

No.

9800271



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

DEKALB Genetics Corporation

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

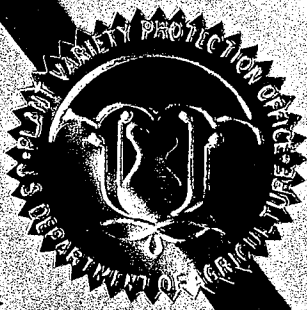
AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS 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 PURPOSE, 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.)

CORN, FIELD

'01DHD10'

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



Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture
William B. Egan

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE
 SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privac 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1
 Application is required in order to determine if a plant variety pr certificate is to be issued (7 U.S.C. 2421). Information is held con until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

1. NAME OF APPLICANT(S) <i>(see it is to appear on the Certificate)</i>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
DEKALB Genetics Corporation			01DHD10
4. ADDRESS <i>(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)</i>		5. TELEPHONE <i>(include area code)</i>	FOR OFFICIAL USE ONLY PVPO NUMBER 9800271
3100 Sycamore Road DeKalb, IL 60115		(815) 758-3461	
		6. FAX <i>(include area code)</i>	F I L I N G DATE 5/26/98
		(815) 758-4106	
7. GENUS AND SPECIES NAME	8. FAMILY NAME <i>(Botanical)</i>	FILING AND EXAMINATION FEE:	
Zea Mays	Gramineae	\$ 2,450	
9. CROP KIND NAME <i>(Common name)</i>		DATE 5/26/98	
Corn		CERTIFICATION FEE:	
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION <i>(corporation, partnership, association, etc.) (Common name)</i>		\$ 320.00	
Corporation		DATE 11/8/02	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION	12. DATE OF INCORPORATION		
Delaware	June 15, 1988		
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS			14. TELEPHONE <i>(include area code)</i>
Dr. Tim Kain, Patent Scientist Monsanto Company 3100 Sycamore Road DeKalb IL 60115 Ph. 815-758-9281 Fax 815-758-4106 trkain@monsanto.com			
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED <i>(Follow instructions on reverse)</i>			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety <i>(Optional)</i> e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Applicant's Ownership f. <input checked="" type="checkbox"/> Voucher Sample <i>(2,600 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository)</i> g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" <i>(Mail to PVPO)</i>			
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? <i>(See Section 83(a) of the Plant Variety Protection Act)</i>			
<input type="checkbox"/> YES <i>if "yes," answer items 18 and 19 below</i> <input checked="" type="checkbox"/> NO <i>if "no," go to item 20</i>			
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?		19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?	
<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?			
<input type="checkbox"/> YES <i>if "yes," give names of countries and dates</i> <input type="checkbox"/> NO			
U.S. February 1998			
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.			
The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.			
Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT <i>(Owner(s))</i>		SIGNATURE OF APPLICANT <i>(Owner(s))</i>	
<i>R. Mark Lawson</i>			
NAME <i>(Please print or type)</i>		NAME <i>(Please print or type)</i>	
R. Mark Lawson			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	D.
Director Research	5/18/98		

JMS 1/18/02

EXHIBIT A

Origin and Breeding History
01DHD10

01DHD10 was selected for greater combining ability and improved vigor, seed size, and stand establishment.

Summer 1988	The inbred line 2FACC (a proprietary DEKALB Genetics Corporation inbred) was crossed to inbred line FBLL (a proprietary DEKALB Genetics Corporation inbred) in nursery rows 88:101-63 & 88:102-90.
Winter 1988-89	The S0 seed was grown in nursery row 8W:25B-263.
Summer 1989	The S1 seed was grown in nursery rows 89:3-39 thru 89:3-64. 56 ears were kept.
Summer 1990	The S2 seed was grown ear-to-row and selected from nursery row 90:20-55.
Winter 1991-92	The S3 seed was grown ear-to-row and selected from nursery row 1W:U8-42..
Summer 1992	The S4 seed was grown ear-to-row and selected from nursery row 92:110-24.
Summer 1993	The S5 seed was grown ear-to-row and selected from nursery row 93:212-73. The selected ears were designated as 01DHD10.
Winter 1993-94	The S6 seed was grown ear-to-row and self-pollinated. The final selection of 01DHD10 was made in nursery row 3W:8N-1540.

Statement of Stability and Uniformity

Corn inbred 01DHD10 was coded in 1993 with final selection made in the Winter 1993-94. This inbred has been reproduced by self pollination in the past three years and judged to be stable. Inbred 01DHD10 is uniform for all traits observed.

