



GRAPE-NEWS

A Publication of National Research Centre for Grapes, Pune



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Director's Desk

October - March in grape season is an important period for both the research workers and others stakeholders of grape industry. During this period fruit pruning, application of various bio and systemic chemicals apart from manures and fertilizers for growth, flowering, flower setting, thinning, berry colouring, size, shelf life and very important is the management of various insects, and pests and keeping the residues of chemicals within the prescribed MRL values. Keeping this in view the new research programme were initiated as per the set targets under the RAC / IRC. Based on the various findings of ongoing research projects, the expert advice was extended to various grape industry stakeholders mainly growers, packers, exporters and processing industry through participation in growers' seminars / meetings organized in various parts of Maharashtra, Andhra Pradesh, Karnataka and Tamil Nadu. Professional training programmes organized in the state, field visits and also through the publication of extension folders, bulletins, leaflets and distribution of audio-visual aids. Institute prepared new recommendation schedule of 46 agrochemicals for the

management of various insect pests and diseases besides, the list of 92 chemicals was prepared to be monitored in exportable grapes to EU countries under the pesticide residue monitoring programme of the APEDA under the National Referral Laboratory programme. Marketing requirements in terms of MRL fixed for various pesticides and other quality parameters of Agmark in EU countries were brought to the notice of grape growers, packers and exporters from time to time besides organizing training for sampling, proficiency test for 6 nominated laboratories under the NRL. New programmes were initiated in the area of quality / planting material.

All the activities organized by the Institute during last six months have been listed in the present publication for the benefit of all the stakeholders of grape industry. If there is any clarification / suggestions for improvement this may be brought to the notice of undersigned.

(P.G. ADSULE)

Research Activities

Release of Australian ladybird beetle *Cryptolaemus montrouzieri* @ 2000 / acre was found to be highly effective in controlling the pink mealybug on Flame Seedless.

Application of Abamectin EC @ 0.3 ml/L was found to be safe and effective in controlling red spider mite *Tetranychus urticae* on Thompson Seedless.

Transfer of Technology

Participation in Grape Growers' Seminars

Dr. R. G. Somkuwar delivered lectures related with canopy management and production aspects on 10th, 17th, 20th, 22th Oct. 2007, 9th and 14th Jan. 2008 in seminars at Osmanabad, Nasik, Yawat, Sangli, Tuljapur and Sangli respectively. About 2400 participants benefited.

Dr. S. D. Ramteke delivered lectures on growth regulators related issues on 10th Oct. and 17th Nov. 2007 in seminars organized at Baramati and Narayangaon respectively.

Dr. G. S. Karibasappa addressed raisin making related

issues at Sangli on 14th Jan. 2008 to the delegates of Vasant Rao Arve R and D Trust.

Participation in Kisan Mela / Exhibition

- Dr. P. G. Adsule, Director, Dr. R. G. Somkuwar, Dr. J. Sharma and Dr. N.S. Kulkarni participated in the Krishi 2007 exhibition at Nasik. Dr. P.G. Adsule, chaired the session on 'Techniques for production of quality grapes'. The technologies were displayed at Center's stall from 28th Nov. to 2nd Dec. 2007.
- Dr. P. G. Adsule, Director and Dr. R. G. Somkuwar attended the Kisan Mela on 29-30th Oct. 2007 at NRC for

Citrus, Nagpur. Dr. P. G. Adsule addressed on this occasion.

- The Centre participated in Horticulture Trade Fair 2008 organized by the Deptt. of Horticulture Govt. of Andhra Pradesh at Hyderabad on 26-30th Jan. 2008. The stall displayed charts / posters and live samples of table and wine grapes. About 1000 individuals visited the stall.
- The Centre participated in Science Day celebration organised by TIFR at Giant Metrowave Radio Telescope, Khodad, Narayangaon on 20-29th Feb. 2008.

Field Visits

Dr. P. G. Adsule, Director visited various vineyards in Pandharpur, raisin drying yards at Junoni and vineyards and wineries at Nimni and Borgaon along with the QRT Team on 5-6th Oct. 2007.

