

IMPROVED VARIETIES OF COTTON

American Cotton

MRC 7017 BG-II (2010): It is a new early maturing high yielding Bt Cotton hybrid with inbuilt resistance against American, spotted and pink bollworms, and tobacco caterpillars. This hybrid is also resistant to cotton leaf curl virus and tolerant to parawilt. It has semi-sympodial plants with green broad lobed leaves, cream flowers having pale yellow anthers. It belongs to medium maturity group and gave an average seed cotton yield of 10.4q/acre. It has very good fibre properties. With fibre length of 29.7 mm with ginning outturn of 33.6 per cent.

MRC 7031BG-II (2010) : It is a new high yielding Bt cotton hybrid with inbuilt resistance against American, spotted and pink bollworms, and tobacco caterpillars. It is also resistant to cotton leaf curl virus and tolerant to parawilt. The plant of this hybrid possesses green broad lobed leaves and cream flowers with pale yellow anthers. It gave an average seed cotton yield of 9.8 q/acre. The fibre length of this hybrid is 29.4 mm and ginning outturn is 33.4 per cent.

RCH 308 Bt (2008) : It is newly released bollworm resistant Bt cotton hybrid with broad lobed leaves and green plant body. It bears 2-3 monopods and 25-26 sympods per plant. It matures in 165- 175 days and gave an average seed cotton yield of 8.0 q/acre. It has good boll size (3.7 g) with fluffy opening. It's 2.5% span length is 28.4 mm and ginning outturn of 35.2%.

RCH 314 Bt (2008) : It is new Bt cotton hybrid having resistance to boll worms. It has green broad lobed leaves, 2-3 vegetative and 21-22 fruiting branches. It bears big bolls (3.9 g) with fluffy opening. It gave an average seed cotton yield of 8.2 q/acre and matures in 165-175 days. It's lint percentage is 35.2 with 2.5% span length of 28.2 mm.

RCH 317 Bt (2006) : It is high yielding, *intra-hirsutum* Bt cotton hybrid resistant to spotted bollworm and American bollworm. It has broad lobed green leaves with 2-3 monopods and 26-27 sympods. It matures in 160-165 days. It has boll size of 3.7 g with good fluffy opening. It recorded average yield of 10.5 q/acre. It has 28.6 mm 2.5% span length and 33.9% ginning outturn.

MRC 6301 Bt (2006) : It is high yielding, *intra-hirsutum* Bt cotton hybrid resistant to spotted bollworm and American bollworm. It has broad lobed green leaves, 3-4 monopods and 24-25 sympods. It gave average yield of 10.0 q/acre seed cotton and matures in 160-165 days. It has good boll size (4.3g) with good fluffy opening. It has 28.3 mm 2.5% span length and 34.7 per cent ginning outturn.

MRC 6304 Bt (2006) : It is high yielding, *intra-hirsutum* Bt cotton hybrid resistant to spotted bollworm and American bollworm. It has green broad lobed leaves, 2-3 monopods and 26-27 sympods. It matures in 160-165 days. It has boll size of 3.9 g and has good fluffy opening. It gave an average yield of 10.1 q/acre seed cotton. It has good fibre properties with 2.5% span length of 29.0 mm and 35.2 per cent ginning outturn.

LHH 144 (1998) : This is an *intra-hirsutum*, leaf curl virus resistant hybrid, with semi-okra leaves. It has 3-4 monopods, 20-25 sympods and about 151 cm plant height. The average boll weight is 5.5 g. Besides its resistance to leaf curl it is also tolerant to jassid and bacterial blight. It matures in about 180 days and is suitable for cotton-wheat rotation. It recorded an average seed cotton yield of 7.6 q/acre. It has 28.8 mm 2.5% span length and 33.0% ginning outturn. LHH 144 has superior medium staple fibre which is suitable for spinning at 40_s counts.

LH 2076 (2008) : It is newly released, high yielding, cotton leaf curl virus resistant variety with

green broad lobed leaves and green stem. It matures in 165-175 days with average plant height of 153 cm. It gives an average seed cotton yield of 7.8 q/acre. It has 33.4% ginning outturn and 27.1 mm 2.5% span length.

F 1861 (2002) : It is a cotton leaf curl virus resistant variety recommended for cultivation throughout the Punjab State. The plant of this variety bears 1-2 monopods with 13-16 sympods and has an average plant height of 135 cm. It has dark green broad lobed leaves with narrow tips slightly curved upwards. Its maturity period is 180 days. It recorded an average seed cotton yield of 6.5 q/ acre. It has medium staple with 2.5% span length of 26.3 mm. Its ginning outturn is 33.5% and is spinnable at 30s counts.

LH 1556 (1995) : It is short duration, early maturing variety of cotton. It is semi-sympodial in growth habit with 1-2 monopods and plant height of 140 cm. It has light green medium sized leaves and round bolls with good fluffy opening. Its 2.5 per cent span length is 27.7 mm and is suitable for spinning at 40 counts and gins 34.0 per cent. It matures in about 165 days. Its seed cotton yield is 8.5 q/acre.

Desi Cotton

PAU 626 H (2007) : It is an early maturing and high yielding genetic male sterility based *desi* cotton hybrid. Plants of this hybrid have pigmentation on stem and branches, leaves are green of medium size and okra in shape with five lobes. It has pink flowers with yellow anthers. It possesses medium size bolls with fluffy opening. It vacates the field in about 160 days for timely sowing of rabi crops. Its average yield is 9.8 q/acre. Its ginning outturn is 40.0% and fibre length is 20.1 mm. It has better tolerance to Fusarium wilt and bacterial blight.

FDK 124 (SVAC) : It is an early maturing, high yielding variety of *desi* cotton. It has green plant body and narrow lobed leaves. It is synchronous in maturity and takes about 160 days to mature. It is short staple, coarse fibre variety with 2.5 span length of 21.0 mm and ginning outturn of 36.4%. It gave an average seed cotton yield of 9.28 q per acre. It is resistant to jassid and whitefly.

LD 694 (2001) : It is a *desi* cotton variety with dark-red pigmented plant body, narrow lobed leaves, pink flowers and red spot inside the petal. It possesses big bolls with fluffy opening. LD 694 matures in about 170 days and is more synchronous in maturity than other released varieties of *desi* cotton. It is short staple, coarse fibre variety with ginning outturn of 40.9%. It gave an average seed cotton yield of 7 q/acre. It is resistant to jassid and more tolerant to *Fusarium* wilt and bacterial blight.

LD 327 (1987) : It is a high yielding and high ginning semi-sympodial variety. The plants are reddish brown with narrow-lobed deep cut leaves and pink flowers. It possesses big bolls usually with 4-loculi, better opening and easy picking. It vacates the field in about 175 days for the timely sowing of wheat. It is relatively tolerant to *Fusarium* wilt. Its fibre is short, coarse and suitable for export . Its average yield is 11.5 q/acre. Its 2.5% span length is 19.0 mm and ginning percentage is 41.9.