USDA United States Department of Agriculture
Foreign Agricultural Service

GAIN Global Agricultural Information Network

Voluntary Report – Voluntary - Public Distribution **Date:** October 24, 2023

Report Number: CH2023-0149

Report Name: Inaugural Genetically Modified Corn and Soybean Variety Registration List Published - Comment Period Opened

Country: China - People's Republic of

Post: Beijing

Report Category: Biotechnology and Other New Production Technologies, Biotechnology - Plants and Animals, Grain and Feed, Oilseeds and Products

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Report Highlights:

On October 17, 2023, the People's Republic of China (PRC) National Crop Variety Registration Committee (CNCVRC) published the first-ever variety registration list for genetically modified (GM) corn and soybeans. The list includes 37 GM corn varieties and 14 GM soybean varieties and is open for public comment for 30 days, or until November 15, 2023. Once finalized, listed GM corn and soybean varieties will be eligible for planting in approved areas. This report provides an unofficial translation of CNCVRC's announcement, the list of GM corn and soybean varieties that have passed preliminary review, and the yield performance of these varieties.

Summary

On October 17, 2023, CNCVRC published the first ever GM[1] corn and soybean varieties list (link in Chinese) that has passed the preliminary review of CNCVRC. The public comment period for the announcement is 30 days, or until November 15, 2023. The announcement follows publication of the National Registration Standards for GM Soybean Varieties and GM Corn Varieties (Trial), which was published by the CNCVRC on June 8, 2022 with immediate effect.

The 37 GM corn varieties announced include 19 GM corn varieties utilizing DBN9936, developed by Beijing Da-Bei-Nong Technology Group (DBN), and 9 varieties utilizing Ruifeng 125 event, developed by Hangzhou Ruifeng Biosciences Co., Ltd and Zhejiang University. The 14 GM soybean varieties announced include 9 varieties utilizing Zhonghuang 6106, developed by Institute of Crop Sciences, Chinese Academy of Agricultural Sciences and 5 varieties utilizing DBN9004, developed by DBN (see Appendix 2 of this report for information on the GM target traits for each variety).

Once finalized, listed GM corn and soybean varieties will be eligible for planting in approved areas, bringing the PRC closer to full commercial cultivation of GM corn and soybeans. However, for the foreseeable future, the varieties are likely to only be planted in PRC approved pilot programs for GM corn and soy, which will limit the scale of planting in 2024.

This report provides an unofficial translation of CNCVRC's announcement, and the list of GM corn and soybean varieties that have passed preliminary review of the fifth CNCVRC, and the yield performance of these varieties. The announcement also includes an Introduction of GM corn and soybean varieties that have passed preliminary review of the fifth CNCVRC (link in Chinese), which provides additional information relating to trait characteristics, yield performance, cultivation techniques, and preliminary review opinions. Appendix 2 of this report provides an unofficial translation of the summary on the target traits and yield performance of these varieties.

BEGIN UNOFFICIAL TRANSLATION

Announcement on the Varieties Passing Preliminary Review at the Fourth Meeting of the Fifth China National Crop Variety Registration Committee

According to the "Measures for the Registration of Major Crop Varieties" and the "Regulations on the Naming of Agricultural Plant Varieties", the GM corn and soybean varieties that have passed preliminary review at the fourth variety registration meeting of the fifth CNCVRC and related information are now publicized. The publication period for comment is 30 days (from October 17, 2023 to November 15, 2023). Details of the test data and summary results of each test point for the varieties that have passed the preliminary review can be found on the National Agricultural Technology Promotion Network (http://www.natesc.org.cn/). After the above-mentioned varieties are registered

[1] To maintain consistency with language used in the PRC's announcement, this report refers to Genetically Modified Organisms (GMO) and genetically modified (GM) products instead of Post's preferred nomenclature, genetically engineered (GE).

according to the procedures, the actual planting area should also comply with the relevant arrangements for the national biological breeding commercialization.

During the publication period, if you have any objections, you can report them to the Office of the National Crop Variety Registration Committee. The objector or objecting unit must provide written materials (including contact information) using their real names confirmed by their signature or official seal of the unit.

