

THE FISHES AND THEIR DISTRIBUTION IN THE BANFF NATIONAL PARKS OF CANADA

PREPARED FOR PARKS CANADA BY THE CANADIAN WILDLIFE SERVICE CALGARY ALBERTA 1974

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Room 1110
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March 21, 1974

Canadian Wildlife Service Service canadien de la faune

Mr. L. H. Robinson, Director
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Dear Sir:

It is my pleasure to provide herewith a report, prepared by Mr. J. C. Ward of the Limnology Section of the Canadian Wildlife Service, on the distribution and range of fishes in waters of the mountain National Parks of Canada.

Mr. Ward's report is based on data accumulated during twenty years of investigations and travel he undertook in the mountain Parks, and on information gleaned from early Park files and fish culture records. Although the basic information is valid only to 1972, cognizance has been taken of more recently published literature in order to make the report as current as possible.

I trust that your officers who are concerned with natural resources conservation will find this report a useful reference point when considering aquatic resources of the mountain Parks. Their comments and criticisms, particularly with reference to any errors, will be welcomed.

Yours sincerely,

A. H. Macpherson
Regional Director
Canadian Wildlife Service

Encl.

CANADIAN WILDLIFE SERVICE

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THE FISHES AND THEIR DISTRIBUTION IN
THE MOUNTAIN NATIONAL PARKS OF CANADA

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Calgary, Alberta

January, 1974

SUMMARY

Trout have been stocked in Canada's mountain National Parks' waters since the turn of the century. Many early plantings were not recorded, making difficult the task of following the changes that have occurred in fish populations in subsequent years. This report summarizes the early history of the park fisheries from information retrieved from old files, reports and stocking records and describes the current distribution of trout species inhabiting the mountain National Parks. Eighteen years of sampling a large proportion of the park waters, of travelling with and talking to park wardens and others with substantial mountain park experience, has enabled the author to give accounts of the dispersement of fish species other than trout. Some experimental plantings in these park waters are discussed.

One series of maps shows the locations of all lakes and ponds within the mountain National Parks' boundaries. A second series illustrates the distributions of the trout species and the most common of the other species of fish. Tables present the dates of the known first recorded stocking of each trout species in each park water that has received hatchery fish. Other tables list and locate all known lakes and ponds in the mountain National Parks and indicate the present occurrence of fish in them.

Except for three more recent literature citations, the report deals with field and laboratory records compiled up to the end of 1971.

ACKNOWLEDGEMENTS

This study was carried out during a period of 20 years, between 1952 and 1971. In that time I have become indebted to many persons who assisted in numerous ways. I am grateful to those park wardens who accompanied me on trips and gave advice on locating fish species in areas known to them. I wish to thank fisheries technicians A. C. Colbeck and J. Kilistoff for producing the tables and maps, and D. E. McAllister for his assistance in identifying specimens sent to him. D. R. Flook and J.-P. Cuerrier reviewed the manuscript, and offered many useful suggestions that improved the final report. The assistance and advice given by A. H. Kooyman in the final editing and production of the report for distribution to the Parks in the western region is greatly appreciated.

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THE FISHES AND THEIR DISTRIBUTIONS IN THE MOUNTAIN NATIONAL PARKS OF CANADA

Introduction and history

Fish populations are constantly changing. New introductions come naturally from migrations; some species are altered by environmental changes; others are wiped out by catastrophic occurrences. Conditions rarely remain static, and since the invasion of Man into North America many changes have been wrought directly and indirectly as a result of his activities. The native Indian may have moved fish species from one location to another, although we lack evidence of this. Certainly the early white settlers moved fish species about deliberately or by accident in considerable quantities. As methods of capturing, rearing and transporting fish have become more efficient, so have the changes made to fish populations become more frequent.

Many fish were stocked in National Park waters before hatcheries existed in the area. Records were not kept, so we can only surmise from occasional comments recorded here and there that purposeful plantings were carried out. According to the late B. Woodworth and E. Stenton, who were park wardens in Banff, cutthroat trout (*Salmo clarki*) were captured from Herbert, Mud and Copper lakes as early as 1909 (personal communications). They could not have occurred there without someone having introduced them. Brook trout (*Salvelinus fontinalis*) were introduced into the Bow river in Banff prior to 1910 by the Canadian Pacific Railway (Anonymous, 1910), but the actual date is not known. The same author also records the presence of rainbow trout (*Salmo gairdneri*) in the river at that time, although they were not native to the area. According to one early record even smallmouth

bass (*Micropterus dolomieu*) were tried in Lake Minnewanka in 1901-02 (memo on old National Park files).

Apparently pollution and over-fishing were prevalent even as early as 1910. One spokesman, S. Vick, at the 25th sitting of the Alberta and Saskatchewan Fisheries Commission meetings (Anonymous, 1910) complained, "Our streams are all depleted and one or two fish are now taken where a basketful could be caught ten years ago." Fish were scarcer after the railway construction and coalwashing operations. The latter was said to have "killed the fish wholesale." At the same conference another delegate, D. MacDougall, stated that "pollution by sawdust from a sawmill took a severe toll of Bull trout." (Dolly Varden - *Salvelinus malma*).

In other areas there were too many fish, and some complaints were registered with H. Sibbald, chief game guardian for the Federal Government in 1910, (Anonymous, 1910) that fish were stunted. Some of the lakes mentioned were the three Castle Lakes, two of which are now known as the Twin Lakes, and the other was probably Smith Lake. Our records show no stocking in those waters prior to 1941, hence they must either have contained native cutthroat trout populations, or some very early unrecorded stocking of that species was done in some of the Banff lakes. The cutthroat in those waters more closely resemble the Yellowstone variety in appearance than the cutthroat which is native to the Bow River drainage. Early pioneers and workmen building the Canadian Pacific railway must have done most of their fishing in the rivers along the right-of-way. Possibly some of those people were responsible for moving fish into lakes that were not too distant for easy transfer.

Hatcheries

At the 1910 conference of the Alberta and Saskatchewan Fisheries Commission great concern was voiced over the poor fishing. As a consequence, the first fish hatchery was constructed at Banff in 1913 by the former federal Fish Culture Branch of the Department of Fisheries. It was located on the south side of the Bow River, just above Bow Falls, and made use of the river for a water supply. In 1928 the same department also built the Waterton Lakes fish hatchery, five miles east of the Waterton townsite. Water was obtained for its operations from springs that arise in the area. Both hatcheries confined their operations to the hatching of eggs and the production of fry and small fingerlings. A few outside ponds and rearing areas were added later to allow the raising of larger fish, but the production of yearling and older fish was never great. Water supplies were too cold for good growth.

The hatchery at Jasper was established by the National Park Service in 1941, (Solman, et al, 1952). Prior to that, fish for Jasper Park waters had been raised in the basement of the Park administration building, for several years utilizing troughs which had been installed there. Old records reveal that only rainbow trout and brook trout were reared. Apparently no records were kept on the distributions of the fish, hence the dates when trout populations first were established in many of the Park's waters are unknown.

From the beginning the Jasper hatchery was better suited than the other two for rearing fish to larger sizes, both because the water supply had higher temperatures (the lower Maligne river) and because there

was ample space for rearing ponds. In the early 1950's it became evident that, especially in the more accessible areas of the Parks, the stocking of yearling fish was providing better survival and greater return to the anglers. Because of their cold water supplies the Banff and Waterton Lakes hatcheries were capable of rearing only limited numbers of larger fish. During 1956 and 1957 efforts were made to locate new sources of water better suited for rearing larger fish, but no better source than the Maligne river at Jasper could be found. Finally a decision was made to concentrate the hatching and rearing of trout for all the western National Parks at the Jasper hatchery. Facilities were increased by the addition of a number of raceways and fingerling rearing tanks, and the hatcheries at Banff and Waterton were shut down. Only some holding ponds were retained in Waterton, and a small holding area in Banff, so fish could be held during periods when stocking was being carried out.

The Jasper hatchery reared five kinds of trout. Rainbow and brook trout were the most abundant species, followed by lake trout (*Salvelinus namaycush*), cutthroat trout, and occasionally splake (the *S. fontinalis* X *S. namaycush* hybrid). Egg supplies were obtained from many sources. Some were purchased from American and Canadian agencies, some obtained on an exchange basis with provincial governments, some collected from wild stocks at Park lakes and some from brood stocks kept for that purpose. Yearly production ranged from 200,000 to 1,000,000 fingerlings, 10,000 to 400,000 yearlings and up to 50,000 two-year olds per year. Production depended on the demand for fish of various sizes to meet the stocking program, on the availability of eggs of the various species, and on the success in rearing the stocks that developed from the eggs supplied.

The stocking policy in the Parks has altered over the years. In the beginning, fish were placed wherever some enterprising warden or fish culturist could find the waters and the means of getting the fish to their destination. Gradually the stocking became more scientific and attempts were made to match species and quantities with habitat requirements. The early liberal attitude of Park officials towards stocking became more restrictive, and finally the present concept of stocking only those waters already containing fish populations was developed. The heaviest stocking is now carried out on the lakes most utilized by the angling public or where natural reproduction is limited or lacking. Fish species stocked are those already present in the waters. Where possible, emphasis is placed on stocking species native to the area concerned. For a time some experimental plantings of non-native species were made but, for several years now, they have been discontinued. Many lakes containing no fish populations are being left in their pristine state.

Methods

The common and scientific names used in this report are in accord with those used by Scott and Crossman (1973) in Bulletin 184 of the Fisheries Research Board of Canada.

Presenting descriptions of the distribution of the various fish species in the mountain National Parks posed several problems. The most frustrating of these was a lack of names for many of the lakes. There were also waters having two or more local names. They may or may not coincide with lakes shown on maps under another name, or they may be un-named

on the maps. Another problem was that of incomplete stocking records. When many waters were stocked records were not kept, or in some cases, records were incorrect and fish were stocked in waters other than those for which they were intended.

The first task was that of producing master maps on which every body of water could be identified. Using regional 1:50,000 maps and aerial photographs we attempted to identify all Park waters, and certainly all those of significance. Conflicts arose when map locations of some lakes appeared to be in slightly different areas than where they were found on aerial photographs, or when waters appeared on photographs but not on the maps. In all cases the photographs were used in making final decisions. From information thus obtained, all waters have been plotted on the 1:90,000 scale-maps of Banff and Jasper National Parks; the 1:126,000 maps of Yoho, Kootenay and Glacier National Parks; and the 1:63,000 map of Waterton Lakes National Park. Jasper and Banff Park maps were divided into three sections and the Waterton Park map into two sections so that identification of the waters would be possible when the scale was reduced to report size.

All lakes have been assigned a number. Where possible, the lake name is associated with its particular number in the tables. The tables also give the location of each body of water, whether named or not, by latitude and longitude and refer to the map where it is identified. Small-scale maps are difficult to read, hence the full-scale master maps from which the reductions are made will be kept available at Park Warden offices as well as at the Western Regional Office for examination by anyone uncertain of the exact locality of waters in which he may be interested.

Although all lakes and ponds have been given numbers, streams have not been identified. They are easy to find on the maps. This report is meant to identify waters with fish populations. Other investigators may wish to locate waters on which they intend to work, and if those waters are un-named they can use this numbering system to describe the waters in question and identify them on the maps.

To obtain complete information on any particular body of water the reader will have to examine the maps to obtain its location, and the tables to determine the present fish populations and the records of fish species stocked therein. By comparing the stocking tables with the table showing the present distribution, the reader will be made aware of the species of fish which have been stocked but which have failed to survive, or those species which have been removed by direct means and replaced later by another species.

Some distribution maps show records for only one species; others show several species as indicated by different symbols. On the maps no attempt has been made to show streams except for orientation purposes, nor to indicate the species of fish inhabiting running waters. The text will describe the species found in the creeks and rivers. In some instances there is uncertainty concerning how far upstream a particular species may be found. The text will deal with the most common and wide-spread species of the salmonids first, and then with other species to be found in the various mountain Park waters.

The master maps showing lake locations are presented in Appendix A and the species distribution maps in Appendix B. The tables in Appendix C give the trout planting records. The tables in Appendix D are a checklist of the known occurrences of fish in the lakes.

Distribution of Fishes

Salmonidae - salmon, trouts, chars, graylings and whitefishes

DOLLY VARDEN - *Salvelinus malma* (Walbaum)

This char is the most widespread of all the trouts and chars in the Mountain Parks. It is found in every watershed, mostly in the creeks and rivers, but also in several lakes. Although not highly regarded as a sport fish by some, it does have the advantage of being completely self-sustaining. No Dolly Varden are raised at the hatchery or stocked in the Parks' waters.

In size the Dolly Varden ranges from the numerous small ones found in the smaller creeks to occasional specimens of ten to fourteen pounds in the larger rivers. The few lakes that contain the species usually have fish that average one to three pounds in weight. Spot poisoning with rotenone in small feeder streams and backwaters of the larger rivers reveal good populations of young Dolly Varden up to six inches long everywhere the operations have been carried out. Only the portions of streams above impassable falls are lacking the species. Strangely, there are some lakes at the top of small watersheds that contain native cutthroat trout but which do not have Dolly Varden populations, even though the latter is found in the creeks below the lake. In other cases both species may be in the lake. For instance, both Elk and Sawback lakes in Banff National Park contain native cutthroat trout populations but no Dolly Varden, while Mystic Lake has both species.

Dolly Varden seem most adapted to the cold, swift and sometime silty mountain lakes and streams where other species are often absent. In larger streams the species will prey on any fish that is available, but in the very small tributaries their diet consists mainly of aquatic insect fauna and an occasional smaller specimen of its own kind.

Species distribution maps 7, 8, 9 (Jasper National Park); 25, 26, 27 (Banff National Park); and 38 (Waterton Lakes National Park) show the lakes in these Parks which are known to have Dolly Varden populations. There may be remote lakes in the northern areas of Jasper and Banff parks that contain this species also. Not all such lakes have been thoroughly investigated.

