

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## DEARB Plant Genetics

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED 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 *eighteen* 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 USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (ACT, 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN

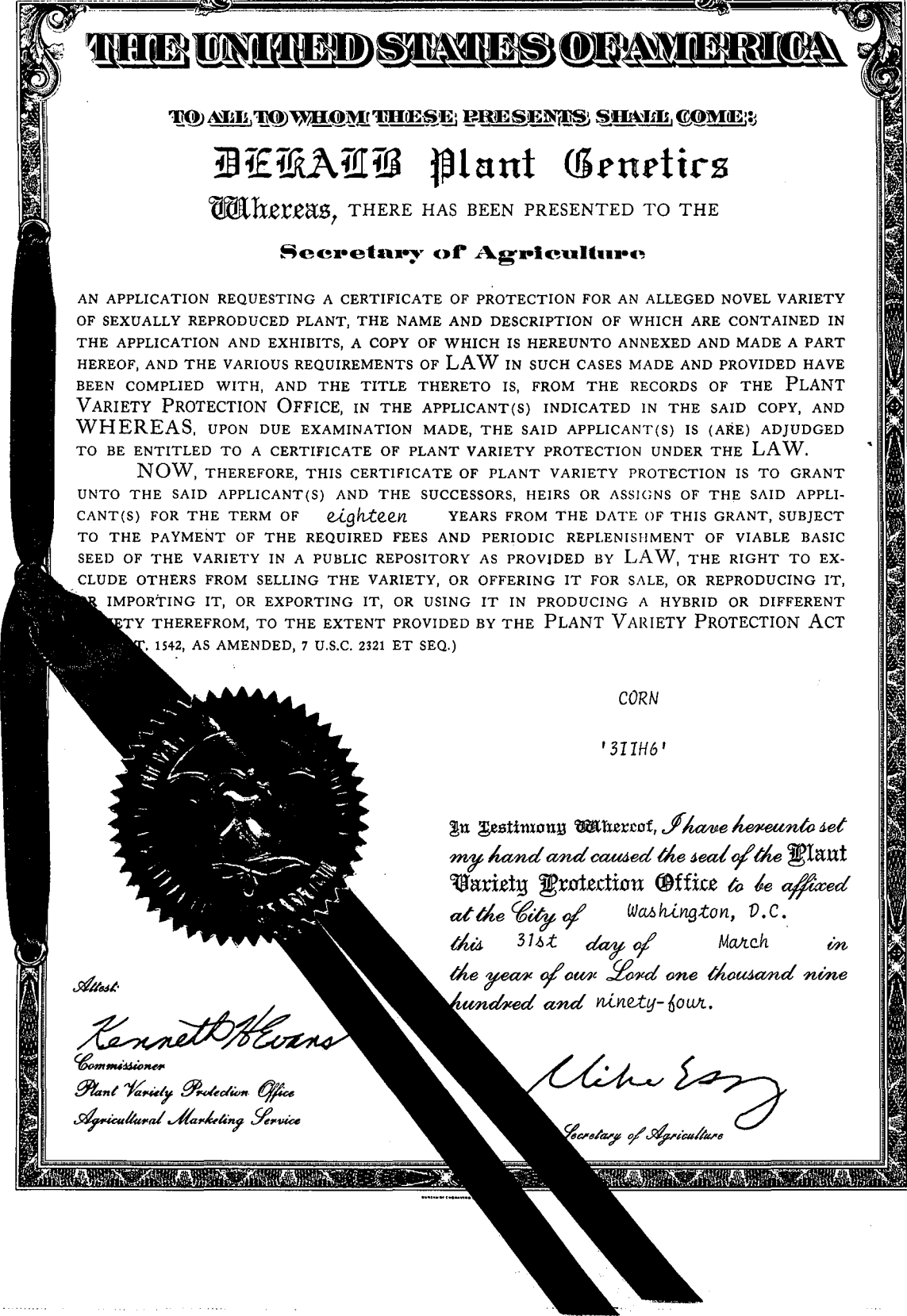
'31IH6'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 31st day of March in the year of our Lord one thousand nine hundred and ninety-four.

