

of animal and even then one can not be positive. Areas away from ^{human} habitation are always easier to survey than areas associated with roaming cats & dogs. Even squirrels and rabbit tracks can be confused and it is necessary to check them out, which requires time. Birds can be checked with some difficulty, especially numbers. In large flocks one must estimate the numbers and in larger groups the error can be plus or minus 15-20 per cent. A second problem is the fact that juncos, tree sparrows & cardinals, as well as other kinds of birds, move down river. Within one flock one can, however, get a good estimate of numbers. The condition of the land surface is snow on all slopes of valley and river channel. Ice on river 98%, snow on ice. More snow on E & N exposures. Although many animal tracks in this area only 4 species noted. At first main right-hand turn (1:05) with major drainage from left observed the first large flock of birds. They were associated with the lateral drainage and consisted of 18 juncos, 1 flicker, 3 titmice, 1 red-bellied, 3 blackcapped chickadees, 2 red-tail hawks, (one called as it left). A set of coyote tracks entered main canyon from lateral drainage. There is considerably more activity of coyote & fox, squirrel & rabbit at this point, with tracks indicating hunting or interest in the rabbit & squirrels. Numbers of squirrel, rabbit, coyote & fox tracks will not be recorded because of difficulty of appraisal. A summary will be given at end of trip.

1:10 flock of 18 juncos, 3 black capped chickadees, 6 cardinal, 3 titmice, downy, red-bellied woodpecker. 1:12 spring drainage from right and snow excluded in immediate area of spring. Increase activity of coyote, rabbit & one *Peromyscus* track or tunnel in snow of river bed. The spring is definitely contributing to increase animal numbers. 1:20 bridge over wash. 40 English Sparrows at farm house. 1:22 about 300' down river from farm house a group of 6 cardinals, 5 chickadees, 4 titmice, 1 downy, 28 juncos, 2 Carolina wrens, 2 song sparrows, 8 Harris sparrows. There are fewer tracks of coyote, fox or dog below bridge than above bridge where river is associated with side of valley & deciduous forests.

1:28 group of 70 tree sparrows, 18 juncos, 7 cardinals, 4 titmice 3 blackcapped chickadees. This group followed along in front of us for 1/10 mile. 1:48 8 juncos, 1 redbellied woodpecker in group. 3 crows to N. 1:50 4 juncos, 5 blackcapped chickadees, 1 redbellied woodpecker, 18 tree sparrows in group. The second