Dr. P. G. Adsule, Director visited vineyards and interacted with the grape growers in Jaisinghpur. He participated in the 'Krishi Pragat 2007' at Kolhapur and delivered presentation on Agro Processing Industries with reference to Grape Processing on 17-18th Nov. 2007.

Dr. P. G. Adsule, Director participated in the Science Live Event at Goa organized by M/s Syngenta India Ltd. and assessed pesticide lab facility. He also evaluated M/s Goa Chem Laboratory for RMP during 26-29th Nov. 2007.

Dr. J. Sharma and Dr. A. K. Sharma visited Kasegaon, Pandharpur, Umdi, and Mangalvedha areas on 24-25th Jan. 2008 and identified incidence of bunch necrosis and mummification in raisin grapes.

Dr. J. Sharma, Dr. A. K. Sharma and Dr. J. Satisha visited Miraj area of Sangli district on 28-29th Jan. 2008 to study the performance of rootstocks and also to identify the vineyards of wine grapes for future survey work.

Dr. P. G. Adsule, Director visited the APEDA-Variety Evaluation plots at Phaltan, Vita / Boregaon areas, on 16th Feb. 2008. He also visited M/s. Fresh Express Logistics packhouse at Kupwad (Miraj).

Dr. M. Mani and Dr. N. S. Kulkarni surveyed Sangli, Nasik and Solapur during 5-7th Dec. 2007, 2-3rd Jan. 2008 and 8-9th Jan. 2008 respectively for thrips, mealybugs and mites. Incidence of thrips was more in Solapur. Recommendations were given on spot, as per Annexure - 7 of the RMP of Grapes for Export.

Television Programme / Talk

Information on National Referral Laboratory was telecasted on Doordarshan on 28th Mar. 2008.

Dr. R. G. Somkuwar delivered a talk on 'Low temperature effect on berry development' broadcasted on 1st Feb. 2008 by Aakashwani, Nasik Kendra.

Honours / Recognitions / Awards

The research paper **Banerjee K, Oulkar D. P., Dasgupta S., Patil S. B., Patil S. H., Savant R. and Adsule P.G. 2007. Validation and uncertainty analysis of multi-residue method for pesticides in grapes using ethyl acetate extraction and liquid chromatography. Journal of Chromatography A., 1173 (1-2): 98-109**, was ranked first among top 25 hottest articles during Oct. - Dec. 2007

by Science Direct in Journal of Chromatography A. This paper was also ranked 14th under top 25 hottest articles within chemistry group of Science Direct which covers more than 100 journals.

Dr. R. G. Somkuwar bagged BHASKAR AWARD - 2007 by Journalist Foundation of Pune.

Participation in Scientific Seminars / Symposia / Workshops / Meetings

Dr. J. Satisha participated in a workshop on 'Rejuvenation of Horticulture and Planting material at Lalbagh, Bangalore on 21st Sept. 2007.

Dr. S. D. Ramteke attended a National Seminar on Plant Physiology and participated in discussion on role of plant growth regulators, organized at KKV, Dapoli on 29th Nov. - 1st Dec. 2007.

Dr. J. Satisha participated in one-day national seminar on 'Horticultural Biotechnology' at IIHR, Bangalore on 8th Dec. 2007.

Dr. R. G. Somkuwar attended a symposia on MAHAWINES at Nasik from 11th to 13th Jan. 2008. On 12th

Jan. he delivered a lecture on 'Present Status of planting material for wine grape cultivation in India'.

Dr. P. G. Adsule and Dr. R. G. Somkuwar attended the meeting on 'Preparation of handbook on Seed and planting material for horticultural crops and labels to be prepared' on 11-12th Mar. 2008 at CISH, Lucknow. During group discussion on 12th Mar., the standards for grape nursery plants i.e., unrooted cuttings, rooted plants and grafted plants were formulated.