Statement of Variants

01DHD10 shows no variants other than what would normally be expected due to environment or that would occur for almost any character during the course of repeated sexual reproduction.

EXHIBIT B

Statement of Distinctness

DEKALB Genetics Corporation believes that 01DHD10 is most similar to corn inbred FBLL, an inbred developed by DEKALB Genetics Corporation.

01DHD10 and FBLL differ most significantly in the following traits:

Disease Resistance:

Trait	01DHD10	FBLL
Nothern Leaf Blight (Race 2)	Susceptible <i>rating = 4</i>	Resistant <i>rating = 6</i>

scale: 1 = most susceptible to 9 = most resistant

SSR Profile of

LOCUS	01DHD10	FBLL
BNGL105	092	094
BNGL118	110	110
BNGL149	187	187
BNGL252	166	164
BNGL426	119	119
BNGL589	175	175
BNGL615	227	227
BNGL619	265	265
DUP14	112	112
DUP28	123	123
MC1014	161	161
MC1017	196	196
MC1018	130	130
MC1022	067	067
MC1043	175	175
MC1065	230	230
MC1079	177	177
MC1094	178	178
MC1108	122	122
MC1129	206	204
MC1131	109	109
MC1138	186	186
MC1176	220	220
MC1182	106	106
MC1189	219	219

MC1191	206	206
MC1194	143	143
MC1208	127	111
MC1209	184	184
MC1237	161	159
MC1257	187	187
MC1265	204	246
MC1287	160	160
MC1302	149	147
MC1305	160	160
MC1325	177	177
MC1329	093	093
MC1360	141	141
MC1371	124	124
MC1429	191	191
MC1449	095	096
MC1456	187	188
MC1484	124	124
MC1520	275	275
MC1523	199	199
MC1526	124	124
MC1538	237	237
MC1662	161	161
MC1720	241	241
MC1732	100	110
MC1740	120	120
MC1782	228	228
MC1784	250	250
MC1808	137	137
MC1831	186	184
MC1834	216	215
MC1839	186	186
MC1866	119	119
MC1890	136	136
MC1904	183	183
MC1917	109	109
MC1931	170	171
MC1940	222	222
MC2047	144	144
MC2086	242	242
MC2122	254	254
MC2132	223	240
MC2305	218	190
NC004	156	156
PHI024	171	171
PHI031	194	231
PHI033	257	257
PHI037	137	137
PHI050	092	092
PHI051	149	149

PHI064	104	104
PHI065	158	158
PHI072	149	149
PHI089	092	092
PHI093	293	293
PHI101	102	102
PHI119	176	172
PHI120	073	073

Primers used to detect SSRs are from Celera AgGen, Inc., 1756 Picasso Ave., Davis, CA 95616

Simple Sequence Repeats (SSRs) are genetic markers based on polymorphisms in repeated nucleotide sequences, such as microsatellites. A marker system based on SSRs can be highly informative in linkage analysis relative to other marker systems in that multiple alleles may be present.

Means for performing genetic analysis using SSR polymorphisms are well known in the art. The SSR analysis reported herein were conducted by Celera Ag Gen in Davis, CA. This analysis was carried out by amplification of simple repeats followed by detection of marker genotypes using gel electrophoresis. Markers are scored on the size of the amplified fragment.

The SSR profile of corn inbred 01DHD10 differs from the SSR profile of comparative corn inbred FBLL at a number of loci, which are highlighted.

United States Department of Agriculture, Agricultural Marketing Service
Science Division, Plant Variety Protection Office
National Agricultural Library Building, Room 500
Beltsville, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY
CORN (*Zea mays* L.)

