



## Mahatma Phule Krishi Vidyapeeth, Rahuri

### AICRP on Dryland Agriculture (Scheme No. 160) Zonal Agricultural Research Station, Solapur

1.	Year of Start	:	1970																												
2.	Contact Details	:																													
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3.	Objectives/Mandates	:	<ul style="list-style-type: none"><li>Optimize use of natural resources.</li><li>Stabilize crop production over years by providing alternate crop production technologies to match the weather aberrations.</li><li>Evolution of dryland technology to optimize the crop production.</li><li>Mechanization of dryland agriculture.</li></ul>																												
4.	Infrastructure	:																													
	Land	:	67.78 ha of which 10 ha area is allotted to NRC for Rabi Sorghum																												
	Irrigation facilities	:	One borewell and one old well for protective irrigation																												
	Laboratories	:	Soil and water testing laboratory Microbiology/Plant Pathology laboratory																												
	Advanced facilities	:	Meteorological observatory (Auto Weather Station)																												
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>Chief Scientist &amp; ADR</td><td>Soil Science &amp; Agril.Chemistry</td><td>Filled</td></tr><tr><td>2</td><td>Sr. Scientist</td><td>Soil Science &amp; Agril.Chemistry</td><td>Filled</td></tr><tr><td>3</td><td>Sr. Scientist</td><td>Agronomy</td><td>Filled</td></tr><tr><td>4</td><td>Sr. Scientist</td><td>Agronomy</td><td>Filled</td></tr><tr><td>5</td><td>Sr. Scientist</td><td>Soil &amp; Water Conservation Engg.</td><td>Filled</td></tr></table>	SN	Designation	Discipline	Remarks	1	Chief Scientist & ADR	Soil Science & Agril.Chemistry	Filled	2	Sr. Scientist	Soil Science & Agril.Chemistry	Filled	3	Sr. Scientist	Agronomy	Filled	4	Sr. Scientist	Agronomy	Filled	5	Sr. Scientist	Soil & Water Conservation Engg.	Filled				
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6.	Research Achievements :
	Varieties : 02
	Recommendations : 38
7.	Ongoing Research :

### Soil Science

1. Permanent manurial trial on *rabi* sorghum : Recycling of crop residue in the soil and its subsequent effect on performance of *rabi* sorghum.
2. Effect of tillage and residue retention for resource conservation in improving soil quality and productivity of black gram-*rabi* sorghum sequence on *Inceptisol*
3. Satellite experiment on effect of integrated nutrient management (INM) in *rabi* sorghum
4. NICRA Project : Studies on foliar sprays to cope with mid season drought for enhancing the productivity of rainfed sunflower.

### Agronomy

1. Studies on production potential and economic feasibility of pigeonpea with different inter cropping system under rainfed condition.
2. Effect of sulphur on linseed cultivars under rainfed condition.
3. Studies on effect of resource constrains on chickpea production technology in scarcity zone of Maharashtra.
4. Rain water management for pigeon pea cultivation under dryland condition
5. Effect of organic manure on growth and yield of Pigeonpea under dryland condition
6. Real time crop contingent planning in medium deep soil under scarcity zone of Maharashtra
7. Crop plaining of *rabi* season in medium deep soil under scarcity zone of Maharashtra
8. Evaluation of sorghum + Cowpea fodder strip cropping systems under dry land conditions in the scarcity zone of Maharashtra
9. Pigeopea based fodder systems for *Kharif* under dry land condition

### Soil & Water Conservation Engg.

1. Catchment storage, command relationship for enhancing water productivity.

### Plant Breeder

1. Collection, Screening and evaluation of Horsegram germplasm
2. Collection, Screening and evaluation of Mothbean germplasm
3. Conduct of preliminary yield trial of Horsegram and mothbean
4. Conduct of station trial of Mothbean
5. Conduct of station trial of horse gram
6. Conduct of Multilocation trial of Mothbean genotypes (Solapur ,Mohol, Pandharpur, Jeur, Chas, Rahuri, Dhule and Borgaon)
7. Conduct of Cowpea Multilocation Trial
8. Nucleus and breeder seed production of H.gram and Mothbean varieties
9. Initial Varietal Trial of Horse gram
10. Advanced Varietal Trial of Horse gram
11. Initial Varietal Trial of Moth bean
12. University Multilocation varietal trial on *Rabi* Sorghum (Deep soil)
13. University Multilocation varietal trial on *Rabi* Sorghum ( Medium soil)
14. University Multilocation varietal trial on *Rabi* Sorghum ( Shallow soil)
15. State Multilocation varietal trial on *Rabi* Sorghum ( Deep soil)
16. Initial Varietal/hybrid trial of *Rabi* Sorghum –shallow soil
17. Initial Varietal/hybrid trial of *Rabi* Sorghum –Deep soil
18. State Multilocation varietal trial on Gram
19. Catchment-storage-commandrelationship for enhancing water productivity