

THE UNITED STATES OF ANTERIOR

TO ALL TO WHOM THESE PRESENTS SHALL COME:

HZPC Holland B. H.

Morens, 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 BOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT VIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

POTATO, IRISH

'Adora'

In Testimony Mercet, I have hereunto set my hand and caused the seal of the Plant Pariety Protection Office to be affixed at the City of Washington, D.C. this eighteenth day of September, in the year of our Lord two thousand.

Aun Commissioner Plant Variety Protection Agricultural Marketing Corretary of Startistic lineur

REPRODUCE LOCALLY. Include form number and date of	on all reproductions.		FORM APPROVED - OMB NO. 0581-00
U.S. DEPARTMENT OF AGRICULTURAL AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTIO	IN OFFICE	The following statements are mail 1974 (5 U.S.C. 552a).	de in accordance with the Privacy Act
APPLICATION FOR PLANT VARIETY PROTECT	TION CERTIFICATE	Application is required in order certificate is to be issued (7 U.S. until certificate is issued (7 U.S.)	to determine if a plant variety protection G. 2421). Information is held confident.
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)	Mement on reverse)	2. TEMPORARY DESIGNATION OR	
03/05/60JM	0 800 1-4	EXPERIMENTAL NUMBER	3. VARIETY NAME
Hettema Zonen Kweekbedrijf	TO CEILE	?	ADORA
H70/ H. R.	. D.V.		
4. ADDRESS IStreet and No., or R.F.D. No., City, State, and ZIP Code, and	Country	6. TELEPHONE Gnelude area code!	
			FOR OFFICIAL USE ONLY
P.O. Box 99-385		(0) 527-635000	9700112
8300 AB EMMELOORD 890/ BL	/ CHILLIAD DEN	6. FAX (include area code)	FDATE
The Netherlands	200000000000000000000000000000000000000	(0)527-635303	ž.
The Netherlands		(0)527-635303	02-12-97
7. GENUS AND SPECIES NAME	8. FAMILY NAME (BOTS	nical)	FILING AND EXAMINATION FEE:
Solanum Tuberosum	Solanum	Tuberosum	£ 2,450,00
3. CROP KIND NAME (Common name)			E DATE
Potato			FEB. 12, 1997
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGA	WIZATION (corporation, partners	ship, association, etc.) (Common name)	C CERTIFICATION FEE:
Company, representing the	breeder by	contract	1º 800
11. IF INCORPORATED, GIVE STATE OF INCORPORATION The Netherlands		12. DATE OF INCORPORATION	E DATE
			1 8/28/00
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVEIS), IF ANY, TO	SERVE IN THIS APPLICATION	AND RECEIVE ALL PAPERS	14. TELEMONE (Include area code) 540 03/05/00 PER LETER
GLOMAL AGRI SERVICES INC) MF 0 3/05/00 FET LE 11-
		100 JMP	
376 NEWMARYLAND HIGHWA	14 03/03	100 IMP	506-458-8765
	14 03/03	aen	
376 NEW MARY CAND HEGHWA NEW MARY LAND, N.B. E 3C 1	14 03/03	100 IMP AER LETTER	506-458-8765 15. FAX Include area codel
NEW MARYLAND, N.B. E3C 1	es 03/03	aen	506-458-8765 15. FAX Include area codel
	es 03/03	aen	506-458-8765 15. FAX Include area codel
NEW MARYLAND, N.B. E 3C 1	es 03/03	aen	506-458-8765 15. FAX Include area codel
NEW MARYLAND, N. B. E 3C 1 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a. 20 Exhibit A. Origin and Breeding History of the Variety	es 03/03	aen	506-458-8765 15. FAX Include area codel
NEW MARYLAND, N. B. E 3C 1 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a. 22 Exhibit A. Origin and Breeding History of the Variety b. 32 Exhibit 3. Statement of Distinctness	es 03/03	aen	506-458-8765 15. FAX Include area codel
NEW MARYLAND, N. B. E 3C 16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT. SUBMITTED (For a.	E J	LETTER	506-458-8765 15. FAX Include area code) 506-454-056
NEW MARYLAND, N. B. E 3C 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a. Exhibit A. Origin and Breeding History of the Variety b. Exhibit S. Statement of Distinctness c. Exhibit C. Objective Description of the Variety d. Exhibit D. Additional Description of the Variety a. Exhibit E. Statement of the 8 axis of the Applicant's Ownership f. Voucher Sample (2.500 viable untreated seeds or, for tuber prop	EJ Way instructions on reverse) agasted varieties verification that	GEN LETTON tissue culture will be deposited and maintain	506-458-8765 15. FAX Include area code) 506-454-056
NEW MARYLAND, N. B. E 3C 1 16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED IFOR a. Exhibit A. Origin and Breeding History of the Variety b. Exhibit B. Statement of Distinctness c. Exhibit C. Objective Description of the Variety d. Exhibit O. Additional Description of the Variety e. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (2.500 viable untrested seeds or, for tuber prop. G. Fling and Examination Fee (\$2,450), made payable to Treasurer	egated varieties verification that	CENTEN LETTEN Disturc culture will be deposited and maintain	506-458-8765 15. PAX Include area code) 506-454-056 ed in a public repository)
NEW MARYLAND, N. B. E 3C 1 18. CHECK APPROPRIATE SOX FOR EACH ATTACHMENT SUBMITTED (For a. Exhibit A. Origin and Breeding History of the Variety b. Exhibit 8. Statement of Distinctness c. Exhibit C. Objective Description of the Variety d. Exhibit C. Objective Description of the Variety e. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (Z.500 viable untreated seeds or, for tuber prop G. Fling and Examination Fee (\$2,460), made payable to Tressure 17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD YES 81 Yes, "answer items 18 and 18 below)	equated varieties verification that of the United States" (Mail to P D BY VARIETY NAME CNLY, AS	TISSUE CURTURE WIll be deposited and maintain TVPOI A CLASS OF CERTIFIED SEED? (See Section)	506-458-8765 15. PAX Include area code) 506-454-056 ed in a public repository)
NEW MARYLAND, N. B. E 3C 1 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a. Exhibit A. Origin and Breeding History of the Variety 5. Exhibit 3. Statement of Distinctness c. Exhibit C. Objective Description of the Variety d. Exhibit 0. Additional Description of the Variety e. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (2.500 viable untrested seeds or, for tuber prop g. Fling and Examination Fee (\$2,450), made payable to "Treasures" 17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD YES 81 Yes, "answer items 18 and 19 below) 18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMIT GENERATIONS?	egated varieties verification that of the United States" (Mail to P NO 87 YARIETY NAME CNLY, AS	TISSUE CURTURE WIll be deposited and maintain TVPOI A CLASS OF CERTIFIED SEED? (See Section)	506-458-8765 15. SAX Include area code) 506-454-056 ed in a public repository) on 83(a) of the Mant Variety Protection Act/?
NEW MARYLAND, N. B. E 3C 1 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a. B. Exhibit A. Origin and Breeding History of the Variety b. B. Exhibit 8. Statement of Distinctness c. B. Exhibit C. Objective Description of the Variety d. Exhibit 0. Additional Description of the Variety e. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (2.500 viable untreated seeds or, for tuber prop g. Fling and Examination Fee (\$2,450), made payable to "Treasurer 17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD YES 81 "yes," answer items 18 and 19 below) 18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMIT GENERATIONS? YES 10 NO	egated varieties verification that of the United States" (Mail to P BY VARIETY NAME ONLY, AS TED AS TO NUMBER OF	CESSURE CURITURE WILL be deposited and maintain (VPO) A CLASS OF CERTIFIED SEED? (See Section 20) B. IF YES' TO ITEM 18, WHICH CLASSES FOUNDATION REGISTER!	506-458-8765 15. FAX Include area code) 506-459-056 ed in a public repository) on 83(a) of the Plant Variety Protection Acti? OF PRODUCTION SEYOND BREEDER SEED? ED CERTIFIED
NEW MARYLAND, N. B. E 3C 1 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a. Exhibit A. Origin and Breeding History of the Variety b. Exhibit B. Statement of Distinctness c. Exhibit C. Objective Description of the Variety d. Exhibit C. Objective Description of the Variety d. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (2.500 viable untrested seeds or, for tuber prop. g. Hing and Examination Fee (\$2,460), made payable to "Treasured" 17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD YES 81 "Yes," answer items 18 and 19 below) 18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMIT GENERATIONS? YES NO 20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEED.	egated varieties verification that of the United States" (Mail to P BY VARIETY NAME ONLY, AS TED AS TO NUMBER OF	CESSURE CURITURE WILL be deposited and maintain (VPO) A CLASS OF CERTIFIED SEED? (See Section 20) B. IF YES' TO ITEM 18, WHICH CLASSES FOUNDATION REGISTER!	506-458-8765 15. FAX Include area code) 506-459-056 ed in a public repository) on 83(a) of the Plant Variety Protection Acti? OF PRODUCTION SEYOND BREEDER SEED? ED CERTIRED