Name of Applicant(s) DEKALB Genetics Corporation		Variety Seed Source	Variety Name or Temporary Designation 01DHD10																														
Address (Street & No., or R.F.D. No., City, State, Zip Code and Country) 3100 Sycamore Road, DeKalb, IL 60115 U.S.A.		FOR OFFICIAL USE																															
		PVPO Number 9800271																															
Place the appropriate number that describes the varietal characters typical of this inbred variety in the spaces below. Right justify whole numbers by adding leading zeroes if necessary. Completeness should be striven for to establish an adequate variety description. Traits designated by a '*' are considered necessary for an adequate variety description and must be completed.																																	
<p>COLOR CHOICES (Use in conjunction with Munsell color code to describe all color choices; describe #25 and #26 in Comments section):</p> <table border="0"> <tr> <td>01=Light Green</td> <td>06=Pale Yellow</td> <td>11=Pink</td> <td>16=Pale Purple</td> <td>21=Buff</td> </tr> <tr> <td>02=Medium Green</td> <td>07=Yellow</td> <td>12=Light Red</td> <td>17=Purple</td> <td>22=Tan</td> </tr> <tr> <td>03=Dark Green</td> <td>08=Yellow-Orange</td> <td>13=Cherry Red</td> <td>18=Colorless</td> <td>23=Brown</td> </tr> <tr> <td>04=Very Dark Green</td> <td>09=Salmon</td> <td>14=Red</td> <td>19=White</td> <td>24=Bronze</td> </tr> <tr> <td>05=Green-Yellow</td> <td>10=Pink-Orange</td> <td>15=Red & White</td> <td>20=White Capped</td> <td>25=Variegated (Describe)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>26=Other (Describe)</td> </tr> </table>				01=Light Green	06=Pale Yellow	11=Pink	16=Pale Purple	21=Buff	02=Medium Green	07=Yellow	12=Light Red	17=Purple	22=Tan	03=Dark Green	08=Yellow-Orange	13=Cherry Red	18=Colorless	23=Brown	04=Very Dark Green	09=Salmon	14=Red	19=White	24=Bronze	05=Green-Yellow	10=Pink-Orange	15=Red & White	20=White Capped	25=Variegated (Describe)					26=Other (Describe)
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<p>STANDARD INBRED CHOICES (Use the most similar (in background and maturity) of these to make comparisons based on grow-out trial data):</p> <table border="0"> <tr> <td>Yellow Dent Families:</td> <td>Yellow Dent (Unrelated):</td> <td>Sweet Corn:</td> </tr> <tr> <td>Family Members</td> <td>Co109, ND246,</td> <td>C13, Iowa5125, P39, 2132</td> </tr> <tr> <td>B14 CM105, A632, B64, B68</td> <td>Oh7, T232</td> <td></td> </tr> <tr> <td>B37 B37, B76, H84</td> <td>W117, W153R</td> <td>Popcorn:</td> </tr> <tr> <td>B73 N192, A679, B73, NC268</td> <td>W182BN</td> <td>SG1533, 4722, HP301, HP7211</td> </tr> <tr> <td>C103 Mo17, Va102, Va35, A682</td> <td></td> <td></td> </tr> <tr> <td>Oh43 A619, MS71, H99, Va26</td> <td>White Dent:</td> <td>Pipecorn:</td> </tr> <tr> <td>WF9 W64A, A554, A654, Pa91</td> <td>CI66, H105, Ky228</td> <td>Mo15W, Mo16W, Mo24W</td> </tr> </table>				Yellow Dent Families:	Yellow Dent (Unrelated):	Sweet Corn:	Family Members	Co109, ND246,	C13, Iowa5125, P39, 2132	B14 CM105, A632, B64, B68	Oh7, T232		B37 B37, B76, H84	W117, W153R	Popcorn:	B73 N192, A679, B73, NC268	W182BN	SG1533, 4722, HP301, HP7211	C103 Mo17, Va102, Va35, A682			Oh43 A619, MS71, H99, Va26	White Dent:	Pipecorn:	WF9 W64A, A554, A654, Pa91	CI66, H105, Ky228	Mo15W, Mo16W, Mo24W						
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1. TYPE: (describe intermediate types in Comments section)		Standard Inbred Name B73																															
* 2 1=Sweet 2=Dent 3=Flint 4=Flour 5=Pop 6=Ornamental 7=Pipecorn		2																															
2. REGION WHERE DEVELOPED IN THE U.S.A.:		Standard Seed Source NCRIPS _____																															
* 2 1=Northwest 2=Northcentral 3=Northeast 4=Southeast 5=Southcentral 6=Southwest 7=Other _____		2																															
3. MATURITY (In Region Best Adaptability; show Heat Unit formula in "Comments" section):		DAYS HEAT UNITS																															
* 0 7 0 1 3 8 5.0 From emergence to 50% of plants in silk		0 7 9 1 5 2 8.0																															
* 0 6 9 1 3 7 3.5 From emergence to 50% of plants in pollen		0 7 5 1 5 1 2.0																															
_ _ _ 0 0 7 0.0 From 10% to 90% pollen shed		_ _ _ 0 1 2 9.0																															
(*) _ _ _ _ _ _ From 50% silk to optimum edible quality		_ _ _ _ _																															
0 8 0 1 1 0 0.0 From 50% silk to harvest at 25% moisture		0 5 8 1 2 6 7.5																															
4. PLANT:		Standard Deviation Sample																															
Size		Size Standard Deviation Sample																															
* 1 7 0.6 cm Plant Height (to tassel tip)		18.206 60 2 2 9.7 15.678 170																															
* 0 5 3.3 cm Ear Height (to base of top ear node)		6.174 60 0 9 6.8 10.088 170																															
0 1 2.0 cm Length of Top Ear Internode		2.174 60 0 1 4.4 1.874 170																															
Average Number of Tillers																																	
* 1.2 Average Number of Ears per Stalk		0.276 60 0 0 1.1 0.186 170																															
2 Anthocyanin of Brace Roots: 1=Absent 2=Faint 3=Moderate 4=Dark		4																															
Application Variety Data		Page 1																															
		Standard Inbred Data																															

