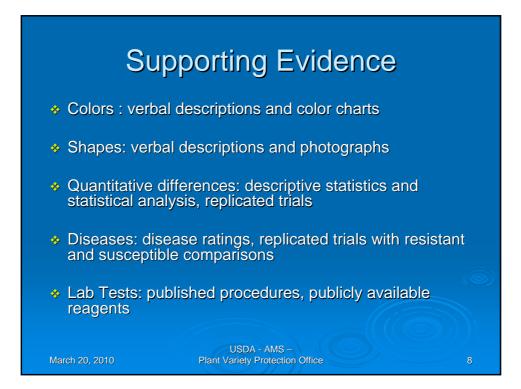


PVP Application
 Application S&T 470 form – 2 sided A. Breeding History – attest to uniformity and stability B. Distinctness Statement – supporting evidence C. Objective Description of Variety D. Additional Description (optional) E. Basis of Ownership F. Declaration of seed deposit
 Seeds 3,000 Seeds, >85% germination, untreated - provided to the office within 3 months of filing or before certificate issuance (whichever is first)
 Fees Total Current Fees for PVP Certificate: \$518 (Filing Fee) + \$3,864 (Search/Examination Fee) with the Application \$768 (Certificate Fee) - when issuance is allowed TOTAL = \$5,150
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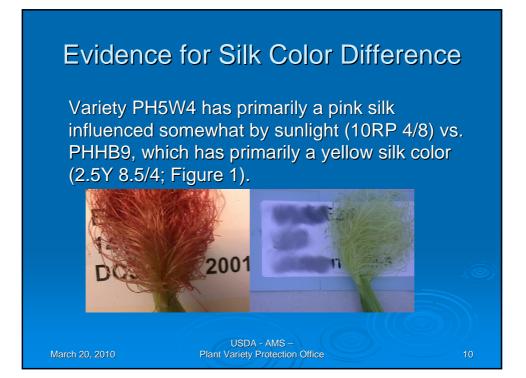




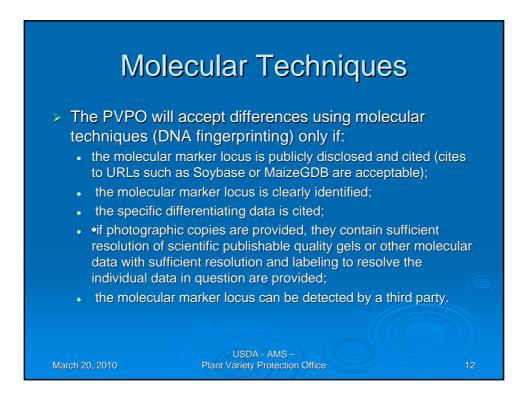
Evidence for Flower Color Difference

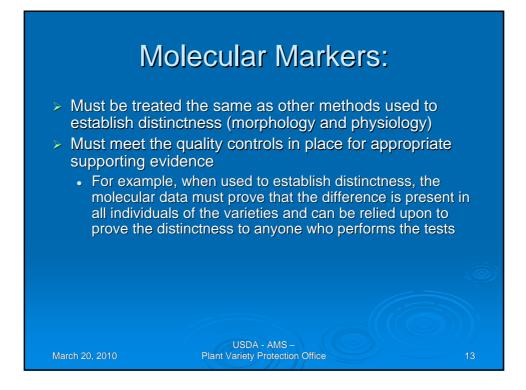
'FL 1922' is most similar to 'Norchip'; however, 'FL 1922' has purple flower color, whereas 'Norchip' has white flower color (90B vs. 155A of the Royal Horticultural Society Color Chart, respectively). (Figure 2).





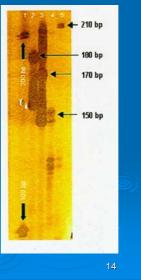
		ifferen	ce_		
'PHBAB' d vs. 82 cm)					U
degrees).		DILLINIA	DE		
a 1		PH1W2	DF	t-Value	Prob Value (2
Summary data from three locations in 2002	PHBAB	1111 11 2		(pooled)	tail, pooled)
from three	PHBAB 66.7 +/- 2.35 (n=15)	81.9 +/- 4.09 (n=15)	28	(pooled) -12.5	tail, pooled)