Attest

*Kenneth Evans*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Mike Egan*  
Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**  
(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 242). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) <b>DEKALB PLANT GENETICS</b>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.	3. VARIETY NAME <b>311H6</b>
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP) <b>3100 SYCAMORE ROAD DEKALB, IL 60115</b>		5. PHONE (include area code) <b>815/756-7333</b>	FOR OFFICIAL USE ONLY PVPO NUMBER <b>9300087</b>
6. GENUS AND SPECIES NAME <b>ZEA MAYS</b>	7. FAMILY NAME (Botanical) <b>GRAMINEAE</b>		FILING Date <b>January 14, 1993</b> Time <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.
8. CROP KIND NAME (Common Name) <b>CORN</b>	9. DATE OF DETERMINATION <b>SUMMER 1988</b>		FILING Filing and Examination Fee: <b>\$ 2150.00</b> Date <b>January 14, 1993</b>
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) <b>PARTNERSHIP</b>			RECEIVED Certificate Fee: <b>\$250.00</b> Date <b>March 14, 1994</b>
11. IF INCORPORATED, GIVE STATE OF INCORPORATION	12. DATE OF INCORPORATION		

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS  
**ROBERT E. ROMAN, JR., ASSISTANT GENERAL COUNSEL  
DEKALB GENETICS CORPORATION  
3100 SYCAMORE ROAD  
DEKALB, IL 60115**

PHONE (include area code): **815/756-7333**

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)

a.  Exhibit A, Origin and Breeding History of the Variety.  
 b.  Exhibit B, Novelty Statement.  
 c.  Exhibit C, Objective Description of Variety.  
 d.  Exhibit D, Additional Description of Variety.  
 e.  Exhibit E, Statement of the Basis of Applicant's Ownership.  
 f.  Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office 1-12-93  
 g.  Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States."

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety Protection Act.)  
 YES (If "YES," answer items 16 and 17 below)  NO (If "NO," skip to item 18 below)

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?  
 YES  NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?  
 FOUNDATION  REGISTERED  CERTIFIED

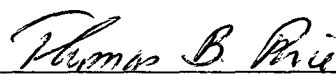
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?  
 YES (If "YES," through  Plant Variety Protection Act  Patent Act. Give date: \_\_\_\_\_ )  
 NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?  
 YES (If "YES," give names of countries and dates)  
 NO

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, 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 (Owner(s)) 	CAPACITY OR TITLE <b>PRESIDENT</b>	DATE <b>1/5/93</b>
SIGNATURE OF APPLICANT (Owner(s))	CAPACITY OR TITLE	DATE

Origin and Breeding History  
3IIH6

3IIH6 was selected for silking under high population density, resistance to northern corn leaf blight, and staygreen.

Summer 1984 Pioneer 3737 was self-pollinated. Seed was bulked (Nursery row number 84:3848).

Summer 1985 Bulked S1 seed was grown (Nursery row numbers 87-31 through 87-45).

Winter 1985/86 S2 seed was grown ear-to-row.

Summer 1986 S3 seed was grown ear-to-row (Nursery row numbers 21-43 through 21-74).

Winter 1986/87 S4 seed was grown ear-to-row (Nursery row numbers 89-151 through 89-162).

Summer 1987 S5 seed was grown ear-to-row (Nursery row numbers 109-45 through 109-60). Row number 109-47 was coded 3IIH6.

Summer 1988 S6 seed was grown ear-to-row (Nursery row numbers 158-14 through 158-15). Self-pollinated seed from row number 158-15 was saved and bulked.

Statement of Stability and Uniformity

Corn inbred 3IIH6 was coded in 1988 and has been reproduced and judged stable for the past three years by self-pollination. Inbred 3IIH6 is uniform for all traits observed. 3IIH6 tassel glume color and anther color are yellow as the tassel emerges. Exposure to light turns the glumes purple and anthers red. Tassel and anther color are stable and predictable color changes occur during development of the plant.

Statement of Variants

3IIH6 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

Novelty Statement  
3IIH6

3IIH6 most closely resembles MBS847, an inbred available from Mike Brayton Seeds.

