

Name of the project	Field evaluation of herbicide AP03 (5.1% EC) on weeds flora wheat along with succeeding crop
Funding agency	Natco Pharma Limited, Dehradun
Year of start	2018-19
Year of completion	2018-19
Name of PI and Co-PI	Dr.Vivek Yadav,Dr. D.N. Mishra and Dr Mukesh Kumar
Total budget	05.13 lakhs

Significant achievements:

- Increase in grain yield with AP03 @45 gai/ha was 9.26, 6.92, 6.43 and 37.80 percent higher than Pinoxaden 5.1 EC@ 40 gai/ha, Pinoxaden 5.1 EC @ 45 gai/ha, Clodinafop15 WP @ 60 gai/ha and untreated control respectively.
- Lowest population (3.87/m²) and dry weight (2.51g/m²) of *Phalaris minor* was also found with AP03 @45 gai/ha and weed control efficiency (72.63%).
- During the study period, none of the tested doses of the test chemical AP03 indicated any phyto-toxicity symptoms viz. yellowing, stunting, hyponasty, epinasty, vein clearing etc. even at the highest dose of AP03 @90g ai/ha (1800 ml/ha formulation dose) on wheat.



Experimental Field

Recommendation:

- A dose of AP03 @45 g ai/ha is recommended for the effective control of *Phalaris minor* (canary grass) and *Avena ludoviciana* (Wild oat).