BROOK TROUT - *Salvelinus fontinalis* (Mitchill)

Vick (1913) and Whitehouse (1919) noted the introduction of brook trout (a char) into Banff Park waters about 1910. W. Mather stated that Lake Nipigon trout (brook trout) were introduced into the Bow River near Banff by the Canadian Pacific Railway company (prior to 1910) and that they occasionally appeared in anglers' catches as early as 1900 (Anonymous, 1910). The first stocking in Jasper waters occurred in 1928 when the upper Maligne River system was planted (old stocking records). The species has since been spread through all the Parks and now rivals the rainbow trout in abundance.

Brook trout are found in lakes at all altitudes and of all sizes from small beaver dams on creeks and springs to large bodies of water the

size of Maligne Lake. Natural reproduction occurs in many areas, but where it is limited or lacking, populations are maintained by hatchery plantings. For a long time the Maligne River system, consisting of Maligne, Medicine, Beaver, Mona and Lorraine Lakes, and the upper Maligne River contained large numbers of the species. There is a record of one specimen weighing over 13 pounds being taken from Beaver Lake in the early days, and several other specimens from 11 to 12 pounds. In recent years there has been a drastic decline in that population. In the mid-1950's there was a mix-up in the cans of fry being stocked in Medicine Lake and rainbow fingerlings were planted instead of the intended brook trout. Since then rainbow trout have gradually taken over those waters and are now the dominant species, in spite of attempts to keep the brook trout in the foreground with hatchery plantings.

Brook trout have been stocked into cutthroat trout lakes and have sometimes dominated those waters. In other areas, both rainbow and brook trout do equally well in the same lake, and are caught with equal ease; or one species dominates in one year and the other in another. Differences in the requirements of the two species are not fully understood. It has been noted that brook trout tolerate lower oxygen conditions in winter, and in several lakes have survived when rainbow and cutthroat have winter-killed.

The lakes containing brook trout populations are shown on species distribution maps 4, 5, 6 (Jasper National Park); 22, 23, 24 (Banff National Park); 34, 35 (Waterton Lakes National Park); 45 (Yoho National Park); 48, 49 (Kootenay National Park); and 52 (Mount Revelstoke National Park).

The species is found in many streams, especially the Bow River, Saskatchewan River and the upper Maligne River between Maligne and Medicine Lakes. The Cascade River below Lake Minnewanka is full of small brook trout, and many are found in beaver dams and small streams on the upper Cascade River in Banff, the Belly River in Waterton and along the Athabasca and Sunwapta Rivers in Jasper. It has been stocked in the Beaver River in Glacier National Park and the Vermilion River in Kootenay National Park.

LAKE TROUT - *Salvelinus namaycush* (Walbaum)

The lake trout (another char), or salmon trout as it was often referred to in early days, was native to Waterton Lakes, Banff and Jasper National Parks, and has been introduced into Sherbrooke Lake in Yoho National Park. It is found as a native species in Glacier Lake and the upper Saskatchewan and Alexander Rivers and in Clearwater Lake in the northern part of Banff National Park. In Jasper National Park lake trout were caught in the early days (from Pyramid and Moab Lakes) before stocking was started. In Banff it was native to Minnewanka Lake and has since been established, through stocking, in Bow Lake. In Waterton it occurs naturally in both the upper and lower Waterton Lakes. Specimens as large as 47 1/2 pounds have been taken from Lake Minnewanka, but since that lake became a reservoir for storing water to produce electrical power, the largest specimen recorded is 39 pounds. Limnologists have taken specimens of 32 pounds 7 oz. from Upper Waterton Lake and of 24 1/2 pounds from Pyramid Lake. Lake trout stocking is now done only in Pyramid and Moab Lakes. Spawning grounds in those waters are of poor quality.

Species distribution maps showing lake trout waters are 7, 9 (Jasper National Park); 25, 26, 27 (Banff National Park); 38 (Waterton Lakes National Park); and 46 (Yoho National Park).

SPLAKE - *S. fontinalis* X *S. namaycush*

This hybrid of the brook trout and lake trout has been stocked in several lakes in the mountain National Parks. Since 1946, when the hybrid was first developed in Banff National Park (Stenton, 1950) there has been considerable interest in raising splake in the Parks, and also in studying the resulting generations of naturally-reproducing hybrids that have developed in Agnes Lake (Goldberg, et al 1967). The first lake to be stocked with splake was Herbert Lake in 1950 and again in 1951. The first angling season for splake took place there in 1952 and was a tremendous success (Cuerrier, unpublished). No further splake plantings were made in that lake, and by 1964 all had apparently disappeared. Splake were stocked in Agnes Lake in 1951. Successful reproduction occurred there and has continued. Lake Agnes contains no other fish species and has spawning areas which satisfy the requirements of both parent species. Natural reproduction has been successful in only one other lake, Turquoise Lake in Banff National Park. Hybrid populations have been maintained by stocking in Moraine and Hector Lakes in Banff, Wapta Lake in Yoho, and Pyramid Lake in Jasper. Several other lakes have also been stocked from time to time with varying success, but discontinuance of regular stocking in such waters and failure of the hybrid to reproduce has resulted in their elimination from those areas. Splake may still occur in Hibernia Lake in Jasper, Minnewanka, Mosquito, Summit, Louise, Warden and Herbert Lakes in Banff,

but most likely have already disappeared or will do so soon, since no reproduction has occurred. Lakes which have splake populations, including those where it may soon disappear because of lack of reproductive success, are shown on species distribution maps 8, 9 (Jasper National Park); 26, 27 (Banff National Park); and 46 (Yoho National Park).

QUEBEC RED TROUT - *Salvelinus alpinus* (Linnaeus) were stocked in the Block Lakes and Lake Louise in Banff but failed to make any permanent showing. There was some good angling in the middle Block Lake for a short period, but reproduction did not take place and finally this species of char died out.

RAINBOW TROUT - *Salmo gairdneri* Richardson

The rainbow trout is one of the most widespread and popular game fish species found in the National Parks. According to records it was first introduced into Banff and Jasper Parks in 1919, but the species is mentioned in the recommendations submitted to the Alberta and Saskatchewan Fisheries Commission by the members attending the 25th sitting of the Commission in 1910. From the comments made it would seem that the rainbow trout had already been stocked in some Banff Park waters by that time. Although no specific waters were named, the recommendations were that the minimum size for sport fish, namely cutthroat trout, rainbow trout and mountain whitefish, should be nine inches and the maximum daily catch limit for the same species, fifteen fish. There was no indication where the rainbow could be caught or when or how they had been introduced into Park waters.

The rainbow trout is reported to have been native to Jasper National Park by the late R. B. Miller (personal communication). That is possible, since native populations do occur in the Athabasca drainage (Paetz and Nelson, 1970). No evidence could be found of stocking in the Parks prior to 1919 when the species was introduced into Patricia and Hibernia Lakes. Early settlers are said to have caught rainbow trout from Caledonia Lake, but that report could not be substantiated. Paetz and Nelson (1970) report that employees of the Grand Trunk Pacific railway took rainbow trout in areas near Hinton and Jasper in 1910 and 1911.

At present rainbow trout are found in all the mountain Parks except Glacier National Park in British Columbia. The species inhabits a great many lakes and most major streams. Notable among the streams are the upper Smoky River, Blue Creek, the upper Snake Indian River, upper Maligne River and the Athabasca River and tributaries in Jasper, the Bow River drainage in Banff and the Belly River drainage in Waterton. Lakes containing rainbow trout populations are shown on species distribution maps 1, 2, 3 (Jasper National Park); 16, 17, 18 (Banff National Park); 32, 33 (Waterton Lakes National Park); 44 (Yoho National Park); 48, (Kootenay National Park); and 52 (Mount Revelstoke National Park).

CUTTHROAT TROUT - *Salmo clarki* Richardson

This species of trout is native to many areas of southern Alberta and British Columbia. In the National Parks it is native to the Bow River drainage in Banff, the Waterton and Belly Rivers in Waterton Park, and possibly the Kootenay River in Kootenay Park. Cutthroat trout were introduced

into many lakes of the Parks. There are records of stockings as early as 1915 in Banff, 1921 in Yoho, 1922 in Waterton, and 1917 in Jasper National Parks. Many of the early introductions, especially in Waterton Park, were made with eggs and fry imported from the United States. Later, when the Banff fish hatchery was firmly established, most of the eggs were collected from native stock at the Spray Lakes. When that source of eggs was no longer available, they were obtained from coastal cutthroat trout stocks obtained from the state of Washington, and from the Yellowstone variety of cutthroat trout obtained from the Cranbrook hatchery in British Columbia.

It is not known for certain how many Park lakes now contain the true native variety of cutthroat trout. Marvel, Gloria, Leaman, Elk, Sawback and Mystic Lakes in Banff National Park are known to have only native cutthroat. The Fish Lakes and Mummy Lake in Banff, and Utopia Lake in Jasper may contain the native variety also, introduced from Spray or Marvel Lakes stocks. All others probably had the Yellowstone or coastal varieties introduced as plantings into virgin waters, or added to stocks of native cutthroat trout already there.

The species distribution maps showing cutthroat trout waters do not distinguish between the varieties. The cutthroat trout waters are shown on maps 7, 8, 9 (Jasper National Park); 19, 20, 21 (Banff National Park); 36, 37 (Waterton Lakes National Park); 46 (Yoho National Park); 48, 49 (Kootenay National Park); 52 (Mount Revelstoke National Park); and 54 (Glacier National Park). According to Paetz and Nelson (1970) cutthroat trout are found in Harrison Lake in Banff National Park but to the author's

knowledge none have been stocked there nor captured from the lake. In recent years only Dolly Varden char seem to be present.

RAINBOW-CUTTHROAT HYBRID - *S. gairdneri* x *S. clarki*

Most fisheries workers are aware that rainbow and cutthroat trout will hybridize under certain natural conditions, since both are spring spawners and favour identical spawning areas. Also, hybrid eggs are often created intentionally or unintentionally by fish culturists and later may be supplied to hatcheries as rainbow trout eggs (Gilmour, 1950).

Although not widespread in the Parks, the hybrid occurs and reproduces in a few waters. Stocking records show that both species were planted in those locations so the original hybrids could have come about naturally, or perhaps the original rainbow trout plantings were actually hybrids. The stocking tables show several locations where both species have been stocked without developing hybrid populations. Boom Lake in Banff National Park appears to have only cutthroat trout in it, although stocked with rainbow trout in 1937. Annette Lake in Banff has only rainbow trout although stocked with cutthroat trout in 1959.

The rainbow-cutthroat trout hybrid is found in Cabin Lake, Jasper National Park, Waterfowl Lakes, Banff National Park, and O'Hara Lake, Yoho National Park. Because of their limited numbers no special maps were made to show the locations of the hybrid-containing lakes. They can be found on both the maps which show rainbow trout populations, and those maps showing cutthroat trout populations. That is, rainbow trout distribution maps 3

(Jasper National Park); 18 (Banff National Park); 44 (Yoho National Park).

BROWN TROUT - *Salmo trutta* Linnaeus

Brown trout are rare in the mountain National Parks. Stocking records show that the species was planted in Jasper National Park in Annette Lake as early as 1924 and in Dead Mans' Hole in 1942. However, both those waters have been treated with fish toxicants and now contain rainbow and brook trout populations. The lower section of the Bow River within Banff National Park from Bow Falls to the park boundary has a fairly large brown trout population. Stocking records do not show that the species has been planted in the Bow River drainage but G. Bailey (personal communication) has indicated they were planted there by accident in the days when he acted as assistant to hatchery supervisor J. E. Martin, prior to 1928. The fish distribution truck taking brown trout to Alberta streams had an accident at the Carrot Creek bridge so the fish were released in the creek and found their way down to the Bow River from there. Some brown trout enter Chinamen's Creek and the tailwaters from the Cascade power plant at certain times of the year, and those areas appear to be nursery streams for the young. The species is also found in beaver dams on Bow River backwaters in the area where Carrot Creek flows into the Bow. At least two specimens have been taken from the Vermilion Lakes, upstream from Bow Falls, but the species appears to be rare in those waters. None have been reported further upstream. Brown trout are not shown on the maps because they no longer occur in any of the mountain Park lakes, nor are they found in any streams other than those already discussed.

OTHER SALMONIDS

From time to time attempts have been made to establish other members of the Salmonidae in National Park waters, but all have failed for one reason or another. Either the fish failed to appear after stocking, or only a few fish survived. None of the stockings resulted in reproducing populations.

ATLANTIC SALMON - *Salmo salar* Linnaeus, were planted in Lake Minnewanka of Banff National Park as far back as 1915 and as recently as 1963, but only about half a dozen specimens have been reported caught. Atlantic salmon were also tried in Pyramid, Celestine and Moab Lakes in Jasper National Park with no greater success. Excellent survival came from a planting of about one thousand fry in a gravel borrow pit five miles west of Banff which, it was thought, might serve as a rearing pond. The fry grew to a length of 10 to 11 inches, but seining them from the borrow pit was only moderately successful. Soon anglers discovered their presence and all were caught in a short time.

GOLDEN TROUT - *Salmo aguabonita* Jordan. Eyed eggs of this species were placed in several lakes in Jasper, Banff, Yoho and Kootenay National Parks but all failed to produce fish.

ARCTIC GRAYLING - *Thymallus arcticus* (Pallas). From time to time Arctic grayling have been stocked in some of the lakes in Jasper National Park, but no permanent populations have resulted from the introductions. The species is native to the Athabasca River downstream from the

Park, but few have been reported in the Park and they were probably from a stocking. One fish was taken by angling from the lower Maligne River in 1962 by a member of the hatchery staff, and several were reported captured the same year from the lower Snaring River. In 1958, eyed eggs and fry had been stocked in Edna Lake, about 20 miles down the Athabasca River from the areas where the above-mentioned fish were caught. The Edna Lake plantings survived and grew at a rapid rate, but apparently were held in the lake only because the outlet had been screened. When vandals removed the screen in 1961, the grayling disappeared, and it was the following year that anglers picked up the few fish previously mentioned. Grayling have not been taken in Jasper streams since then.

Grayling were also planted in Buck Lake in 1957, and they too survived and grew very well until 1960, then they all seemed to disappear. It had been hoped the fish would find their way to the Sunwapta River when they reached spawning condition and that Buck Lake and the Sunwapta River would both become populated from the offspring. Apparently it did not happen, and the grayling has not been caught in those waters since.

