Tentative Program for Study of Aerial DDT Treatment of Santa Fe and Carson National Forests

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Sampling Areas - either of the following for intensive study

1. Pecos River - one station each on the Pecos and Mora just above the confluence of the two streams. An additional station located a few miles downstream, possibly at the fish hatchery.

2. Rio Pueblo - one station each on the Rio Pueblo and the Rio La Junta just above the confluence of the two. An additional station located downstream near the mouth of the Santa Barbara.

Determination of acute or direct effects on fish and aquatic invertebrates

1. Aquatic invertebrates

   (a) Five minute drift samples before the spray, immediately after, and at .5, 1, 2, 6, 24, and 48 hours after the spray at the upper two stations only.

   (b) Surber bottom samples - sampling schedule to be selected by New Mexico Game and Fish Department.

2. (a) Expose approximately 20 rainbow trout (6") in live-cars located at each station, and record effects over a four-day period.

   (b) Electro-fishing as index to population trends. Sampling schedule to be selected by New Mexico Game and Fish Department.

Determination of indirect effects as indicated by residues

1. Water - to be collected at the times indicated for drift samples, at the upper two stations. At the lower station, take samples at 1, 2, 6, 24, and 48 hours.

2. Aquatic invertebrates - to be collected at the times indicated for drift samples and at the upper two stations only. Both the Surber and drift sampling methods will have to be used. It is probable that adequate numbers for residue analysis cannot be collected in all instances.

3. Fish

   (a) Excluding the occurrence of severe mortality, two fish from live-cars at each station to be collected at 6, 24, 48, and 96 hours after the spray.