NEW MARYLAND, N. B. E 3C 1 13. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a. Exhibit A. Origin and Breeding History of the Variety b. Exhibit 3. Statement of Distinctness c. Exhibit C. Objective Description of the Variety d. Exhibit 0. Additional Description of the Variety a. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (2.500 viable untrested seeds or, for tuber prop g. Filing and Examination Fee (\$2,450), made psyable to "Tressurer 17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD YES 81 Yes," answer items 18 and 19 below) 18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMIT GENERATIONS? YES 80 NO	egated varieties verification that of the United States" (Mail to P BY VARIETY NAME ONLY, AS TED AS TO NUMBER OF	CESSURE CURITURE WILL be deposited and maintain (VPO) A CLASS OF CERTIFIED SEED? (See Section 20) B. IF YES' TO ITEM 18, WHICH CLASSES FOUNDATION REGISTER!	506-458-8765 15. FAX Include area code) 506-459-056 ed in a public repository) on 83(a) of the Plant Variety Protection Acti? OF PRODUCTION SEYOND BREEDER SEED? ED CERTIRED
NEW MARYLAND, N. B. E 3C 1 16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a Exhibit A. Origin and Breeding History of the Variety 5. Exhibit A. Origin and Breeding History of the Variety 6. Exhibit C. Objective Description of the Variety 7. Exhibit C. Objective Description of the Variety 8. Exhibit E. Statement of the Basis of the Applicant's Ownership 9. Voucher Sample (Z.500 viable untreated seeds or, for tuber proping 17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD 18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMIT GENERATIONS? 19. OOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMIT GENERATIONS? 10. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN 10. YES 87 Yes," give names of countries and detext	egated varieties verification that of the United States" (Mail to P BY VARIETY NAME ONLY, AS NO SI "no," or TED AS TO NUMBER OF RELEASED, USED, OFFERED F	DESIRE CURTURE WILL be deposited and maintain VPO) A CLASS OF CERTIFIED SEED? (See Section 20) B. IF YES" TO ITEM 18, WHICH CLASSES FOUNDATION REGISTER! OR SALE, OR MARKETED IN THE U.S. OR C	506-458-8765 15. SAX Include area code) 506-454-056 ed in a public repository) on 83(a) of the Mant Variety Protection Actu? OF PRODUCTION SEYOND BREEDER SEED? ED CERTIFIED OTHER COUNTRIES?
NEW MARYLAND, N. B. E 3C 1 16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a.	agated varieties verification that of the United States" (Mail to P BY VARIETY NAME ONLY, AS NO ST "no," po TED AS TO NUMBER OF NO RELEASED, USED, OFFERED F	Tissue culture will be deposited and maintain IVPOI A CLASS OF CERTIFIED SEED? ISSUE SECON TO ITEM 18, WHICH CLASSES FOUNDATION REGISTER OR SALE, OR MARKETED IN THE U.S. OR CO	506-458-8765 15. SAX Include area code) 506-454-056 ed in a public repository) on 83(a) of the Mant Variety Protection Actu? OF PRODUCTION SEYOND BREEDER SEED? ED CERTIFIED OTHER COUNTRIES?
NEW MARYLAND, N. B. E 3C 1 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a Exhibit A. Origin and Breeding History of the Variety b. Exhibit A. Origin and Breeding History of the Variety b. Exhibit B. Statement of Distinctness c. Exhibit C. Objective Description of the Variety d. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (2,500 viable untreated seeds or, for tuber prop. g. Filing and Examination Fee (\$2,450), made payable to "Tressured" 17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD YES 91 "yes," answer items 18 and 19 below! 18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMIT GENERATIONS? YES 10 NO 20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEED YES 91 "yes," give names of countries and dates! 21. The applicant(s) declare that a viable sample of basic sood of the variety in spolicable, or for a tuber propagated variety a tissue culture will be deposed.	agated varieties verification that of the United States" (Mail to P D BY VARIETY NAME ONLY, AS NO ST "no," by TED AS TO NUMBER OF NO RELEASED, USED, OFFERED F	Tissue culture will be deposited and maintain IVPOI A CLASS OF CERTIFIED SEED? ISsee Section to item 201 B. IF "YES" TO ITEM 18, WHICH CLASSES FOUNDATION REGISTER! OR SALE, OR MARKETED IN THE U.S. OR Commended for the duration of the certificate.	506-458-8765 15. SAX Include area code) 506-459-056 ed in a public repository) on 83(a) of the Mant Variety Protection Actu? OF PRODUCTION SEYOND BREEDER SEED? ED GERTINED THER COUNTRIES?
NEW MARYLAND, N. B. E 3C 1 16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a second se	equated varieties verification that of the United States" (Mail to P BY VARIETY NAME ONLY, AS NO ST "no," or TED AS TO NUMBER OF NO RELEASED, USED, OFFERED F NO NO ST "no," or THE NO ST "no," or THE NO ST "no," or THE NO ST "NO ST	Dissue culture will be deposited and maintain VPO) A CLASS OF CERTIFIED SEED? (See Section 20) B. IF "YES" TO ITEM 18, WHICH CLASSES FOUNDATION REGISTER! OR SALE, OR MARKETED IN THE U.S. OR of the control of the certificate. and will be replemished upon request in accommodation of the duration of the certificate. ety, and believe(s) that the variety is new, did act.	506-458-8765 15. SAX Include area code) 506-459-056 ed in a public repository) on 83(a) of the Mant Variety Protection Actu? OF PRODUCTION SEYOND BREEDER SEED? ED GERTINED THER COUNTRIES?
NEW MARYLAND, N. B. E 3C 1 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a service of the Variety b. Exhibit A. Origin and Breeding History of the Variety b. Exhibit B. Statement of Distinctness c. Exhibit C. Objective Description of the Variety d. Exhibit C. Objective Description of the Variety e. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (2,500 viable untreated seeds or, for tuber proper of Fling and Examination Fee (\$2,450), made payable to "Treasured 17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD YES If "yes," answer items 18 and 19 below) 18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMIT GENERATIONS? OYES NO 20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEED YES If "yes," give names of countries and dates! 21. The sopilicant(s) declare that a viable sample of basic seed of the variety we applicable, or for a tuber propagated variety a tissue cutture will be deposed to the undersigned applicant(s) is (are) informed that (issue cutture will be deposed to the sexually reproduced Section 41, and is omitted to protection under the provisions of Section 42 Applicant(s) is (are) informed that (issue) expressions of Section 42 Applicant(s) informed that (issue) expressions of Section 42 Applicant(s) informed that (issue) expressions of Section 42 Applicant(s) informed that (issue) expressions of Section 42 Applicant(s) informed that (issue) expressions and Section 42 Applicant(s) informed that (issue) expressions and Section 42 Applicant(s) informed that (issue) expressions and Section 42 Applicant(s) informed that (issue) expressions and Section 42 Applicant(s) informed that (issue) expressions and Section 42 Applicant(s) informed that (issue) expressions and Section 42 Applicant(s) informed that (issue) expressions and Section 42 Applicant(s) informed that (issue) expressions and Section 42 Applicant(s) informed that (issue) expressions and Section 42 Applicant(s) informed that (issue) expr	equated varieties verification that of the United States" (Mail to P BY VARIETY NAME ONLY, AS NO ST "no," or TED AS TO NUMBER OF NO RELEASED, USED, OFFERED F NO NO ST "no," or THE NO ST "no," or THE NO ST "no," or THE NO ST "NO ST	Dissue culture will be deposited and maintain VPO) A CLASS OF CERTIFIED SEED? (See Section 20) B. IF "YES" TO ITEM 18, WHICH CLASSES FOUNDATION REGISTER! OR SALE, OR MARKETED IN THE U.S. OR of the control of the certificate. and will be replemished upon request in accommodation of the duration of the certificate. ety, and believe(s) that the variety is new, did act.	506-458-8765 15. SAX Include area code) 506-459-056 ed in a public repository) on 83(a) of the Mant Variety Protection Actu? OF PRODUCTION SEYOND BREEDER SEED? ED GERTINED THER COUNTRIES?