Other waters stocked unsuccessfully in Jasper National Park were Iris Lake (1957) Osprey Lake (1954) and Katrine Lake (1963). In 1969 grayling fry were planted in Beauvert and Moab Lakes. A few specimens were reported taken at Moab Lake in the 1971 and 1972 angling seasons, but none have been reported from Lac Beauvert so far. Bajkov (1927) lists Pyramid Lake as having a grayling population but the species presently found there and commonly mistaken for grayling, is the mountain whitefish.

Species distribution maps 7 and 8 (Jasper National Park) show the locations where grayling may be surviving. Those waters where they have died out are not shown.

Whitefishes

MOUNTAIN WHITEFISH - *Prosopium williamsoni* (Girard)

This species is found in most of the larger streams and rivers in the mountain National Parks which are not obstructed by impassable falls. They also inhabit many lakes made accessible by feeder streams that run into the larger rivers.

In Waterton Lakes National Park the upper and lower Waterton Lakes, Knights' Lake and the Waterton River all contain the species. It is sometimes caught in Pass Creek, especially in the early autumn.

In Banff National Park the mountain whitefish is found in the Bow, and Saskatchewan River drainages. In the Bow River drainage the species is found as far upstream as Bow Lake, and is also present in Hector, Louise, Vista, Vermilion and Minnewanka Lakes. It seems to enter the lower Spray River in the early autumn, but few if any specimens remain for the entire year. The species occurs in the Red Deer River downstream from Banff Park. It probably occurs in that drainage inside the Park also, especially in the autumn when they move upstream to spawn, as there are no obstacles to prevent it. There is little angling there and we have no records of fish taken. Specimens have been taken from Glacier Lake on the Saskatchewan River drainage, and from Clearwater Lake on the Clearwater

River drainage. Mountain whitefish were reported from Boom and Moraine Lakes (Vick, 1913) but the occurrence has not been confirmed by gill net sets made in both lakes during the past 15 years.

In Jasper National Park, mountain whitefish occur in the Athabasca River as far upstream as Athabasca Falls, and in all major downstream tributaries including the Whirlpool, Miette, lower Maligne, Snaring, Snake Indian, Fiddle and Rocky Rivers. It occurs naturally in Moab, Pyramid, Beauvert, Edna and Talbot Lakes and in backwater areas along the Athabasca River. Northward, it probably penetrates Park waters in the Smokey River drainage but this has not been confirmed. Anglers occasionally take mountain whitefish in the Kootenay and Vermilion Rivers of Kootenay National Park and from the Beaver River in Glacier National Park. In Yoho National Park, the Kicking Horse River contains the pygmy whitefish, *Prosopium coulteri* (Eigenmann and Eigenmann), rather than the mountain whitefish (Carl, Clemens and Lindsey, 1967). The pygmy whitefish has also been reported from upper Waterton Lake in Waterton Lakes National Park by Lindsey and Franzin (1972).

Mountain whitefish lakes are shown on species distribution maps 7,8,9 (Jasper National Park); 25,26 (Banff National Park); and 38 (Waterton Lakes National Park).

LAKE WHITEFISH - *Coregonus clupeaformis* (Mitchell)

Bajkov (1927) described the whitefish found in Beavert Lake in Jasper National Park as *Coregonus nasus*, but Paetz and Nelson (1970) conclude that it was the common lake whitefish. My own observations confirm

their conclusion. The species is no longer present in that lake since it was poisoned in 1966, but it is plentiful in Talbot Lake and in some of the backwaters along the lower Athabasca River within the Park. It must be present in the Athabasca River from time to time because it has re-invaded Edna Lake since it was poisoned in 1956.

The lake whitefish is plentiful in the Waterton Lakes system, including the upper and lower lakes and Knight's Lake. In the early days of Waterton Lakes National Park development there was a commercial fishery for the species which continued until after World War I. Commercial netting is no longer allowed but specimens are taken occasionally by angling. It is preyed upon by the lake trout in the Waterton Lakes in preference to any other species, according to Cuerrier and Schultz (1957).

Because of the high utilization of the species for food by the lake trout in Waterton Lakes, it was stocked in Lake Minnewanka in Banff National Park in an attempt to obtain more satisfactory growth of the lake trout population. In the years 1953, 1954, 1957 and 1958 totals of 8,650,000 eyed eggs, 50,000 fry and 2,000 fingerling whitefish were stocked. Recoveries to 1971 amounted to one 4-pound specimen taken by nets from Lake Minnewanka and three 2 1/2-pound specimens from Two Jack Lake. Fish from Lake Minnewanka have access to Two Jack Lake when water is directed from the former to the Cascade power installation. No evidence of reproduction has been found, hence it is believed the attempted introductions were failures.

Lake whitefish lakes are shown on species distribution maps 8, 9 (Jasper National Park); 25 (Banff National Park); and 38 (Waterton Lakes

National Park).

CISCO - *Coregonus artedii* Lesueur

Cisco (or lake herring) from the Great Lakes of eastern Canada were stocked in Lake Minnewanka in Banff National Park in 1916 and 1917 to serve as forage fish for the native lake trout population. The introductions were successful, and the lake now contains a prolific breeding population of ciscoes.

In 1967 and again in 1968 young ciscoes were seined from Lake Minnewanka and placed in Moab Lake in Jasper National Park in an attempt at improving the food situation for the lake trout population. A few adults have since been taken in gill nets, but as yet there has been no evidence of successful reproduction.

Cisco lakes are shown on species distribution maps 7 (Jasper National Park); and 25 (Banff National Park).

Esocidae - pikes

NORTHERN PIKE - *Esox lucius* Linnaeus

Northern pike inhabit waters in both Jasper and Waterton Lakes National Parks. In Jasper it is common in Talbot Lake where it is frequently taken by anglers early in the year before the trout season opens. It is also the object of a small amount of winter angling. Specimens up to 24 pounds have been captured. The pike penetrates into the Park as far as

Jasper townsite in the Athabasca River, being occasionally caught in Beauvert Lake and river backwaters downstream to the Park boundary.

In Waterton Lakes National Park the northern pike penetrates only as far as the Dardanelles between Knight's Lake and lower Waterton Lake, where it is sometimes found in the beaver dams of that area. It is the most common in Maskinonge Lake, where it spawns in early spring. Angling for the species takes place early in the year in the area where Maskinonge Lake drains into the Waterton River.

Northern pike lakes are shown on species distribution maps 8, 9 (Jasper National Park); and 38 (Waterton Lakes National Park).

Cyprinidae - minnows or carps

LAKE CHUB - *Couesius plumbeus* (Agassiz)

Lake chub are common in many waters in Jasper, Banff and Waterton Lakes National Parks. Rawson (1940) reported them from most of the lakes in the lower Athabasca valley in Jasper, but since then many of the populations have been removed by applying fish toxicants. Chub are still present in Caledonia, Pyramid, and Medicine Lakes and have become re-introduced into Edith and Beauvert Lakes. No doubt they are present in most of the backwater areas of the Athabasca River as well as in the river itself as far upstream as Athabasca Falls. They probably are present in Talbot and Edna Lakes too, but I have never recovered any in seining operations carried out there.

In Banff National Park, Rawson (1939) reported lake chub from Minnewanka and Two Jack Lakes, and we found it in abundance in Johnson Lake when it was reclaimed in 1962. Apparently it has been unable to survive in Minnewanka and Two Jack Lakes due to the annual fluctuation in water level that now occurs when use is made of the water for operating the Cascade power plant. We have been unable to obtain specimens from those lakes since I began working in the Banff Park in 1954. The species has been eliminated from Johnson Lake with fish toxicants, but specimens may have escaped into the Bow River prior to that by way of the outlet creek. Therefore, there could still be members of the species in the Bow River inside the Park.

In Waterton Lakes National Park the lake chub was reported by Rawson (1938) to be present in the two Waterton Lakes, Knight's Lake, Linnet Lake and Crandell Lake. Applications of rotenone have removed it from the latter two lakes but it could have become established again in Linnet Lake because of the 1966 flood.

In 1958, when Dog Lake in Kootenay National Park was treated with rotenone there were lake chub present. Because chub do not occur elsewhere in Kootenay Park, it was probably introduced as live bait by anglers. There may have been some escapement from the toxicant in the swampy areas above the lake, so there may still be specimens in that area. Lakes containing chub populations are shown on species distribution maps 10, 11, 12 (Jasper National Park); and 39 (Waterton Lakes National Park).

FLATHEAD CHUB - *Platygobio gracilis* (Richardson)

This species was reported by Bajkov (1927) to be present in the Athabasca River in Jasper National Park but the presence has not been confirmed by other workers. Rawson (1938) reported it from Linnet, Crandell and the Waterton Lakes, all in Waterton Lakes National Park. It is not shown on the species maps.

SPOTTAIL SHINER - *Notropis hudsonius* (Clinton)

The species was reported by Henderson and Peter (1969) in the Waterton Lakes area. It was collected at Talbot Lake, Jasper National Park in 1970 and the identification verified by D. E. McAllister. It is not shown on maps.

FATHEAD MINNOW - *Pimephales promelas* Rafinesque

This minnow was reported by Rawson (1938) to be in Linnet Lake and the Waterton Lakes chain. It was shown by Henderson and Peter (1969) to be in the Waterton River drainage in the vicinity of the Park. It is not shown on maps.

LONGNOSE DACE - *Rhinichthys cataractae* (Valenciennes)

Bajkov (1927) reported the species in the Athabasca River in Jasper National Park and Rawson (1938) reported it in the Waterton Lakes chain. The only specimens I have recovered were from the Cave and Basin

hot springs outlet, in 1970. The identification was confirmed by D. E. McAllister of the National Museum of Natural Sciences. Paetz and Nelson (1970) believed this dace might have become extinct in the waters referred to above, but that is apparently not the case. The species is not shown on maps.

PEARL DACE - *Semotilus margarita* (Cope)

The species may be present in the Athabasca River and adjoining beaver dams near the eastern park boundary and Jasper Lake areas. According to Paetz and Nelson (1970) it was taken there by Bajkov (1927) as the subspecies *Leuciscus nachei athabascae*. It is not shown on maps.

Catostomidae - suckers

LONGNOSE SUCKER - *Catostomus catostomus* (Forster)

The most common sucker in mountain Park waters is the longnose sucker. It is found in Waterton, Banff, Jasper, Kootenay and Yoho National Parks, but is not in Mount Revelstoke or Glacier National Parks.

In Waterton Lakes National Park specimens are plentiful in the Waterton River, Maskinonge and Knight's Lakes and in the Upper and Lower Waterton Lakes. It was found in Linnet Lake as well (Rawson, 1938) from which it was removed by poisoning with rotenone in 1951. It may have since re-invaded the lake in the flood of 1966 when the Waterton Lakes were very high for a brief period and connected to Linnet Lake.

Banff National Park has the species throughout the Bow River drainage but it probably does not occur much upstream from Eisenhower Junction. It was in Vista Lake when it was treated with toxicant in 1960 and has since most likely re-entered the area by way of Boom Creek. It is found in Minnewanka, Two Jack and the three Vermilion Lakes, and was in Johnson Lake prior to its being treated with rotenone in 1967. The species could be in Park waters of the upper Red Deer River but specimens have not been recovered there. It may also penetrate into the Park via the North Saskatchewan River, since it was in upper Warden Lake when it was treated with rotenone in 1953. Paetz and Nelson (1970) show it occurring in the river near the Park boundary.

The longnose sucker is found in Jasper National Park in the Athabasca drainage as far upriver as Athabasca Falls. It occurred in Moab Lake when it was poisoned in 1958 but has not reappeared since. Presently the species is found in Pyramid, Beauvert and Talbot Lakes. North of the Park it appears in the Smokey River, but it is not known how far upstream it may occur. Since there were longnose suckers in Emerald Lake in Yoho National Park when it was poisoned, some may have spread downstream through the Kicking Horse River drainage into the shallow backwater areas of Otter-tail flats. It is not known how the species entered Emerald Lake but natural waterfall barriers in Emerald Creek outflowing from the lake appear to be impassable to fish. The introduction may have resulted from anglers using the species as a bait fish.

There were longnose suckers in Dog Lake, Kootenay National Park, when it was reclaimed in 1958. Some may have escaped the effects of the toxicant in the swampy spring-fed areas above the lake.

WHITE SUCKER - *Catostomus commersoni* (Lacépède)

According to the Paetz and Nelson (1970), the white sucker is present in the Athabasca and Bow Rivers, possibly within Park boundaries, and also in the Smokey River north of Jasper Park. In my work in the Parks I have captured only longnose suckers in any of those waters. Rawson (1938) reported the species from Crandell, Linnet and the Waterton Lakes and River system in Waterton Lakes National Park. The species has since been eliminated from Crandell and Linnet Lakes, but as with the longnose sucker, it could have re-entered Linnet Lake in the 1966 flood.

Schultz (1954) reported "common" suckers in Emerald Lake in Yoho National Park as well as longnose suckers. As with the longnose sucker there may have been escapement from the lake into the Kicking Horse River so that the poisoning operation of 1959 may not have removed the species from this Park. Since the fish toxicant application at Emerald Lake no suckers have been recovered in any of several gill nettings made on different occasions.

MOUNTAIN SUCKER - *Catostomus platyrhynchus* (Cope)

According to C. Tebby (personal communication), mountain suckers were obtained from the North Saskatchewan River near the eastern boundary of Banff National Park when collections were being made in that area in 1973. Specimens are sure to be present inside the park, since there are no barriers to upstream migrations.

Gadidae - codfishes

BURBOT - *Lota lota* (Linnaeus)

Burbot (often called "ling") are common in Jasper National Park in the Athabasca drainage as far upstream as Athabasca Falls. It has been taken from Beauvert Lake, the Miette River upstream to the marshy area west of Geikie station, the lower Maligne River to the canyon, Edna and Talbot Lakes. Most likely it also frequents the lower reaches of all the major streams entering the Athabasca River below the falls, although none were obtained from the Whirlpool River in the vicinity of Moab Lake when sampling was done in the area with rotenone toxicant. It may penetrate into Jasper National Park to some extent at the north end in the Smokey River.

