

Vivek Maize Hybrid 25 was selected as a hybrid in station trial for yield and other ancillary attributes Experimental Farm, Hawalbagh and subsequently tested in co-ordinated programme (IET/AET) as FH 3248 for three years by All India Co-ordinated Research Project. Vivek Maize Hybrid 25 was evaluated in Zone I at Almora, Bajoura, Kangra, Barapani, Poonch in these three years. Over three years it exhibited an average yield of 6383kg/ha in Zone I. Vivek Maize Hybrid 25 showed a yield advantage of 40.0% and 59.8% over Him 129 and Surya in Zone I, respectively.

The grains of 'Vivek Maize Hybrid 25' are yellow, semi-dent, flat and bold (1000-grain weight: 340 g). The anthers and silk are purple in colour. Cylindrical ears have medium-low placement on the plant. The ear length and breadth is 18-20 cm and 17-18 cm, respectively with 14-16 regular kernel rows. 'Vivek Maize Hybrid 25' attains an average height of 200-225 cm and matures in 88-90 days in mid hills. The female (V341) and male (V346) parental lines differ from each other with respect to leaf size, tassel size and shape, glume colour, anther and silk colour, husk colour, ear shape, kernels per row and grain texture.

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Notification of Vivek Maize Hybrid 27

Vivek Maize Hybrid 27 is a single cross hybrid (V 335 x V 345) developed by Vivekananda Parvatiya Krishi Anusandhan Sansthan (ICAR), Almora and was identified by All India Annual Workshop and subsequently released by Central Sub-committee on Crop Standards, Notification and Release of Variety Vide Notification No. SO 1703 (E) dated 5.10.2007 for the commercial cultivation in Zone III (UP, Bihar, Jharkhand, Orissa, Chattisgarh, West Bengal) and Zone IV (Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu).

Vivek Maize Hybrid 27 was selected as a hybrid in station trial for yield and other ancillary attributes Experimental Farm, Hawalbagh and subsequently tested in co-ordinated programme (IET/AET) as FH 3288 for three years by All India Co-ordinated Research Project. Vivek Maize Hybrid 27 was evaluated in Zone III at Belipar, Varanasi, Dholi, Kush, Ambicapur, Ranchi,

Joshipur and Zone IV at Hyderabad, Karimnagar, Mandia, Coimbatore and Kolhapur, Arbhavi in these three years. Over three years it exhibited an average yield of 4139kg/ha in Zone III and 4821kg/ha in Zone IV. Vivek Maize Hybrid 27 showed a yield advantage of 23.2% and 35.3% over national check HIM 129 in Zone III and Zone IV, respectively.

The grains of 'Vivek Maize Hybrid 27' are yellow, semi-dent, flat with medium grain size and on an average 1000-grain weight is 300 g. It matures in 80-85 days in recommended area of cultivation. The plant is characterized by medium-high ear placement, cylindrical ear shape, long ear length of 19-21cm, 16-17 cm ear girth and 16-18 regular kernel rows per ear. The tassel is medium-large and open with purplish glume, anther and silk colour.

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Notification of Hulled Barley variety VL Barley 85

VL Barley 85 (HBL 348/VLB 49) is a barley (*Hordeum vulgare* L.) variety developed by Vivekananda Parvatiya Krishi Anusandhan Sansthan (VPKAS) Almora, Uttarakhand has been released by State Varietal Release Committee and notified vide Notification No. S.O. 1703(E), SI. No. 28, The Gazette of India dated 5th October 2007 for rainfed, timely sown organic conditions of Uttarakhand hills. The parents HBL 348 and VLB 49 were advance lines from CSK, HPKVV, Palampur (H.P.) and VPKAS respectively. The segregating generations were handled by typical pedigree method and the F₆ bulk was tested for its yield performance and later it was included in IVT, Northern hill zone trials during 2002-03. VL Barley 85 has performed well in comparison to the checks, namely VLB 1 and HBL 276 in multi-location trials during 2003-04 to 2005-06. Barley 85 gave an average grain yield of 14.01q/ha which was 13.38 and 18.93 % higher than the checks VLB 1 and HBL 276, respectively. The yield trials were conducted under organic conditions in organic block with 20 t/ha FYM only.