3IIH6 differs from MBS847 for a number of numeric traits. 3IIH6 was grown in a randomized complete block design, at one or more locations, along with MBS847 and a number of other inbreds in 1990 and 1991. For purposes of this analysis, the orthogonal contrast between 3IIH6 and MBS847 was broken out and analyzed.

If preliminary analysis indicated non-normality of residuals, a non-parametric analysis was performed. Specifically, an overall ranking of the data was performed, ranking observations across replications and across years. Then the usual normal theory F-statistic was applied to the ranks.

If the trait was found to be normally distributed, a parametric analysis was run on entry means across location or years.

For each trait analyzed: year or location, inbred, and year or location x inbred effects, were examined. Contrasts between 3IIH6 and MBS847 were calculated for each trait. The denominator for contrasts was the year or location x inbred interaction, since year or location is considered a random factor (as opposed to fixed).

The interaction between year or location and inbred was examined first. If the interaction was significant at the 5% level, then separate analyses were performed for each year or location. A significant interaction of year or location and inbred suggests that results for 3IIH6 may vary by year or location. If the year or location x inbred interaction was not significant, then the contrast between 3IIH6 and MBS847 was examined. If this contrast was significant at the 5% level, then the contrast is reported from the combined years data set.

Contrasts for a single year or location were calculated between 3IIH6 and MBS847 using a 5% level of significance. It was required that contrasts be significant for each of the years or locations at the 5% level (and that the direction of the difference be consistent across years or locations) for a trait to be considered significant. Therefore, any of the traits reported for 3IIH6 passed one of two stringent criteria; a) either the contrast was significant at the 5% level in an across-years or locations analysis, or b) the contrast was significant at the 5% level for each of the years or locations tested on an individual basis. There were four traits for which 3IIH6 was significantly different from MBS847: Plant Height, Ear Diameter, Ear Weight, and Kernel Weight/1,000K. The information on these traits is summarized and presented in Table 1.

## EXHIBIT B, Continued

Table 1

TRAIT	INBRED MEAN		DIFF	NO OF LOCATION/ YEARS	PROB F-VALUE	PROB LEVEL**
	3IIH6	MBS847				
Plant Height (cm)*						
1990	204.1	185.7	18.4	1	18.55	.000
1991	191.9	150.5	41.4	1	3.97	.050
Ear Diameter (cm)*						
1990	39.3	37.4	1.9	1	5.79	.019
1991	39.9	32.5	7.4	1	3.75	.050
Ear Weight (g)*						
1990	104.7	79.3	25.4	1	16.05	.000
1991	117.6	76.9	40.7	1	4.22	.043
Kernel Weight/ 1,000K (gm)*						
1990	282.5	228.0	54.5	1	28.84	.000
1991	240.0	210.0	30.0	1	6.14	.016

\* Statistics calculated on the ranks

\*\* .05, .01, and .001 are significant at the 5, 1, and .1% levels, respectively.

**TRAIT DEFINITIONS:**

Plant Height - Measured from soil to the top of the tassel in centimeters.

Ear Diameter - Diameter of the ear at the midpoint measured in centimeters.

Ear Weight - Weight of the ear expressed in grams.

Kernel Weight/1,000K - Weight of 1,000 kernels expressed in grams.

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
COMMODITIES SCIENTIFIC SUPPORT DIVISION  
BELTSVILLE, MARYLAND 20705  
OBJECTIVE DESCRIPTION OF VARIETY  
CORN (ZEA MAYS)

NAME OF APPLICANT(S) DEKALB Plant Genetics	FOR OFFICIAL USE ONLY
	PPPO NUMBER 9300087
	VARIETY NAME OR TEMPORARY DESIGNATION 3I1H6

Place the appropriate number that describes the varietal character of this variety in the boxes below.  
Place a zero in first box (e.g. 089 or 09) when number is either 99 or less or 9 or less.

