CONTENTS

Integrated Weed Management in India–Revisited

A. N. Rao and A. Nagamani

Impact of Aryloxyphenoxypropionate Herbicides on Phalaris minor in Haryana

Rupa S. Dhawan, P. Bhasker, S. Chawla, S. S. Punia, Samunder Singh and R. Angrish

Interaction of Stage of Application and Herbicides on Some Phalaris minor Populations

Samunder Singh, Ashok Yadav, S. S. Punia, R. S. Malik and R. S. Balyan

Performance of Carfentrazone-ethyl 20% + Sulfosulfuron 25% WDG – A Formulated Herbicide for Total Weed Control in Wheat

U. S. Walia, Tarundeep Kaur, Shelly Nayyar and Kulbir Singh

Quality Wheat Seed Production through Integrated Weed Management

A. C. Pradhan and Prabir Chakraborti

Rice Residue Position and Load in Conjunction with Weed Control Treatments-Interference with Growth and Development of Phalaris minor Retz. and Wheat (Triticum aestivum L.)

Amandeep Singh Brar and U. S. Walia

Efficacy of Azimsulfuron Applied Alone and Tank Mixed with Metsulfuron+Chlorimuron (Almix) in Dry Direct Seeded Rice

Ravi G. Singh, Samar Singh, Vijay Singh and Raj K. Gupta

Seedbed Manipulations for Weed Management in Wet Seeded Rice

P. V. Sindhu, C. George Thomas and C. T. Abraham

Growth and Yield of Aerobic Rice as Influenced by Integrated Weed Management Practices

C. M. Sunil, B. G. Shekara, K. N. Kalyanamurthy and B. C. Shankaralingappa

Effect of Cultural Manipulation and Weed Management Practices on Weed Dynamics and Performance of Sweet Corn (Zea mays L.)

N. Sunitha, P. Maheshwara Reddy and Malleswari Sadhineni

Chemical Control of Cyperus rotundus in Maize

Surjit Singh, U. S. Walia, Rupinder Kaur and Lovreet Singh Shergill

Evaluation of Tank-mix Combinations of Different Herbicides for Control of Phalaris minor in Wheat

Dharam Bir Yadav, S. S. Punia, Ashok Yadav and R. S. Balyan

Efficacy of Various Herbicides and Determination of their Persistence through Bioassay Technique for Garlic (Allium sativum)

B. B. Ramani and V. D. Khanpara
Factors Affecting Seed Germination of *Convolvulus arvensis* and *Lathyrus aphaca*

— Archana Kumari, Kuldeep Singh, Anil Yadav and Samunder Singh

Effect of Planting Pattern and Weed Management on Weed Flora and Yield of *Rabi* Sunflower

— V. Sumathi, D. Subramanyam, D. S. Koteswara Rao and D. S. Reddy

Effect of Herbicides on Soil Microorganisms

— P. C. Latha and H. Gopal

**SHORT COMMUNICATIONS**

Effect of Rice Herbicides on $\beta$-glucosidase, Protease and Alkaline Phosphatase Activity in Soil

— P. C. Latha and H. Gopal

Growth and Yield of Transplanted Rice (*Oryza sativa*) as Influenced by Sequential Application of Herbicides

— Y. Deepthi Kiran, D. Subramanyam and V. Sumathi

Performance of Pre- and Post-emergence Herbicides on Weed Flora and Yield of Transplanted Rice (*Oryza sativa*)

— Y. Deepthi Kiran and D. Subramanyam

Effect of Weed Management and Sulphur Nutrition on Productivity of Soybean [*Glycine max* (L.) Merrill]

— S. C. Dhaker, S. L. Mundra and V. Nepalia

Weed Management in Groundnut (*Arachis hypogaea* L.) under Varying Crop Geometry

— P. C. Chandolia, R. C. Dadheech, N. S. Solanki and S. L. Mundra

Influence of Integrated Weed Management Practices on Weed Dynamics and Yield of Baby Corn in Southern Agro-climatic Zone of Andhra Pradesh

— K. Mahadevaiah, G. Karuna Sagar and V. Sumathi

Effect of Row Spacing and Weed Management Practices on Weeds, Growth and Yield of Pigeonpea (*Cajanus cajan* (L.) Millsp.)

— Guriqbal Singh, Navneet Aggarwal and Hari Ram

Studies on the Germination and Viability of *Parthenium hysterophorus* L. in its Compost

— B. R. Maurya and P. K. Sharma

Chemical Control of Water Hyacinth (*Eichhornia crassipes*) in Natural Water Bodies

— Dharam Bir Yadav and Ashok Yadav

---

**Cover Photos**

Top Left: Chlorotoluron 2.0, 1.5 and 1.0 kg/ha (L-R) and isoproturon 2.0, 1.5 and 1.0 kg/ha, respectively, on K-15 population of *Phalaris minor* when applied at the 4 leaf stage (bottom pots) and tillering stage (top rows), 10 DAT. Top Right: Uncontrolled *P. minor* at farmer’s field under wheat-rice rotation areas in Karnal, Haryana. Bottom Left: Clodinafop-propargyl resistant population of *P. minor* at farmer’s field in Kaithal district, and Bottom Right: Weed free wheat under sequential application of herbicides at farmer’s field in Kurukshetra district of Haryana, India. For more information, read articles on pages 136-143, 144-154, 155-158 and 193-197. All photos courtesy Dr. Samunder Singh, Department of Agronomy, CCS Haryana Agricultural University, Hisar-125 004, India.