

JUNAGADH AGRICULTURAL UNIVERSITY
RESEARCH RECOMMENDATIONS FOR FARMERS' COMMUNITY

I. CROP IMPROVEMENT

Four recommendations for farmer's community developed by crop improvement discipline are described herein.

Year: 2009-10

1. Suppression of interspersed staminate flowers (ISF) in non-environmental sensitive (NES) pistillate line for hybrid seed production of castor

Castor hybrid seed producers are recommended to apply two spray of ethrel @ 0.05 per cent on pistillate parent (JP-65) at 45 and 65 days after sowing to reduce the number of interspersed staminate flowers (ISF) in racemes of female parent, ultimately to reduce the per cent of selfing in hybrid seed of Castor Hybrid GCH-6 and to derive more profit per hectare from hybrid seed production program.

(Main Pearl millet Research Station, JAU, Jamnagar)

Year: 2018-19

2. Effect of pre-treatment on seed emergence and seedling vigour of coriander

The farmers of South Saurashtra region growing coriander are advised that the bitted seeds of coriander with pre-treatment of GA₃ @ 50 mg/ litre for 12 hrs or NaCl 2 g/ litre for 12 hrs or the bitted seeds tied in wet coarse cloth (*Pacchedi*) for 12 hrs gives early emergence with good germination percentage and seedling vigour.

(Dept. of Genetics & Plant Breeding, CoA, JAU, Junagadh)

Year: 2019-20

3. Effect of micronutrient application on seed yield and quality of coriander (*Coriandrum sativum* L.)

The farmers of South Saurashtra Agro-climatic Zone associated with seed production of coriander are advised to apply FeSO₄ @ 25 kg/ha as soil application at the time of sowing or foliar application of FeSO₄ @ 0.5 % (75 g/15 litre) + 0.1 % Citric Acid (15 g/15 litre) at 30 & 45 DAS in addition to recommended dose of fertilizer (20:10:0 NPK kg/ha) to obtain higher seed yield with high germination and seedling vigour.



4. Study the fresh seed dormancy in sesame

Sesame growing farmers of Saurashtra region are advised that freshly harvested seeds of white seeded sesame varieties GT-2, GT-3, TKG 22, Pragati and GT-5 produced in the previous season, could not be utilized for sowing, as seed dormancy was found in these varieties and it was released after 115, 115, 95, 105 and 105 days after harvesting, respectively. However, black seeded variety GT 10 could be utilized for sowing in the next season, as it released the dormancy of 35 days after harvesting (DAH).



(Dept. of Seed Science & Tech., CoA, JAU, Junagadh)