No. 9600207

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Cargill, Inc.

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. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF TH (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

RAPE

'IMC 03'

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 third day of December, in the year two thousand one.

PLANT VARIETY PROTECTION OFFICE U.S. DEPARTMENT OF AGRICULTURE

Attest:

Paul M. Jaksa

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Dan Glickman

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions.* FORM APPROVED - OMB NO. 0581-0055

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

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a).

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).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
Cargill, Incorporated

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER
YA307

3. VARIETY NAME
IMC 03 (BT:5/15/2000)

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
15407 McGinty Road West
Wayzata, MN 55391

5. TELEPHONE *(include area code)*
~~(612) 742-7714~~ (612) 742-7714 (BT:5/15/2000)

6. FAX *(include area code)*
~~(612) 742-5062~~ (612) 742-5062 BT: 5/15/2000

FOR OFFICIAL USE ONLY

PVPO NUMBER: 9600207

FILING DATE: April 1, 1996

FEES RECEIVED
FILING AND EXAMINATION FEE: $ 2450.00
DATE: April 1, 1996
CERTIFICATION FEE: $ 320
DATE: 9/25/2001

7. GENUS AND SPECIES NAME
Brassica napus L.

8. FAMILY NAME *(Botanical)*
Cruciferae

9. CROP KIND NAME *(Common name)*
Rapeseed

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.) (Common name)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
Delaware

12. DATE OF INCORPORATION
July 18, 1930

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
~~David L. Biek, Esq.~~ Ronald C. Lundquist, Ph.D.
~~Law Department~~ Fish and Richardson, P.C., P.A.
~~Cargill, Incorporated~~ 3300 Dain Rauscher Plaza
~~15407 McGinty Road West~~ 60 South Sixth Street
~~Wayzata, MN 55391~~ Minneapolis, Minnesota 55402 (BT:5/15/2000)

14. TELEPHONE *(include area code)*
(612) ~~742-4767~~ 335-5070 (BT:5/15/2000)

15. FAX *(include area code)*
(612) ~~742-6349~~ 288-9696 (BT:5/15/2000)

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow instructions on reverse)*

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 D. 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 propagated varieties verification that tissue culture will be deposited and maintained in a public repository)*
g. ☒ Filing and Examination Fee ($2,450), made payable to "Treasurer of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT 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 18 and 19 below)* ☐ NO *(If "no," go to item 20)*

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☒ NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☐ FOUNDATION ☐ REGISTERED ☐ 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?
☐ YES *(If "yes," give names of countries and dates)* ☒ NO

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 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))*		SIGNATURE OF APPLICANT *(Owner(s))*	
Ian Purtle			
NAME *(Please print or type)*		NAME *(Please print or type)*	
Ian Purtle			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
Vice President - Oilseeds	3/28/96		1

SD-470 (04-96) *(Previous editions are to be destroyed)* *(See reverse for instructions and information collection burden statement)*

Exhibit A

Origin and Breeding History for YA307 ('IMC 03')(BT:5/15/2000)

'IMC 03'(BT:5/15/00)

YA307 is a low linolenic acid line derived from the cross between FB440 and Kristina. FB440 has low linolenic acid (2.5%-3.5%) in its oil. Kristina is a canola variety grown in Eastern Canada. The cross was made in 1991 to improve the yield of FB440 followed by pedigree selection.

YA307 was first identified as an F_3 line with 2.5% linolenic acid in the summer of 1992. F_4 lines were evaluated in a winter nursery (Hawaii) for fatty acid stability in the 1992-1993 winter. One F_5 line was selected and its yield tested in Southeastern Idaho. At the same time, the F_5 line was evaluated for fatty acid stability in breeding nursery in Idaho Falls. F_6 was evaluated for fatty acid stability in a winter nursery (Mexico) in the 1993-1994 winter. F_7 was evaluated for fatty acid stability in 1994 summer in Southeastern Idaho. YA307 was uniform at F_7 and Pre-breeder seed were produced from 2 lines of F_7 seeds in the 1994-1995 winter (Yuma). The breeder seeds (breeder seed F_8) were increased in 1995 summer in Idaho Falls. It appears homogenous and morphological variation was not observed in production of foundation seed in 1996.

YA307 was evaluated for yield potential at multiple locations in Alberta, Canada during 1994 and 1995. Its performance and characteristics are similar to Legend.

Maturity: Similar to Legend

Lodging resistance: Similar to Legend

Plant height: Similar to Cyclone.

Resistant to blackleg: Similar to Cyclone, and better than Legend.

Oil content: 48% - 52%, better than both Legend and Cyclone.

Protein content: About 42-45%, similar to Legend.

Glucosinolate content: 10.8 Micromoles/g meal similar to Legend.

Erucic acid content: About 0.05% similar to Legend.

