## LARGEST COTTONWOOD IN SASKATCHEWAN?

JIM A. WEDGWOOD, 610 Leslie Avenue, Saskatoon, Saskatchewan. S7H 2

Several years ago, my wife Shirley and I came upon a large cottonwood tree in the valley of the North Saskatchewan River near Petrofka. By no means were we the first to notice the big tree, for there was a path through the bush to it and the surrounding ground was trampled bare. Obviously, impressed by the tree's girth, many people before us had walked around and posed beside it.

Situated 5 1/2 miles south and 6 1/2 miles east of the junction of Highways #12 and #40 at Blaine Lake, the tree is on the valley bottom about 220 yards from the west shore and 25 yards north of the old Laird ferry crossing trail, legal description SW31-43-5-W3, on Crown land leased to Sam Popoff.

In 1985 I led a group of senior citizens to the site, where enthusiasm upon seeing the massive trunk brought comments: write it up in *Blue Jay* — challenge others to report any larger cottonwood in the province — Saskatchewan should formally recognize distinctive trees. This note addresses these matters.

During that field trip, Paul Coutu approximated the circumference as 15 ft. 6 in. A later measure of girth was 16 ft. 1 in. at the standard height of 4.5 ft., yielding a diameter at breast height (dbh) of 5 ft. 1 in. The bark was about 4 in. thick. Equally impressive is the Popoff tree's spread. From Jerry Horbay's photographs made for proportioning purposes, the span was fixed at 104 ft. 6 in. and the height at 68 ft. 8 in. Form is that of a mature plains cottonwood: massive

140

trunk, wide-spreading branches, rdest height, a shape broad and flat tage.1

This tree could not have inspired Jobs Kilmer to create his memorable por "Trees." Unsymmetrical it is, branches longer on one side than another, and sagging to the ground then turning poseveral branches bending grotesquy the upper trunk misshapen. Beau is has none; character it has in plenty

The tree is a cross between the p cottonwood (Populus deltoides Mil var. occidentalis Ryds) and the blace balsam poplar (P. balsamifera L.) is identified by Stan Rowe, and this the common cross is a named hybrid jackii. In the stand, which exten short distance along the trail as we along the riverbank, there are p cottonwoods, balsam poplars and d hybrid cottonwoods. In addition to i tifying P. jackii, Vernon Harms not back-cross between hybrid cottony and balsam poplar. Up-and downstr from the site are other riparian stand large trees, none of which, howe approaches the Popoff tree in size.

The stand's understory is mainly osier dogwood, a sign of good mois conditions, the cottonwood's requ with highbush cranberry and rose. No of the valley bottom is cultivated.

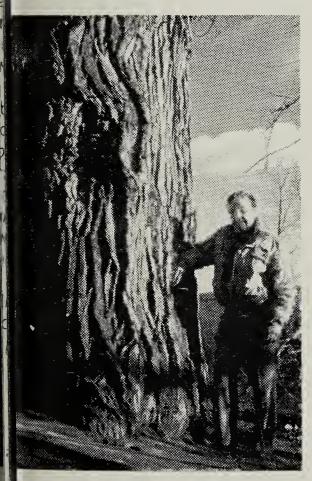
The big tree is probably 150 youngle, maybe 100 years, in Stan's jument. Some plains cottonwoods in area are 80 to 100 years of age.

inally the tree was on the west side n island. When initiated in 1909, the r crossing was a two-ferry operation, first ferry running between the river's t bank and the island and the second veen island and east bank. In 1941 m — the grade of the present trail built across the west channel, that nnel becoming cultivated land. The closed in 1961. When heavy spring ds occur, as in 1987, water overruns area, including the site, as debris er marks attest. Sam Popoff notices fference in his crops and believes e is natural fertilizing akin to the bric flooding of the Nile. All these graphic features were evident when pointed them out.

he soil on the site, according to Gary per, who examined our sample, is a , fine-textured, typical loam. Given quate moisture conditions, it would good growing soil, as it drains well. These historic and current conditions suggest that the growing environment was excellent in the tree's initial period of life, and it was still good later, although not as beneficial as formerly.

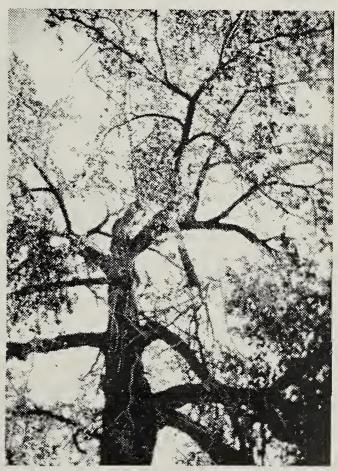
Considerable is known about events at the tree itself. The large depression to the north is an old borrow pit, soil being taken from here to build the trail grade across the old channel. Excavation to within 15 ft. of the trunk likely damaged roots. The ferryman's house once stood about 30 ft. to the south of the tree, its site still detectable. These two events suggest reasons for the paucity of branches on the two sides. To add insult to injury, the ferryman shot a bear out of the tree in 1937.