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Attachment 1: The list of GM corn and soybean varieties that have passed preliminary review of the fifth CNCVRC

Attachment 2: Introduction of GM corn and soybean varieties that have passed preliminary review of the fifth CNCVRC

China’s National Crop Variety Registration Committee
October 17, 2023

Appendix 1: List of GM Corn and Soybean Varieties That Have Passed Preliminary Review of the Fifth CNCVRC

1. GM Corn Varieties

No.	Variety Name	Varietal Origin	Applicant	Breeder
1	Yufeng 303D	CT1669 x CT3354 (DBN9936)	Beijing Lianchuang Seed Industry Co., Ltd.	Beijing Lianchuang Seed Industry Co., Ltd.
2	Zhongkeyu 505D	CT1668 x CT3354 (DBN9936)	Beijing Lianchuang Seed Industry Co., Ltd.	Beijing Lianchuang Seed Industry Co., Ltd.
3	Jiaxi 100D	CT61253 x CT3351 (DBN9936)	Beijing Lianchuang Seed Industry Co., Ltd.	Beijing Lianchuang Seed Industry Co., Ltd.
4	Zhongkeyu 505R	CT1668 x CT3354 (Ruifeng 125)	Beijing Lianchuang Seed Industry Co., Ltd.	Beijing Lianchuang Seed Industry Co., Ltd.
5	Yufeng 303R	CT1669 x CT3354 (Ruifeng 125)	Beijing Lianchuang Seed Industry Co., Ltd.	Beijing Lianchuang Seed Industry Co., Ltd.
6	Yufeng 303H	CT1669 x CT3354 (DBN9858)	Beijing Lianchuang Seed Industry Co., Ltd.	Beijing Lianchuang Seed Industry Co., Ltd.
7	Jingke 968TK	Jing 724 x Jing 92 (Ruifeng 125)	Maize Research Institute of Beijing Academy of Agricultural and Forestry Sciences	Maize Research Institute of Beijing Academy of Agricultural and Forestry Sciences
8	Jingke 968D	Jing 724 (DBN9936) x Jing 92	Maize Research Institute of Beijing Academy of Agricultural and Forestry Sciences	Maize Research Institute of Beijing Academy of Agricultural and Forestry Sciences
9	Zhengdan 958D	Zheng 58 (DBN 9936) x Chang 7-2	Beijing Fengdu Hi-Tech Seed Industry Co., Ltd.	Beijing Fengdu Hi-Tech Seed Industry Co., Ltd.
10	Nonghua 803D	K4104-16 x B8328 (DBN9936)	Beijing Fengdu Hi-Tech Seed Industry Co., Ltd.	Beijing Fengdu Hi-Tech Seed Industry Co., Ltd.
11	Nongda 372R	X24621 (Ruifeng 125) x BA702	Hebei Xuntian Agricultural Science and Technology Co., Ltd.	Hebei Xuntian Agricultural Science and Technology Co., Ltd.
12	Zhengdan 958K	Zheng 58 (ND207) x Chang 7-2	Shanxi Zhongnong Saibo Seed Industry Co., Ltd.	Shanxi Zhongnong Saibo Seed Industry Co. Ltd.

