

in the reservoir. The increment may be result of mallards forced to leave the smaller ponds and bodies of water in the surrounding area of Jefferson-Shawnee and Douglas Counties, ^{because of the freeze-ups.} will keep check of movement of mallards etc until twilight.

2:41 Since 2:21 there has been a movement of mallards from the aggregate ^{to} a direction to the SSW; at first only a few mallards at a time but by 2:41 groups were leaving on the basis of 2 to 4 thousand at a time. although smaller groups were the usual size. As a group would leave, they would not represent a localized group within the aggregate but would constitute a few birds on a general regional basis. By

~~_____~~ this system a linear line is formed instantaneously and by a gradual increment, a long continuous line

is formed rather than a mass of unorganized birds that might be put in jeopardy because of lack of space for maneuvering. 2:48 mallards leaving raft at a continuous flow involving thousands.

Long lines of 15-20 abreast are passing to the S.W. Only a few ducks are arriving and these from the SW. 2:53 bald eagle flying over Gap Point. 3:00 the whole sky was a mass of mallards as they dropped down to the open water and increased the aggregate $\frac{1}{2}$ times the number already at pond area.

no gulls associated with the mallards at this time. The open water produces an interesting pattern of blue water, surrounded by dark mass of ducks which is surrounded by the light of ice & snow. 3:07 incoming ducks and aggregate momentarily stabilized.

From 3:10 to 3:16 there has been a continuous departure of ducks. These ducks are flying SW and then W.

One group of horned larks (60) flew up over dam and at a point just beyond dam at contact with ice of reservoir, turn both to the right & left and alighting on rocks and edge of ice. There is always confusion as small birds fly over dam and come in contact with the broad expanse of ice and snow.

all but 13 mallards have left small open water just N of outlet and those that have left have flown to the larger open water. 3:21 all mallards have left first pond leaving 12 am seat.

3:22 ducks are now arriving by the thousands and believe them to be the same group as left only a short while ago. Of these ducks only 3 alighted in small pond.

In large pond the ducks now represent approx. $\frac{2}{3}$ of the original flock first observed at 2:15 P.M. 3:30 marsh hawk