1. TYPE:

1 - SWEET    2 - DENT    3 - FLINT    4 - FLOUR    5 - POP    6 - ORNAMENTAL

2. REGION WHERE BEST ADAPTED IN THE U.S.A.:

1 - NORTHWEST    2 - NORTHCENTRAL    3 - NORTHEAST    4 - SOUTHEAST  
5 - SOUTHCENTRAL    6 - SOUTHWEST    7 - MOST REGIONS

3. MATURITY (In Region of Best Adaptability):

(Under "Comments" (pg. 3) state how heat units were calculated)

<input type="text" value="7"/> <input type="text" value="6"/>	DAYS FROM EMERGENCE TO 50% OF PLANTS IN SILK	<input type="text" value="1"/> <input type="text" value="4"/> <input type="text" value="2"/> <input type="text" value="7"/>	HEAT UNITS
<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	DAYS FROM 50% SILK TO OPTIMUM EDIBLE QUALITY	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	HEAT UNITS
<input type="text" value="5"/> <input type="text" value="6"/>	DAYS FROM 50% SILK TO HARVEST AT 25% KERNEL MOISTURE	<input type="text" value="1"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="6"/>	HEAT UNITS

4. PLANT:

CM. HEIGHT (To tassel tip)                         CM. EAR HEIGHT (To base of top ear)

CM. LENGTH OF TOP EAR INTERNODE

Number of Tillers:

1 - NONE    2 - 1-2    3 - 2-3    4 - >3

Number of Ears Per Stalk:

1 - SINGLE    2 - SLIGHT TWO-EAR TENDENCY  
3 - STRONG TWO-EAR TENDENCY    4 - THREE-EAR TENDENCY

Cytoplasm Type:

1 - NORMAL    2 - "T"    3 - "S"    4 - "C"    5 - OTHER (Specify)

5. LEAF (Field Corn Inbred Examples Given):

Color:

1 - LIGHT GREEN (HY)    2 - MEDIUM GREEN (WF9)    3 - DARK GREEN (B14)    4 - VERY DARK GREEN (K166)

Angle from Stalk (Upper half):

1 - < 30°    2 - 30-60°    3 - > 60°

Sheath Pubescence:

1 - LIGHT (W22)    2 - MEDIUM (WF9)  
3 - HEAVY (OH26)

Marginal Waves:

1 - NONE (HY)    2 - FEW (WF9)    3 - MANY (OK7L)

Longitudinal Creases:

1 - ABSENT (OH51)    2 - FEW (OH56A)  
3 - MANY (PA11)

Width:

CM. WIDEST POINT OF EAR NODE LEAF

Length:

CM. EAR NODE LEAF

NUMBER OF LEAVES PER MATURE PLANT

6. TASSEL:

1 1

NUMBER OF LATERAL BRANCHES

Branch Angle from Central Spike:

2

1 - < 30° 2 - 30-40° 3 - > 45°

Peduncle Length:

0 8

CM FROM TOP LEAF TO BASAL BRANCHES

Pollen Shed:

2

1 - LIGHT (WF9) 2 - MEDIUM 3 - HEAVY (KY21)

6

Anther Color: 1 - YELLOW 2 - PINK 3 - RED 4 - PURPLE 5 - GREEN

3

Glume Color: 6 - OTHER (Specify) Green-Yellow

Pollen Restoration for Cytoplasm (0 = Not Tested, 1 = Partial, 2 = Good)

-

"T"

"S"

"C"

OTHER (Specify Cytoplasm and degrees of restoration)

7. EAR (Husked Ear Data Except When Stated Otherwise):

1 6

CM LENGTH

4 0

MM. MID-POINT DIAMETER

1 1 1

GM. WEIGHT

Kernel Rows:

2

1 - INDISTINCT 2 - DISTINCT

1 5

NUMBER

2

1 - STRAIGHT 2 - SLIGHTLY CURVED 3 - SPIRAL

Silk Color (Exposed at Silking Stage):

4

1 - GREEN 2 - PINK 3 - SALMON 4 - RED

Husk Color:

1

FRESH

1 - LIGHT GREEN

2 - DARK GREEN

3 - PINK

6

DRY

4 - RED

5 - PURPLE

6 - BUFF

Husk Extension: (Harvest Stage)

2

1 - SHORT (Ears Exposed) 2 - MEDIUM (Barely Covering Ear) 3 - LONG (8-10CM Beyond Ear Tip) 4 - VERY LONG (> 10 CM)