13	Ruipu 909D	RP86 (DBN9936) × RP06	Corn Research Institute of Shanxi Agricultural University	Corn Research Institute of Shanxi Agricultural University; Shanxi Sanlian Modern Seed Technology Co., Ltd.
14	Dafeng 30F	A311 (DBN9936) x PH4CV	Shanxi Dafeng Seed Industry Co., Ltd.	Shanxi Dafeng Seed Industry Co., Ltd.
15	Lihe 1D	M1001(DBN9936)×F2001	Inner Mongolia Lihe Agricultural Science and Technology Development Co., Ltd.	Inner Mongolia Lihe Agricultural Science and Technology Development Co., Ltd.
16	Kehe 699D	KH636 x KH766 (DBN9936)	Inner Mongolia Bayannaoer Kehe Seed Industry Co., Ltd.	Inner Mongolia Bayannaoer Kehe Seed Industry Co., Ltd.
17	Dongdan 1331D	XC2327 x XB1621 (DBN9936)	Liaoning Dongya Seed Industry Co., Ltd.	Liaoning Dongya Seed Industry Co., Ltd.
18	Dongdan 1331K	XC2327 x XB1621 (ND207)	Liaoning Dongya Seed Industry Co., Ltd.	Liaoning Dongya Seed Industry Co., Ltd.
19	Hongshuo 899SK	D5433 (DBN9936) x T36	Liaoning Hongshuo Seed Industry Technology Co., Ltd.	Liaoning Hongshuo Seed Industry Technology Co. Ltd.
20	Xiangyu 998HZ	Y822 (Ruifeng 125) x X9231	Hongxiang Seed Industry Co. of Jilin Hongxiang Agricultural Group	Hongxiang Seed Industry Co. of Jilin Hongxiang Agricultural Group
21	Youdi 919HZ	JL712 (Ruifeng 125) × JL715	Hongxiang Seed Industry Co. of Jilin Hongxiang Agricultural Group	Hongxiang Seed Industry Co. of Jilin Hongxiang Agricultural Group
22	Tianyu 108Z	YTH001 (ND207) x TCB01	Jilin Yuntianhua Seed Industry Technology Co., Ltd.	Jilin Yuntianhua Seed Industry Technology Co., Ltd.
23	Zengyu 1572KK	11A341 x Y1217 (DBN9936)	Jilin Hongxing Seed Industry Co., Ltd.	Tieling Zengyu Seed Technology Research Co., Ltd.
24	Denghai 605D	DH351 x DH382 (DBN9936)	Shandong Denghai Seed Industry Co., Ltd.	Shandong Denghai Seed Industry Co., Ltd.
25	Denghai 533D	Denghai 22×DH382 (DBN9936)	Shandong Denghai Seed Industry Co., Ltd.	Shandong Denghai Seed Industry Co., Ltd.

26	Zhengdan 958GK	Zheng 58 (Ruifeng 125) x Chang 7-2	Henan Fujitai Seed Industry Co., Ltd.	Henan Fujitai Seed Industry Co., Ltd.
27	Jinyuanyu 177K	JCY16667 x JCY16557 (ND207)	Henan Jinyuan Seed Industry Co., Ltd.	Henan Jinyuan Seed Industry Co., Ltd.
28	Jingke 986GE	Jing 724A x Jing 92 (Ruifeng 125)	Henan Modern Seed Industry Co., Ltd.	Henan Modern Seed Industry Co., Ltd.
29	Kangnong 20065KK	FL335 (DBN9936) x FL11646	Hubei Kangnong Seed Industry Co., Ltd.	Hubei Kangnong Seed Industry Co., Ltd.
30	Huimin 207R	H1 (Ruifeng 125) × M1	Hubei Huimin Agricultural Technology Co., Ltd.	Hubei Huimin Agricultural Technology Co., Ltd.
31	Yuanke 105WG	H7-5 (Bt11 x GA21) x Y2A	China Seed Group Limited	China Seed Group Limited
32	Yuanke 105D	H7-5 (DBN9936) x Y2A	China Seed Group Limited	China Seed Group Limited
33	Heyu 187D	V76-1 (DBN9936) x WC009	China Seed Group Limited	China Seed Group Limited
34	Xianda 901ZL	NP5024 (Bt11 × MIR162 × GA21) × NP5063	China Seed Group Limited	China Seed Group Limited
35	Tie 391K	T1004 (DBN9936) × T12067	Sichuan Tonglu Agricultural Technology Co.	Sichuan Tonglu Agricultural Technology Co., Ltd.
36	Luodan 566DT	703 (DBN3601T) × 3731	Yunnan Daitian Seed Industry Co., Ltd. and Beijing Dabeinong Biotechnology Co., Ltd.	Yunnan Daitian Seed Industry Co., Ltd.
37	Wugu 3861KK	WG6320 (DBN3601T) x WG646	Gansu Wugu Seed Industry Co., Ltd.	Gansu Wugu Seed Industry Co., Ltd.