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Application Variety Data			Page 2	Standard Inbred Data		
5. LEAF:			Standard Deviation	Sample Size	Standard Deviation Sample Size	
*	0 0	8.5 cm Width of Ear Node Leaf	0.723	60	0 0 9.0	0.737 170
*	0 6	4.5 cm Length of Ear Node Leaf	3.616	60	0 7 9.4	2.596 170
*		6.5 Number of leaves above top ear	0.532	30	5.6	0.444 85
	2 4.3	degrees Leaf Angle (measure from 2nd leaf above ear at anthesis to stalk above leaf)	7.427	60	2 5.8	7.800 170
*	0 3	Leaf Color (Munsell code 5 GY 3/4)			0 3 (Munsell code 5 GY 3/4)	
		7 Leaf Sheath Pubescence (Rate on scale from 1=none to 9=peach fuzz)			8	
		3 Marginal Waves (Rate on scale from 1=none to 9=many)			4	
		2 Longitudinal Creases (Rate on scale from 1=none to 9=many)			3	
6. TASSEL:			Standard Deviation	Sample Size	Standard Deviation Sample Size	
*	5.9	Number of Primary Lateral Branches	1.449	60	8.1	1.784 170
	1 2.1	Branch Angle from Central Spike	4.006	60	2 4.6	5.261 170
*	2 7.2	cm Tassel Length (from top leaf collar to tassel tip)	5.490	60	3 7.4	4.944 170
		3.7 Pollen Shed (Rate on scale from 0=male sterile to 9=heavy shed)			7.0	
	0 5	Anther Color (Munsell code 2.5 GY 8/6)			2 2 (Munsell code 10 Y 8.5/6)	
	0 2	Glume Color (Munsell code 5 GY 4/8)			0 2 (Munsell code 5 GY 4/8)	
		1 Bar Glumes (Glume Bands): 1=Absent 2=Present			1	
7a. EAR (Unhusked Data):					0 5 (Munsell code 2.5 GY 8/6)	
*	0 5	Silk Color (3 days after emergence) (Munsell code 2.5 GY 8/6)			0 2 (Munsell code 5 GY 4/8)	
	0 2	Fresh Husk Color (25 days after 50% silking) (Munsell code 5 GY 4/8)			2 1 (Munsell code 2.5 Y 8/4)	
	2 1	Dry Husk Color (65 days after 50% Silking) (Munsell code 2.5 Y 8/4)			3	
*		1 Position of Ear at Dry Husk Stage: 1=Upright 2=Horizontal 3=Pendent			6	
		8 Husk Tightness (Rate on scale from 1=very loose to 9=very tight)			3	
		2 Husk Extension (at harvest): 1=Short (ears exposed) 2=Medium (<8 cm) 3=Long (8-10 cm beyond ear tip) 4=Very Long (>10 cm)				
7b. EAR (Husked Ear Data):			Standard Deviation	Sample Size	Standard Deviation Sample Size	
*	1 4.0	cm Ear Length	0.818	30	1 3.5	0.706 85
*	3 9.0	mm Ear Diameter at mid-point	1.216	30	4 3.0	1.766 85
	1 0 0.7	gm Ear Weight	13.398	60	1 1 8.9	27.764 170
*		1 5 Number of Kernel Rows	0.829	30	1 7	0.758 85
		2 Kernel Rows: 1=Indistinct 2=Distinct			2	
		1 Row Alignment: 1=Straight 2=Slightly Curved 3=Spiral			2	
	0 9.2	cm Shank Length	1.143	60	0 7.8	1.559 170
		2 Ear Taper: 1=Slight 2=Average 3=Extreme			2	
Application Variety Data					Standard Inbred Data	

Note: Use chart on first page to choose color codes for color traits.

