



Mahatma Phule Krishi Vidyapeeth, Rahuri

National Agricultural Research Project Regional Wheat Rust Research Station, Mahabaleshwar

1.	Year of start	: 1985																																								
2.	Contact Details Postal Address Phone No E mail	: : Regional Wheat Rust Research Station, Mahabaleshwar, Post Box No.15, Pin – 412 806, Dist. Satara : 02168- 271069 : rwrrsm@rediffmail																																								
3.	Objectives/ Mandates	: <ul style="list-style-type: none">● To conduct location specific research for the benefit of farmers with major thrust on Horticulture, Silviculture, Soil and Water Management for Western Ghat Zone of Maharashtra● To monitor and estimate soil erosion in the hilly watersheds of different land● To serve as testing ground for various cultivars and species providing food, fodder and fuel for the region● Collection, evaluation and improvement of different rhizomatous, ornamental, fodder and other economic plants used by tribal farmers																																								
4.	Infrastructure Land (ha) Irrigation facilities Laboratories	: 10.31 : Wells (2) : Nil																																								
5.	Human Resource Technical Staff	: <table><tr><th>SN</th><th>Designation</th><th>Discipline</th><th>Remarks</th></tr><tr><td>1</td><td>Associate Professor</td><td>Plant Pathology</td><td>Filled</td></tr><tr><td>2</td><td>Assistant Professor</td><td>Horticulture</td><td>Filled</td></tr><tr><td>3</td><td>Assistant Professor</td><td>Horticulture</td><td>Vacant</td></tr><tr><td>4</td><td>Assistant Professor</td><td>Silviculture</td><td>Vacant</td></tr><tr><td>5</td><td>Assistant Professor</td><td>Agril. Engg</td><td>Pooled</td></tr><tr><td>6</td><td>Sr. Res. Asstt.</td><td>Plant Pathology</td><td>Filled</td></tr><tr><td>7</td><td>Sr. Res. Asstt.</td><td>Plant Pathology</td><td>vacant</td></tr><tr><td>8</td><td>Jr. Res. Asstt.</td><td>Plant Pathology</td><td>vacant</td></tr><tr><td>9</td><td>Jr. Res. Asstt.</td><td>Plant Pathology</td><td>vacant</td></tr></table>	SN	Designation	Discipline	Remarks	1	Associate Professor	Plant Pathology	Filled	2	Assistant Professor	Horticulture	Filled	3	Assistant Professor	Horticulture	Vacant	4	Assistant Professor	Silviculture	Vacant	5	Assistant Professor	Agril. Engg	Pooled	6	Sr. Res. Asstt.	Plant Pathology	Filled	7	Sr. Res. Asstt.	Plant Pathology	vacant	8	Jr. Res. Asstt.	Plant Pathology	vacant	9	Jr. Res. Asstt.	Plant Pathology	vacant
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Non-Technical Staff:

SN	Designation	No of posts	Remarks
1	Agril. Assistant	5	Filled - 3 Vacant - 2
2	Senior Clerk	1	Vacant
3	Junior Clerk	1	Filled
4	Driver	1	Vacant
5	Counter	1	Vacant
6	Peon	2	Vacant
7	Mazdoor	6	Filled - 4 Vacant - 2
8	Watchman	2	Filled
9	Lab. attendant	1	pooled to College of Agril., Karad Dist. Satara

6. Research Achievements :
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(1) Plant pathology

- Varieties of Soybean (*Glycine max* (L) Merrit received from Breeders were tested against rust (*Phakopsora pachyrrhizi* Sydow) under glass house condition.
- No vertical resistance could be detected in soybean rust. However , the quantification of rust resistance of soybean varieties has been initiated from 2000-2001.
- Oyster (*Pleurotus sajor-caju*) mushroom could be grown throughout the year. However ,button mushroom (*Agaricus bisporus*) could grow only in the monsoon season under the natural conditions of Mahabaleshwar.
- During survey carried out at Panchagani plateau, incidence of late blight of potato, powdery mildew of strawberry and carrot was found to be prominent.

2) Horticulture

Studies undertaken at NARP farm of this research station concluded that the growth of gooseberry, litchi, coffee and rose apple was found satisfactory. Lime and mango were more or less stunted in growth. Cherry could not survive. Growth of tea was found satisfactory.

Silviculture:

The multipurpose tree species viz. silver oak, acrocarpus, casuarina and eucalyptus were recommended for cultivation under Mahabaleshwar conditions. Growth of shikakekai was noticed comparatively better than rubber, pangara and annatto. The essential oil plant viz. citronella and mentha grow better under Mahabaleshwar conditions.

3) Floriculture

The performance of various varieties of gladiolus, carnation and orchids was studied under Mahabaleshwar conditions. Out of seven gladiolus varieties the variety 'Sancere' was found to be

	<p>promising. Twelve exotic and two local orchids could flower under glass house conditions. Among different varieties of aster Selection 4 and Selection-6 produced flowers of good quality.</p> <p>4) Agril. Engineering:</p> <ul style="list-style-type: none"> ● Under the study of runoff and soil loss, in graded ridges, soil loss was reduced by 3.5 times than from plain plot. By increase in level of conserved moisture due to graded ridges, 26 % higher yield of niger was obtained. ● Cent per cent survival of strawberry planting material was noticed under polyhouse conditions during rainy season. ● Due to staggered contour trenching, the silvicultural plants grow faster and satisfactory. ● Under drip irrigation trial for strawberry , drip with 1250 ml of water per plant per irrigation was found significantly superior over drip with 1000,750 and 500 ml. All the treatments with drip irrigation gave higher yield over traditional flood irrigation methods.
<p>7.</p>	<p>Ongoing Research: Plant pathology Strawberry:</p> <ol style="list-style-type: none"> 1. Management of powdery mildew disease of strawberry. 2. Studies on epidemiology of powdery mildew disease of strawberry. 3. Screening of strawberry varieties against naturally 4. Occurring diseases. <p>Carrot:</p> <ol style="list-style-type: none"> 1. Management of powdery mildew disease of carrot. 2. Studies on epidemiology of powdery mildew disease of carrot. 3. Survey of diseases of crops grown in Mahabaleshwar plateau.