2. GM Soybean Varieties

No.	Variety Name	Varietal Origin	Applicant	Breeder
1	Maiyu 526	Hefeng 50/DBN9004	Beijing Dabeinong Biotechnology Co., Ltd.	Beijing Dabeinong Biotechnology Co., Ltd.
2	Maiyu 503	Hefeng 50/DBN9004	Beijing Dabeinong Biotechnology Co., Ltd.	Beijing Dabeinong Biotechnology Co., Ltd.
3	Maiyu 511	Hefeng 50/DBN9004	Beijing Dabeinong Biotechnology Co., Ltd.	Beijing Dabeinong Biotechnology Co., Ltd.
4	Maiyu 579	Hefeng 50/DBN9004	Beijing Dabeinong Biotechnology Co., Ltd.	Beijing Dabeinong Biotechnology Co., Ltd.
5	Maiyu 565	Hefeng 50/DBN9004	Beijing Dabeinong Biotechnology Co., Ltd.	Beijing Dabeinong Biotechnology Co., Ltd.
6	Zhongliandou 1505	Heinong 69//Habei 46--1/Zhonghuang 6106	Institute of Crop Science of Chinese Academy of Agricultural Sciences (CAAS); Soybean Research Institute of Heilongjiang Academy of Agricultural Sciences	Institute of Crop Science of Chinese Academy of Agricultural Sciences (CAAS); Soybean Research Institute of Heilongjiang Academy of Agricultural Sciences
7	Zhongliandou 1307	Beidou 40///Beidou40//Heihe38/ Zhonghuang6106	Institute of Crop Science of CAAS; Suihua Branch of Heilongjiang Academy of Agricultural Sciences	Institute of Crop Science of CAAS; Suihua Branch of Heilongjiang Academy of Agricultural Sciences
8	Zhongliandou 2825	Heihe 43//Heihe 43/Zhonghuang 61066106	Institute of Crop Science of CAAS; Hulunbuir Agriculture and Animal Husbandry Research Institute	Institute of Crop Science of CAAS; Hulunbuir Agriculture and Animal Husbandry Research Institute
9	Zhongliandou 2109	Huajiang No. 2 // Keshan No. 1 /Zhonghuang 6106	Hulunbuir Agriculture and Animal Husbandry Research Institute; Institute of Crop Science of CAAS	Hulunbuir Agriculture and Animal Husbandry Research Institute; Institute of Crop Science of CAAS
10	Zhongliandou 2041	Huajiang No. 2 // Kenfeng20/Zhonghuang 6106	Hulunbuir Agriculture and Animal Husbandry Research Institute; Institute of Crop Science of CAAS	Hulunbuir Agriculture and Animal Husbandry Research Institute; Institute of Crop Science of CAAS

11	Zhongliandou 1309	Beidou 40///Beidou40//Heihe38/ Zhonghuang6106	Suihua Branch of Heilongjiang Academy of Agricultural Sciences; Institute of Crop Science of CAAS	Suihua Branch of Heilongjiang Academy of Agricultural Sciences; Institute of Crop Science of CAAS
12	Zhongliandou 1311	Heinong 69//Habei 46-1/Zhonghuang 6106	Suihua Branch of Heilongjiang Academy of Agricultural Sciences; Institute of Crop Science of CAAS; Soybean Research Institute of Heilongjiang Academy of Agricultural Sciences	Suihua Branch of Heilongjiang Academy of Agricultural Sciences; Institute of Crop Science of CAAS; Soybean Research Institute of Heilongjiang Academy of Agricultural Sciences
13	Zhongliandou 1510	Heinong 69//Habei 46-1/Zhonghuang 6106	Soybean Research Institute of Heilongjiang Academy of Agricultural Sciences; Institute of Crop Science of CAAS; Jilin Academy of Agricultural Sciences	Soybean Research Institute of Heilongjiang Academy of Agricultural Sciences; Institute of Crop Science of CAAS; Jilin Academy of Agricultural Sciences
14	Zhongliandou 1512	Heinong 69//Habei 46-1/Zhonghuang 6106	Soybean Research Institute of Heilongjiang Academy of Agricultural Sciences; Institute of Crop Science of CAAS;	Soybean Research Institute of Heilongjiang Academy of Agricultural Sciences; Institute of Crop Science of CAAS;

Appendix 2: Summary of Yield Performance of Listed Varieties – from an Introduction of GM corn and soybean varieties that have passed preliminary review of the fifth CNCVRC

Target Traits and Yield Performance of GM Corn Varieties

No.	Variety Name	Event Name	GM Target Traits	Yield Performance
1	Yufeng 303D	DBN9936	Resistant to Asian corn borer, tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 869 kilograms, an increase of 7.5 percent compared to the recipient variety.
2	Zhongkeyu 505D	DBN9936	Resistant to Asian corn borer and armyworm, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 805 kilograms, an increase of 5.0% compared to the recipient variety.
3	Jiaxi 100D	DBN9936	Resistant to Asian corn borer, tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of middle maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 853 kilograms, an increase of 1.6% compared to the recipient variety.