NEW MARYLAND, N. B. E 3C 1 16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a second se	agated varieties verification that of the United States" (Mail to P BY VARIETY NAME ONLY, AS NO 81 "no," or TED AS TO NUMBER OF NO RELEASED, USED, OFFERED F NO will be furnished with application ited in a public repository and m and or tuber propagated plant varie of the Plant Variety Protection of protection and result in penaltic	Dissue culture will be deposited and maintain VPO) A CLASS OF CERTIFIED SEED? (See Section 20) B. IF "YES" TO ITEM 18, WHICH CLASSES FOUNDATION REGISTER! OR SALE, OR MARKETED IN THE U.S. OR of the control of the certificate. and will be replemished upon request in accommodation of the duration of the certificate. ety, and believe(s) that the variety is new, did act.	506-458-8765 15. SAX Include area code) 506-459-056 ed in a public repository) on 83(a) of the Mant Variety Protection Actu? OF PRODUCTION SEYOND BREEDER SEED? ED GERTINED THER COUNTRIES?
NEW MARYLAND, N. B. E 3C 1 1d. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a submitted submitted). If the control of the variety submitted is a submitted of the variety submitted. Objective Description of the Variety submitted. Objective Description of the Variety submitted. Objective Description of the Variety submitted objective Ownership submitted submitted submitted submitted of the Applicant's Ownership submitted	agated varieties verification that of the United States" (Mail to P BY VARIETY NAME ONLY, AS NO 81 "no," or TED AS TO NUMBER OF NO RELEASED, USED, OFFERED F NO will be furnished with application ited in a public repository and m and or tuber propagated plant varie of the Plant Variety Protection of protection and result in penaltic	CENTERN LETTEN LETTE	506-458-8765 15. SAX Include area code) 506-459-056 ed in a public repository) on 83(a) of the Mant Variety Protection Actu? OF PRODUCTION SEYOND BREEDER SEED? ED GERTINED THER COUNTRIES?
NEW MARYLAND, N. B. E 3C 1 1d. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a submitted submitted). If the control of the variety submitted is a submitted of the variety submitted. Objective Description of the Variety submitted. Objective Description of the Variety submitted. Objective Description of the Variety submitted objective Ownership submitted submitted submitted submitted of the Applicant's Ownership submitted	equated varieties verification that of the United States" (Mail to Plan No #1" no," or TED AS TO NUMBER OF 15 NO #1" no projection with application ited in a public repository and mail or tuber propagated plant variety Protection of the Plant Variety Protection is protection and result in penaltic SIGNATU	CENTERN LETTEN LETTE	506-458-8765 15. SAX Include area code) 506-459-056 ed in a public repository) on 83(a) of the Mant Variety Protection Actu? OF PRODUCTION SEYOND BREEDER SEED? ED GERTINED THER COUNTRIES?
NEW MARYLAND, N. B. E 3C 1 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a submitted of the variety but the submitted of the variety but the submitted of the variety but the submitted of the variety control of the variety but the submitted of the variety control of the submitted seeds of, for tuber proper control of the payable to the submitted seeds of the variety control of the variety control of the variety control of the variety seed of the variety seed of the variety control of the variety seed of the variety control of the control of control	equated varieties verification that of the United States" (Mail to Plan No #1" no," or TED AS TO NUMBER OF 15 NO #1" no projection with application ited in a public repository and mail or tuber propagated plant variety Protection of the Plant Variety Protection is protection and result in penaltic SIGNATU	tissue culture will be deposited and maintain VPO) A CLASS OF CERTIFIED SEED? (See Second to item 20) B. IF "YES" TO ITEM 18, WHICH CLASSES FOUNDATION REGISTER! OR SALE, OR MARKETED IN THE U.S. OR of the control of the certificate. and will be replemished upon request in accommodation of the duration of the certificate. ety, and believe(s) that the variety is new, of Act. S. URE OF APPLICANT (Owner(s))	506-458-8765 15. SAX Include area code) 506-459-056 ed in a public repository) on 83(a) of the Mant Variety Protection Act/? OF PRODUCTION SEYOND BREEDER SEED? ED CERTIRED OTHER COUNTRIES?
NEW MARYLAND, N. B. E 3C 1 16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a submitted of the variety but the submitted of the variety but the submitted of the variety but the submitted of the variety control of the variety but the submitted of the variety control of the submitted seeds or, for tuber proper control of the payable to the payable to the payable to the payable to the payable control of the payable to the payable control of the payable control of the payable control of the payable control of the payable payable of the payable payable of the payable payable, or for a tuber propagated variety a tissue culture will be deposed to the proper control of the provisions of Section 41, and is contined to protection under the provisions of Section 42. Apoplicant(s) island informed that I have consentation herein can jeogardize signature of applicant informed that I have consentation herein can jeogardize control of the payable of the provision of Section 42. Apoplicant(s) island informed that I have consentation herein can jeogardize control of applicant of the provision of section 42. Apoplicant of applicant informed that I have consentation herein can jeogardize informed that I have consentation herein can jeogardize informed that I have consentation to provisions of Section 42. Apoplicant of applicant informed that I have consentation to provisions of Section 42. Apoplicant of applicant informed that I have consentation to provisions of Section 42.	egated varieties verification that of the United States" (Mail to P BY VARIETY NAME ONLY, AS NO 81 "no," go TED AS TO NUMBER OF NO RELEASED, USED, OFFERED F NO NO NO NO NO NO NO NO NO N	tissue culture will be deposited and maintain VPO) A CLASS OF CERTIFIED SEED? (See Second to item 20) B. IF "YES" TO ITEM 18, WHICH CLASSES FOUNDATION REGISTER! OR SALE, OR MARKETED IN THE U.S. OR of the control of the certificate. and will be replemished upon request in accommodation of the duration of the certificate. ety, and believe(s) that the variety is new, of Act. S. URE OF APPLICANT (Owner(s))	506-458-8765 15. SAX Include area code) 506-459-056 ed in a public repository) on 83(a) of the Mant Variety Protection Act/7 OF PRODUCTION SEYOND BREEDER SEED? ED CERTINED THER COUNTRIES?
NEW MARYLAND, N. B. E 3C 1 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a Exhibit A. Origin and Breeding History of the Variety 5. Exhibit B. Statement of Distinctness c. Exhibit C. Objective Description of the Variety d. Exhibit C. Objective Description of the Variety d. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (2.500 viable untrested seeds or, for tuber propion of the Variety of the of Sample of Sampl	egated varieties verification that of the United States" (Mail to P D BY VARIETY NAME ONLY, AS NO ST "no," or TED AS TO NUMBER OF IS RELEASED, USED, OFFERED F IS NO rill-be furnished with application ited in a public repository and m and or tuber propagated plant varie of the Plant Variety Protection of protection and result in penaltic SIGNATU	CENTERN LETTEN LETTE	506-458-8765 15. SAX Include area code) 506-459-056 SO6-459-056 SO6-459-056 SO6-459-056 SO6-459-056 SO6-459-056 SO6-459-056 SO6-459-056 SO6-459-056 SO6-459-066 SO