None of my sampling activities have resulted in the capture of burbot from any Banff National Park waters, but Paetz and Nelson (1970) show it on their map as being in the area near Bow Falls on the lower Bow River. They also report it in the upper North Saskatchewan River but to my knowledge it has not been captured inside park boundaries there.

The species is common in Waterton Lakes National Park in the upper and lower Waterton Lakes, Knight's Lake, Maskinonge Lake and the Waterton River.

Specimens are rarely taken by angling. The largest one captured with nets in Jasper was just over two pounds in weight. Larger specimens may be present, especially in Waterton Park lakes. The species is very

sensitive to rotenone and when fish toxicants are used in any area, burbot always show distress long before other species.

Burbot lakes are shown on species distribution maps 11, 12 (Jasper National Park); and 39 (Waterton Lakes National Park).

Poeciliidae - livebearers

McAllister (1969) lists several tropical fish species that have been introduced to Banff National Park where the water from the Cave and Basin hot springs flows into the marshy area between the swimming pool and the Bow River. In collections made on August 28, 1968 the following species were present: *Gambusia affinis* (Baird and Girard), the mosquitofish which was introduced in 1924 and has lived there since; *Xiphophorus helleri* (Heckel), the green swordtail; *Poecilia reticulata* Peters, the guppy; *Poecilia latipinna* (Lesueur), the black sailfin molly; and *Cichlasoma nigrofasciatum* (Gunther), the convict cichlid which is not a livebearer but belongs to the Perciformes.

The author has visited the area and sampled the populations on two occasions since 1968 but has been unable to collect additional specimens of the green swordtail. In view of the numbers of that species present when the 1968 collections were made it seems unlikely it has been eliminated entirely, but there has certainly been a great reduction in numbers from the former abundance.

The mosquitofish has also been recovered from the warm springs that flow into the third Vermilion Lake.

Gasterosteidae - sticklebacks

BROOK STICKLEBACK - *Culaea inconstans* (Kirtland)

This is the only stickleback species in Park waters. It is plentiful in the three Vermilion Lakes in Banff and also in the Cave and Basin hot springs outflow. When Two Jack Lake was poisoned in 1957, numerous specimens were killed, but the species has not been collected there since. A few specimens were planted in Moab Lake to serve as forage species for the trout populations but no evidence of reproduction has been observed. Stickleback lakes are shown on species distribution maps 10 (Jasper National Park), and 28 (Banff National Park).

Cottidae - sculpins

SPOONHEAD SCULPIN - *Cottus ricei* (Nelson)

This species has been collected from all three of the Alberta mountain National Parks. Specimens were obtained from the Athabasca River near Jasper townsite and had been reported by J. Kilistoff of National and Historic Parks Branch to be present in the Whirlpool River (personal communication). In Banff one specimen was obtained from the North Saskatchewan River near the Saskatchewan Crossing warden station. At Waterton Lakes National Park numerous specimens were taken in the Dardanelles area between lower Waterton Lake and Knight's Lake. It is not shown on maps.

SLIMY SCULPIN - *Cottus cognatus* Richardson

The slimy sculpin has been reported from the Kicking Horse River in the area around Field, B. C. (Carl, Clemens and Lindsey, 1967). It has also been found in the inlet stream to Emerald Lake so will likely be in the lake to a limited extent as well. This species is reported on species distribution map 46 (Yoho National Park).

TORRENT SCULPIN - *Cottus rhotheus* (Smith)

The species occurs in the Columbia River and Kootenay River drainages of British Columbia, hence there may be specimens in the Kootenay River in Kootenay National Park, and the Illecillewaet River in Revelstoke National Park.

DEEPWATER SCULPIN - *Myoxocephalus quadricornis* (Linnaeus)

Two specimens were collected from the upper Waterton Lake, Waterton Lakes National Park, (McAllister and Ward, 1972). This is a new record for Alberta. It is apparently plentiful in the deeper areas of the lake, having been taken in considerable numbers by parties trawling for *Mysis relicta* specimens. One hundred and thirty-two fish of this species were stocked in Moab Lake in 1965, but it is not known if they survived or if a breeding population has developed. It is not shown on maps.

Experimental Fish Plantings in the mountain National Parks

Over the past twenty years several experiments have been carried out on the stocking of trout and other species to test their adaptability to mountain park waters. Mention has been made in the foregoing of some of these plantings. There are others which should also be noted, and some of those already mentioned should be elaborated upon. Possibly the explanations may allay the concern of those readers who have studied the planting records and questioned some of the more peculiar-looking among them, and may assure them they were not made without purpose. Not all the tests will be described, only those considered of importance or special interest.

Planting Marked Fish

Many of the trout stocked from the Jasper fish hatchery have been identified in one way or another, usually by means of fin-clipping or with coloured tags. By fin-clipping we mean the removal of one or more of the fins so that groups of fish may be recognized when individuals are captured at a later date from the waters in which they were stocked. The procedure of marking planted fish has considerable value in determining the percentage contribution of hatchery stock to the anglers' creels. Also, by using marking procedures we were able to find out which lakes in the Parks lacked sufficient natural trout reproduction so that recruitment to the population depended on hatchery plantings. By monitoring the growth of marked fish of known age we were able to modify stocking programs and control the sizes of fish available to anglers. In this way we were able to provide fish that

appealed to the visitor anglers, especially at those waters where only hatchery fish were available. We were not particularly interested in providing trophy-sized fish. Rather, we felt it was more important that there be a good supply of smaller specimens which would appeal to the average family tourist angler. The use of marked trout allowed us to evaluate the catchability of hatchery fish compared to the naturally spawned product through comparisons observed when analysing creel census data.

Planting Quebec Red trout

At first glance it would seem that the planting of Quebec Red trout offered nothing as a contribution to mountain Park waters that could not be supplied by native species, except perhaps a special angler appeal. That was not the case. Dolly Varden are found in almost every stream in the mountain Parks and in many lakes as well. There were areas where populations of that species appeared to be in a low supply. We tried to provide assistance by raising them in the hatchery for release in those places where they were needed, but we soon discovered the task was not easy. In fact, we were unable to obtain Dolly Varden eggs. We tried trapping spawning runs. We captured wild adult fish and brought them to the hatchery as brood stock. In each case we failed to obtain any quantity of eggs.

Then we were offered some marstoni (Quebec Red trout) eggs. That species is a close relative of the Dolly Varden, which is often considered to be a subgroup of Arctic char. Placed side by side the two species can scarcely be distinguished except by a skilled taxonomist. The eggs were accepted and the resultant fry planted in several areas already containing Dolly Varden populations. In addition, some were stocked in two very small

isolated lakes where there were no other fish. We expected to be able to distinguish the adults later at maturity by the brilliant red colouring of the red trout compared to the more somber appearance of Dolly Varden. No trace was ever found of the fry planted in Dolly Varden waters. Survival was good in the two isolated lakes but no natural reproduction took place. When it became evident the Quebec Red trout would not supplement Dolly Varden production, the populations in the two small Block Mountain Lakes were left to vanish from lack of natural propagation. They have since been replaced by stocked native cutthroat trout.

Planting Atlantic salmon

When studying past records of fish stocked in mountain Park waters it was noted that Atlantic salmon had been released in Lake Minnewanka as long ago as 1915, and that considerable numbers of them continued to be stocked right up to 1923. There was no report on the results of those plantings. A decision was made to try the same species again to find out if reasons for the early failures could be found. Accordingly, in 1959, eyed eggs were planted in Vibert boxes (small plastic boxes especially designed for stocking trout and salmon eggs in the gravel of stream bottoms) in riffles in the Cascade River and some of its tributaries. More eggs were planted in each of the following four years, and at the same time some fry released in the smaller creeks of the Cascade drainage. The smolts would descend to Lake Minnewanka.

For several years a watch was kept over anglers' catches coming from Lake Minnewanka, and frequent gill net sets were also made. To the present, only 5 captured specimens have been definitely identified as salmon.

All were taken in the period 1964 to 1969. Evidence of the development of a breeding population has not been found. It would appear salmon have not become established. No reason could be found for the failure of the species to establish a self-propagating population. I believe a greater initial success would have been possible had we been able to stock yearling fish in substantial numbers. There may have been so few survivors from the plantings that reproduction was not possible. The project was not continued because Lake Minnewanka already contains a good lake trout population which anglers are learning to exploit more successfully than in the past.

Atlantic salmon were also tried unsuccessfully in several other Park lakes.

Planting splake

When park warden E. Stenton produced the hybrid between the brook trout and the lake trout (*Salvelinus fontinalis* X *S. namaycush*), called splake, in Banff National Park in 1946 (Stenton 1950) he provided a most intriguing fish for the fisheries managers to examine. Both parent species were already firmly established in Park waters, so the hybrid was not considered to be too exotic. Nothing was known of the splake in terms of returns to the anglers from planted stock, or sporting qualities. We wanted to learn something of its survival capabilities in a variety of habitats, the effects of hybrid vigour on its survival ability, its adaptability to conditions found in different types of lakes, its longevity and its success in reproduction. The results of the investigations are the subject of a separate report (Ward, in preparation). The lakes still stocked

with splake are Pyramid in Jasper National Park, Moraine in Banff National Park, and Wapta in Yoho National Park. Hybrid populations are maintaining themselves by natural reproduction in Agnes and Turquoise Lakes in Banff National Park.

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APPENDICES

- Appendix A - Location reference maps for lakes in the mountain National Parks
- Appendix B - Maps illustrating fish species distributions in lakes of the mountain National Parks
- Appendix C - Historical records showing year of first trout plantings in lakes of the mountain National Parks
- Appendix D - Checklist of fish species and latitude and longitude positions for lakes in the mountain National Parks

Abbreviations used in appendix tables

RB - Rainbow trout	<i>Salmo gairdneri</i>
CUTT - Cutthroat trout	<i>Salmo clarki</i>
EBT - Brook trout	<i>Salvelinus fontinalis</i>
LT - Lake trout	<i>Salvelinus namaycush</i>
SPL - Splake	<i>S. fontinalis X S. namaycush</i>
DV - Dolly Varden	<i>Salvelinus malma</i>
LNS - Longnose sucker	<i>Catostomus catostomus</i>
WS - White sucker	<i>Catostomus commersoni</i>
CHUB - Lake chub	<i>Couesius plumbeus</i>
RMW - Mountain whitefish	<i>Prosopium williamsoni</i>
LW - Lake whitefish	<i>Coregonus clupeaformis</i>
CISCO - Cisco	<i>Coregonus artedii</i>
NP - Northern pike	<i>Esox lucius</i>
LING - Burbot	<i>Lota lota</i>
STICK - Stickleback	<i>Culaea inconstans</i>
SC - Sculpins	<i>Cottidae</i>

Appendix A

LOCATION REFERENCE MAPS FOR LAKES IN THE MOUNTAIN NATIONAL PARKS

Jasper National Park

- South-west section - Map 1
- South-east section - Map 2
- North section - Map 3