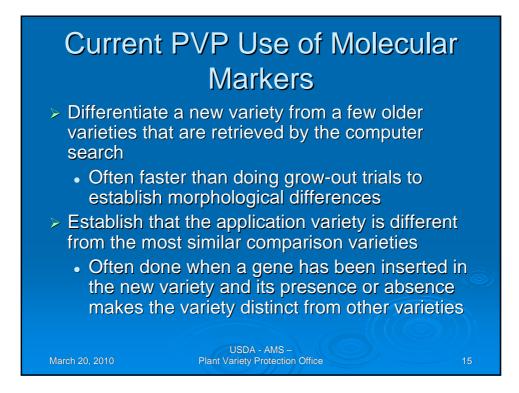


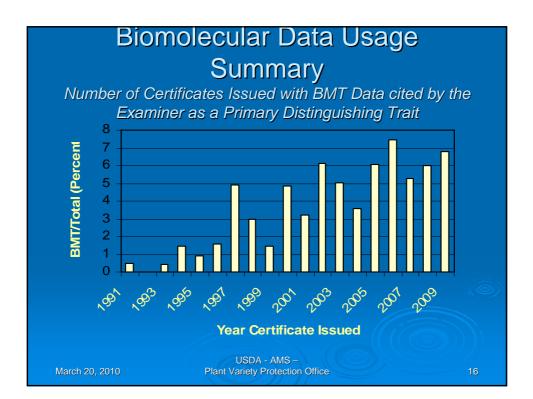
Example of Biochemical & Molecular Information Utilized

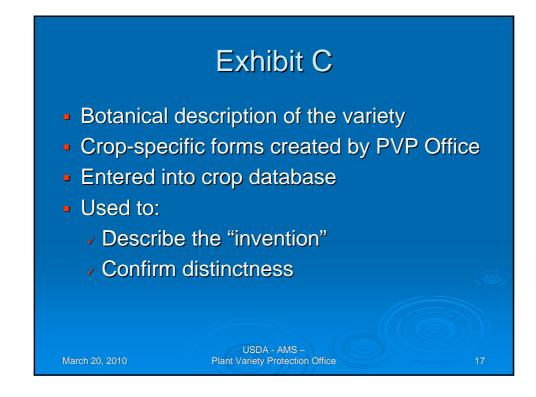
'Dilse' differs from 'Ben' at microsatellite locus Xgwm193. This marker amplified a fragment of approximately of 170 base pairs from 'Ben' (lane #3) that is not present in 'Dilse' (lane #4). This marker is tightly linked with a high grain protein content gene.



March 20, 2010







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1 - Special 2 - Outril 3 - Outril 3 - Outril 4 - Start synchron 1 - Renero synchron 4 - Other
V R1 R2 R3 R4 "user servor base: respective of mag. "Labert 2-West 3-Module 4+Boys 5-Vey Borg
"Louis ankor baks: Protestatics of bass 1 + Abert 2 + West 3 + Mortun 4 + Oring 5 + Very Storg
1 = Abeent 2 = Weak 3 = Medium 4 = Strong 5 = Very Strong
V R1 R2 R3 R4
"LIGHT SPROUT BASE: ANTHOCYANN COLORATION 1 = Green 2 = Red-Hold 3 = Blas-Kold 4 = Ober(Secolar)
V R1 R2 R3 R4
"LIGHT SPROUT BASE: INTENSITY OF ANTHOCYANIN COLORATION (IF PRESENT) 1 + Abent 2 + Wesk 3 + Meskun 4 + Strong 5 + Very Strong
V R1 R2 R3 R4
*LIGHT SPROUT TIP: HABIT 1 - Cload 2 - Internediate 3 - Open
V R1 R2 R3 R4
17-(19-47) (20-49), designed by the Plant Voldy Protection Office using Horeard Word (ML). Pro-
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D Plant Variety Protection Office