Application Variety Data	Page 4	Standard Inbred Data
11. INSECT RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested):		
	Standard Deviation	Sample Size
- Banks Grass Mite (<i>Oligonychus pratensis</i>)		
- Corn Earworm (<i>Helicoverpa zea</i>)		
- Leaf-Feeding		
- Silk Feeding :		
- Ear Damage		
- mg larval wt.		
- Corn Leaf Aphid (<i>Rhopalosiphum maidis</i>)		
- Corn Sap Beetle (<i>Carpophilus dimidiatus</i>)		
- European Corn Borer (<i>Ostrinia nubilalis</i>)		
4 1st Generation (Typically Whorl Leaf Feeding)		3
5 2nd Generation (Typically Leaf Sheath-Collar Feeding)		5
- Stalk Tunneling :		
- cm tunneled/plant		
- Fall Armyworm (<i>Spodoptera frugiperda</i>)		
- Leaf-Feeding		
- Silk-Feeding :		
- mg larval wt.		
- Maize Weevil (<i>Sitophilus zeamais</i>)		
- Northern Rootworm (<i>Diabrotica barberi</i>)		
- Southern Rootworm (<i>Diabrotica undecimpunctata</i>)		
- Southwestern Corn Borer (<i>Diatraea grandiosella</i>)		
- Leaf Feeding		
- Stalk Tunneling :		
- cm tunneled/plant		
- Two-spotted Spider Mite (<i>Tetranychus urticae</i>)		
- Western Rootworm (<i>Diabrotica virgifera virgifera</i>)		
- Other (Specify)		

12. AGRONOMIC TRAITS:		
3 Stay Green (at 65 days after anthesis) (Rate on a scale from 1=worst to 9=excellent.)		2
0 0.0 % Dropped Ears (at 65 days after anthesis)		0 3.0
0 0.0 % Pre-anthesis Brittle Snapping		0 0.0
0 0.0 % Pre-anthesis Root Lodging		0 0.3
0 1.0 % Post-anthesis Root Lodging (at 65 days after anthesis)		0 4.0
4 1 4 2.7 Kg/ha Yield of Inbred Per Se (at 12-13% grain moisture)		3 1 4 4.7

13. MOLECULAR MARKERS: (0=data unavailable; 1=data available but not supplied; 2=data supplied)		
- Isozymes	- RFLP's	- RAPD's

REFERENCES:

Butler, D.R. 1954. A System for the Classification of Corn Inbred Lines. PhD Thesis, Ohio State University.

Emerson, R.A., G.W. Beadle, and A.C. Fraser. 1935. A Summary of Linkage Studies in Maize. Cornell A.E.S., Mem. 180.

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Inglett, G.E. (Ed.) 1970. Corn: Culture, Processing, Products. Avi Publishing Company, Westport, CT.

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COMMENTS (eg. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D):

Heat Unit Calculation: $GDU = \frac{\text{Daily Max Temp } (<=86^{\circ}\text{F}) + \text{Daily Min Temp } (>=50^{\circ}\text{F})}{2} - 50^{\circ}\text{F}$

2/11/11

- Data was reported as means across years and locations. Each of the aforementioned characteristics had a wide range of values due to spacial and temporal variation of the test contributing to the large standard deviation. Growing conditions (soil, climate, drought conditions, etc.) contributed significantly to influence the variability of the traits measured.

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE

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 is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

**EXHIBIT E
 STATEMENT OF THE BASIS OF OWNERSHIP**

1. NAME OF APPLICANT(S) DEKALB Genetics Corporation	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME 01DHD10
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 3100 Sycamore Road DeKalb, IL 60115 U.S.A.	5. TELEPHONE (include area code) (815) 758-3461	6. FAX (include area code) (815) 758-4106
7. PVPO NUMBER 8800271		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. YES NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company? YES NO
 If no, give name of country

10. Is the applicant the original owner? YES NO *If no, please answer one of the following:*

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?
 YES NO *If no, give name of country*

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?
 YES NO *If no, give name of country*

11. Additional explanation on ownership (if needed, use reverse for extra space):

01DHD10 was originated and developed by a breeder employed by DEKALB Genetics Corporation. By agreement between DEKALB Genetics Corporation and the breeder, all rights to any invention, discovery, or development are assigned to DEKALB Genetics Corporation. No rights to such invention, discovery, or development are retained by the breeder.

PLEASE NOTE:

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 national 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 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 final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

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

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