Banff National Park

- South-east section - Map 4
- Central section - Map 5
- North section - Map 6

Waterton Lakes National Park

- Western section - Map 7
- Eastern section - Map 8

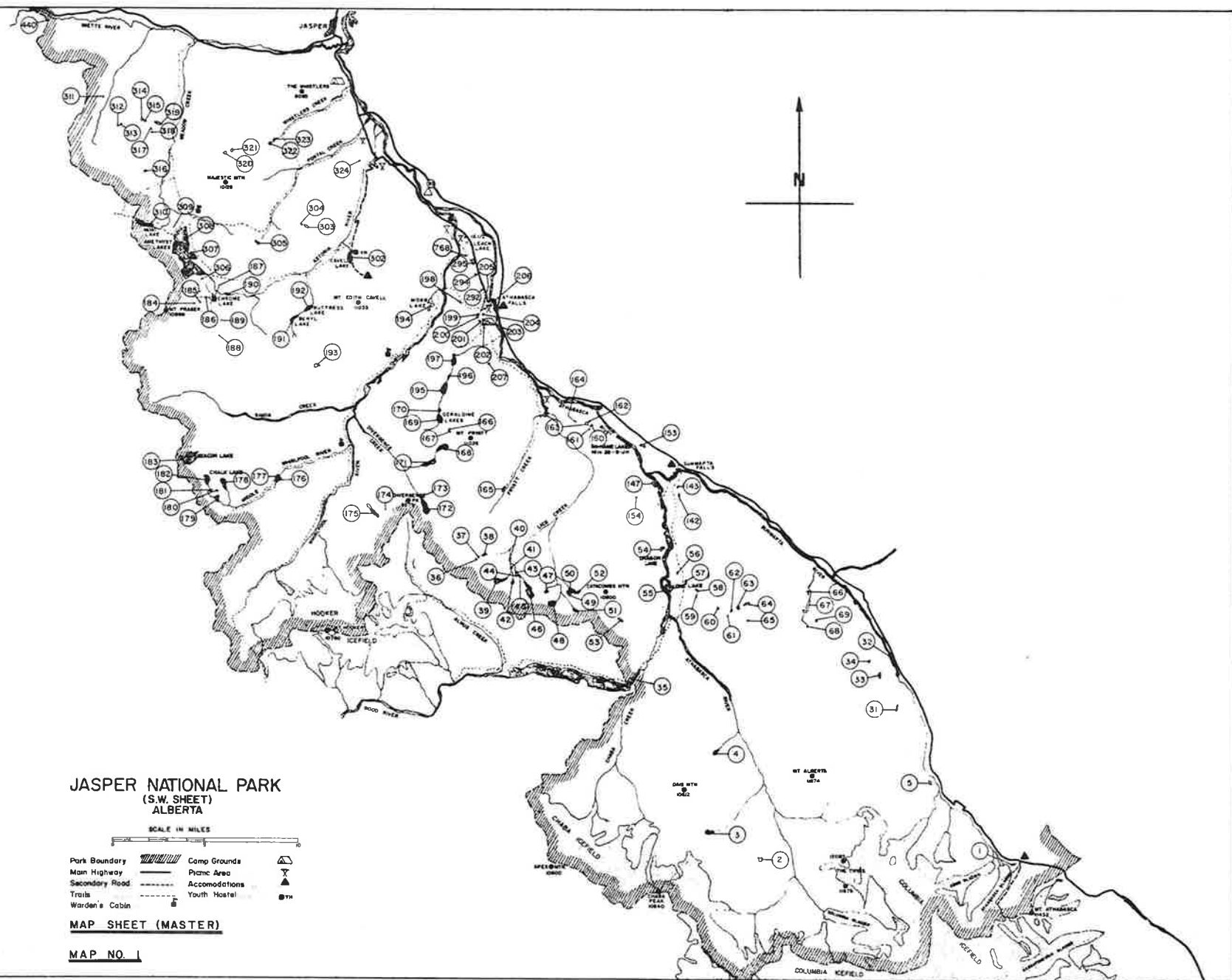
Yoho National Park - Map 9

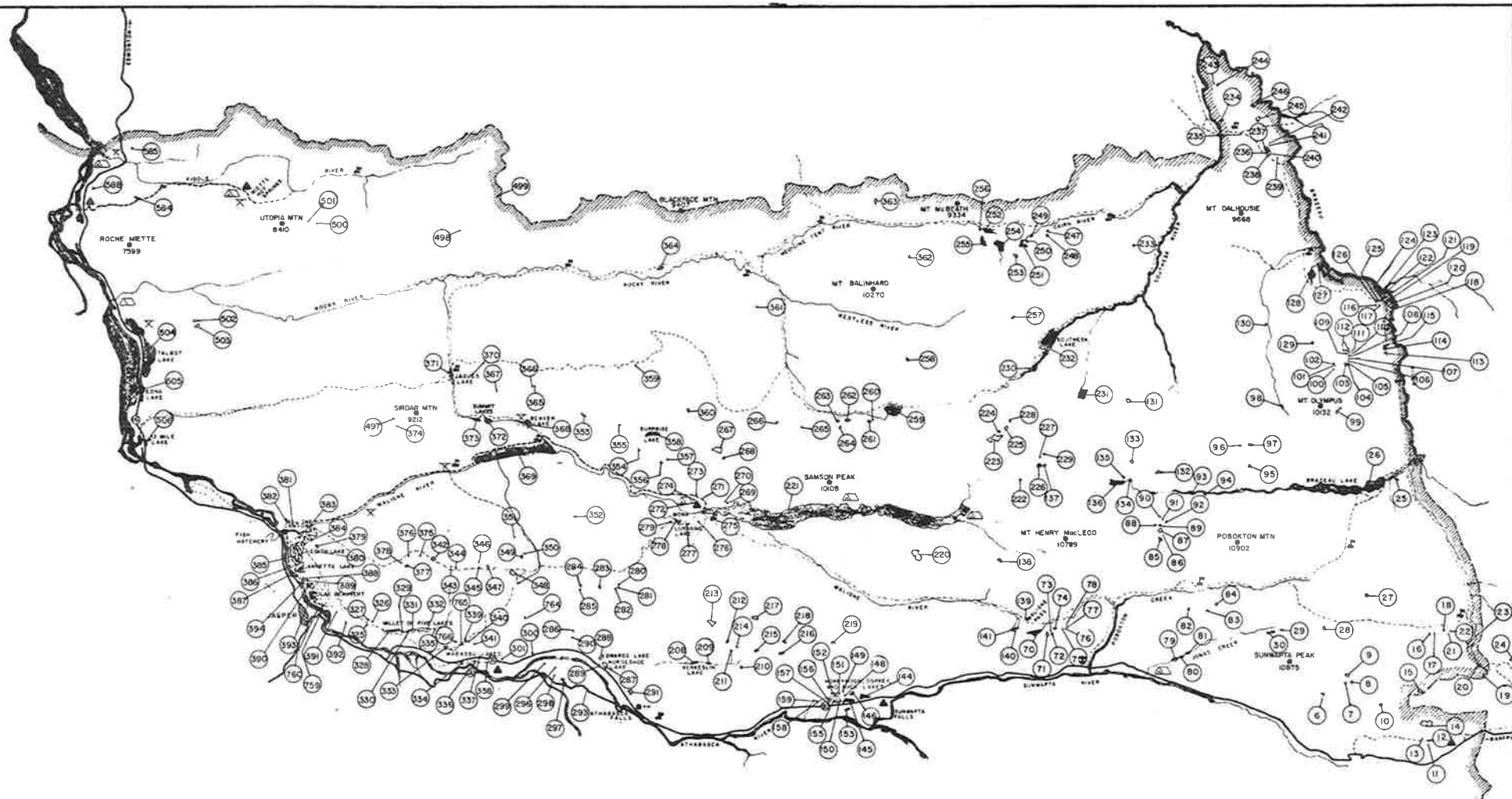
Kootenay National Park

- South-west section - Map 10
- North-west section - Map 11

Mount Revelstoke National Park - Map 12

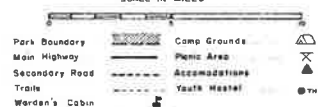
Glacier National Park - Map 13





JASPER NATIONAL PARK
(S.E. SHEET)
ALBERTA

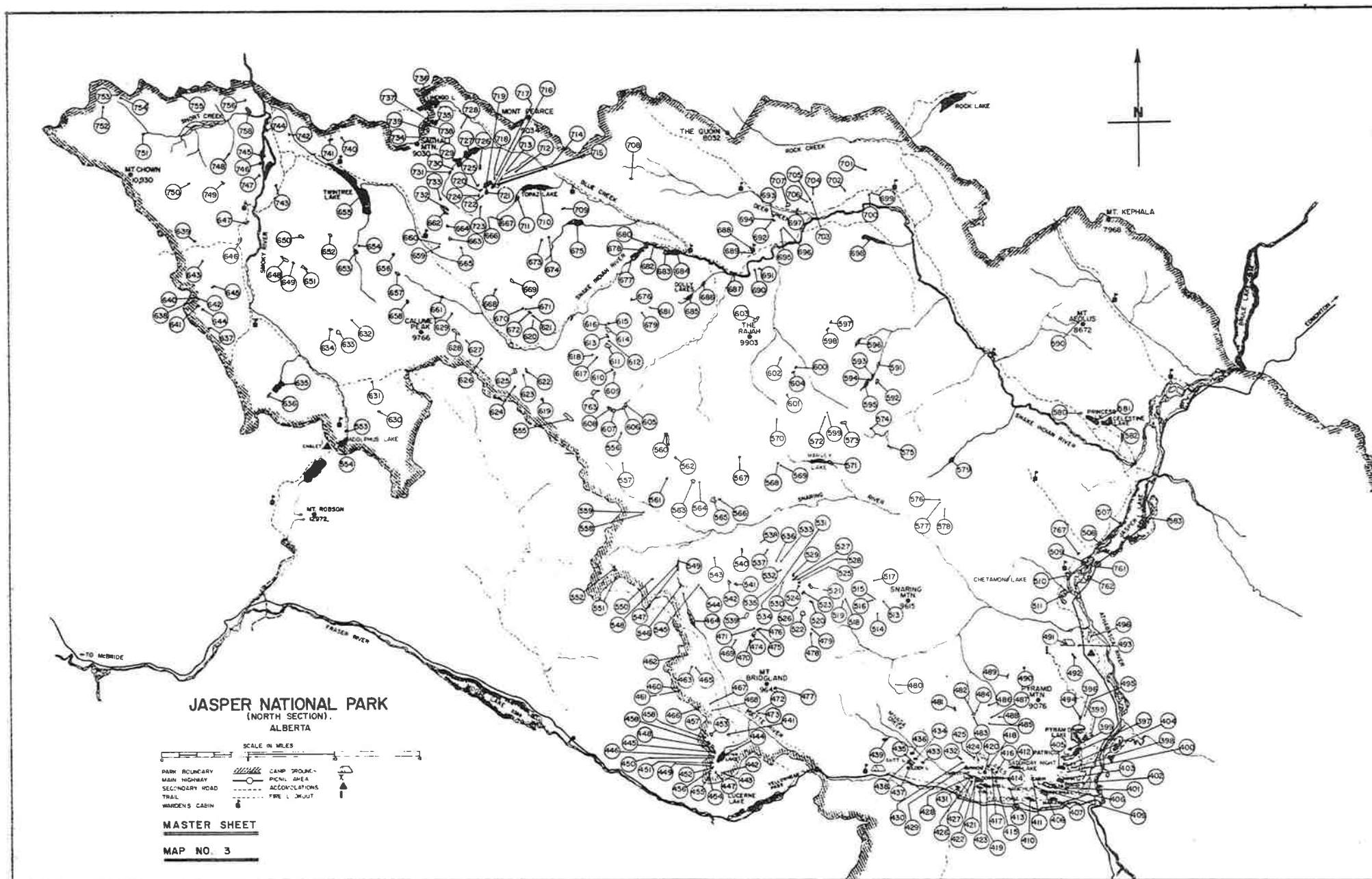
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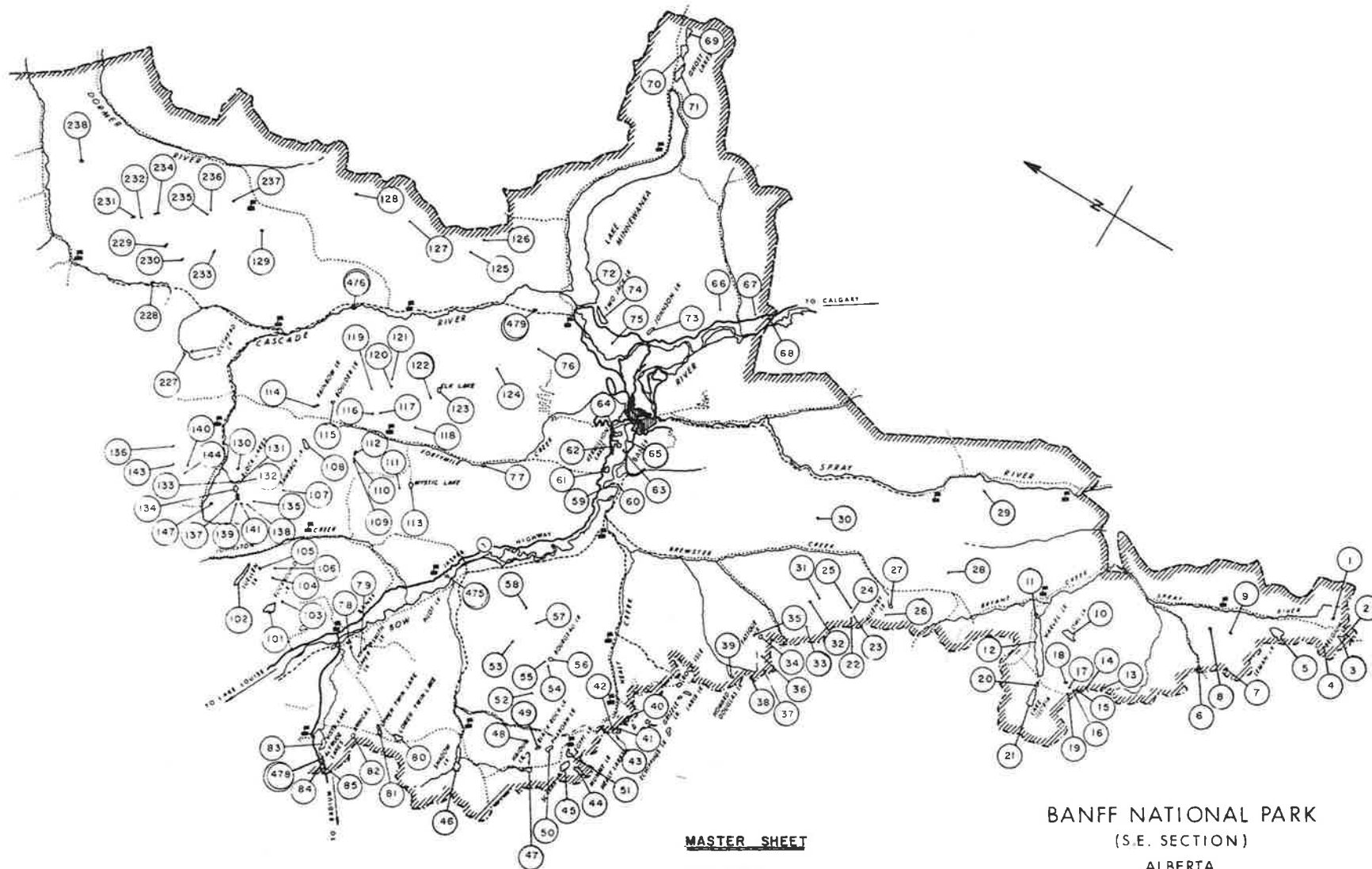


MASTER SHEET

MAP NUMBER 2

















BANFF NATIONAL PARK (S.E. SECTION)

