

CONTROL OF *SCLEROTINIA SCLEROTIORUM* (LIB.) de BARY IN INDIAN MUSTARD WITH FUNGICIDES

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Abstract: Among various fungicides used, benomyl and carbendazim proved to be most effective fungicide for seed treatment, spray alone as well as in combination to control *sclerotinia- rot* of Indian mustard (*Brassica juncea*(L.) (zern and Coss). Seed treatment at sowing time with benomyl (0.2 per cent) followed by spraying at first budding or flowering stage with same dose of fungicide provide best clue for recommendation at farmer's field.

Key words: Indian mustard, *Sclerotinia-rot*, Fungicides, Screening, Spray.

REFERENCES

- Anonymous.** (1999-2000). National Research Centre on Rapeseed and Mustard, Annual Report, 1999-2000, NRCRM, Sewar, Bharatpur- 321-303 (Rajasthan).
- Anonymous.** (2002-03). Economics Survey 2002-2003. Government of India, Ministry of Finance and Company Affairs. Economic Division, New Delhi, pp. 158.
- Dueck, J.; Morrall, R.A.A. and Mc Kenzie, D.L.** (1983). Control of *S. sclerotiorum* in rapeseed with fungicides. *Can J. Pl. Path.*, **5**: 289-93.
- Framingham, E.E. and Axni, D.M.** (1984). Fungicide control of *S. sclerotiorum* on cucumber. *Tests of Agrochemical and cultivars* No. **5**: 56-57.
- Hawthorne, B.T. and Jarvis, W.R.** (1973). Differential activity of fungicides on various stage in the lifecycle of *Sclerotinia* sp. *N.Z. Journal of Agric Research*, **16**; 551-557.
- Kruger, W.** (1973). Control measures for *S. sclerotiorum* in rape. *Phytopath Z.*, **77**: 125-137.
- Karahan, O.; Basis M.; Kocaturk, S. and Maden, S.** (1978). Studies on the course and time of infection by *S. sclerotiorum* on cabbage under natural conditions and its control. *Ziral Muscadele Arastirma Yilligi*, **12**: 116-118.
- Kang, I.S. and Chahal, S.S.** (2000). Prevalence and incidence of White rot of rapeseed and mustard incited by *Sclerotinia sclerotiorum* in Punjab. *Plant Dis. Res.*, **15**: 232- 233.
- Mehta, P.R.; Singh, B. and Bose, S.K.** (1946). Some new host of *Sclerotinia sclerotiorum* (Lib.) De Bary. *Curr. Sci.*, **15**: 171-172.
- Manegaz, J.; Hurit, H. and Meredith, O.S.** (1980). Controlling fungus in Brazilian fields. *Tabacco International*, **77**: 3.
- Morrall, R.A.A.; Verma, P.R. and Dueck, J.** (1985). Recent progress in Chemical control of *S. sclerotiorum* in Western Canada. Mededialingen Van de Faculikit Landbauw-wetenschappen Rijk suniversiteit Gen. **50**: 1189-1194.
- Purdy, L.H.** (1979). *Sclerotinia sclerotiorum*. History, Disease, symptomatology, Host range, Geographic Distribution and Impact, *Phytopath*, **69**(8): 875-880.
- Roy, A.K. and Saikia, U.N.** (1976). White blight of mustard in Jorhat, Assam. *Indian J. Agric. Sci. Bull.*, 309-319.
- Reilly, C.C. and Lamoureux, G.L.** (1981). The effects of fungicides , Iprodione , on the mycelium of *S. sclerotiorum*. *Phytopath*, **71**: 722-727.
- Saxena, V.C. and Rai, J.N.** (1987). Survey of occurrence of White rot of crucifers caused by *S. sclerotiorum* in U.P. and Bihar. *Indian J. Mycol. Pl. Pathol*, **17**: 89-91.

- Sharma, R.C. and Sharma, S.L.** (1984). Evaluation and economics of fungicidal spray against sclerotinia rot of cauliflower seed crop. *Seed Research*, **12**: 95-97.
- Singh, N. and Gangopadhyay, S.** (1984). Control of white rot seed cauliflower. *Pesticides*, **18**: 23-24.
- Singh, H.N. and Saha, L.R.** (1989) Evaluation of some fungicides against *S. sclerotiorum*, the incident of wilt and rot of Khol- Khol. *Pesticides*, **23**: 44-45.
- Thomson, J.R.; Thomas, P.M. and Evans, T.R.** (1984). Efficacy of aerial application of benomyl. *Can J. Pl. Patho.*, **6**(1): 75-77.
- Yarden, O.; Ben-Yephet, Y.; Katan, J. and Anaronson, N.** (1986). Fungicidal control of *S. sclerotiorum* in soil with a combination of benomyl and hiram. *Plant Disease*, **70**: 738-742.
- Zizzerini, A. and Tosi, L.** (1985). *Sclerotinia sclerotiorum* : A New Parasite of rape (*B. napus* sub *sp. oleifera* D.C.) in Italy Informatore. *Fitopath.*, **35**: 31.