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed Exhibits A, B, C, E; (3) at least 2,500 viable untreasted be deposited and maintained in a public repository prior to issuance of a certificate; (4) check drawn on a U.S. bank for \$2,450 and Rules of Practice.) Partial applications will be held in the PVPO for not more than 30 days, then returned to the applicant as Baltimore Blvd., Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are sel materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the Certificate.

Plant Variety Protection Office Telephone: (301) 504-5518

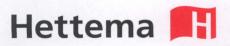
ITEM

- 16a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
 - (2) the details of subsequent stages of selection and multiplication;
 - (3) evidence of uniformity and stability; and
 - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 16b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences;
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 16c. Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 16e. Section 52(4) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employee of the breeder, the owner through purchase or inheritance, etc.
- 17. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant may NOT issued. However, if "No" has been specified, the applicant may change the choice. (See P.L. 103-349 for additional
- 20. See Sections 41, 42, and 43 of the Act and Section 97.175 of the regulations for eligibility requirements.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 218 Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705.

Audic reporting burden for this collection of information is estimated to everage 30 minutes per response, including the time for reviewing instructions, searching existing data sources, pathering and maintaining the data reviewing the data reviewing the data sources, pathering and suggestions for reducing this burden estimate or any other espect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Washington, DC 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 0681-0066), Washington, DC 20503.



ADORA

16A Revised Exhibit A: Origin and Breeding History of the Variety

The breeding of ADORA was conducted in Groningen, The Netherlands, the region where the trial field of the breeder A.D. Mulder was situated. The variety originates from the sexual crossing Primura * Alcmaria.

The pedigree of ADORA is as follows:

PRIMURA * ALCMARIA

Date Subject Your reference Our reference Telephone number ADORA is derived from a convential crossing of the potato variety Alcmaria (father) and Primura (mother) (see attached description). Like all potato varieties, ADORA has been multiplied vegetatively by clonal selection.

We have been testing the potato variety ADORA 10 years within the company and 2 years officially (DUS-testing) in the Netherlands.

Since the seedling tuber, the variety is stable, at the moment 22 annual generations.

In the variety ADORA the frequency of variants and off-types is very low and in the Dutch system of inspection of seed potatoes, variants and offtypes are not accepted. Multiplication of the variety must be according the original description. In our system of clonal selection, we select according the original description, which means variants and off-types are not present.

The selection criteria for the subject variety was a very early table potato with resistance to the golden nematode and of course a range of agricultural characteristics as stated in the annex.

The breeding method is first to make an artificial cross Primura * Alcmaria. The true seed derived from artificial cross Primura * Alcmaria are shown in the greenhouse and transformed in seedling tubers. In the population is started clonal selection during a period of about 8 years to select the variety. Then clonal selection is continued for multiplication of healthy basic seed to introduce the variety in the market.

Emmeloord, 1st October 1998

HETTEMA B.V

TEMA

Ir. J.R. van Loon

Managing Director Research & Development

Hettema by

Randweg 25 P.O. Box 99

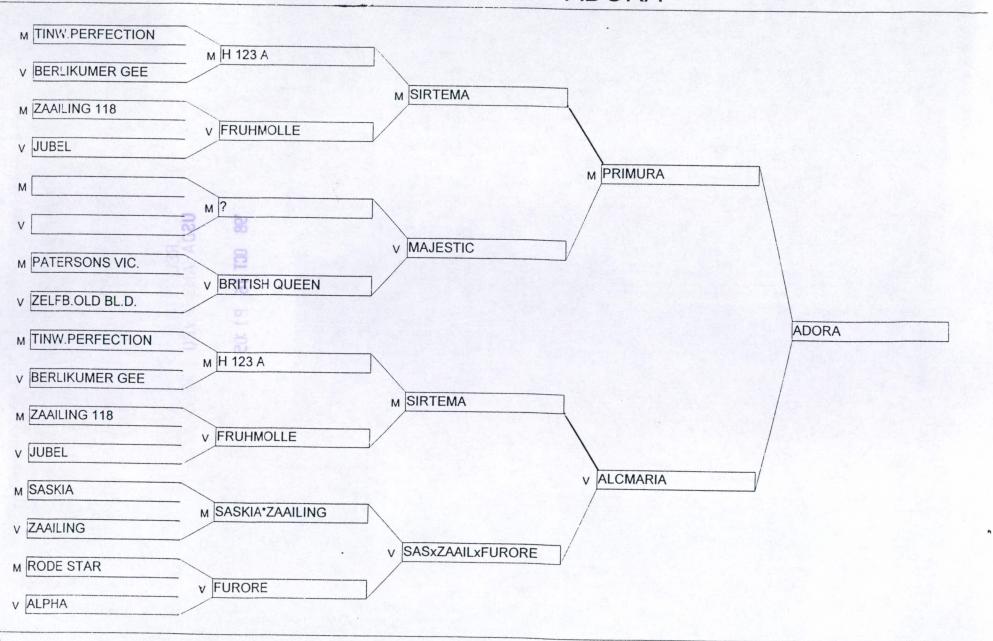
Telephone (0)527 635000 8304 AS Emmeloord (Holland) Fax (0)527 635350/635234 Cables Hettema Emmeloord 8300 AB Emmeloord (Holland) Telex 42108 hzeo nl

Bankers ABN-Amro Emmeloord nr. 47.12.29.547 HRG Lelystad nr. 39041060

* M = MOTHER V = FATHER

PEDIGREE

ADORA



Tests and Evaluation SELECTION CRITERIA ADORA Hettema H

...year of testing

				9					
general agricultural and morphological characteristics	1 st 2	ond 3rd	4 th	5 th	6 th	7 th	8th	9 th	10 th
cooking type discoloration after cooking crisps french fries			•	•	•	• • • •	•	• • •	• • •
potato cyst nematode wart disease late blight in foliage late blight in tubers scab dry rot spraing erwinias virus (PVYN, PLRV, PVX, PVA)			•		•		• • • • • • • • • • • • • • • • • • • •		• • • • • •
internal bruising mechanical damage TGA (total glycoalkaloid) dormancy drought				•	•	•	•	•	•



ADORA

Revised Exhibit B: Statement of Distinctness

Date Subject Your reference Our reference Telephone number

ADORA is most similar to Yukon Gold, ADORA differs from Yukon Gold in being an earlier variety. Also ADORA is resistant to golden nematode (Globodera Rostochiensis) Ro1 + Ro4. ADORA has a better resistance to tuber blight, PCN and virus diseases. ADORA has a better grading and a higher yield. ADORA has a smooth pale-yellow skin and a creamy flesh color.

Cooking type A-B

October 1998 Emmeloord,

Ir. J.P. van Loon

Managing Director Research & Development

Hettema by

1997 POTATO VARIETY DESCRIPTION TRIAL EXETER, MAINE - USA

Conducted for:

Hettema Canada, Inc. P.O. Box 32133 Moncton, New Brunswick CANADA E1A 6S8

Conducted by:

Bio-Ag Research, Inc. 47 Beech Grove Avenue Glenburn, Maine 04401 - USA Ed Plissey, Research Director

Phone (207) 947-0417 Fax: (207) 945-4803

1997 POTATO VARIETY DESCRIPTION TRIAL **EXETER, MAINE - USA**

Cooperators:

Gerard Basten, Area Manager

Hettema Canada, Inc. P.O. Box 32133

Moncton, New Brunswick CANADA E1A 6S8

506-858-8009

Edwin S. Plissey, Res. Director

Bio-Ag Research, Inc. 47 Beech Grove Avenue Glenburn, ME 04401

207-947-0417

Grower Cooperator:

Vernon & Neal Crane

Crane Brothers RFD #1, Box 2840

East Corinth, ME 04427

207-379-2641

Plot Location:

Rockwell Farm

East Corinth, Maine

Trial Data:

Soil:

Bangor silt loam

pH:

Previous Crop: Field Corn (Fall Chisel Plowed)

Planting Date: May 27, 1997

Fertilization: In furrow and broadcast Normal Grower program

Tillage:

Pest Control: Normal grower program 8 Fungicide applications

Vine Kill:

September 8, 1997

Harvest:

September 27, 1997

Grading:

October 21 & 22, 1997

Spec. Gravity: SFA Hydrometer method

1997 POTATO VARIETY DESCRIPTION TRIAL EXETER, MAINE - USA

OBJECTIVE:

The objective of this trial was to grow potato plants and tubers to for use in preparing potato variety descriptions for examination by the Plant Variety Protection Office of the USDA/AMS.

MATERIALS & METHODS:

Trial Design:

The trial site was laid out in a randomized complete block design with four replications. Varieties were hand planted in twenty hill, single row plots at 9 inch spacing in 36 inch spaced rows.

Planting:

Trial was planted May 27, 1997.

Fertilization:

A combination of in furrow application, pre and post planting broadcast treatments delivered 160# N - 180# P and 140# K per acre to the trial site.

Harvest:

The trial site was vine desiccated on September 8 with Diquat applied at 1.0 pt./Ac. and harvested on September 27 th.

Growing Season:

The growing season started off with adequate heat and soil moisture. However, it became very dry in July and early August and all varieties were drought stressed and produced lower yield than normal for the standards. No problems with foliar disease or insect pressure was noted during the growing season. Foliage and inflorescence evaluations were recorded on August 6 - 8, 1997.