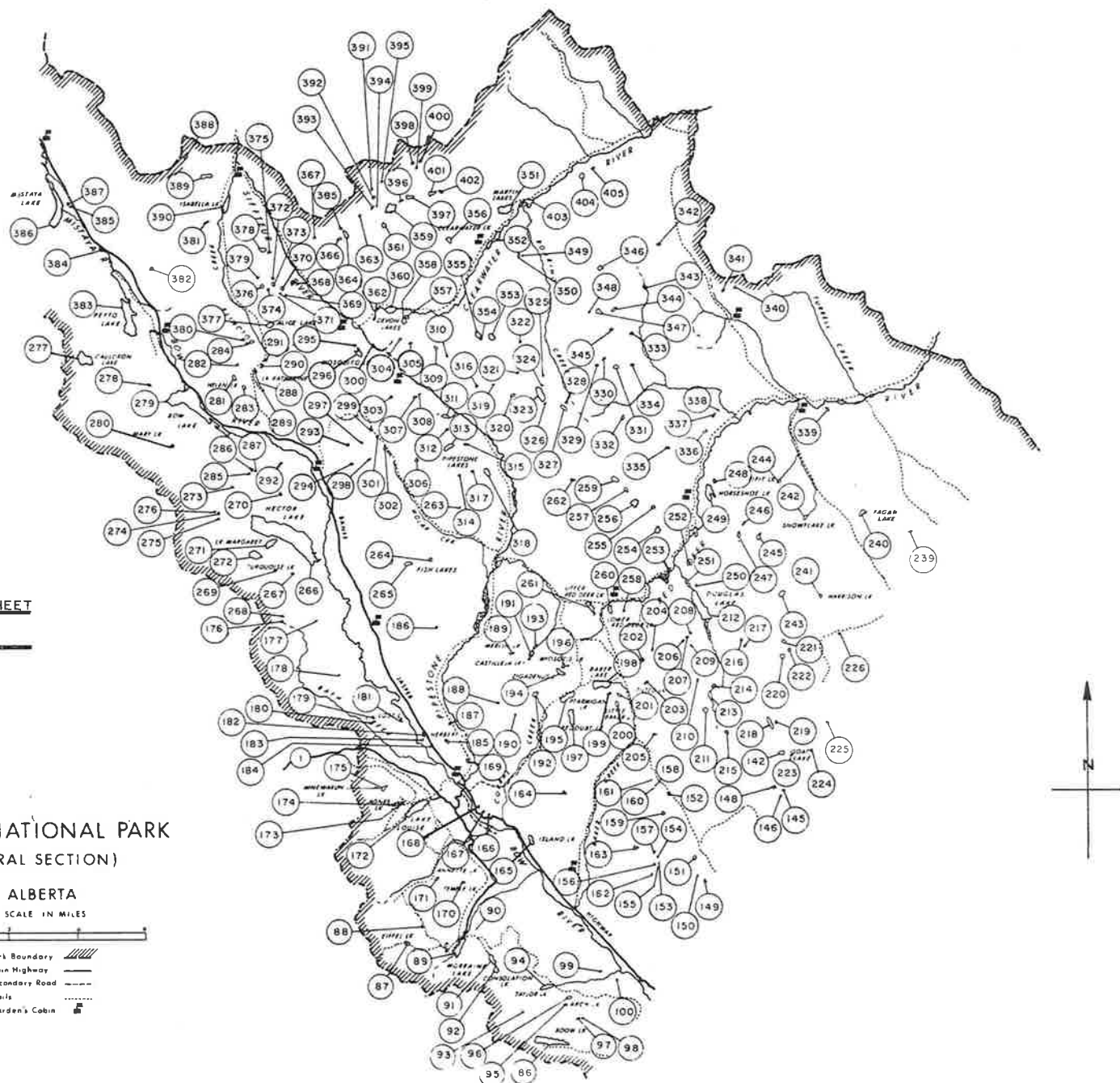
ALBERTA
SCALE IN MILES

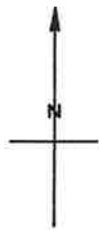


Park Boundary 
Main Highway 
Secondary Road 
Trails 
Warden's Cabin 



- Park Boundary 
 Main Highway 
 Secondary Road 
 Trails 
 Warden's Cabin 










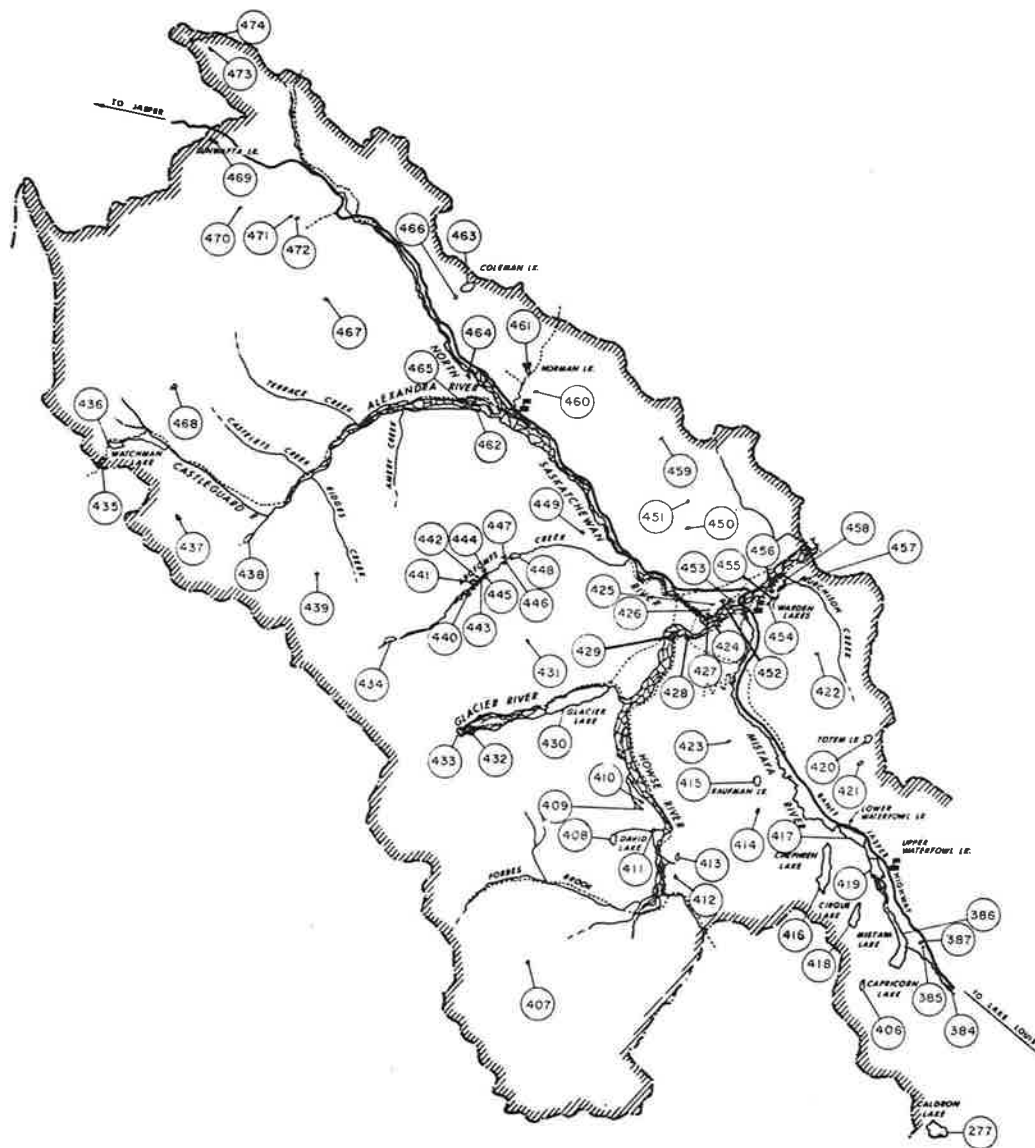
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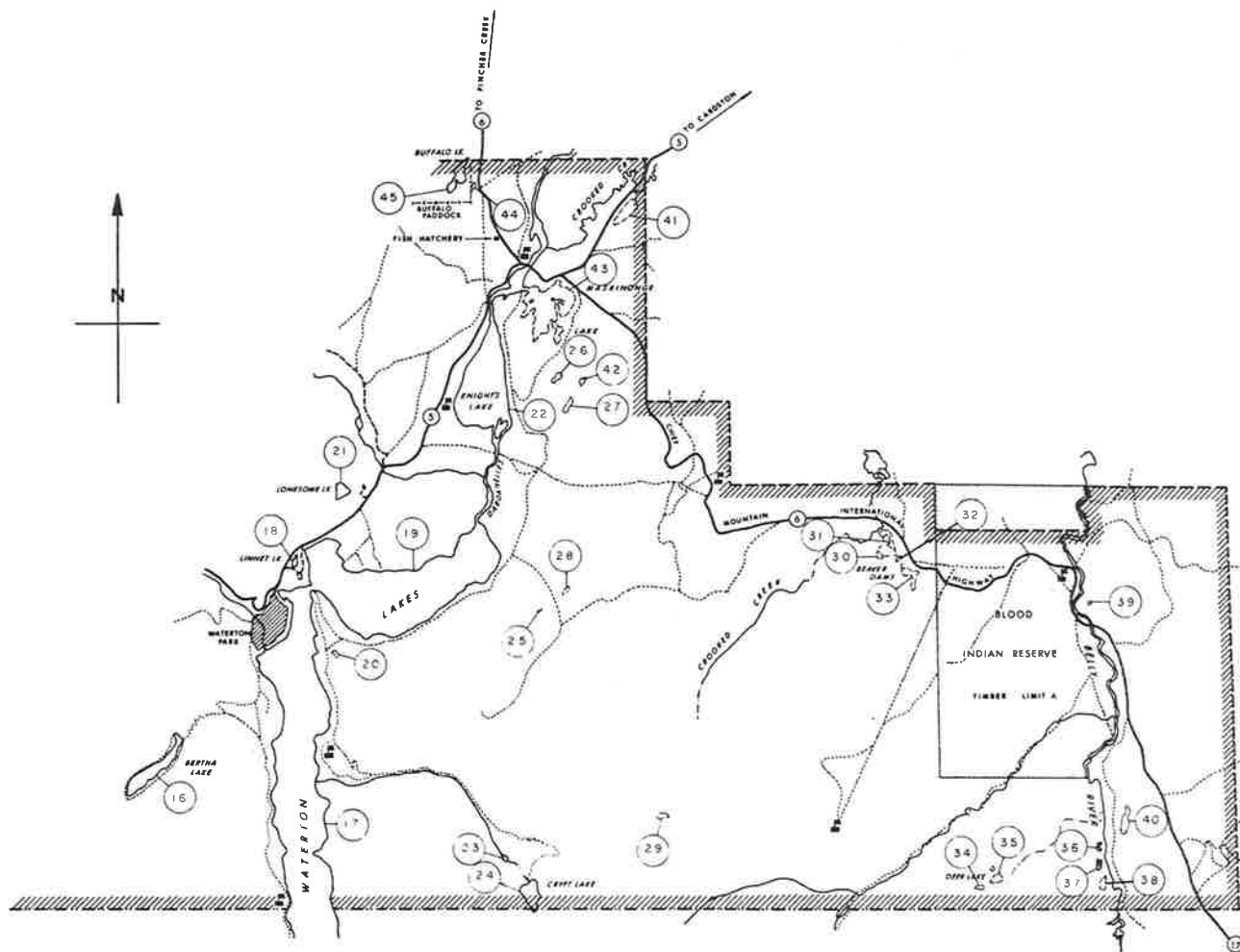
MAP NO 6