4	Zhongkeyu 505R	Ruifeng 125	Resistant to Asian corn borer	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2018 production comparison test was 717 kilograms, an increase of 3.0% compared to the recipient varieties. Participated in the comprehensive agronomic character test of summer corn varieties in Huanghuaihai in the unified national corn variety trials. The average yield per mu in the 2018 production comparison test was 699 kilograms, an increase of 4.9% compared to the recipient variety.
5	Yufeng 303R	Ruifeng 125	Resistant to Asian corn borer	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2018 production comparison test was 7705 kilograms, an increase of 0.6% compared to the recipient variety.
6	Yufeng 303H	DBN9858	Tolerant to glyphosate and glufosinate-ammonium herbicides	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 806 kilograms, an increase of 5.7% compared to the recipient variety.
7	Jingke 968TK	Ruifeng 125	Resistant to Asian corn borer	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 827 kilograms, an increase of 4.0% compared to the recipient variety.
8	Jingke 968D	DBN9936	Resistant to Asian corn borer and armyworm, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 789 kilograms, an increase of 3.4% compared to the recipient variety.
9	Zhengdan 958D	DBN 9936	Resistant to Asian corn borer, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 852 kilograms, an increase of 0.3% compared to the recipient variety.
10	Nonghua 803D	DBN9936	Resistant to armyworm	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 806 kilograms, an increase of 5.4% compared to the recipient variety.
11	Nongda 372R	Ruifeng 125	Resistant to Asian corn borer, armyworm, and cotton bollworm	Participated in the comprehensive agronomic character test of summer corn varieties in Huanghuaihai in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 684 kilograms, an increase of 4.7% compared to the recipient variety.

12	Zhengdan 958K	ND207	Resistant to Asian corn borer	Participated in the comprehensive agronomic character test of summer corn varieties in Huanghuaihai in the unified national corn variety trials. The average yield per mu in the 2020 production comparison test was 672 kilograms, an increase of 6.6% compared to the recipient variety.
13	Ruipu 909D	DBN9936	Resistant to Asian corn borer and armyworm, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 771 kilograms, an increase of 1% compared to the recipient variety.
14	Dafeng 30F	DBN9936	Resistant to Asian corn borer and armyworm, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 804 kilograms, an increase of 3.2% compared to the recipient variety.
15	Lihe 1D	DBN9936	Resistant to Asian corn borer and armyworm, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 847 kilograms, an increase of 2.5% compared to the recipient variety.
16	Kehe 699D	DBN9936	Resistant to Asian corn borer and armyworm, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 803 kilograms, an increase of 4.7% compared to the recipient variety.
17	Dongdan 1331D	DBN9936	Resistant to Asian corn borer and armyworm, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 796 kilograms, an increase of 4.2% compared to the recipient variety.
18	Dongdan 1331K	ND207	Resistant to Asian corn borer	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 827 kilograms, an increase of 3.2% compared to the recipient varieties. Participated in the comprehensive agronomic character test of summer corn varieties in Huanghuaihai in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 567 kilograms, an increase of 3.0% compared to the recipient variety.
19	Hongshuo 899SK	DBN9936	Resistant to Asian corn borer, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2018 regional test was 840 kilograms, an increase of 3.6% compared to the control; the average yield per mu in the 2019regional test was 820 kilograms, an increase of 3.8% over the control. The average yield per mu in the two-year regional trial was 830 kilograms, an increase of

				3.7% over the control; the average yield per mu in the 2019 production trial was 779 kilograms, an increase of 5.8% over the control.
20	Xiangyu 998HZ	Ruifeng 125	Resistant to Asian corn borer	Participated in the comprehensive agronomic character test of mid -late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2018 production comparison test was 696 kilograms, an increase of 0.4% compared to the recipient variety.
21	Youdi 919HZ	Ruifeng 125	Resistant to Asian corn borer	Participated in the comprehensive agronomic character test of mid maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 837 kilograms, an increase of 3.1% compared to the recipient variety.
22	Tianyu 108Z	ND207	Resistant to Asian corn borer	Participated in the comprehensive agronomic character test of mid maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 858 kilograms, an increase of 3.4% compared to the recipient variety.
23	Zengyu 1572KK	DBN9936	Resistant to Asian corn borer, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 794 kilograms, an increase of 3.4% compared to the recipient variety.
24	Denghai 605D	DBN9936	Resistant to Asian corn borer, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2020 production comparison test was 781 kilograms, an increase of 6.8% compared to the recipient varieties. Participated in the comprehensive agronomic character test of summer corn varieties in Huanghuaihai in the unified national corn variety trials. The average yield per mu in the 2018 production comparison test was 665 kilograms, an increase of 0.5% compared to the recipient variety.
25	Denghai 533D	DBN9936	Resistant to Asian corn borer, and tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of summer corn varieties in Huanghuaihai in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 535 kilograms, an increase of 3.9% compared to the recipient variety.
26	Zhengdan 958GK	Ruifeng 125	Resistant to Asian corn borer and armyworm	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 746 kilograms, an increase of 0.0% compared to the recipient variety.
27	Jinyuanyu 177K	ND207	Resistant to Asian corn borer	Participated in the comprehensive agronomic character test of mid-early maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield

