Mahatma Phule Krishi Vidyapeeth, Rahuri

Issue No: 24 May, 2016

MPKV HAPPENINGS

May, 2016

Maharashtra Day celebrated

The 56th Maharashtra Day and International Labour Day was organized at Central Campus, MPKV, Rahuri. The Flag hoisting was done at the auspicious hands of Vice Chancellor Dr. K.P. Viswanatha. On this occasion Dr. Viswanatha said that our country and state is blessed with natural resources. Further, he emphasized the need for conservation of nature to minimize the impact of drought. This University has evolved 237 crop varieties, 25 farm implements and more than 1300 crop production technologies for farming community and other stakeholders, he said. Dr. K.D. Kokate, Director of Extension Education and Research, Dr. B.R. Ulmek, Dean (F/A), Registrar Shri. Sopan Kasar, Comptroller Shri. B.G. Nirmal, Heads of Department, University scientists were present in large number. The programme was anchored by university Security Officer Dr. U.K. Kadam.

Agriculture Education and Farm Implements Company Meet organized

The State level Agriculture Education and Farm Implements Company Meet was organized at College of Agriculture, Pune in co-ordination with Central Institute for Agriculture Engineering (CIAE), Bhopal. Dr. K.P. Viswanatha, Vice Chancellor presided over the function. In his presidential address Dr. Viswanatha opined about less per capita land availability. He emphasized upon need based farm mechanization suitable for marginal and small farmers, its availability and low production cost for increasing farm mechanization. Director CIAE Dr. K.K. Singh emphasized on need of farm implements and machinery and its proper testing techniques developed at CIAE, Bhopal. Director of Extension Education and Research Dr. K.D. Kokate, Director (ATMA) Mr. K.V. Deshmukh, Former Vice Chancellor Dr. PDKV, Akola Dr.V.M. Mayande, Director NRC on grapes Dr. S.D. Sawant were present for the programme. Dr. V.S. Shirke anchored the programme, while, Dr. P.A. Turbatmath proposed vote of thanks.

Climate Change Workshop organized

A Workshop on Climate Change Knowledge Network-Indian Agriculture (CCKN-IA) was organized at College of Agriculture, Pune. Dr. K.D. Kokate, Director of Extension Education and Research inaugurated the workshop. In his inaugural address, he emphasized on integrated farming and its implementation in agriculture for sustainable production. MPKV has given various recommendations for location specific and need based integrated cropping system, he said. The Govt. of India is implementing the Climate Change project in three states *viz.*,Maharashtra, Orissa and Jharkhand in collaboration with GIZ, Germany, MPKV, Rahuri and other stakeholders. Group nursery for

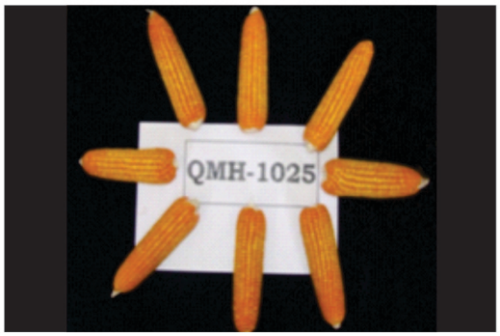
paddy, SRI production technology in paddy, Use of plastic bag for improvement of fruit quality in pomegranate, irrigation scheduling, application of biofertilizers and poultry breeds, need based technologies were discussed for its application in selected villages under this project. Representative of GIZ, Germany Dr. Zakir Hussain, Additional Director (ATMA) Dr. Prakash Adangale, State Agriculture Climate Advisor Shri. Somnath Chaudhary, Head Dr. S.D. Gorantiwar, Dr. Uday Deshmukh were present for the workshop.Dr. S.B. Kharbade proposed vote of thanks.

44th Joint AGRESCO organized

The 44th meeting for Joint Agricultural Research and Development Committee of four SAUs of Maharashtra was organized by Dr. PDKV, Akola in co-ordination with MCAER, Pune. Shri. Devendra Fadnavis, Hon'ble Chief Minister, Maharashtra State inaugurated the three day meet. Shri. Eknathrao Khadase, Hon'ble Minister of Agriculture, Marketing and Revenue, M.S. presided over the function, while, Shri. Rajiv Pratap Rudy, Hon'ble Union Minister of State for Skill Development and Entrepreneurship, GOI, Shri. Vishnu Deo Sai, Hon'ble Minister State for Steel and Mines, GOI, Hon'ble Guardian Minister of Akola Dr. Ranjit Patil were the Chief Guests. Member of Parliament Shri. Sanjay Dhotre, MLA Shri. Prakash Bharsakale,Vice Chairman, MCAER Dr. Ram Kharche, Vice Chancellors of SAUs Dr. K.P. Viswanatha (MPKV,Rahuri), Dr. Venkateswarlu (VNMAU, Parbhani), Dr. Tapas Bhattacharya (DBSKKV, Dapoli), Dr. Raviprakash Dani (Dr.PDKV, Akola) and Directors Dr. K.D. Kokate, Dr. B.R. Ulmek were present for the function. Dr. K.D. Kokate, Director of Extension Education and Research presented the various crop production technologies, varieties and farm implements. In all MPKV released 69 crop production technologies, 9 varieties and 3 farm implements.