BANFF NATIONAL PARK
(N.W. SECTION)
ALBERTA

SCALE IN MILES
0 2 4

Park Boundary 
Main Highway 
Secondary Road 
Trails 
Warden's Cabin 





MASTER SHEET

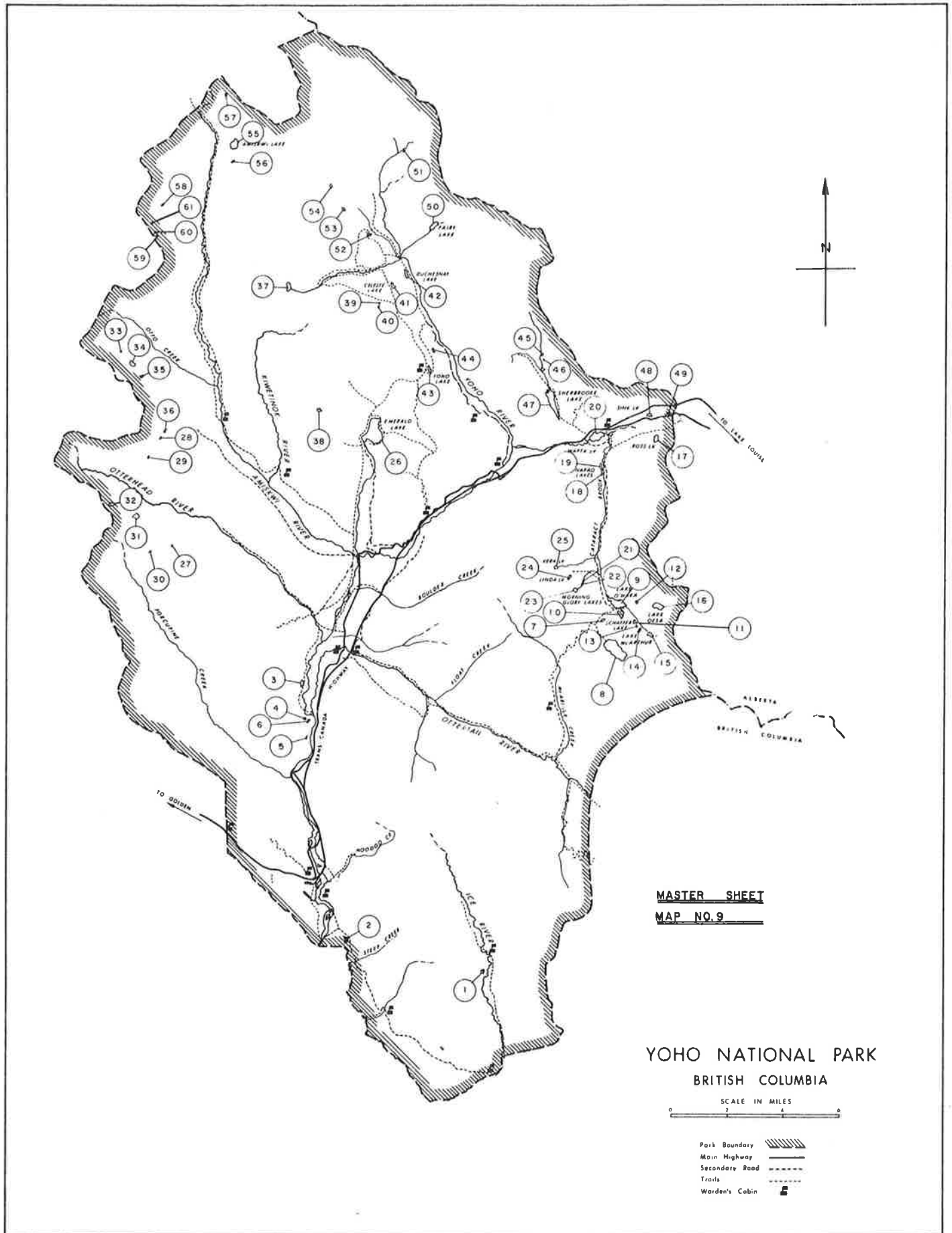
MAP NO. 8

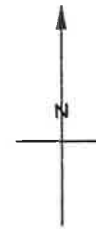
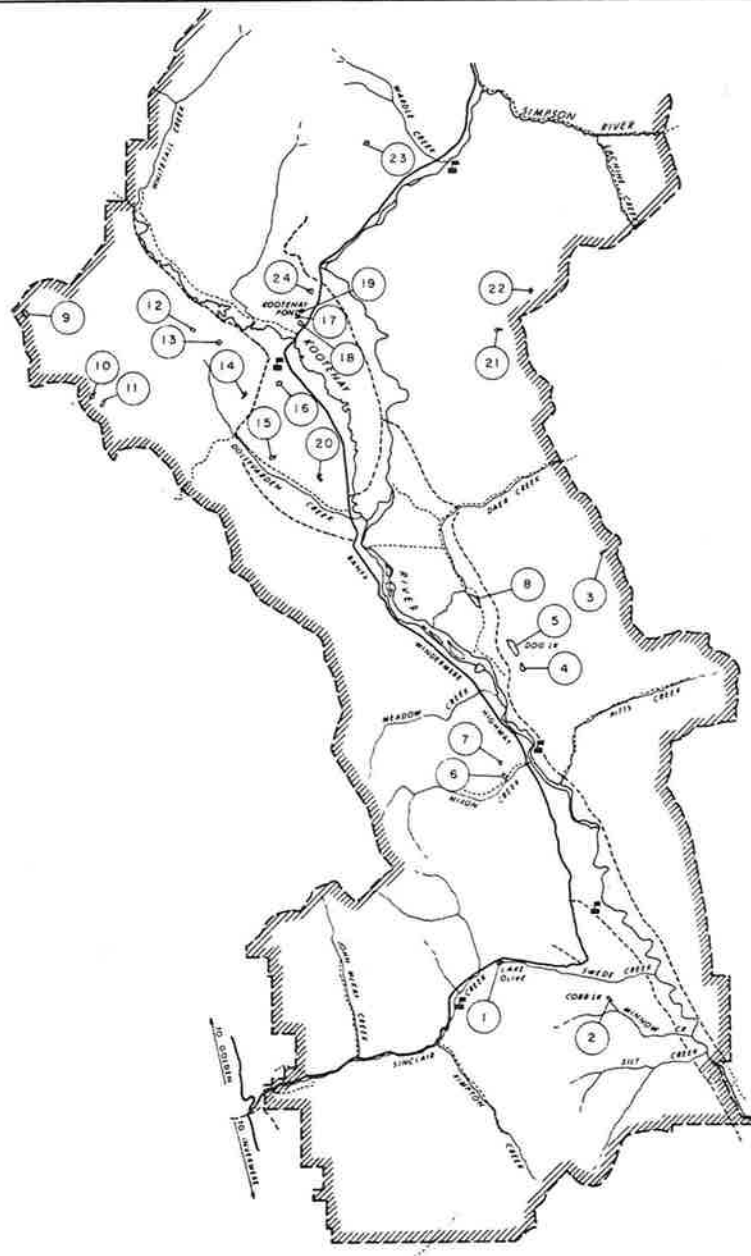
WATERTON LAKES NATIONAL PARK
EASTERN SECTION
ALBERTA

SCALE IN MILES



Park Boundary
Main Highway
Secondary Road
Trail
Warden's Cabin








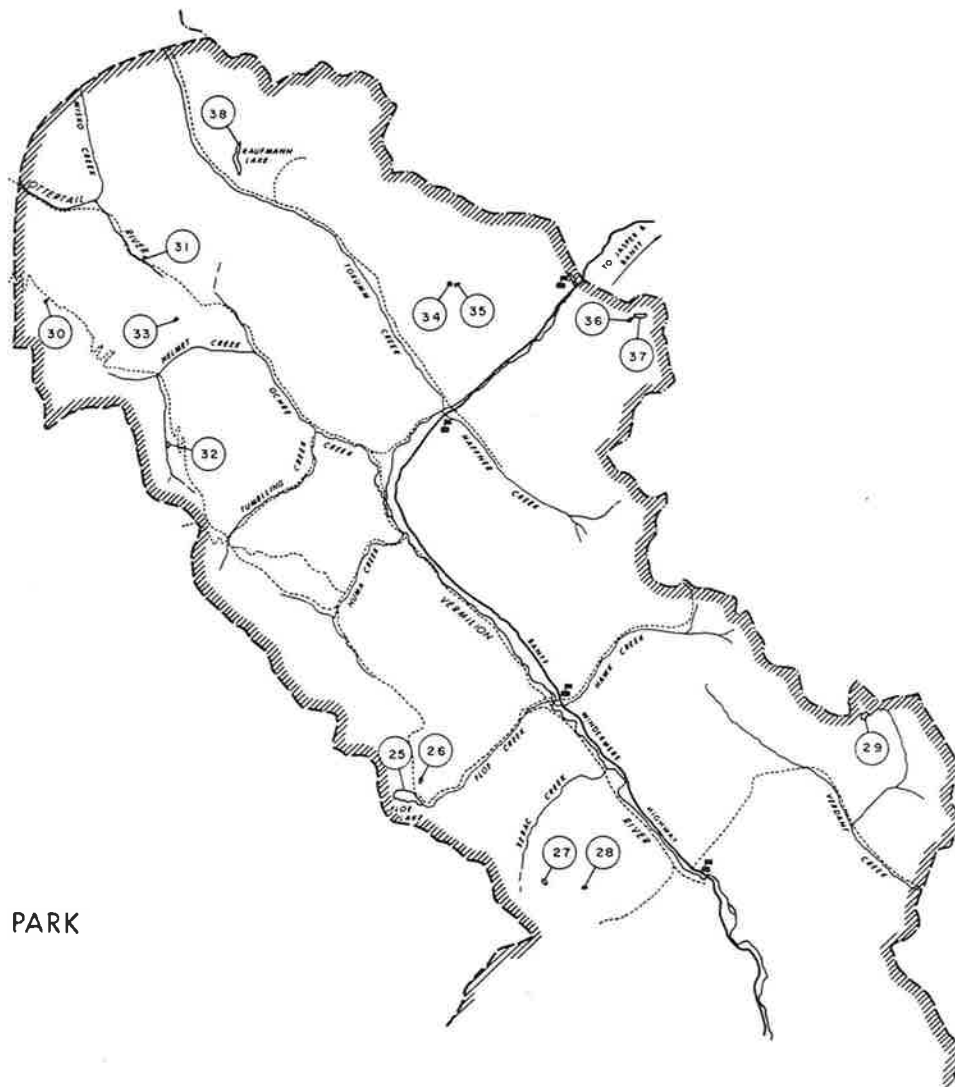


MASTER SHEET
MAP NO. 19

KOOTENAY NATIONAL PARK
(S.W. SECTION)
ALBERTA






SCALE IN MILES
0 1 2 3 4

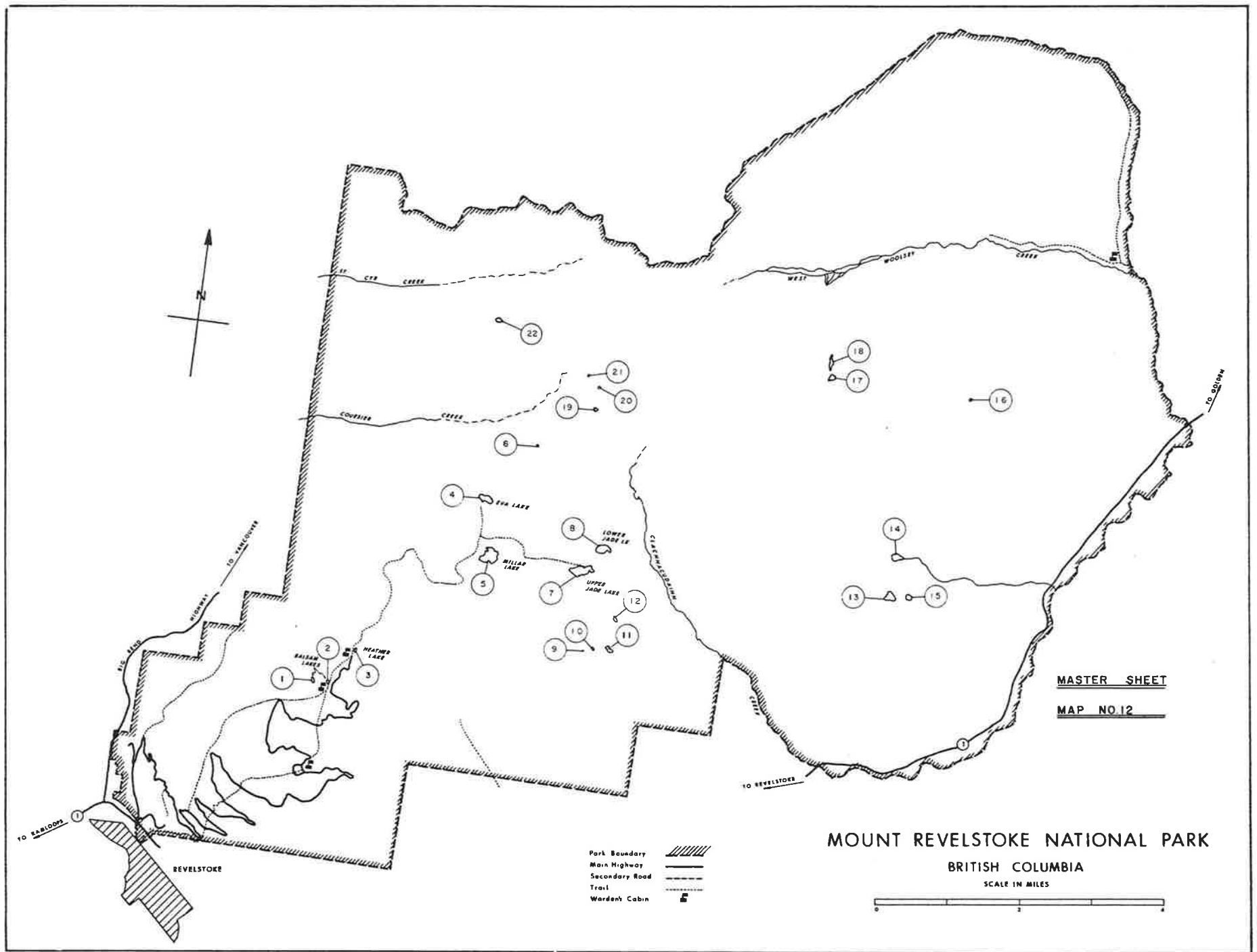
Park Boundary 
Main Highway 
Secondary Road 
Trails 
Warden's Cabin 

