



RTM-1355 (JWALA TARA): A NEW TARAMIRA VARIETY FOR RAINFED AREAS OF INDIA

M. L. Jakhar, Manohar Ram*, Priyanka Kumawat, D. K. Gothwal and B. L. Kumhar

S.K.N. College of Agriculture, Sri Karan Narendra Agriculture University, Jobner, Rajasthan 303 329, India.

*Corresponding Author: Dr. Manohar Ram

S.K.N. College of Agriculture, Sri Karan Narendra Agriculture University, Jobner, Rajasthan 303 329, India.

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ABSTRACT

A new taramira variety RTM-1355 (Jwala Tara) is released and notified for rainfed areas of states of Rajasthan, Haryana, Punjab, UP, MP, Gujarat, Delhi, Uttarakhand, and Maharashtra. The variety has been released owing to its superior performance in terms of yield, seed size, maturity duration, high oil content and resistance to aphids, various diseases and tolerance to moisture stress. It can be hoped that RTM-1355 (Jwala Tara) will be a boon to raise the production and productivity of taramira in rainfed areas of India specially for Rajasthan.

KEYWORDS: Rainfed, Taramira, Variety, Yield.

INTRODUCTION

Taramira (*Eruca sativa* Mill.) is an oilseed belongs to rapeseed group. It is believed to be native of South Europe and North Africa. In India, the chief taramira growing states are Rajasthan, Haryana, Punjab, Madhya Pradesh and Uttar Pradesh. Among these states, the area and production of Taramira in the country is highest in Rajasthan. It is mainly grown on marginal and sub marginal lands with poor fertility. Being a highly drought tolerant crop, it can be successfully grown as a rainfed crop even on soils with moderate water retaining capacity. Taramira oil is mainly used in industries. However, the crop has limited improved varieties adapted to wide agroclimatic conditions. This situation demands urgent development of a versatile variety for taramira growing area. Keeping in view the breeding objectives of high yield, high oil content, early maturity and disease resistance, an elite taramira genotype was developed at SKN College of Agriculture, Jobner and tested in station trials.

On the basis of its superior performance in station trials, RTM-1355 was proposed for All India Coordinated Testing trials in Zone II, III and IV of India (Rajasthan, Haryana, Punjab, UP, MP, Gujarat, Delhi, Uttarakhand, and Maharashtra) from 2011-12 to 2013-14. It has given 23.7, 27.8 and 23.3 per cent higher seed yield over RTM-314, RTM-2002 and T-27, respectively in 17 environments across the zone II, III and IV of India. RTM-1355 has shown 22.6, 25.3 and 22.6 per cent increase in oil yield over RTM-314, RTM-2002 and T-27, respectively in 17 environments across the zone II, III and IV of India.

Besides yield, the variety also showed resistant against the major diseases of taramira viz., alternaria blight, white rust, downy mildew and powdery mildew. It is comparatively less attacked by aphids. It has medium maturity duration, highly responsive to fertilizers and suitable for timely sowing under rainfed conditions.

The salient features of variety RTM-1355 (Jwala Tara) are as under.

| S.No. | Descriptors | Detail |
|-------|-------------------------------|--|
| 1. | Plant height | 100-127cm with a mean of 118 cm |
| 2. | Morphological characteristics | Plant medium tall with profuse branching Stem: cylindrical, dark green, non pigmented at the base Leaf: lyrate pinnatipartite, glabrous on upper epidermis and slightly pubescent on lower epidermis. Flower: Calyx-greenish yellow, corolla creamish yellow and non hairy Siliqua: Cylindrical two valved with flat apical beak non pubescent |
| 3. | Days to maturity | 133-145 days with a mean of 139 days |

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|-----|-------------------------|---|
| 4. | Maturity group | Medium |
| 5. | Seed colour | Yellowish brown |
| 6. | Seed size | Medium |
| 7. | Flower colour | Yellow with light red stripe |
| 8. | Test weight | 3.80 g |
| 9. | Oil content | 38.90 % |
| 10. | Yield potential | 12-16 q/ha |
| 11. | Response to diseases | Moderately resistant to white rust, resistant to staghead and downy and powdery mildew. |
| 12. | Response to insect-pest | Comparatively less attacked by aphids |



Fig: Variety RTM-1355 (Jwala Tara).

The variety was released owing to its superior performance in terms of yield, maturity duration, oil content and disease-pest resistance for the states of Rajasthan, Haryana, Punjab, UP, MP, Gujarat, Delhi, Uttarakhand, and Maharashtra. It has been identified in the 21st Annual Group Meeting of Rapeseed & Mustard for taramira growing regions of country. It has been notified during the meeting of Central Crop Variety Release Sub Committee with notification no. of 2805(E), 25.8.17. The variety is presently under seed production at university farms and farmers' fields. It is gaining wide popularity among the taramira growers of country.

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