

It is interesting how these ^{species} fluctuate 681013-149
another according to kind of crop on the uplands.
at mouth of Wakarusa continued up stream to bridge N of
Eudora. One of the first things noticed in Wakarusa was
the presence of leaves on the water. Also that the hillsides
beyond the riparian growth are in red & yellow color in
contrast to the greens of the riverside. There was one ex-
ception to the greens of the riverside in one maple tree that
had slipped into the river and the root system was in
contact with water. This tree was in beautiful red and
yellow at what I would consider the maximum color
brilliance. The answer to this abnormality could be
that the colder water supporting the tree caused the color
change and that earth temperatures rather than air temp-
eratures cause leaves to change color. Arrived bridge N
of Eudora at 5:00 P.M. Pulled canoe to field above and
a large 3 inch Rana pipiens had been a stow-away and
when released (100' from edge of field), moving directly
to water. It would be interesting to take large numbers
of frogs and release them one at a time to determine
whether there is a homing instinct for water.

1620 Tennessee, Lawrence, Douglas Co., Kansas

Oct. 14, 1968

Chimney swifts still present in area and inhabiting chimney
not used on previous or usual sites.

Oct. 16, 1968

Strong winds from S all day and temp. warm. Produced some
drying of leaves. Chimney swifts in area [last day ^{swifts} observed at
this season in the area].

Oct 17, 1968

Strong winds from N and coldest day we have had this season.
Did not see chimney swifts this P.M.

Oct 18, 1968

Day clear and slight wind but cool. The leaves of conifers
on the 15th of October were approx. 30% dry & dead and generally
mixed among the green leaves. This applied to white pine, Scots
pine and ponderosa pine. After the two days of hard winds
(Oct 16 & 17) these dry leaves (90% of them) were blown from
tree and onto ground below. The ground before the wind was
relatively free of these leaves but after the winds the ground
was covered with a blanket of these leaves. ^{Some of the} The maples
and some oaks have reached their maximum color and
as a result of winds, are losing the brilliant intensity of their