

Dec 7, 1963.

Left 9:41 A.M. at Bowersock Bridge. Sky overcast, some clouds distinct, sun hazy. Temp water, 42°F temp air in shade 44°F. Wind from SW. A cold front is to pass thru about noon. 10:18 major creek from S. 2 bulldeer, 1 crow, blue jay and usual birds along bank. Juncos (slate colored) main bird along bank between water & top of bank. One crow at water level. 10:43 Capsize Point. 13 crows & 1 marsh hawk. The hawk was maintaining flying position around tree and crows were ⁱⁿ singles chasing the hawk. 5 small flock 80-100 birds (starling) flying w along river with destination in mind. 10:56 Red breasted merganser. Mouth mud Creek from Nat 11:00 A.M. Water of river about 8 inches lower than last

trip. Sand bars more numerous but not like it is usual for this time of year. The last three weeks have exposed a considerable amount of the river bed, perhaps about 15 percent overall, some areas of river bed 90 yards. Have been paddling cones regularly (2). Beaver activity now general and tree cutting accentuated.

Wind now from the NW. ^{Temp 48°F in shade, water 42°F 3 inches deep} 11:13 1 redtail, 4 crows, 1 osceola in trap along river. were in roots of trees. Flock 60 redwings. 11:45 bend of river that leads to Eudora. at point where river runs along R.R. and at mouth of creek from N. 12:00 1 gull sp?, 2 kingfishers. 12:10 Eudora Bridge, 12:22 Mouth Wabamun. we have been paddling ^{strong} wind from the N.W. 1:12 N end next curve, now to E. 2 redtails 1:25 under utility lines that cross river. Leaves of oak blowing out into river from hill to N. on N side wind comes from S from trees on other side of river & perhaps down draft. 1:43 marsh hawk. Temp 42°F and

seems to be getting colder. Wind still from NW & strong enough for white caps.

2:10 major creek from S. 2 redtails 1 marsh hawk 2:13 arch bridge of R.R. tracks.

2:25 4 ^{golden eye ducks} ~~merganser~~. 2:55 Mouth Stronger Creek. Waves develop according to depth of water. Kingfisher, red tail. Redtail are sailing high today. utilizing wind. Sand has been blowing along edge of river and on

sand bars, mainly when gusts of wind blow. ^(6 1/2 hr trip) 3:10 2 redtails. Temp at 3:30 P.M. 43°F. Arrived De Soto 4:15. Wind carried us along entire strip

blowing sands on bars. Kingfisher. Temp at arrival 39°F. Time on river today 6 1/2 hours. We paddled consistently all the way and used the wind. Usual time is about 8 1/2 hours. We have noticed that ducks usually rest on bank on windward side of river, perhaps

to take advantage of the wind on take-off. It is also our opinion that ducks arrive from the north at definite times but are soon killed by hunters along the river. In comparison with earlier trips down the river, there ~~was~~ very little activity of fish. The best winds are from the northwest and under such direction it is possible to choose favorable side of river. Any other direction of the wind presents problems. The most damaging winds are from the NW of the type of storms that have gusts of wind that accompamp the storm or wind. There are definite wind channels along the river which are produced by open field beyond. Hills and high trees protect the river from wave action and favorable