Dr. P. G. Adsule, Dr. K. Banerjee, Dr. A. K. Sharma and Dr. J. Satisha participated in a seminar on wine organized by ADEPTA at Pune on 23rd Oct. 2007.

Human Resource Development

Training Programmes Organized

- i. A three days training programme on **Recent Advances in Production of Export Quality Grapes** was organized on 8-10th Oct. 2007 to twenty-five officers of M/s Fresh Logistic Pvt. Ltd., Sangli. Dr. J. Satisha coordinated the training programme.
- ii. Two days training programme on **GMP and GHP during post-harvest handling and maintenance of**

quality in grapes for export was organized on 5-6th Dec. 2007 to the staff of M/s Field Fresh, Nasik. Dr. A. K. Sharma and Dr. K. Banerjee coordinated the programme.

- iii. A three days training programme on **Viticultural practices for export quality grapes** was organized for M/s Deepak Fertilizers on 10-12th Dec. 2007. Dr. J. Sharma coordinated the training programme

Publications

Research Papers

Banerjee Kaushik, Oulkar Dashrath P, Patil Sangram H, Dasgupta Soma, and Adsule P G. 2008. Degradation kinetics and safety evaluation of tetraconazole and difenoconazole residues in grape. *Pest Management Science*. **64**: 283-289.

Banerjee Kaushik, Patil Sangram H, Dasgupta Soma, Oulkar Dashrath P and Adsule P G. 2008. Sorption of thiamethoxam in three Indian soils. *Journal of Environmental Science and Health*. Part B **43(2)**: 151-156.

Satisha J., Doshi Pooja and Adsule P.G. 2008. Influence of rootstocks on changing pattern of phenolic compounds in Thompson Seedless grapes and its relation to the incidence of powdery mildew. *Turkish Journal of Agriculture and Forestry*. **32(1)**: 1-9.

Satisha J., Prakash G. S., Murti G. S. R. and Upreti K. K. 2007. Water stress and rootstocks influences hormonal status of grafted grapevines. *European Journal of Horticultural Sciences*. **72(5)**: Published on line.

Satisha J., Ramteke S. D. and Karibasappa G. S. 2007. Physiological and biochemical characterization of grape rootstocks. *South African Journal of Enology and Viticulture*. **28(2)**: 163-168.

Somkuwar R.G. and Ramteke S.D. 2007. Fruitfulness in relation to bud position in Tas-A-Ganesh grapes grafted on Dog Ridge rootstock. *The Asian J. Hort.* **2(2)**: 87-88.

Somkuwar R.G., J. Satisha and S. D. Ramteke. 2007. Effect of Indol - 3 Butyric acid on rooting of Dogridge rootstock. *Ann. Plant Physiol.* **20(2)**: 186-187.

Somkuwar R.G., Satisha J and Ramteke S.D. 2007. Standardization of propagation methods to raise grape vineyards on rootstocks. *Advances in Plant Science*, **20(1)**: 107-109.

Somkuwar R.G., Satisha J and Ramteke S.D., 2007. Standardization of stock scion age for propagation through grafting in Thompson Seedless grapes. *J. Maharashtra Agril. Univ.*, **32(3)**: 349-351.

Meeting Organized

Quinquennial Review Team (QRT)

The final meeting of the QRT was convened on 3-4th Dec. 2007 under the Chairmanship of Dr. S.S. Kadam, Vice-Chancellor, MAU, Parbhani for finalization of report. The QRT interacted with the IMC, IJSC and the staff of the Centre and finalized the report for submission to the Director General, ICAR.

Research Advisory Committee (RAC)

The 10th meeting of the RAC was held on 29-30th Mar. 2008 under the Chairmanship of Dr. K.L. Chadha, Ex DDG (Hort.). The members: Dr. Y.R. Chanana (Emeritus Scientist, PAU), Dr. Dharam Vir Singh (Emeritus Scientist, IARI), Dr. M.D. Awasthi (Ex-Head, IIHR) Dr. S.N. Pandey (ADG (Hort.), ICAR), Mr. Rajeev Samant (M.D., M/s Sula Wines Ltd.), Dr. P. G. Adsule (Director) and Dr. M. Mani, Member Secretary

reviewed the action taken report on 9th RAC and progress report of ongoing projects and suggestions were offered for further improvement.