				per mu in the 2021 production comparison test was 838 kilograms, an increase of 0.5% compared to the recipient variety.
28	Jingke 986GE	Ruifeng 125	Resistant to Asian corn borer and armyworm	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 789 kilograms, an increase of 4.4% compared to the recipient variety.
29	Kangnong 20065KK	DBN9936	Resistant to Asian corn borer, armyworm, cotton bollworm, and tolerant to glyphosate herbicide	Participated in the comprehensive agronomic character test of spring corn varieties in Southwest China in the unified national corn variety trials. The average yield per mu in the 2021 regional test was 483 kilograms, an increase of 7.8% compared to the control; the average yield per mu in the regional test in 2022 was 583 kilograms, an increase of 9.4% over the control. The average yield per mu in the two-year regional trial was 533 kilograms, an increase of 8.6% over the control; the average yield per mu in the 2022 production trial was 620 kilograms, an increase of 9.5% over the control.
30	Huimin 207R	Ruifeng 125	Resistant to Asian corn borer and armyworm	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 800 kilograms, an increase of 4.1% compared to the recipient variety.
31	Yuanke 105WG	Bt11 x GA21	Resistant to Asian corn borer and armyworm, and tolerant to glyphosate herbicide	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 806 kilograms, an increase of 5.3% compared to the recipient variety.
32	Yuanke 105D	DBN9936	Resistant to Asian corn borer and armyworm, and tolerant to glyphosate herbicide	Participated in the comprehensive agronomic character test of mid-early maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2020 regional test was 818 kilograms, an increase of 5.2% compared to the control; the average yield per mu in the 2022 regional test was 758 kilograms, an increase of 9.1% over the control. The average yield per mu in the two-year regional trial was 788 kilograms, an increase of 7.2% over the control; the average yield per mu in the 2022 production trial was 798 kilograms, an increase of 8.6% over the control.
33	Heyu 187D	DBN9936	Resistant to Asian corn borer and armyworm, and tolerant to glyphosate herbicide	Participated in the comprehensive agronomic character test of mid-early maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 752 kilograms, an increase of 4.9% compared to the recipient variety.
34	Xianda 901ZL	Bt11 × MIR162 × GA21	Resistant to Asian corn borer, armyworm, cotton bollworm,	Participated in the comprehensive agronomic character test of spring corn varieties in Southwest China in the unified national corn variety trials. The average yield per mu in the 2021 regional test was 513 kilograms, an increase of 11% compared to the control; the average yield per mu in the

			Spodoptera frugiperda, and tolerrant to glyphosate and glufosinate-ammonium herbicides	2022 regional test was 584 kilograms, an increase of 9.6% over the control. The average yield per mu in the two-year regional trial was 549 kilograms, an increase of 10.3% over the control; the average yield per mu in the 2022 production trial was 624 kilograms, an increase of 10.2% over the control.
35	Tie 391K	DBN9936	Resistant to Asian corn borer and armyworm, and tolerant to glyphosate herbicide	Participated in the comprehensive agronomic character test of mid-late maturing spring corn varieties in Northeast and East China in the unified national corn variety trials. The average yield per mu in the 2022 production comparison test was 825 kilograms, an increase of 5.7% compared to the recipient variety.
36	Luodan 566DT	DBN3601T	Resistant to Asian corn borer, and tolerant to glyphosate herbicide	Participated in the comprehensive agronomic character test of spring corn varieties in Southwest China in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 480 kilograms, an increase of 0.5% compared to the recipient variety.
37	Wugu 3861KK	DBN3601T	Resistant to Asian corn borer, armyworm, cotton bollworm, and tolerant to glyphosate and glufosinate-ammonium herbicide	Participated in the comprehensive agronomic character test of spring corn varieties in Southwest China in the unified national corn variety trials. The average yield per mu in the 2021 production comparison test was 476 kilograms, an increase of 4.1% compared to the recipient variety.