NOTE: YA307 designated as 'IMC 03'. (BT:5/15/2000)

Exhibit B

Statement of Distinctness

'YA307', also known as 'IMC 03', resembles 'IMC 02', but 'IMC 03' matures earlier than 'IMC 02' and 'IMC 03' is shorter than 'IMC 02'.

EXHIBIT
(RAPESEEI

U.S. DEPARTMENT OF AGRICULTURE
PLANT VARIETY PROTECTION OFFICE, AMS, USDA
NATIONAL AGRICULTURAL LIBRARY Bldg., Rm. 500
10301 BALTIMORE Blvd.
BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY

RAPESEED

(*Brassica napus* and *B. campestris*)

Name of Applicants(s)	Temporary Designation	Variety Name
Cargill, Incorporated	YA307	'IMC 03' (ST: 5/15/2000)

Address (Street and No., or R.F.D. No., City, State. & Zip Code)

15407 McGinty Road West
Wayzata, MN 55391

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1. SPECIES:

* X *Brassica napus* ___ *Brassica campestris*

2. TYPE:

* X Spring ___ Winter

3. PLANT HEIGHT (at pod maturity):

1 1 2.1 cm Tall (compare to standard variety below)

0 6.0 cm shorter than Check variety: Excel

Height same as Check variety: Cyclone

0 4.0 cm taller than Check variety: Legend

*Height Class: ___ Autumn sown / 3 Spring sown

Autumn sown	Spring sown
1 = Short (Candle)	1 = Short (Erglu)
2 = Medium short ( )	2 = Medium short ( )
3 = Medium (Jet Neuf)	3 = Medium (Cresus)
4 = Medium tall ( )	4 = Medium tall ( )
5 = Tall (Dwarf Essex)	5 = Tall (Petranova)

4. STEM ANTHOCYANIN:

1 1 = Absent 2 = Weak 3 = Medium 4 = Strong

5. SEED COTYLEDONS (Maximum width fully developed; mean of 50 graded seeds):

2 1 = Narrow (Erglu) 2 = Medium (Primor) 3 = Broad (Expander)

6. SEEDLING GROWTH HABIT (leaf rosette):

1 1 = Upright 2 = Prostrate (short photoperiod)

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7. LEAVES:

* 2 Margins (serration): 1 = Absent or very weak (Akela) 2 = Weak (Arvor, Jet Neuf) 3 = Medium (Primor) 4 = Strong (Candle, Kentan)

* 3 Lobing (fully developed leaf on plant or rosette):

1 = Absent or very weak (Akela) 2 = Weak (Arvor) 3 = Medium (Primor) 4 = Medium strong (Argus) 5 = Strong (Kentan)

* 2 Leaf Attachment to stem: 1 = Fully clasping (Candle) 2 = Partial clasping (Jet Neuf) 3 = No clasping ( )

* 3 Color: 1 = Light green (Arvor) 2 = Medium green (Primor) 3 = Medium dark green (Oro) 4 = Dark green (Brunowski, Rapora)

* 1 Glaucosity: 1 = Absent 2 = Weak (Span) 3 = Weak to medium (Gulliver) 4 = Medium (Magnus) 5 = Medium to strong (Oro) 6 = Strong

8. FLOWERS:

* 1 Flower Buds Location:

1 = Buds at tip of apical meristem (Jet Neuf) 2 = Buds immediately below apical meristem (Candle)

* 2 Petal color: 1 = Pale yellow ( ) 2 = Yellow (Jet Neuf, Primor) 3 = Orange ( ) 4 = White ( )

* 1 Anther dotting (at opening of flower; give percentage:_____%)

1 = Absent ( ) 2 = Few ( ) 3 = Medium (Primor) 4 = Many ( )

* ___ Flowering class (Autumn sown):
1 = Very early (Arvor)
2 = Early (Primor)
3 = Medium early ( )
4 = Medium late ( )
5 = Late (Marcus)
6 = Very late ( )

3 Flowering class (Spring sown):
1 = Very early (Tower)
2 = Early (Kosa)
3 = Medium early ( )
4 = Medium late ( )
5 = Late (Petranova)
6 = Very late ( )

9. PODS (Silique):

* 1 Pod type: 1 = Bilateral single pod (Jet Neuf) 2 = Other ( )

* ___ Silique beak length: 1 = Short (Forto) 2 = Medium (Liragold) 3 = Long (Rapol)

* ___ Pod length; (give length: ___.___ mm) 1 = Short ( ) 2 = Medium ( ) 3 = Long ( )

* ___ Pod width; (give width: ___.___ mm) 1 = Narrow ( ) 2 = Medium ( ) 3 = Wide ( )

* ___ Pod habit: 1 = Erect (Gulliver) 2 = Semi-erect to erect (Oro) 3 = Semi-erect 4 = Horizonal to semi-erect (Brink) 5 = Horizonal