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	ULS. DEPARTMENT OF ACKINGLIUME Exhabit Addition, Link, Advecting assignment Addition, Link, Advecting assignment PLANT WARETY FROTECTION CHIFLE BELTION LIL, MO 2019 BELTION LIL, MO 2019	
	OBJECTIVE DESCRIPTION OF VARIETY Lettuce (Lactuca sariva L.)	
	INNE OF APPLICATE (2) TRAPOLICIE OF EXPERIMENTAL DESCRIPTION VARIETY NAME	
	ADENIES (dom and the of the cdg, both, by Could, and County) Fail instance Fail instance Pail Pail	
	Place the appropriate number that detection the varietal classed on it the scene balow. Place a zero in the first to (e.g. [2] 2] 2 (0) (0) jet indees narrater a scher 16 of these of the sci of the	
	The Location of the Test Area is: Color System Used	
	SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION. Use standard regional check variaties, which are adapted to your area. One of the comparison variaties must be the most learner variety used in EDINE 8.	
	Application Variety (c1) Most Similar Variety (c1)	
	Shandard Regional Check Varlety (c2)	
	1. PLANT TYPE: (See List of Suggested Check Variaties on Page 8) 01 = CuthogA and 64 = Cos or Romaine 07 = Saihas Group 10 = Latin	
	01 • • • • • • • • • • • • • • • • • • •	
	1 4000	Ó
	COPYLEDON TO FOURTH LEAF STAGE: NOTE: Provide a outpr photograph or photocopy of the fourth leaf from 20 day-old seeding grown under optimal condition.	
	BHAPE OF COTYLEDON8: 1 = Bread 2 = Intermediate 3 = Spatiale (a1) (c1) (c2)	
	ET-d14-(0-d0, induced by Ba Plant Value) Protection Office using Microsoft West (1981). Page 1 of 2	
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	United States Department of Apricalizes. Apricalized Marchi Science Writes. Funct Instant Protection Office National Apricalized Liberry Burlding, Res 26 Battanila, Bro 2016 GUNCTIVE (ESCAPTING of MAILIY DBM (JAn april 1.)	ng Service	
	Name of Applicant(s) Variety Seed Source	Variety Name or Temporary Designation	
	Address (Street & No., or R.F.D. No., City, State, Zip Code and Country)	FOR OFFICIAL USE PTPD Number	
	Place the appropriate number that describes the varietal characters typical of this introd vari- mole numbers by adding leading zeross if necessary. Completeness should be striven for to sta Tardit designated by of "a excendenced necessary for an adoptate variety description and mus	ablish an adequate variety description.	
	CLUB DOLDS Use in conjunction with Hearth Color Control & Morris & Morri & Morris & Morri & Morris & Morris & Morris & Morri		
	StateMon DBBDD DSBDD DSBDDD DSBDDD <t< td=""><td>parlises based on grow-out trial data): Sweet Corn: Cl3, Lowa5125, P39, 2132 Popcorn: 381533, 4722, M081, M97211</td><td></td></t<>	parlises based on grow-out trial data): Sweet Corn: Cl3, Lowa5125, P39, 2132 Popcorn: 381533, 4722, M081, M97211	
	Ores Addg. H027, H032, H030 Miller Deckt. WF9 W644, A564, A664, Pu91 C166, H105, Ky228 1. TPE: (decrific intermediate types in Comments section)	No15H, Mo16H, Mo24H	
	1. TYPE: (describe intermediate types in Comments section) A provet 2-Dent 3-Flint, 4-Flour 5-Pop 6-Ornamental 7-Pipecorn 51	landard Intred Name	
	2. REGION WHERE DEVELOPED IN THE U.S.A.: 54	andard Seed Source	
	 Infortheest 2-Northcentral 3-Northeest 4-Southeest 5-Southcentral 6-Southeest 7-Other 		
		NTS HEAT UNITS	
	From 50% stilk to harvest at 25% moisture		
	4. PLNT: Standard Deviation Sample Size	Standard Deviation Sample Size	
		1	
	* cn Ear Height (to base of top ear note)		
	con Length of Top Ear Internade	[]	
	* Average Number of Ears per Stalk		
	Apolication Variety Dota Page 1 S	Landard Inbred Deta	
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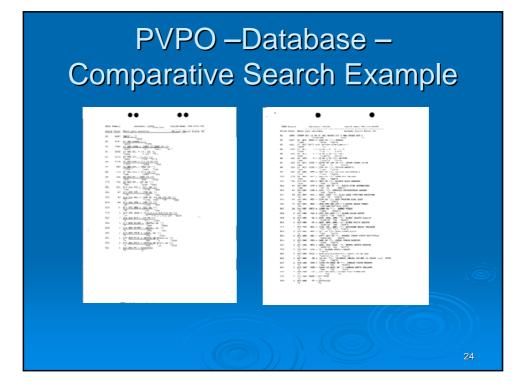
- > Crop specific
- > Used to confirm distinctness of variety
- Contains descriptive information about crop varieties
- Data comes from
 - Exhibit C's
 - Other parts of applications
 - Literature: journals, seed catalogs, release notices, trial reports

Plant Variety Protection Office

March 20, 2010

PVPO Databases PVPO Species Number of Records **PVPO Species** Number of Records Databases (Varieties) as of Databases 2/22/2010 Alfalfa 1,529 Pea 2,733 Barley 2,276 Pepper 1,385 Bean 2,762 (Garden bean), Potato 2.357 1,560 (Dry bean) Bluegrass 1,075 Rice 699 2,928 2,341 Corn Ryegrass 2,744 Cotton Sorghum 3,447 Fescue 709 (Fine fescue), 3,396 Soybean 966 (tall fescue) Lettuce 2,572 625 Tobacco Marigold 655 Tomato 3,189 Oat 1,166 Watermelon 974 Wheat 1,714 4,021 Onion





Examiner Questions

- If the examiner has questions about the character states, variability, distinctness or other issues,
- If specific language needed to establish new, distinct, uniform, and stable is missing,
- > then those questions will be sent back to the applicant

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