Target Traits and Yield Performance of GM Soybean Varieties

No.	Variety Name	Event Name	GM Target Traits	Yield Performance
1	Maiyu 526	DBN9004	Tolerant to glyphosate and glufosinate-ammonium herbicides	Participated in the comprehensive agronomic character test of mid-early maturing spring soybean varieties in North China, the average yield per mu in the 2019 regional test was 206.6 kilograms, an increase of 7.3% compared to the control Hejiao 02-69; the average yield per mu in the 2020 regional retest was 215.6 kilograms, an increase of 5.3% over the control; the two-year average yield per mu was 211.1 kilograms, an increase of 6.3% compared to the control. The average yield per mu in the 2020 production test was 179.0 kilograms, an increase of 5.6% compared to the control.
2	Maiyu 503	DBN9004	Tolerant to glyphosate and	Participated in the comprehensive agronomic character test of mid-early maturing spring soybean varieties in North China, the average yield per mu in the 2020 regional test was

			glufosinate-ammonium herbicides	193.2 kilograms, an increase of 3.1% compared to the control Hejiao 02-69; the average yield per mu in the 2021 regional retest was 214.5 kilograms, an increase of 9% over the control; the two-year average yield per mu was 203.9 kilograms, an increase of 6.1% compared to the control. The average yield per mu in the 2021 production test was 200.8 kilograms, an increase of 2.5% compared to the control.
3	Maiyu 511	DBN9004	Tolerant to glyphosate and glufosinate-ammonium herbicides	Participated in the comprehensive agronomic character test of mid-early maturing spring soybean varieties in North China, the average yield per mu in the 2020 regional test was 220.6 kilograms, an increase of 7.8% compared to the control Hejiao 02-69; the average yield per mu in the 2021 regional retest was 213.3 kilograms, an increase of 9% over the control; the two-year average yield per mu was 217 kilograms, an increase of 8.4% compared to the control. The average yield per mu in the 2021 production test was 214.9 kilograms, an increase of 11.9% compared to the control.
4	Maiyu 579	DBN9004	Tolerant to glyphosate and glufosinate-ammonium herbicides	Participated in the comprehensive agronomic character test of mid-early maturing spring soybean varieties in North China, the average yield per mu in the 2020 regional test was 218.7 kilograms, an increase of 6.8% compared to the control Hejiao 02-69; the average yield per mu in the 2021 regional retest was 212.2 kilograms, an increase of 8.6% over the control; the two-year average yield per mu was 215.5 kilograms, an increase of 7.7% compared to the control. The average yield per mu in the 2021 production test was 211.9 kilograms, an increase of 10.3% compared to the control.
5	Maiyu 565	DBN9004	Tolerant to glyphosate and glufosinate-ammonium herbicides	Participated in the comprehensive agronomic character test of mid-early maturing spring soybean varieties in North China, the average yield per mu in the 2020 regional test was 212.7 kilograms, an increase of 3.9% compared to the control Hejiao 02-69; the average yield per mu in the 2021 regional retest was 197.8 kilograms, an increase of 1.3% over the control; the two-year average yield per mu was 205.3 kilograms, an increase of 2.6% compared to the control. The average yield per mu in the 2021 production test was 208 kilograms, an increase of 8.3% compared to the control.
6	Zhongliandou 1505	Zhonghuang 6106	Tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-early maturing spring soybean varieties in North China, the average yield per mu in the 2019 regional test was 203.6 kilograms, an increase of 5.8% compared to the control Hejiao 02-69; the average yield per mu in the 2020 regional retest was 218.5 kilograms, an increase of 6.7% over the control; the two-year average yield per mu was 211.1 kilograms, an increase of 6.3% compared to the control. The average yield per mu in the 2020 production test was 184.2 kilograms, an increase of 8.7% compared to the control.