Released Varieties /Hybrids
Field Crops
Maize hybrid : *Phule Maharshi*

Maize hybrid *Phule Maharshi* (QMH-1025) is recommended for release in Maharashtra for *kharif* season.

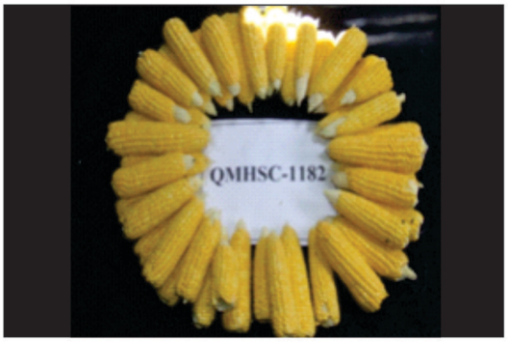


Salient features

- High yield with Orange yellow, semi-flint grain
- Yield potential:
  Green cob yield with husk : 76.05 q/ha.
- % increase over
  Rajarshi (LC) : 37.27 %
  BIO (NC) : 24.20 %
  Uday (C) : 31.28 %
- Suitable for *Kharif* season
- Midlate maturity: 95-110 days
- Resistant to Maydis Leaf blight & FusriumStock Rot and moderately resistant to Turcicum Leaf Blight, Bacterial Sheath, Leaf Blight and Charcoal rot.
- Resistant to stem borer (*Chilo partellus*) under field condition.

Maize Sweet Corn hybrid : *Phule Madhu*

Maize Sweet Corn hybrid *Phule Madhu* (QMHSC – 1182) is recommended for release in Maharashtra for *kharif* season.



Sailent features

- High yield with cream yellow, flint grain at green cob stage.
- Sweet corn single cross hybrid.
- Yield potential : Green cob yield with husk : 128.64 q/ha.
- % increase over *Madhuri* - 42.70 %, *Priya*- 64.97% WOSC: 45.01 %
- Sweetness (Brix) : 14. 89%.
- Moderately resistant to Turcicum Leaf Blight, Maydis Leaf Blight and Fusarium Stock Rot.
- Resistant to stem borer (*Chilo partellus*) under field condition.

Hy. Napier: *Phule Gunwant* (RBN -2011-12)

Phule Gunwant (RBN -2011-12) perennial Bajra X Napier hybrid is recommended for release to obtain higher yield of nutritious green forage under irrigated condition of Maharashtra.

Sailent features

- Green forage yield : 1153.69 q/ha/year, % increase over NB-21 - 29.20%, CO-3 : 28.62 %, *Phule Jaywant* (SC) -16.78 %,
- Dry Matter yield : 252.80 q/ha/year, % increase over NB-21 : 38.60 %, CO-3 : 32.74 %, *Phule Jaywant* (SC) : 17.21 %
- Resistant to leaf blight disease and no incidence of insect pest
- Better fodder nutritional qualities- (Low Oxalic acid content 2.05 %)
- High tillering ability.

Chickpea: *Phule Vikram*

Chickpea variety *Phule Vikram* (G-08108) is recommended for release in Maharashtra for mechanical harvesting.

Salient features

1. Tall growth habit, hence suitable for mechanical harvesting
2. Average yield :
   - Under optimum sown irrigated condition : 2225 kg/ha. (Percent increase over *Vijay* - 16.92 %, *Vishal*- 19.50 % , *Digvijay* - 11.36 %)
   - Under late sown irrigated condition : 2112 kg/ha (Per cent increase over - *Vijay*- 19.86 % , *Digvijay*- 17.73 % , *Visha*l - 31.10 %)
   - Under rainfed condition - 1637 kg/ha (Percent increase over *Vijay* -4.94 %, *Vishal* - 7.49 % , *Digvijay* -3.41 %)
3. Potential yield: 4593 kg/ha.
4. Yellowish brown, medium size seed (20.5 g/100 seed).
5. Resistant to *Fusarium* wilt (1.98 % incidence).
6. Period of mechanical harvesting - 105 to 110 days.