* ___ Pedicel length: 1 = Very short ( ) 2 = Short ( ) 3 = Long ( )

* 3 Ripening Class (Autumn sown): 1 = Very early ( ) 2 = Early ( ) 3 = Medium ( ) 4 = Late ( ) 5 = Very late ( )

9. PODS (Continued):

* 111 days to maturity:

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* 2,3 days earlier than Check variety: Excel, Cyclone

* maturity same as Check variety: Legend

* _____ days later than Check variety: _____

10. SEEDS:

* 4.2 g/1000 unsized seed:

* ___.___ g less than Check variety: _____

* weight same as Check variety: Cyclone

* 0.8 g more than Check variety: Excel

* 3 Weight Class (grams) 1 = less than 3.0 (Candle) 2 = 3.0 - 3.9 ( )
3 = 4.0 - 5.0 (Jet Neuf) 4 = more than 5.0 ( )

___ Seeds Per Pod: (give number: _____ per pod) 1 = Low ( ) 2 = Medium ( ) 3 = High ( )

* 4 Testa Color: 1 = Black (Jet Neuf) 2 = Red ( )
3 = Yellow (Yellow Sarson) 4 = Dark brown to back ( )
5 = Reddish-brown to black ( ) 6 = Other _____

11. CHEMICAL COMPOSITION OF SEED:

* 1 Erucic Acid
1 = Low (less than 2%)
2 = Intermediate
3 = High (more than 50%)

* 1 Glucosinate Content; (give: 10.8 millimoles/g, ___.___ mg/g
1 = Low - Less than 30 millim/g (Candle)
2 = High - More than 30 millim/g (Mikado)

* 50.5 % Oil

43.1 % Protein (oil free meal)

Fatty Acid Composition (%):

Palmitic 16:0	Stearic 18:0	Oleic 18:1	Linoleic 18:2	Linolenic 18:3	Eicosenoic 20:1	Erucic 22:1
* 3.94	1.95	65.57	21.30	3.01	1.52	0.05

12. FROST TOLERANCE (Late spring frosts):

* 3 Tolerance: 1 = Not hardy - susceptible (Indore) 2 = Moderately suscesptible ( )
3 = Moderately resistant ( ) 4 = Hardy (Bridger)

13. LODGING RESISTANCE:

3 Resistance: 1 = Weak (Span) 2 = Moderately weak (Olga)
3 = Moderately strong ( ) 4 = Strong (Torpe)

14. HERBICIDE RESISTANCE:

* 1 Atrazine:
1 = Susceptible (Jet Neuf)
2 = Resistant ( )

Other: 1
1 = Susceptible
2 = Resistant

15. DISEASE RESISTANCE: 0 = Not tested 1 = Susceptible 2 = Low resistance
3 = Moderate resistance 4 = High resistance

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* 0 Sclerotinia Stem Rot (*Sclerotinia sclerotiorum*)

* 3 Black Leg, Stem Canker (*Leptosphaeria maculans, Plenodomus lingum*) (*Phoma lingam*)

* 4 White Rust (*Albugo candida, A. cruciferrarum*)

0 Light Leaf Spot (*Pyrenopeziza brassicae*)

0 Downy Mildew (*Peronospora parasitica*)

0 Rhizoctonia Root Rot (*Rhizoctonia solani*)

0 Alternaria BlacK Spot (*Alternaria brassicicola*)

0 Other _____

16. COMMENTS: Please give any additional comments which characterizes the variety.

17. DIRECTIONS: Select the number which characterizes the variety in the features above. Those characteristics marked with an asterisk * sho be recorded. Any others should be recorded if possible to help establish novelty or uniqueness. Characteristics described, including numer measurements, could represent those that are typical for the variety. Give test area conditions

Exhibit D

Additional Description

(Same as 'IMC 03')(BT: 5/15/2000)
The fatty acid composition of YA307 may change if conditions, especially temperature, alter dramatically during seed development. In general, low temperature favors desaturation and high temperature increases the level of monounsaturates.

