RESEARCH NOTE-II

ASSESSMENT OF DAMAGE TO SILVER FIR SEED CAUSED BY CONE-BORER, DIORYCTRIA ABIETELLA SCHIFF

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Cone-borer, Dioryctria abietella Schiff, which has been reported on Pinus geradiana from Baluchistan (Chaudhry 1960) and Pinus roxburghii, P. wallichiana, Cedrus deodara and Abies pindrow from Swat (Chaudhry et al 1966) is infesting cones of Silver fir (Abies pindrow) in six localities of Hazara (NWFP). It destroys the seed out rightly or damages to the extent that the viability is undermined.

To assess seed infestation cones of Silver fir, Abies pindrow were collected from 15 randomised sample trees each from six localities-Allai, Dungagali, Hillan, Kuzagali, Shogran and Thandiani during 1980. Seeds were extracted from the cones and 5 random samples of the seed were taken from the seed lot of each tree of each locality. The number of seeds in the samples varied from 1748 to 2984.

PERCENT FIR SEED INFESTATION BY D. ABIETELLA

Locality	Seed infestation samples					Average
Willia orb bodins	i Porest Officer, as afternoon.	2	3	4 4 00	5	mino uvidadus
Kuzagali	1.9	2.0	1.5	1.4	2.0	1.8*
Allai	2.0	1.9	2.3	1.9	2.0	2.0*
Thandiani	2.8	2.2	2.7	2.7	2.9	2.7*
Dungagali	3.6	2.9	2.5	3.0	3.9	3.2*
Hillan	3.5	3.3	4.0	3.0	4.1	3.6*
Shogran	5.3	5.7	6.0	4.9	5.0	5.4*

^{*} Based on the results of 15 x 5 samples.

The extent of seed infestation in good seed years, which may be expected about once in every 3.4 years, is insignificant but it may be of economic importance during lean seed-years. Therefore check of seed infestation cuased by *Dioryctria abietella* is essential during the lean seed-years.

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