A small hole in the trunk was of special interest. Recently Sam removed from it a spout installed many years ago to gather sap in springtime.



n Popoff at tree

Dieter Martin



Trunk and branches

Jerry Horbay

At first glance from the trail, the tree appeared healthy, but it may be within 20 to 30 years of the end of its life. Close examination revealed poor condition. Many tips of upper branches are dead, possibly an effect of the drought of the 1980s. Several branches lie scattered around the tree, portions of some limbs are dead and bare of bark, a major limb high on the tree is split and the top of the trunk has been broken off. Decay was noticed by Dieter Martin at several places along the trunk.

The tree appears to have been spared brush fires, though one came close in 1989. Two attempts have obviously been made to start fires at the base (vandalism?), fortunately without success. (Several large charred snags scattered about are from land clearing on the opposite side of the trail.)

To me, two questions about this tree have always been: why so big and why just one? The factors discussed above go only part way toward providing answers.

A third question is: how did the tree escape the axe in the early 1900s? The opening of the ferry at that time provided access to the site. Incoming settlers on both sides of the river in those years, but especially on the west side — a Doukhobor village was abuilding only a mile away — would have placed heavy demands on trees for a variety of purposes. My hypothesis is that the Popoff tree was its own protector. At some 70 years of age, destined to be large, and favoured by excellent growing conditions, it was already big — the placement of the ferryman's house hints of that too big for the cutting, transport and milling capacity available to remote settlers.

In 1984 the Saskatchewan Forestry Association launched a project to identify notable trees and the next year published its first edition of "Saskatche n Trees of Renown." Candidate the were those "that have gained printed for some reason." Listed in esection on trees of record diameter estwo specimens — the larger one is esection on trees of record diameter estwo specimens — the larger one is especimens — the larger one is especimens. In the location descripes the Laird ferry is incorrectly named D deferry. The diameter reported for estrunk is practically the same as the Possible for trunk is practically the same as the Possible for the same popular. Included in the entry is equalification that the Committee has proved the record.

The Association contemplates oduction of a second edition of skatchewan Trees of Renown." It is und to continue its Trees of Renown orgram, giving it a higher profile and generating the stature of recognition. The meritorious program needs more publicative.

Some American states have te formal recognition procedures for itstanding trees. For instance, the leg ature may designate a notable tree a state tree and an appropriate fence id monument may be erected. In certa urisdictions in West Germany, once a 3e surpasses a certain size, it enters le public domain in a sense and, the sh privately owned, may not be cut ( vn without approval. We may not be redy for or even want these processes, by ve do need, and I believe we are read or, the next level of recognition and programvation above those in the Associati's program.

The Saskatchewan Natural Hipry Society should actively cooperate ith the Association in respect to this ogram, which is but one of many faction a conservation ethic.

Sam Popoff was a gold mine of mation on the natural and human h ory of the Popoff tree and its environs dis family roots on the farm go back to 05

nd he has a genuine interest in the pople and the countryside in his district.
In grateful for all his help.

I appreciated: the information Stan we provided on identification, age and ology of the big tree and the coments he made on drafts of this article; special photography undertaken by rry Horbay and the opinions offered by eter Martin about the condition of the e, and for his photos. I acknowledge information provided by Marie Grono,

Manager/Secretary, Saskatchewan Forestry Association; by Vernon Harms, Curator, The W. P. Fraser Herbarium; and by Gary Kruger, Saskatchewan Soils Testing Laboratory.

<sup>1</sup>HOSIE, R. C. 1969. Native trees of Canada. Queen's Printer, Ottawa. 380 pp.

<sup>2</sup>LEE, C. A., S. ROWE and D. B. WILLIAMS. 1985. Saskatchewan trees of renown. Saskatchewan Forestry Association, Prince Albert. 36 pp.

## **IIGRATING SNAKES**

1 A. WEDGWOOD, 610 Leslie Avenue, Saskatoon, Saskatchewan. S7H 2Z2

An unusually large total of 11 garter takes was seen while I was driving mater farm to farm in the Norquay districting the afternoon of September 12, 39, the first warm, sunny day in 3 aks.

The snakes were on three 1.6- 4.8stretches of north-south roads: a ed highway 1.6 km west of town, a vel road 1.6 km northeast and a dirt d 3.2 km southwest. The six live and road-killed snakes were all going or ting east. About 3 hours elapsed ween first and last observations.

Given the weather pattern, the numof snakes and especially the consisapparent direction of travel, the surmise was that a migration was occurring across a front at least 8 km wide. (With that number of snakes, if movements had been merely local, including sunning on the road, one would expect direction to have been random.) Since the sightings were spread over 3 hours, probably many more than 11 snakes were present, some having already crossed, others not yet having reached a road when I happened by.

According to Wayne Lynch, garter snakes in Manitoba's Interlake region may migrate as much as 18 km from hibernacula and move back to winter quarters in the first half of September.<sup>2</sup> Bernie Gollop recalled an old report of a hibernaculum near Pelly, Saskatchewan,