7	Zhongliandou 1307	Zhonghuang 6106	Tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of early maturing spring soybean varieties in North China, the average yield per mu in the 2020 regional test was 175.2 kilograms, an increase of 4.2% compared to the control Keshan No.1; the average yield per mu in the 2021 regional retest was 191.7 kilograms, an increase of 6.1% over the control; the two-year average yield per mu was 183.5 kilograms, an increase of 5.2% compared to the control. The average yield per mu in the 2021 production test was 175.7 kilograms, an increase of 6.2% compared to the control.
8	Zhongliandou 2825	Zhonghuang 6106	Tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of early maturing spring soybean varieties in North China, the average yield per mu in the 2021 regional test was 187.5 kilograms, an increase of 2.6% compared to the control Keshan No.1; the average yield per mu in the 2022 regional retest was 168.5 kilograms, an increase of 4.2% over the control; the two-year average yield per mu was 178 kilograms, an increase of 3.4% compared to the control. The average yield per mu in the 2022 production test was 169.7 kilograms, an increase of 3.4% compared to the control.
9	Zhongliandou 2109	Zhonghuang 6106	Tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of early maturing spring soybean varieties in North China, the average yield per mu in the 2020 regional test was 182.9 kilograms, an increase of 3.6% compared to the control Keshan No.1; the average yield per mu in the 2021 regional retest was 197.9 kilograms, an increase of 8.3% over the control; the two-year average yield per mu was 190.4 kilograms, an increase of 6% compared to the control. The average yield per mu in the 2021 production test was 179.8 kilograms, an increase of 8.6% compared to the control.
10	Zhongliandou 2041	Zhonghuang 6106	Tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of early maturing spring soybean varieties in North China, the average yield per mu in the 2021 regional test was 184.3 kilograms, an increase of 2% compared to the control Keshan No.1; the average yield per mu in the 2022 regional retest was 174.7 kilograms, an increase of 9.2% over the control; the two-year average yield per mu was 179.5 kilograms, an increase of 5.4% compared to the control. The average yield per mu in the 2022 production test was 177.1 kilograms, an increase of 7.9% compared to the control.
11	Zhongliandou 1309	Zhonghuang 6106	Tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-early maturing spring soybean varieties in North China, the average yield per mu in the 2020 regional test was 203.6 kilograms, an increase of 8.6% compared to the control Hejiao 02-69; the average yield per mu in the 2021 regional retest was 208.5 kilograms, an increase of 6% over the control; the two-year average yield per mu was 206.1 kilograms, an increase of 7.3%

				compared to the control. The average yield per mu in the 2021 production test was 208.5 kilograms, an increase of 6.4% compared to the control.
12	Zhongliandou 1311	Zhonghuang 6106	Tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-early maturing spring soybean varieties in North China, the average yield per mu in the 2020 regional test was 217.4 kilograms, an increase of 6.2% compared to the control Hejiao 02-69; the average yield per mu in the 2021 regional retest was 207.2 kilograms, an increase of 6.1% over the control; the two-year average yield per mu was 212.3 kilograms, an increase of 6.1% compared to the control. The average yield per mu in the 2021 production test was 208.5 kilograms, an increase of 8.6% compared to the control.
13	Zhongliandou 1510	Zhonghuang 6106	Tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-early maturing spring soybean varieties in North China, the average yield per mu in the 2020 regional test was 195.9 kilograms, an increase of 4.5% compared to the control Hejiao 02-69; the average yield per mu in the 2021 regional retest was 218.3 kilograms, an increase of 10.9% over the control; the two-year average yield per mu was 207.1 kilograms, an increase of 7.8% compared to the control. The average yield per mu in the 2021 production test was 209 kilograms, an increase of 6.7% compared to the control.
14	Zhongliandou 1512	Zhonghuang 6106	Tolerant to glyphosate herbicides	Participated in the comprehensive agronomic character test of mid-early maturing spring soybean varieties in North China, the average yield per mu in the 2021 regional test was 214 kilograms, an increase of 8.7% compared to the control Hejiao 02-69; the average yield per mu in the 2022 regional retest was 196.4 kilograms, an increase of 4.4% over the control; the two-year average yield per mu was 205.2 kilograms, an increase of 6.6% compared to the control. The average yield per mu in the 2022 production test was 198.8 kilograms, an increase of 6.5% compared to the control.

END UNOFFICIAL TRANSLATION

Attachments:

No Attachments.