Cotton : *Phule Shwetambari*

Hirsutum cotton hybrid *Phule Shwetambari* (RHH-0622) is recommended for release in irrigated condition of Maharashtra.

Salient features

- Highest seed cotton yield : 2125 kg/ha
  (Percent increase over Phule- 492- 18.92% , *Ankur*- 651 - 33.35%)
- Mean Ginning out turn : 33.7 %
- Highest strength/length (S/L) ratio :0.83
- Moderately resistant to dahiya, Bacterial Blight and Alternaria Blight.
- Tolerant to sucking pests and bollworms.
- Recommended for irrigated tract of Maharashtra state

Soybean : *Phule Sangam*

Soybean variety *Phule Sangam* (KDS 726) is recommended for release in southern Maharashtra for *Kharif* season.

Salient features

- Seed yield - 2097 kg/ha (Percent increase over JS 335 - 25 %, JS 93 05 - 32 %, JS 9752 - 31 %, MAUS 71 - 34 %, P. *Agrani* - 05 %)
- Suitable for Southern Zone (Southern Maharashtra, Telangana, Karnataka, Tamil Nadu)
- Duration : 95-97 days
- Oil per cent : 18.42 %
- Resistant to rust
- Moderately resistant YMV, Charcoal rot , Collar rot
- Moderately resistant to Stem fly

Sugarcane : CoVSI- 03102

The midlate sugarcane variety Co VSI- 03102 is recommended for cultivation in a Preseason and Suru seasons for sugarcane growing areas of high rainfall zone of Maharashtra.

Salient features

- Cane yield : 129.24 t/ha (Percent increase over Co 92005 : 35.96 % , Co 86032 : 17.29 %
- Sugar yield :19.53 t/ha (Percent increase over Co 92005 : 34.60 %, Co 86032 : 24.00 %
- Higher sucrose in juice
- Recommended for Preseasonal and Suru planting seasons.
- Easy detrashing.
- Less susceptible to internode borer and resistant to smut disease.
- Moderately resistant to rust and brown spot diseases.

Horticulture Crops

Okra : *Phule Vimukta*

Yellow vein mosaic virus disease resistant okra variety *Phule Vimukta* is recommended for release and cultivation in Maharashtra.

Salient features

- Yield- 206.10 q/ha (percent increase over, Phule Utkarsha - 11.68%, Arka Anamika- 21.93 , Mahyco Hy. No 10 - 17.24%
- Attractive green colour fruits, shining
- Resistant to yellow vein mosaic virus disease
- Tolerant to white fly, jassids and fruit borer
- High content of calcium and phosphorus

Clusterbean : *Phule Guar*

Clusterbean variety *Phule Guar* (RHRCB Selection -10) having higher pod yield, light green pod colour, better taste and moderately resistant to powdery mildew disease is recommended for release and cultivation in Western Maharashtra.

Salient features

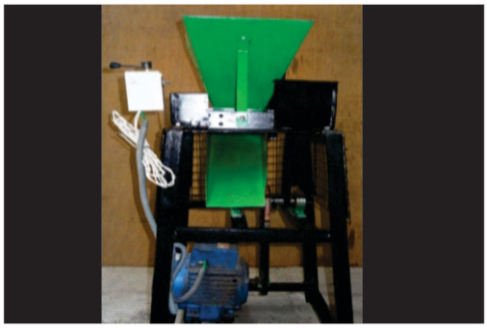
- Attrative light green colour
- Yield : kharif : 104 41 q/ha (29.15 % higher than check variety NCB-40), rabi - 153.61 q/ha (19.30 % higher than check variety NCB-40)
- Moderately resistant to powdery mildew

Farm Implements

Phule check basin former

Rain water conservation for Rabi sorghum by formation of check basins of size 6 m in length and 2 m in width with Mahatma Phule Krishi Vidyapeeth developed tractor operated Phule check basin former is recommended.

Phule Nut Sheller



The Phule power operated 1 H.P. single phase nut sheller developed by Mahatma Phule Krishi Vidyapeeth is recommended for shelling of medicinal nuts like *Hirda,* and *Ritha*.

Phule drumstick harvester

Manually operated Phule drumstick harvester developed by Mahatma Phule Krishi Vidyapeeth is recommended for harvesting of drumstick.

Registration of Biotic resistant sources

The rice entry NLR 20104 is identified as multiple disease resistant genotypes as it showed consistently resistant reaction to leaf blast, neck blast and brown spot diseasesThe rice entry TeTep is identified as multiple disease resistant genotypes as it showed consistently resistant reaction to leaf blast, neck blast, leaf scald and brown spot diseases.

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