Table 1. Plant Vigor, Tuber Data, Total and Marketable Yield, Specific Gravity and Tuber Defects of Potato Variety Description Clones Grown at Exeter, Maine - 1997.

Clone	Percent stand	Plant Vigor at Vine Kill	Tubers per Plant	Average Tuber Wt. Gm./Tuber	Total Yield	Marketable Yield 1-7/8 - 4.0"	Specific Gravity	Percentage Tuber Defects
					(Cwt./Ac.)	(Cwt./Ac.)		
Adora	100	4.0	6.0	103.2	261.7	177.9	1.069	23% Common scab
Erntestolz	100	4.0	7.3	74.7	230.8	205.5	1:076	2% Sunburn
Felsina	100	3.5	5.9	90.5	226.1	205.8	1.068	2% Bruise
Liseta	100	3.5	5.7	84.9	204.9	188.5	1.075	1% Common scab
Mondial	100	4.0	6.0	95.8	245.4	225.8	1.074	1% Bruise
Morene	100	3.5	5.9	84.9	212.8	191.5	1.075	3% Sunburn
/ital	96	3.0	6.2	70.4	191.6	159.0	1.069	5% Bruise
Atlantic	100	4.0	3.8	141.0	202.9	192.8	1.089	5% Common scab
Kennebec	92	4.0	4.5	113.9	215.1	191.4	1.082	3% Common scab
Shepody	96	3.5	4.4	109.4	220.3	202.7	1.079	4% Common scal
Superior	88	3.0	4.5	127.7	250.5	232.9	1.077	2% Sunburn
Yukon Gold	96	3.5	3.8	124.8	213.4	189.9	1.076	5% Common scab

Vigor at vine kill: 1=Very weak; 2=Weak; 3=Moderate; 4=Strong; 5=Very strong

Exhibit C (Potato)

OBJECTIVE DESCRIPTION OF VARIETY

POTATO (Solanum tuberosum L.)

IAME OF APPLICANT(S)		FOR OFFICIAL USE ONLY		
Hettema		PVPO NUMBER		
ADDRESS		VARIETY NAME		
P.O. Box 99		Adora		
8300 AB Emmeloo	ord, the Netherlands	TEMPORARY OR EXPERIMENTAL DESIGNATION		
REFERENCE VARIETY I (RI	REFERENCE	VARIETY 2 (R2)		
Yukon Gold	Superio	or		
I. MARKET CHARACTERIST MARKET CLASS: 1 = Yellow-flesh tables 5 = Russet tablestock;	stock; 2 = Round-white tablestock; 3 =	= Chip-processing; 4 = Frozen-processing		
VARIETY	RI	R2		
1	1	2		
2. PLANT CHARACTERISTIC GROWTH HABIT: 1 = Erect (>45° with grown variety	round); 5 = Semi-erect (30-45° with gr	round); 7 = Spreading.		
GROWTH HABIT: 1 = Erect (>45° with gr VARIETY	round); 5 = Semi-erect (30-45° with gr	R2		
GROWTH HABIT: 1 = Erect (>45° with grant VARIETY 3 TYPE:	round); 5 = Semi-erect (30-45° with gr	R2		
GROWTH HABIT: 1 = Erect (>45° with grant VARIETY 3 TYPE:	round); 5 = Semi-erect (30-45° with gr R1 6 stems clearly visible: 2 = Intermediate; 3 =	R2 6 Leaf (foliage closed, stems hardly visible)		
GROWTH HABIT: 1 = Erect (>45° with gr VARIETY 3 TYPE: 1 = Stem (foliage open, s VARIETY	round); 5 = Semi-erect (30-45° with gr R1 6 stems clearly visible: 2 = Intermediate; 3 =	R2 6 Leaf (foliage closed, stems hardly visible) R2		
GROWTH HABIT: 1 = Erect (>45° with grant variety) 3 TYPE: 1 = Stem (foliage open, sand variety) 2	round); 5 = Semi-erect (30-45° with gr R1 6 stems clearly visible: 2 = Intermediate; 3 = R1 2	R2 6 Leaf (foliage closed, stems hardly visible) R2 2		
GROWTH HABIT: 1 = Erect (>45° with grant variety) 3 TYPE: 1 = Stem (foliage open, sand variety) 2	round); 5 = Semi-erect (30-45° with gr R1 6 stems clearly visible: 2 = Intermediate; 3 =	R2 6 Leaf (foliage closed, stems hardly visible) R2 2		
GROWTH HABIT: 1 = Erect (>45° with gr VARIETY 3 TYPE: 1 = Stem (foliage open, s VARIETY 2 MATURITY: Days aft	round); 5 = Semi-erect (30-45° with gr R1 6 stems clearly visible: 2 = Intermediate; 3 = R1 2 ter planting (DAP) at vine senescence	R2 6 Leaf (foliage closed, stems hardly visible) R2 2		
GROWTH HABIT: 1 = Erect (>45° with gr VARIETY 3 TYPE: 1 = Stem (foliage open, s VARIETY 2 MATURITY: Days aft VARIETY NA	round); 5 = Semi-erect (30-45° with gr R1 6 stems clearly visible: 2 = Intermediate; 3 = R1 2 ter planting (DAP) at vine senescence.	R2 6 Leaf (foliage closed, stems hardly visible) R2 2 R2		
GROWTH HABIT: 1 = Erect (>45° with gr VARIETY 3 TYPE: 1 = Stem (foliage open, s VARIETY 2 MATURITY: Days aft VARIETY	round); 5 = Semi-erect (30-45° with grade R1) 6 stems clearly visible: 2 = Intermediate; 3 = R1 2 ter planting (DAP) at vine senescence R1 115	R2 6 Leaf (foliage closed, stems hardly visible) R2 2 R2		
GROWTH HABIT: 1 = Erect (>45° with grade variety) 3 TYPE: 1 = Stem (foliage open, sand variety) 2 MATURITY: Days afta variety NA PLANTING DATE:	round); 5 = Semi-erect (30-45° with grade R1) 6 stems clearly visible: 2 = Intermediate; 3 = R1 2 ter planting (DAP) at vine senescence R1 115	R2 6 Leaf (foliage closed, stems hardly visible) R2 2 R2 NA		
GROWTH HABIT: 1 = Erect (>45° with grade variety) 3 TYPE: 1 = Stem (foliage open, sand variety) 2 MATURITY: Days after variety NA PLANTING DATE: VARIETY May 27, 1997 REGION/AREA:	round); 5 = Semi-erect (30-45° with grade R1) 6 stems clearly visible: 2 = Intermediate; 3 = R1 2 ter planting (DAP) at vine senescence R1 115 R1 May 27, 1997	R2 6 Leaf (foliage closed, stems hardly visible) R2 2 R2 NA R2 NA R2 May 27, 1997		
GROWTH HABIT: 1 = Erect (>45° with grade variety) 3 TYPE: 1 = Stem (foliage open, sand variety) 2 MATURITY: Days aft variety NA PLANTING DATE: VARIETY May 27, 1997	round); 5 = Semi-erect (30-45° with grade R1 6 stems clearly visible: 2 = Intermediate; 3 = R1 2 ter planting (DAP) at vine senescence R1 115	R2 6 Leaf (foliage closed, stems hardly visible) R2 2 R2 NA R2 R2		

MATURITY CLASS:

1 = Very Early (<100 DAP); 2 = Early (100-110 DAP); 3 = Mid-season (111-120 DAP); 4 = Late (121-130 DAP): 5 = Very Late (> 130 DAP).