VL Barley 85 has intermediate growth habit during early phase. Its foliage colour is green. Plants are semi tall of about 82 cm in height. At the flowering stage the whole plant has a layer of wax. At maturity the 6 rowed

ears become white in color and tapering in shape with intermediate density. It possesses normal awns and the ears incline downwards around 120-130° angle during maturity. It has an early heading at 117 days as compared to 119 and 122 days of VLB 1 and HBL 276, respectively. The average days to maturity are 161 days that is *at par* with VLB 1 (163 days) the earliest maturing variety. It possesses yellow oblong medium grains with 32 g weight of 1000 grains.

VLB 85 possesses high degree of resistance to yellow rust [10S(3.3ACI)] and exhibited immune reaction to brown rust under artificial epiphytotic conditions. This variety has also recorded 0 infection to stripe disease but low score to leaf spot under natural field conditions. Multiple disease resistance in VL B85 is a unique feature of the variety.

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Notification of VL Soya 59

VL Soya 59 (National Identity No. 1C 471839) a soybean variety developed by Vivekananda Parvatiya Krishi Anusandhan Sansthan, Almora from a three-way cross through hybridization of (PB-1 X VLS 2) X EC 361336. It was released and notified by Central sub-committee on crop standards, Notification and Release of variety Vide Notification No. SO 2458 (E) dated 16.10.2008, for the rainfed timely sown conditions of hills of North-Western Himalayas which includes Uttarakhand hills and Himachal Pradesh. It has been released and notified for high yield and superior quality with low linolenic acid (C18:3 as 3.96) which improves oxidative stability of oil, hence improve its commercial value. Prior to submission of VLS 59 as an entry to the All India Co-ordinated system, VLS 59 was selected as an entry in station trial for yield and other ancillary attributes from a two years evaluation at Experimental farm, Hawalbagh. Subsequently it was evaluated in co-ordinated programme (IVT/AVT) as VLS 59 for four years by All India Coordinated Research Project, NRC for soybean. In these years, VLS 59 was evaluated at Hawalbagh, Kangra, Palampur and Chiniyalisaur located in Indian Himalayas. It ranked first in 10 out of 12 locations for yield indicating a wider adaptability and consistent performance of this variety. On an average, it yielded 25.62 q/ha and the maximum yield was

obtained at Hawalbagh (38.52 q/ha) in 2003. VLS 59 has shown significant yield superiority of 9.9% over best check VLS 47. VLS 59 has 39.15 % protein and 19.35 % oil content and showed moderate multiple resistances against pod blight (anthracnose) (31.2) and target leaf spot (22.2) and moderate resistance to frog eye leaf spot (28.4) over years & locations in north-western hills. VL Soya 59' has determinate growth habit (72.8 cm) variety and requires 120.1 days (101 to 138 days) to mature. The mean 100-seed weight of VL Soya 59' is 13.96g. VL Soya 59' may ensure nutritional security of the hilly people to the otherwise under-nourished hill population.

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Notification of Soybean Variety VL Soya 63

VL Soya 63 (National Identity No. 1C 560946) variety developed by Vivekananda Parvatiya Krishi Anusandhan Sansthan (ICAR), Almora from a three-way cross through hybridization of VLS 2 x (Bragg x VHC 3022). It was released and notified by Central sub-committee on crop standards, Notification and Release of variety Vide Notification No. SO 2458 (E) dated 16.10.2008, for the rainfed timely sown conditions of hills of North-Western Himalayas which includes Uttarakhand hills and Himachal Pradesh. Prior to submission of VLS 63 as an entry to the All India Co-ordinated system, VLS 63 was selected as an entry in station trial for yield and other ancillary attributes from a two years evaluation at by Experimental farm, Hawalbagh. Subsequently, it was evaluated in co-ordinated programme (IVT/AVT) as VLS 63 for three years in All India Co-ordinated Research Project, NRC for soybean. In three years, VLS 63 was evaluated at Hawalbagh, Kangra, Palampur and Chiniyalisaur located in Indian Himalayas. It ranked first in 8 out of 9 locations for yield indicating a wider adaptability and consistent performance of this variety. On an average it yielded 2758.2 q/ha and the maximum yield was obtained at Hawalbagh (38.27 q/ha) on 2005. VLS 63 (25.58 q/ha) has shown significant yield superiority of 18.2% over best check VLS 47. VLS 59 has 41.04 % protein and 17.91 % oil content and showed moderate multiple resistances against pod blight (anthracnose) (9.1) and target leaf spot (11.1) and moderate resistance