NOTE: YA307 designated as IMC03 (BT: 5/15/2000)

Table 2. Yield Performance of YA307 tested in Alberta, Canada in 1995

Variety	Location in Alberta, Canada								
	Fort Saskatchewan	Camrose	Kelsey	Stettler	Killam	Lethbridge Irrigated	Lethbrdge Dryland	Average	% to IMC02
'IMC 03' (BT: 5/15/00) YA307	2088	1756	1592	1831	1474	1839	1747	1761	119
IMC02	1650	1481	1498	1329	1368	1515	1499	1477	100
Excel	2067	1812	1601	1824	1451	1855	1406	1717	116
Legend	2029	1834	1613	1920	1300	1654	1589	1706	115
Cyclone	1966	1594	1961	1495	1521	1676	1271	1641	111

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1996 Performance of Varieties in Mid Season Zone

B.napus	Average Seed Yield (kg/ha)	Yield Rank	Yield as a % of Cyclone, Legend Excel Checks (2083.33 kg/ha)	% Oil	% Protein	Chlorophyll Content (ppm)	Glucosinolates Content Micromole Whole Seed	Blackleg Disease Rating 1=R , 5=S Westar (2.8)	Days to Maturity	Plant Height (cm)	Lodging Resistance 1=good 5=poor
IMC 03	1942.63	18	93.46	48.48	44.38	16.12	7.3	1.8	104	114.15	2.70
IMC 02	1889.78	26	87.12	50.54	44.21	25.69	14.9	2.1	109	117.8	2.27
IMC 104	2014.68	11	96.83	48.04	44.42	13.11	6.42	1.1	104	113.60	1.65
IMC 105	2117.30	6	101.61	48.9	43.3	14.17	11.16	1.6	105	113.67	1.80
APOLLO	1707.24	28	82.08	47.6	42.9	14.79	10.05	2.5	105	105.60	3.80
CYCLONE	2130.36	5	102.62	47.56	43.46	17.76	9.38	1.3	105	118.10	1.65
EXCEL	2180.75	3	103.31	49.72	42.35	16.53	11.15	1.9	104	118.55	1.90
LEGEND	1938.90	15	94.07	47.97	43.33	16.08	9.94	1.5	103	105.85	2.85
LSD (0.05)								0.27	1.1	3.50	1.20
SE								0.1	0.24	0.43	0.50

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1997 Performance of Varieties in Mid Season Zone

B. napus	Average Seed Yield (kg/ha)	Yield Rank	Yield as a % of Defender, Legacy Excel Checks (2039.00 kg/ha)	% Oil	% Protein	Chlorophyll Content (ppm)	Glucosinolates Content Micromole Whole Seed	Blackleg Disease Rating 1=R, 5=S Westar (3.8)	Days to Maturity	Plant Height (cm)	Lodging Resistance 1=good 5=poor
IMC 03	2098.88	5	107	47.40	46.75	14.23	10.30	2.2	100	108.1	2.3
IMC 02	1531.49	30	78	48.91	46.09	18.33	8.20	2.4	105	115.4	3.4
IMC 104	2232.39	1	114	46.75	46.74	13.11	6.42	1.6	100	109.6	1.0
IMC 105	2186.66	3	111	48.37	45.63	9.52	8.64	2.3	101	110.4	1.8
EXCEL	1823.81	25	93	47.89	46.89	10.24	14.00	1.9	101	112.3	3.0
LEGACY	2100.76	4	107	46.95	46.36	12.03	6.80	2.5	100	108.4	2.2
DEFENDER	1968.99	17	100	46.23	46.36	7.27	10.40	2.5	101	113.4	3.0
LSD (0.05)								0.30	0.51	3.2	1.10
SE								0.11	0.13	0.56	0.21

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1997 Performance of Varieties in Long Season Zone

B. napus	Average Seed Yield (kg/ha)	Yield Rank	Yield as a % of Defender, Legacy Excel Checks (3370.36 kg/ha)	% Oil	% Protein	Chlorophyll Content (ppm)	Glucosinolates Content Micromole Whole Seed	Blackleg Disease Rating 1=R, 5=S Westar (3.8)	Days to Maturity	Plant Height (cm)	Lodging Resistance 1=good 5=poor
IMC03	3425.05	14	102	45.04	48.81	9.62	12.30	2.2	90	111.5	1.7
IMC02	3004.74	27	89	46.12	48.17	16.77	12.90	2.4	96	140.1	2.3
IMC104	3541.99	11	105	43.36	49.07	7.81	11.47	1.6	91	124.3	1.6
IMC105	3830.02	1	114	44.19	49.01	5.76	10.60	2.3	91	136.0	1.7
EXCEL	3144.34	22	93	45.77	48.30	10.24	14.70	1.9	91	133.5	1.6
LEGACY	3588.86	8	106	44.77	48.85	8.89	11.90	2.5	91	130.0	1.3
DEFENDER	3377.31	17	100	43.93	48.36	14.80	12.80	2.5	91	121.5	1.8
LSD (0.05)								0.30	0.50	5.00	0.3
SE								0.11	0.02	0.72	0.0

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Exhibit E

Statement of Applicant's Ownership

'YA307', also known as 'IMC 03', was developed by breeders at InterMountain Canola-Cargill Ltd., a division of Cargill Incorporated, a limited partnership under Delaware law. As employees of Cargill Incorporated, the breeders are obliged to transfer all rights in 'IMC 03' to Cargill Incorporated.