Husk Leaf:

1

1 - SHORT (< 8 CM) 2 - MEDIUM (8-15 CM) 3 - LONG (> 15 CM)

Shank:

0 9

CM LONG

6

NO. OF INTERNODES

Position at Dry Husk Stage:

1

1 - UPRIGHT 2 - HORIZONTAL 3 - PENDENT

Taper:

2

1 - SLIGHT 2 - AVERAGE 3 - EXTREME

Drying Time (Unhusked Ear):

2

1 - SLOW 2 - AVERAGE 3 - FAST

8. KERNEL (Dried):

Size (From Ear Mid-Point):

1 0

MM LONG

0 8

MM. WIDE

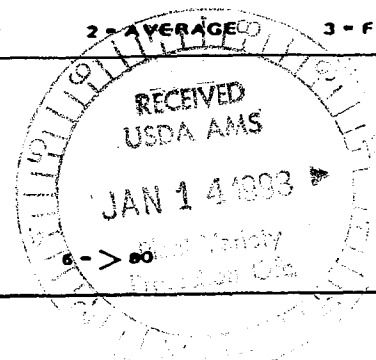
0 4

MM. THICK

Shape Grade (% Round)

3

1 - < 20 2 - 20-40 3 - 40-60 4 - 60-80



8. KERNEL (Dried):

1 Pericarp Color: 1 - COLORLESS 2 - RED-WHITE 3 - TAN 4 - BRONZE  
 5 - BROWN 6 - LIGHT RED 7 - CHERRY RED  
 8 - VARIEGATED (Describe) \_\_\_\_\_

1 Aleurone Color: 1 - HOMOZYGOUS 2 - SEGREGATING (Describe) \_\_\_\_\_

1 1 - WHITE 2 - PINK 3 - TAN 4 - BROWN 5 - BRONZE 6 - RED  
 7 - PURPLE 8 - PALE PURPLE 9 - VARIEGATED (Describe) \_\_\_\_\_

3 Endosperm Color: 1 - WHITE 2 - PALE YELLOW 3 - YELLOW 4 - PINK-ORANGE 5 - WHITE CAP.

Endosperm Type:

3 1 - SWEET (su1) 2 - EXTRA SWEET (sh2) 3 - NORMAL STARCH 4 - HIGH AMYLOSE STARCH  
 5 - WAXY STARCH 6 - HIGH PROTEIN 7 - HIGH LYSINE 8 - OTHER (Specify) \_\_\_\_\_

2  6 GM. WEIGHT /100 SEEDS (Unsize Sample)

9. COB:

2  1 MM. DIAMETER AT MID-POINT

Strength:  2 1 - WEAK 2 - STRONG

Color:  3 1 - WHITE 2 - PINK 3 - RED 4 - BROWN  
 5 - VARIEGATED 6 OTHER (Specify) \_\_\_\_\_

10. DISEASE RESISTANCE (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

<input type="checkbox"/> 0 STALK ROT (Diplodia)	<input type="checkbox"/> 0 STALK ROT (Fusarium)	<input type="checkbox"/> 0 STALK ROT (Gibberella)
<input type="checkbox"/> 2 NORTHERN LEAF BLIGHT	<input type="checkbox"/> 2 SOUTHERN LEAF BLIGHT	<input type="checkbox"/> 0 SMUT
<input type="checkbox"/> 0 SOUTHERN RUST	<input type="checkbox"/> 0 CORN SMUT	<input type="checkbox"/> 0 BACTERIAL WILT
<input type="checkbox"/> 0 BACTERIAL LEAF BLIGHT	<input type="checkbox"/> 0 MAIZE DWARF MOSAIC	<input type="checkbox"/> 0 STUNT
<input type="checkbox"/> 2 OTHER (Specify) Anthracnose		

11. INSECT RESISTANT (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

<input type="checkbox"/> 1 CORNBORER	<input type="checkbox"/> 0 EARWORM	<input type="checkbox"/> 0 SAPBEETLE	<input type="checkbox"/> 0 APHID
<input type="checkbox"/> 1 ROOTWORM (Northern)	<input type="checkbox"/> 0 ROOTWORM (Western)		
<input type="checkbox"/> 0 ROOTWORM (Southern)	<input type="checkbox"/> 0 OTHER (Specify) _____		