VARIETY	RI	R2	
2	3	3	

3. STEM CHARACTERISTICS: Measure at early first bloom

STEM ANTHOCYANIN COLORATION:

1 = Absent; 3 = Weak; 5 = Medium; 7 = Strong; 9 = Very Strong

VARIETY	RI	R2
1	2	3

STEM WINGS

1 = Absent; 3 = Weak; 5 = Medium; 7 = Strong; 9 = Very Strong

VARIETY	RI	R2
4	4	5

4. LEAF CHARACTERISTICS:

LEAF COLOR: Observe fully developed leaves located on middle of plant

1 = Yellowish-green; $2 = $ Oliv	e-green; 3 = Medium green; 4 = Dark	green; 5 = Grey-green; 6 = other
VARIETY	R1	R2

VARIETY		R1		R2
3	3		3	

LEAF COLOR: Observe fully developed leaves located on middle 5 of plant Royal Horticulture Society Color Chart

VARIETY	RI	R2
137B	137A	147A

LEAF PUBESCENCE DENSITY:

1 = Absent; 2 = Sparse; 3 = Medium; 4 = Thick; 5 = Heavy

VARIETY	R1	R2
1	2	2

LEAF PUBESCENCE LENGTH:

1 = None: 2 = Short: 3 = Medium: 4 = Long: 5 = Very long

VARIETY OCI 10	bl Out RI	R2
1	2	2

LEAF SILHOUETTE

1 =Closed: 3 =Medium: 5 =Open

VARIETY	R1	R2	
4	4	3	

PETIOLES ANTHOCYANIN COLORATION:

VARIETY	RI	R2
	1	1
LEAF STIPULES SIZE		
VARIETY	RI	R2
	3	3
TERMINAL LEAFLET	SHAPE:	
		= Lanceolate; 5 = Elliptical;
VARIETY	RI	R2
	3	3
TERMINAL LEAFLET	TIP SHAPE:	
1 = Acute; 2 = Cuspidat	te; 3 = Acuminate; 4 = Obtuse; 5 = ot	her
VARIETY	R1	R2
	3	3
TERMINAL LEAFLET	T BASE SHAPE:	
		te; 6 = Lobed; 7 = Other
VARIETY	R1	R2
	4	4
TERMINAL LEAFLET	MARGIN WAVINESS:	
1 = Absent; 2 = Slight;	3 = Weak; 4 = Medium; 5 = Strong	
VARIETY	RI	R2
	2	2
NUMBER OF PRIMAR	RY LEAFLET PAIRS:	
AVERAGE:		
VARIETY	RI	R2
	5	5
RANGE:		
VARIETY	RI	R2
	4-6-01-10	3-6
PRIMARY LEAFLET		
		ther
VARIETY	N20V-V-RI	R2
	3	3
	VARIETY LEAF STIPULES SIZE 1 = Absent; 3 = Small; VARIETY TERMINAL LEAFLET 1 = Narrowly ovate; 2 = 6 = Obovate; 7 = Oblon VARIETY TERMINAL LEAFLET 1 = Acute; 2 = Cuspidat VARIETY TERMINAL LEAFLET 1 = Cuneate; 2 = Acute VARIETY TERMINAL LEAFLET 1 = Absent; 2 = Slight; VARIETY NUMBER OF PRIMAL AVERAGE: VARIETY PRIMARY LEAFLET 1 = Acute; 2 = Cuspidat	LEAF STIPULES SIZE 1 = Absent; 3 = Small; 5 = Medium: 7 = Large VARIETY R1 3 TERMINAL LEAFLET SHAPE: 1 = Narrowly ovate; 2 = Medium ovate; 3 = Broadly ovate; 4 6 = Obovate; 7 = Oblong; 8 = other VARIETY R1 3 TERMINAL LEAFLET TIP SHAPE: 1 = Acute; 2 = Cuspidate; 3 = Acuminate; 4 = Obtuse; 5 = ot VARIETY R1 3 TERMINAL LEAFLET BASE SHAPE: 1 = Cuneate; 2 = Acute; 3 = Obtuse; 4 = Cordate; 5 = Trunca VARIETY R1 4 TERMINAL LEAFLET MARGIN WAVINESS: 1 = Absent; 2 = Slight; 3 = Weak; 4 = Medium; 5 = Strong VARIETY R1 2 NUMBER OF PRIMARY LEAFLET PAIRS: AVERAGE: VARIETY R1 5 RANGE: VARIETY R1 4-6 PRIMARY LEAFLET TIP SHAPE: 1 = Acute; 2 = Cuspidate; 3 = Acuminate; 4 = Obtuse; 5 = Obt

PRIMARY LEAFLET SHAPE:

1 = Narrowly ovate: 2 = Medium ovate; 3 = Broadly ovate; 4 = Lanceolate; 5 = Elliptical; 6 = Oboyate: 7 = Oblong: 8 = Other

6 = Obovate; 7 = Oblor	ng; 8 = Other	
VARIETY	R1	R2
2	2	2
PRIMARY LEAFLET	BASE SHAPE:	
1 = Cuneate; 2 = Acute	2; 3 = Obtuse; 4 = Cordate; 5 = Trunca	ate: 6 = Lobed; 7 = Other
VARIETY	RI	R2
3	4	4
NUMBER OF SECON AVERAGE:	DARY AND TERTIARY LEAFLET	PAIRS:
VARIETY	RI	R2
VAIGLTT	KI	RZ
6	7.2	8
RANGE:		
VARIETY	RI	R2
3-9	4-11	3-12
VARIETY	RI	R2
4	3.7	3.6
RANGE:		
VARIETY	RI	R2
1-6	1-7	3-4
NUMBER OF FLORE AVERAGE:	TS / INFLORESCENCE:	
VARIETY	RI	R2
11	18.5	15.3
RANGE:		
VARIETY	RI	R2
6-17	10-34	7-30
COROLLA INNER SU	IDEACE COLOD: Maggire prodon	ninant color of newly open flower RHSCC.
VARIETY	R1	R2
	HED THE BULL OF	RZ
155C	76B	76C
COROLLA OUTER S	URFACE COLOR: RHSCC	
VARIETY	R1	D2
		R2
1	2	2

COROLLA SHAPE:

VARIETY	RI	R2
2	2	3
CALYX ANTHOCYA	NIN COLORATION:	
	5 = Medium; 7 = Strong; 9 = Very str	rong
VARIETY	R1	R2
1	1	1
ANTHER COLOR: M	leasure when newly opened flower is f	fully expanded RHSCC
VARIETY	RI	R2
14A	17B	17B
ANTHER SHAPE:		
1 = Broad cone; 2 = N	arrow cone; $3 = Pear shape cone; 4 = 1$	Loose; 5 = Other
VARIETY	RI	R2
3	3	3
POLLEN PRODUCTI	ON:	
1 = None; $3 = Some$; 5		
1 = None; 3 = Some; 5 VARIETY	5 = Abundant R1	R2
VARIETY		R2
VARIETY	RI	
VARIETY 1 STIGMA SHAPE: 1 = Capitate; 2 = Clava	R1 1 ate; 3 = Bi-lobed	
VARIETY 1 STIGMA SHAPE:	RI 1	
VARIETY 1 STIGMA SHAPE: 1 = Capitate; 2 = Clave VARIETY	R1 1 ate; 3 = Bi-lobed	1
VARIETY 1 STIGMA SHAPE: 1 = Capitate; 2 = Clave VARIETY	R1 1 ate; 3 = Bi-lobed R1	I R2
VARIETY 1 STIGMA SHAPE: 1 = Capitate; 2 = Clave VARIETY 1	R1 1 ate; 3 = Bi-lobed R1	I R2
VARIETY 1 STIGMA SHAPE: 1 = Capitate; 2 = Clava VARIETY 1 STIGMA COLOR: RF	R1 1 ate; 3 = Bi-lobed R1 1 HSCC	1 R2
VARIETY 1 STIGMA SHAPE: 1 = Capitate; 2 = Clava VARIETY 1 STIGMA COLOR: REVARIETY 144B	R1 1 ate; 3 = Bi-lobed R1 1 HSCC R1 152A	1 R2 1 R2
VARIETY 1 STIGMA SHAPE: 1 = Capitate; 2 = Clava VARIETY 1 STIGMA COLOR: RE VARIETY 144B BERRY PRODUCTION	R1	1 R2 1 R2 146B
VARIETY 1 STIGMA SHAPE: 1 = Capitate; 2 = Clava VARIETY 1 STIGMA COLOR: RE VARIETY 144B BERRY PRODUCTION	R1 1 ate; 3 = Bi-lobed R1 1 HSCC R1 152A DN: UNDER FIELD CONDITIONS:	1 R2 1 R2 146B

.98 OCT 16 P1 TO

USDA-AMS PVPD

6. TUBER CHARACTERISTICS:

PREDOMINANT SKIN COLOR:

1 = White; 2 = Light Yellow; 3 = Yellow; 4 = Buff; 5 = Tan; 6 = Brown; 7 = Pink; 8 = red;

9 = Purplish-red; 10 = Purple; 11 = Dark purple-black; 12 = Other

VARIETY	RI	R2
2	3	5
RHSCC:		