Institute Research Committee (IRC)

The 12th mid-term IRC meeting was held during 22-24th Jan. 2008 under the chairmanship of Dr. P.G. Adsule, Director. The progress of the research projects, action taken report on the recommendations of previous QRT, IRC and RAC were assessed. New project proposals were also discussed.

Institute Management Committee (IMC)

The IMC meetings were held on 4th Oct. 2007 and 24th Feb. 2008 under the Chairmanship of Dr. P.G. Adsule, Director.

Personal

Deputation Abroad

Dr. Anuradha Upadhyay, Sr. Scientist (Biotechnology) deputed to CSIRO Plant Industry, Adelaide, South Australia on 'Specialized training of Biotechnology' under Department of Biotechnology for a period of one year from

26th November 2007 to 25th Nov. 2008.

Sabbatical leave for one year from 26th Nov. 2007 has been sanctioned to Dr. A.K. Upadhyay, Sr. Scientist (Soil Science) to avail 'Visiting honorary post doctoral fellow at Adelaide', South Australia.

Visitors

- Mr. Davor Pisk, Asia Pacific Head; Mr. Prakash Apte, India Managing Director and Mrs. Aruna Bhinge, Business Head of M/s. Syngenta India Ltd. visited on 18th Oct. 2007 to discuss future of India's grape industry.
- Dr. S. D. Shikhamany, Director, IIHR, Bangalore visited on 22nd Oct. 2007 and expressed happiness to see the continued progress in the infrastructure and research facilities.
- Mr. Dominique from Bayer CropScience Ltd. visited on 17th Jan. 2008 and discussed with Director and Scientists regarding use of pesticides grapes.
- A delegation of Italian Government Officers visited on 26th Jan. 2008 in view of seeking possibility of executing joint venture related with wine industry.
- The following dignitaries also visited the Centre to appraise themselves about the activities of the Centre.
 - Dr. V. M. Mayande, Vice-Chancellor, Dr. PDKV, Akola: 22nd Oct. 2007.
 - A French delegation under ADEPTA led by Mr. Rohit Pandhare: 22nd Oct. 2007.
 - Dr. Bala Deshmukh, Research Leader, The Dow Chemical Company, Midland, MI 48669: 11th Dec. 2007.
 - Dr. B.S. Bisht, Assistant Director General (HRD), ICAR: 12th Dec. 2007.
 - Dr. O. M. Bambawale, Director, NCIPM, New Delhi: 16th Feb. 2008.
 - Mr. Pradeep Lodha, Tanzania Plantations Ltd., Tanzania: 26th Feb. 2008.

Other Activities

Vigilance Week : Vigilance Week was observed from 6-16th Nov. 2007.

Institute Day : The Centre celebrated its 11th Institute Day on 18th Jan. 2008.

Republic Day : The Centre celebrated Republic Day on 26th Jan. with joy and splendour. Dr. P.G. Adsule, Director, hoisted the flag. In his address, he called upon the staff to work towards betterment of the society in general and farming community in particular.

Technical folders and Bulletins

1. Training and pruning in grapes. 2008. Somkuwar R.G. Technical Bulletin No.9.
2. Management of thrips on grapes. Kulkarni N. S., Mani M., Banerjee K. Extension Folder No. 13
3. द्राक्षावरील फुलकिड्यांचे (श्रीप्स) एकात्मिक नियंत्रण Mani M., Kulkarni N. S., Banerjee K. and Adsule P. G. Extension Folder No. 14.
4. Management of Mites on grapes. Kulkarni N. S., Mani M., Banerjee K. Extension Folder No. 15.
5. द्राक्षबागेत लालकोळीचे (माइट्स) नियंत्रण Mani M., Kulkarni N. S., Banerjee K. and Adsule P. G.. Extension Folder No. 16.

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