12. VARIETIES MOST CLOSELY RESEMBLING THAT SUBMITTED FOR THE CHARACTERS GIVEN:

CHARACTER	VARIETY	CHARACTER	VARIETY
Maturity		Kernel Type	
Plant Type		Quality (Edible)	
Ear Type		Usage	

REFERENCES:

U.S. Department Agriculture. Yearbook 1937.  
 Corn: Culture, Processing, Products. 1970 Avi Publishing Company, Westport, Connecticut (Numerous Authors)  
 Emerson, R.A., G.W. Beadle, and A.C. Fraser. A Summary of Linkage Studies in Maize, Cornell A.E.S., Mem. 180. 1935  
 The Mutants of Maize. 1968. Crop Science Society of America. Madison, Wisconsin  
 Stringfield, G.H. Maize Inbred Lines of Ohio. Ohio A.E.S. Bul. 831. 1959  
 Butler, D.R. 1954 - A System for the Classification of Corn Inbred Lines - Ph.D. Thesis, Ohio State University.

COMMENTS:

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



TRAIT	YEAR	NO. PLANTS		TOTAL		DIFF.	STD. DEV.++	95% CI+++
		311H6	MBS847	SAMPLED PER REP	NO. REPS			
Plant Height (cm)	1990	204.1	185.7	10	2	20	18.4	4.4 (9.7,27.1)
	1991	191.9	150.5	10	2	20	41.4	22.2 (-3.1,85.9)
Ear Diameter (cm)	1990	39.3	37.4	5	2	10	1.9	0.1 (1.7,2.1)
	1991	39.9	32.5	5	2	10	7.4	0.4 (6.6,8.2)
Ear Weight (g)	1990	104.7	79.3	10	2	20	25.4	7.9 (9.6,41.2)
	1991	117.6	76.9	10	2	20	40.7	22.6 (-4.6,86.0)
Kernel Weight/1,000K (g)	1990	282.5	228.0	+	2	2	54.5	12.1 (30.4,78.6)
	1991	240.0	210.0	+	2	2	30.0	24.9 (-19.7,79.7)

SMS  
2/18/94

+Blank values under Number Plants Sampled Per Replicate indicate that 1 observation was recorded for each replication. No sampling within replication was done.

++The standard deviation of the difference in the means,

$$\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$$

where  $s_1^2$  = estimate of the variance of population 1  
 $n_1$  = number of observations from population 1  
 $s_2^2$  = estimate of the variance of population 2  
 $n_2$  = number of observations from population 2

+++The 95% confidence interval for the difference in the two means is calculated as:

$$(\bar{x}_1 - \bar{x}_2) \pm t_{\alpha/2, df} \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$$

where  $x_1$  = estimate of the mean from population 1  
 $x_2$  = estimate of the mean from population 2  
 $t_{\alpha/2, df}$  = is the upper  $\alpha/2$  percentile of a t-distribution with degrees of freedom (df) based on the number of observations where  $\alpha = 1 - \text{confidence coefficient}$ .

311H6.WQ1

## ISOZYME ALLELES

Locus	311H6*	R177**
Acph-1	2	4
Cat-3	9	9
Got-1	4	4
Got-2	4	4
Got-3	4	4
Idh-1	4	4
Idh-2	6	6
Mdh-1	6	6
Mdh-2	3.5	6
Mdh-3	16	16
Mdh-4	12	12
Mdh-5	12	12
Pgm-1	9	9
Pgm-2	4	4
6-Pgd-1	3.8	3.8
6-Pgd-2	5	5
Phi-1	4	4

311H6 and R177 differ at the Acph-1 and Mdh-2 alleles.

\* Information is from DEKALB Isozyme Lab.

\*\* Information is from Allozyme Genotypes and Historically Important Inbred Lines of Corn, Zea Mays, L., USDA/ARS of August 1983.

**EXHIBIT E**Statement of the Basis of Applicant's Ownership

DEKALB Plant Genetics is the sole, original, and first breeder of corn inbred 3IIH6.