VARIETY	R1	R2
162B	162B	161B

SECONDARY SKIN COLOR:

1 = Absent; 2 = Present, please describe

VARIETY	RI	R2
1	2	1

RHSCC:

VARIETY	R1	R2	
NA	39B	NA	

SECONDARY SKIN COLOR DISTRIBUTION:

1= Eyes: 2 = Eyebrows: 3= Splashed: 4 = Scattered: 5 = Spectacled: 6 = Stippled: 7 = Other

VARIETY	RI	R2
NA	1	NA

SKIN TEXTURE:

1 = Smooth; 2 = Rough (flaky); 3 = Netted; 4 = Russetted; 5 = Heavily russetted; 6 = Other

VARIETY	RI	R2
1	1	2

TUBER SHAPE:

1 = Compressed; 2 = Round; 3 = Oval; 4 = Oblong; 5 = Long; 6 = Other

		Long, o Other	Ovar, 4 Colong, 5	compressed, 2 Round, 5	
	R2		R1	VARIETY	
THE STATE OF THE S		2	2		1
		2			7
		2	2	2	4

.98 OCT 16 PT:03

TUBER THICKNESS: 1 = Round: 2 = Medium thi	ick: 3 = Slightly flatted; 4 = Flatted	; 5 = Other
VARIETY	R1	R2
3	2	2
TUBER LENGTH (mm):		
AVERAGE: VARIETY	R1	R2
77.8	65.8	66.5
RANGE:		
VARIETY	R1	R2
50-105	45-110	40-100
STANDARD DE	VIATION:	
VARIETY	RI	R2
25.5	6.5	3.5
AVERAGE WEIG	GHT OF SAMPLE TAKEN:	
VARIETY	RI	R2
27.2#	20.3#	15.5#
TUBER WIDTH (mm): AVERAGE:		
VARIETY	RI	R2
59.4	60.6	58.6
	00.0	50.0
RANGE: VARIETY	RI	R2
VARIETY	RI	RZ
45-75	40-80	35-80
STANDARD DE	VIATION:	
VARIETY	RI	R2
4.4	3.4	4.4
AVERAGE WEIG	GHT OF SAMPLE TAKEN:	
VARIETY	RI	R2
27.2# .88 .001 1	20.3#	15.5#
TUBER THICKNESS (mn AVERAGE:		
VARIETY	RI RI	R2
44.1	47.8	46.1
RANGE:		
VARIETY	RI	R2
35-55	35-70	30-65

	DEVIATION:	
VARIETY	RI	R2
3.3	3.2	2.4
AVERAGE V	WEIGHT OF SAMPLE TAKEN:	
VARIETY	RI	R2
27.2#	20.3#	15.5#
TUBER EYE DEPTH		
	allow; 3 = Intermediate; 4 = Deep; 5 =	
VARIETY	R1	R2
2	3	2
TUBER LATERAL E		
	allow; 3 = Intermediate; 4 = Deep; 5	
VARIETY	RI	R2
2	2	2
NUMBER EYE / TUE AVERAGE:	ER:	
VARIETY	R1	R2
9.5	8.75	11
RANGE:		
VARIETY	R1	R2
6-11	6-11	9-13
DISTRIBUTION OF		
	cal; 2 = Evenly distributed	
VARIETY	RI	R2
1	1	2
PROMINENCE OF T		
1 = Not prominent; 2 =	= Slight prominence; 3 = Medium pro	minence; 4 = very prominenece; 5 Other
		minence; 4 = very prominenece; 5 OtherR2
1 = Not prominent; 2 = VARIETY	= Slight prominence; 3 = Medium pro	
1 = Not prominent; 2 = VARIETY	= Slight prominence; 3 = Medium pro	R2
1 = Not prominent; 2 = VARIETY	= Slight prominence; 3 = Medium pro R1	R2
1 = Not prominent; 2 = VARIETY 1 PRIMARY TUBER FIVARIETY	= Slight prominence; 3 = Medium pro R1 1 LESH COLOR: RHSCC	R2
1 = Not prominent; 2 = VARIETY 1 PRIMARY TUBER FI VARIETY 4D SECONDARY TUBE	RI LESH COLOR: RHSCC RI 4C R FLESH COLOR:	R2 1 R2
1 = Not prominent; 2 = VARIETY 1 PRIMARY TUBER F VARIETY 4D SECONDARY TUBE 1 = Absent; 2 = Preser	R1 1 LESH COLOR: RHSCC R FLESH COLOR: at, please describe	1 R2 155A
1 = Not prominent; 2 = VARIETY 1 PRIMARY TUBER FI VARIETY 4D SECONDARY TUBE	RI LESH COLOR: RHSCC RI 4C R FLESH COLOR:	R2 1 R2
1 = Not prominent; 2 = VARIETY 1 PRIMARY TUBER FI VARIETY 4D SECONDARY TUBE 1 = Absent; 2 = Preser VARIETY	R1 1 LESH COLOR: RHSCC R FLESH COLOR: at, please describe	1 R2 155A
1 = Not prominent; 2 = VARIETY 1 PRIMARY TUBER FINANCE VARIETY 4D SECONDARY TUBE 1 = Absent; 2 = Preser VARIETY 1	RI LESH COLOR: RHSCC RI 4C R FLESH COLOR: RI RI RI RI RI RI RI RI RI RI	R2 1 R2 155A R2
1 = Not prominent; 2 = VARIETY 1 PRIMARY TUBER FOUNDAMENT VARIETY 4D SECONDARY TUBE 1 = Absent; 2 = Preservent	RI LESH COLOR: RHSCC RI 4C R FLESH COLOR: RI RI RI RI RI RI RI RI RI RI	R2 1 R2 155A R2

NUMBER OF TUBER / PLANT:

1 = Low(<8); 2 = Medium(8-15); 3 = High(>15)

VARIETY	R1	R2
1	1	1

7. DISEASES CHARACTERISTICS:

DISEASES REACTION:

0 = Not tested; 1 = Resistant; 3 = Moderately resistant; 5 = Moderately susceptible; 7 = Susceptible;

9 = Highly susceptible

BACTERIAL RING RO VARIETY	R1		R2
Y MULTI			102
0	0	0	
BACTERIAL RING RO	OT: Tuber reaction		
VARIETY	RI		R2
0	0	0	
LATE BLIGHT			
VARIETY	RI		R2
0 7	0	0	
PLRV			
VARIETY	R1		R2
9 3	0	0	
PVX			
VARIETY	RI		R2
6 3	0	0	
PVY			
VARIETY	RI		R2
0 3	0	0	
OTHER A VIRUS			
VARIETY	RI		R2
2 20	PC1 10	0	
OTHER_	not 14 01 113		
VARIETY	RI		R2
uso	Y-THP EAGO		

8. PESTS CHARACTERISTICS:

PEST REACTION:

0 = Not tested; 1 = Resistant; 3 = Moderately resistant; 5 = Moderately susceptible; 7 = Susceptible;

9 = Highly susceptible

GOLDEN NEMATODE RO1+RO4

VARIETY	RI	R2
Q 1	0	0
OTHER		

VARIETY	RI	R2
		0

9. GENE TRAITS:

INSERTION OF GENES:

YES NO X

IF YES, DESCRIBE

10. QUALITY CHARACTERISTICS:

CHIEF MARKET: TABLE STOCK

SPECIFIC GRAVITY:

 $1 < 1.060 \cdot 2 = 1.060 \cdot 1.069 \cdot 3 = 1.070 \cdot 1.079 \cdot 4 = 1.080 \cdot 1.089 \cdot 5 > 1.090$

VARIETY	RI	R2
2	3	3

TOTAL GLYCOALKALOID CONTENT (mg./100g, fresh tuber):

VARIETY	RI	R2
NA 9	NA	NA

OTHER QUALITY CHARACTERISTICS:

'98 DCT 16 P1:03

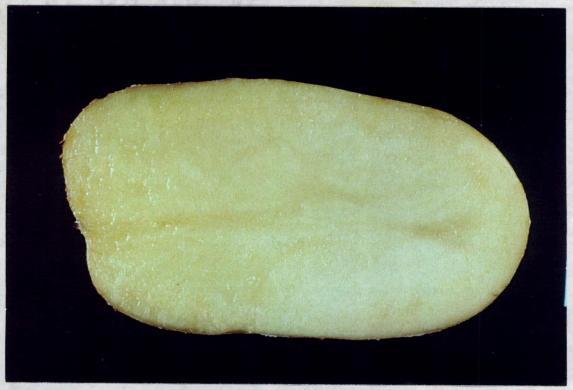
12. CHEMICAL IDENTIFICATION:

USDA- CHE PYPU

13. ADDITIONAL COMMENTS AND CHARACTERISTICS:

NO DISCOLOURATION AFTER COOKING. COOKING TYPE A-B.



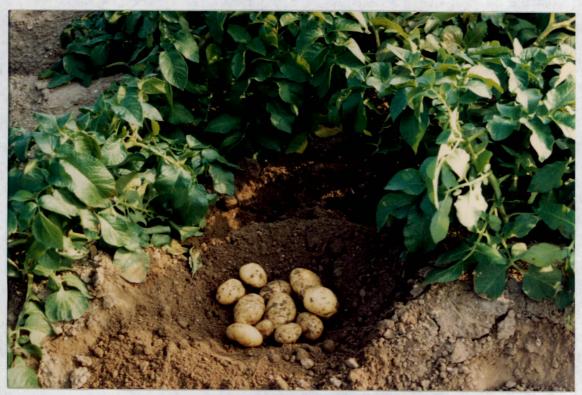


RECEIVED 10/16/98



RECEIVED 10/16/98





RECEIVED 02/12/97





RECEIVED 10/16/98

EXHIBITD

Requesting authority : GEVES, Guyancourt, F

Application No.: 60822

Reporting authority

: Raad voor het Kwekersrecht, Reference No. : ARD 866

Wageningen, NL

Species

: Potato

Breeder's reference

: Mulder c 108

Denomination

: ADORA

A. Characteristics mentioned in the UPOV-guideline TG/23/5 dd 21-11-1986 are numbered correspondingly.

Light	sprout			
1	Size	:	medium to large	6
2	Shape	:	broad cylindrical	4
3	Anthocyanin coloration base	:	red-violet	1
4	Intensity anthocyanin coloration base	:	weak to medium	4
5	Pubescence base	:	weak to medium	4
6	Size tip	:	small to medium	4
7	Habit tip	:	closed to medium	4
8	Intensity anthocyanin coloration tip	:	very weak	1
9	Pubescence tip	:	weak	3
10	Number root tips	:	few to medium	4
11	Protrusion lenticells	:	medium to strong	6
12	Length lateral shoots	:	long	7
Plant				
13	Height	:	medium to tall	6
14	Type	:	stem-type	1
15	Growth habit		semi-erect to spreading	6
Stem				
16	Thickness main stem	:	thick	7
17	Extension anthocyanin	:	weak to medium	4

coloration

Lea	f				
	18	Size	:	very large	9
	19	Silhouette	:	closed to medium	4
	20	Intensity green color	:	light to medium	4
	21	Extension anthocyanin coloration midrib	:	weak	3
Lea	fle	at .			
	22	Size	:	large	7
	23	Width	:	medium	5
	24	Frequency coalescence	:	low to medium	4
	25	Waviness margin	:	weak to medium	4
	26	Depth veins	:	shallow to medium	4
	27	Anthocyanin pigmentation apical rosette	:	absent	1
	28	Glossiness upperside	:	glossy	7
	29	Frequency secondary leaflets on midrib	:	medium to high	6
	30	Frequency secundary leaflets on terminal leaflet	:	very low to low	2
	31	Frequency secundary leaflets on lateral leaflet	:	low	3
	32	Size secundary leaflets on lateral leaflet		large	7
In	flo	rescence			
	33	Size	:	large	7
	34	Anthocyanin coloration peduncle		strong	7
	35	Frequency of flowers	:	high	7
	36	Anthocyanin coloration flower bud		very strong	9
	37	Corolla size		large	7

DE	SCRIPTION		Application no. 60	822
38	Color innerside corolla		red-violet	2
39	Intensity anth. coloration in ner side corolla in col flower	n-:	medium	5
41	Size white tips in colored flowers		medium	5
42	Frequency fruits	:	medium to many	6
Plant				
43	Maturity	:	very early	1
Tuber				
44	Shape	:	oval	3
45	Depth eyes	:	shallow to medium	4
46	Smoothness skin	:	smooth to medium	4
47	Color skin	:	yellow	1
48	Color of base of eye	:	yellow	1
49	Color of flesh	:	cream	2
50	Anthocyanin coloration skin in reaction to light	n:	weak	3

B. <u>Difference</u> with other varieties:

The description given above characterizes the variety.

C. Additional data

Adora originates from the cross Primura x Alcmaria.

REPRODUCE LOCALLY. Include form number and date on all reproductions. U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in accordance with the Pr 1974 (5 U.S.C. 552s) and the Paperwork Reduction Act (PRA) of		
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plan- certificate is to be issued (7 U.S.C. 2421). Information until certificate is issued (7 U.S.C. 2426).		
1. NAME OF APPLICANTIS) Hettema B.V. 03/05/00 Jmp DER	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME	
Randweg 25, P.O. Box 99 8300 AB EMMELOORD The Netherlands	-	ADORA	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) P.O. BOX 385 03/05/00	5. TELEPHONE (include area code)	6. FAX (include area code)	
THE NETHERLANDS LETTER	7. PVPO NUMBER		
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate to	block. If no, please explain.	YES X NO	
see annex (question 11	1 42		
See annex (question in			
9. Is the applicant (individual or company) a U.S. national or U.S. based/company If no, give name of country	y?	YES NO	
10. Is the applicant the original owner? YES NO If no, please an	swer the following:		
a. If original rights to variety were owned by individual(s), is (are) to	the original owner(s) a U.S. natio	nal(s)?	
YES NO If no, give name of country The Ne			
123 No II no, give hame or county			
b. If original rights to variety were owned by a company, is the ori		pany?	
YES NO If no, give name of country The Ne	therlands		
11. Additional explanation on ownership (If needed, use reverse for extra space).			
The variety for which Plant Variety Protectideveloped by Mr. A.D. MULDER, Weerestein 1997 The Netherlands. Mr. A.D. Mulder is a privatettema B.V., Randweg 25, P.O. Box 99, 8300 By agreement between Mr. A.D. Mulder and Hetthe exclusive, world-wide representation for	e breeder, associ AB EMMELOORD, The tema B.V., Hettem	OM, ated with e Netherlands. a B.V. has	
PLEASE NOTE:			
	and of the fallenting arises		

Plant variety protection can be afforded only to owners (not licensees) who meet one of 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 of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 2. 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 nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the 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.

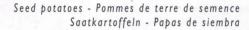
The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a v control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, The time required to complete this int

and maintaining the data needed, and completing and reviewing the collection of information. The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religious disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities which alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communication (202) 720-7808 (TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340

(202) 720-1127 (TDD). USDA is an equal employment opportunity employer.





Date Subject Your reference Our reference Telephone number

POWER OF ATTORNEY

The undersigned

Mr. A.D. Mulder Weerestein 199 2182 GW HILLEGOM

breeder of the potato variety ADORA herewith declares that

Hettema Zonen Kweekbedrijf B.V. Randweg 25 P.O. Box 99 8300 AB EMMELOORD The Netherlands

is his representative and is authorized to act on his behalf for the application and registration of plant breeders' rights of the above mentioned potato variety in the United States of America.

Hillegom, September 1996

Signature of the breeder of Adora

A.D. Mulder

Signature of the manager of Hettema Zonen Kweekbedrijf B.V.

Ir. J.P. van Loon

Hettema Zonen Kweekbedrijf by Randweg 25 8304 AS Emmeloord (Holland) P.O. Box 99 8300 AB Emmeloord (Holland) Telephone (0)527 635000 Telefax (0)527 635350/635234 Cables Hettema Emmeloord Telex 42108 hzeo nl

Bankers ABN-Amro Emmeloord nr. 47.12.29.547 HRG Lelystad nr. 39041061



Exhibit "F"

Upon the request of the Commissioner of the Plant Variety Protection

Office, Hettema Zonen Kweekbedrijf B.V. agrees to deposit at the U.S.

National Seed Storage Laboratory (NSSL) a viable tissue culture sample for the variety ADORA.

Hettema Zonen Kweekbedrijf B.V. further agrees to replenish the sample if viability does not meet or falls below NSSL standards.

Emmeloørd, September 1996

Ir. J.P. van Loon