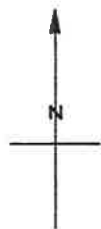


MAP NO. 11

SCALE IN MILES

Park Boundary	
Main Highway	
Secondary Road	
Trail	
Warden's Cabin	





MASTER SHEET






MAP NO. 13

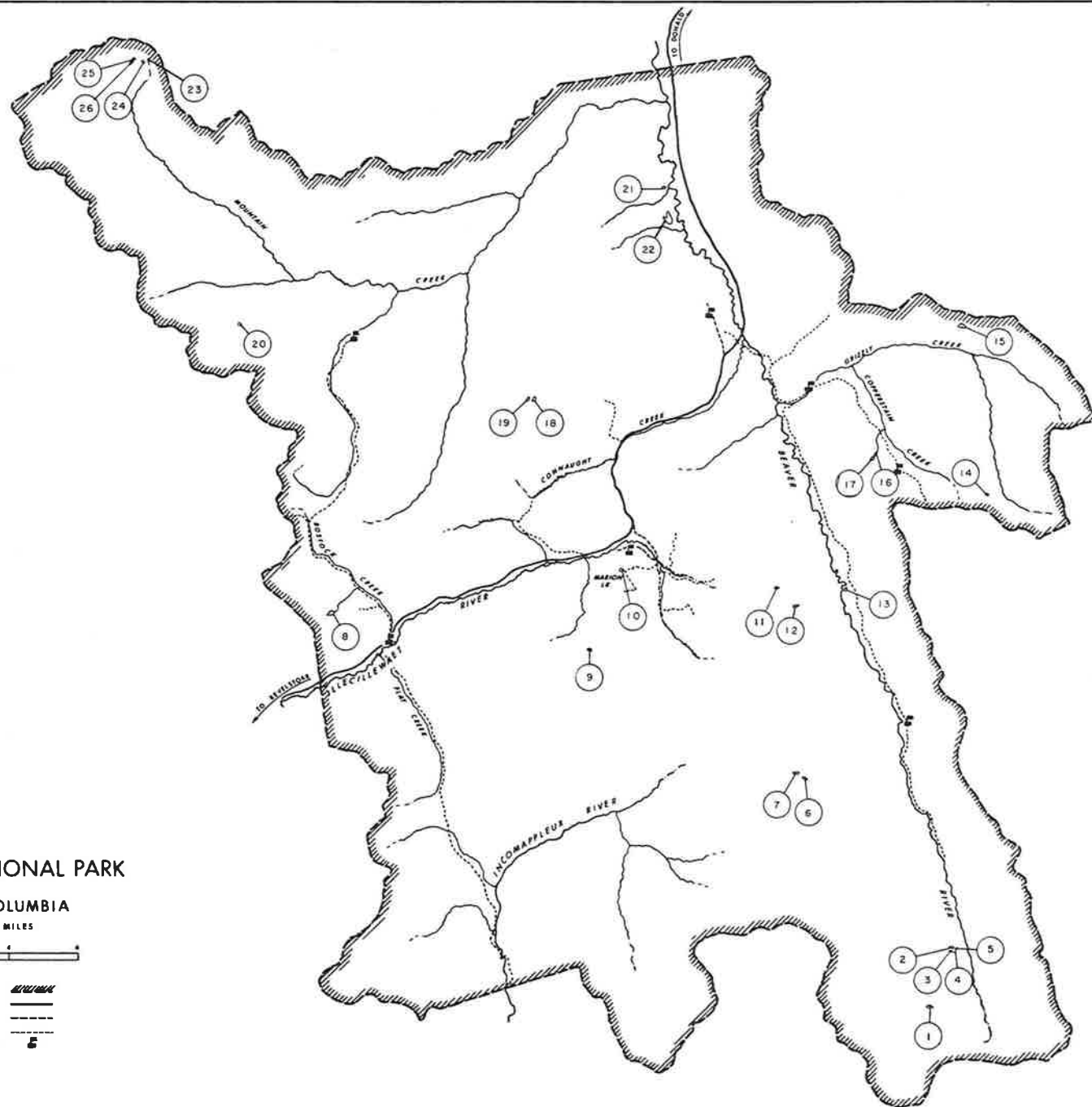
GLACIER NATIONAL PARK

BRITISH COLUMBIA

SCALE IN MILES



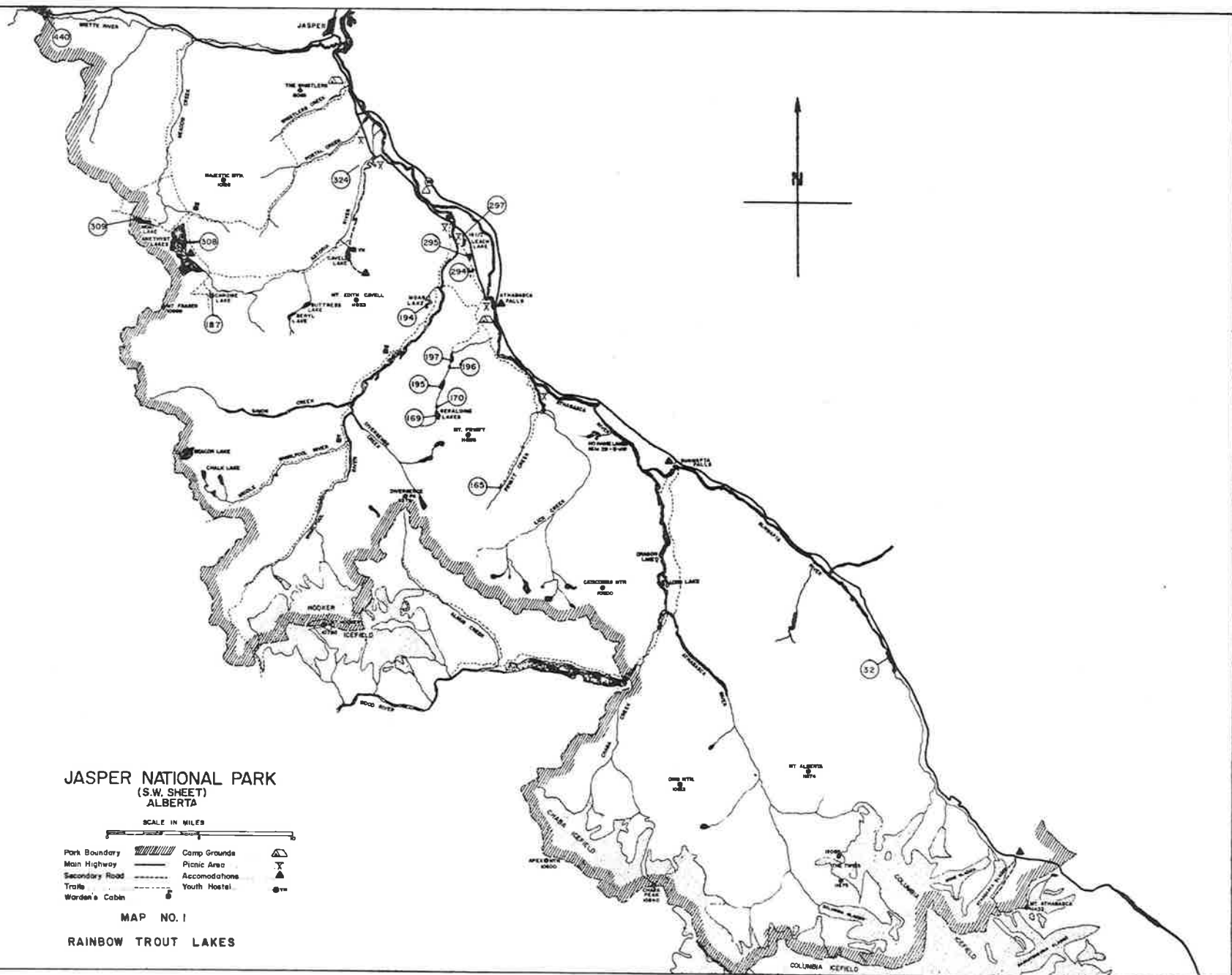
Park Boundary 
Main Highway 
Secondary Road 
Trails 
Wardens Cabin 

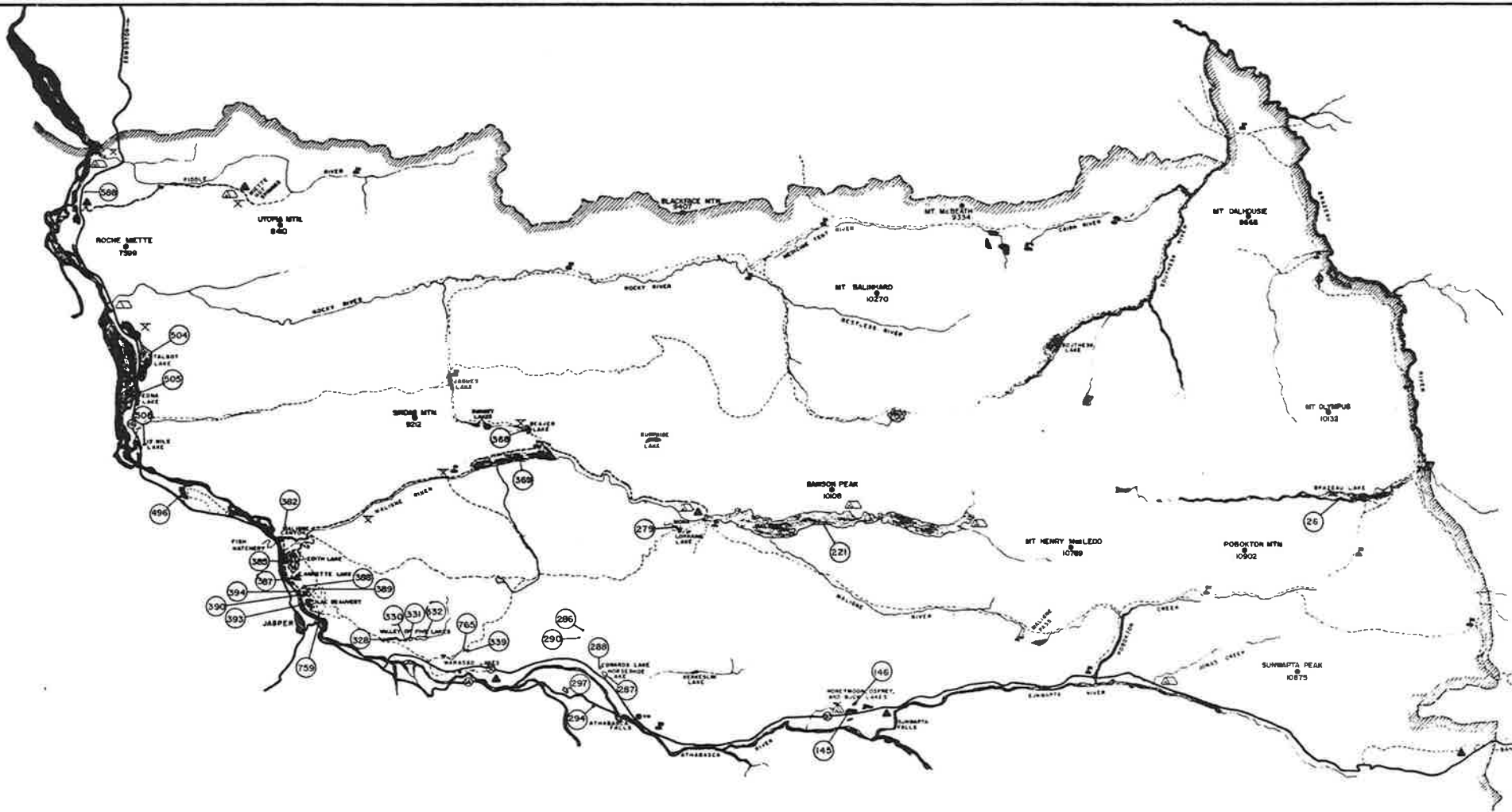


Appendix B

MAPS ILLUSTRATING FISH SPECIES DISTRIBUTIONS IN LAKES OF THE
MOUNTAIN NATIONAL PARKS

<u>Jasper National Park</u>	<u>Map numbers</u>
Rainbow trout	1,2,3
Brook trout	4,5,6
Other Salmonidae	7,8,9
Other species	10,11,12
<u>Banff National Park</u>	
Rainbow trout	16,17,18
Cutthroat trout	19,20,21
Brook trout	22,23,24
Other Salmonidae	25,26,27
Other species	28
<u>Waterton Lakes National Park</u>	
Rainbow trout	32,33
Brook trout	34,35
Cutthroat trout	36,37
Other species	38,39,40
<u>Yoho National Park</u>	
Rainbow trout	44
Brook trout	45
Cutthroat trout	46
<u>Kootenay National Park</u>	
Salmonidae - S.W. section	48
Salmonidae - N.W. section	49
<u>Mount Revelstoke National Park</u>	
Salmonidae	52
<u>Glacier National Park</u>	
Cutthroat trout	54



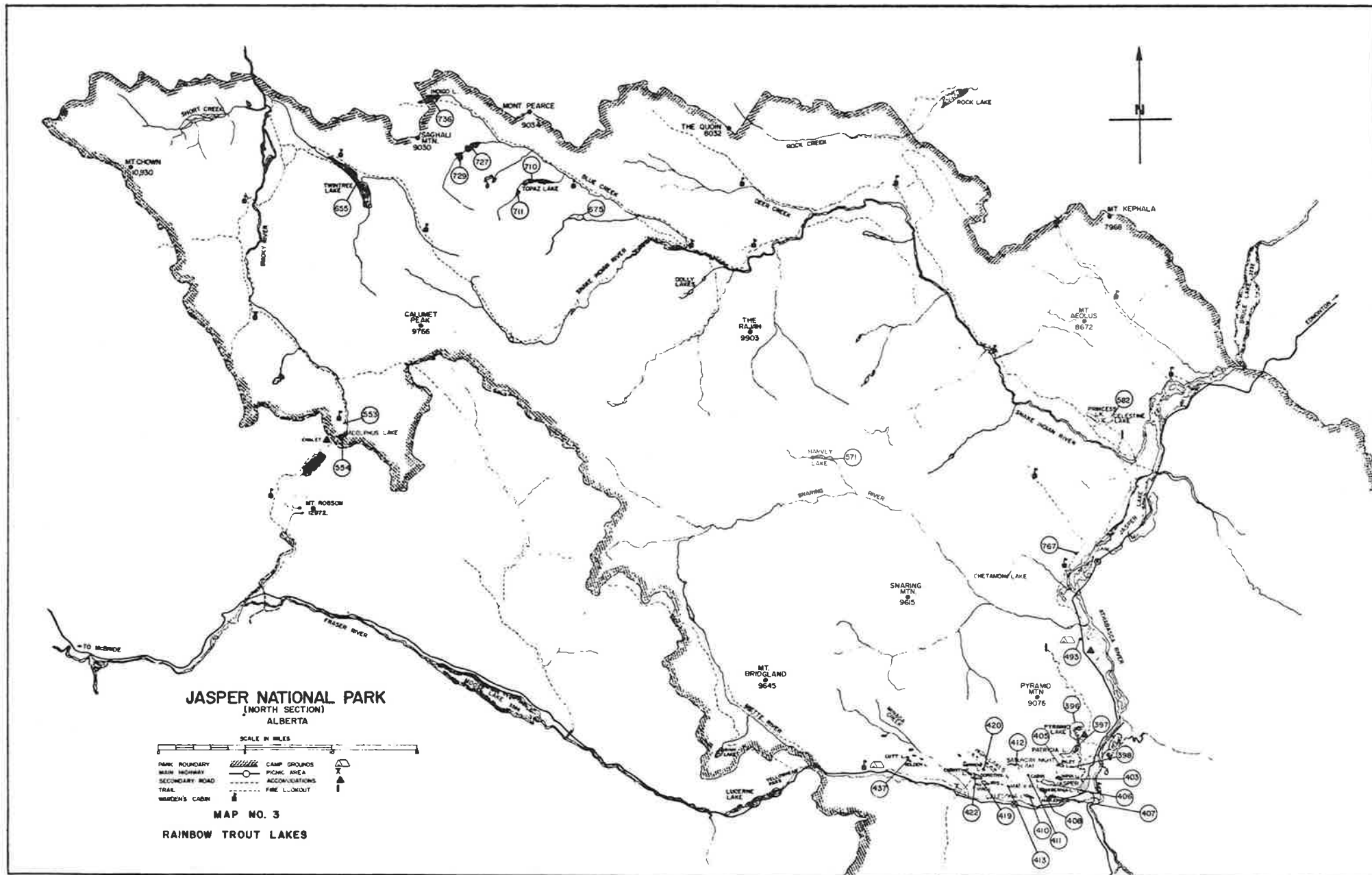


JASPER NATIONAL PARK
(S.E. SHEET)
ALBERTA
SCALE IN MILES

- | | | |
|----------------|--------------|----------------|
| Park Boundary | Camp Grounds | Trail |
| Main Highway | Panels Area | Automatons |
| Secondary Road | Automatons | Youth Hostel |
| Trails | Youth Hostel | Warden's Cabin |











MAP NO. 2

RAINBOW TROUT LAKES



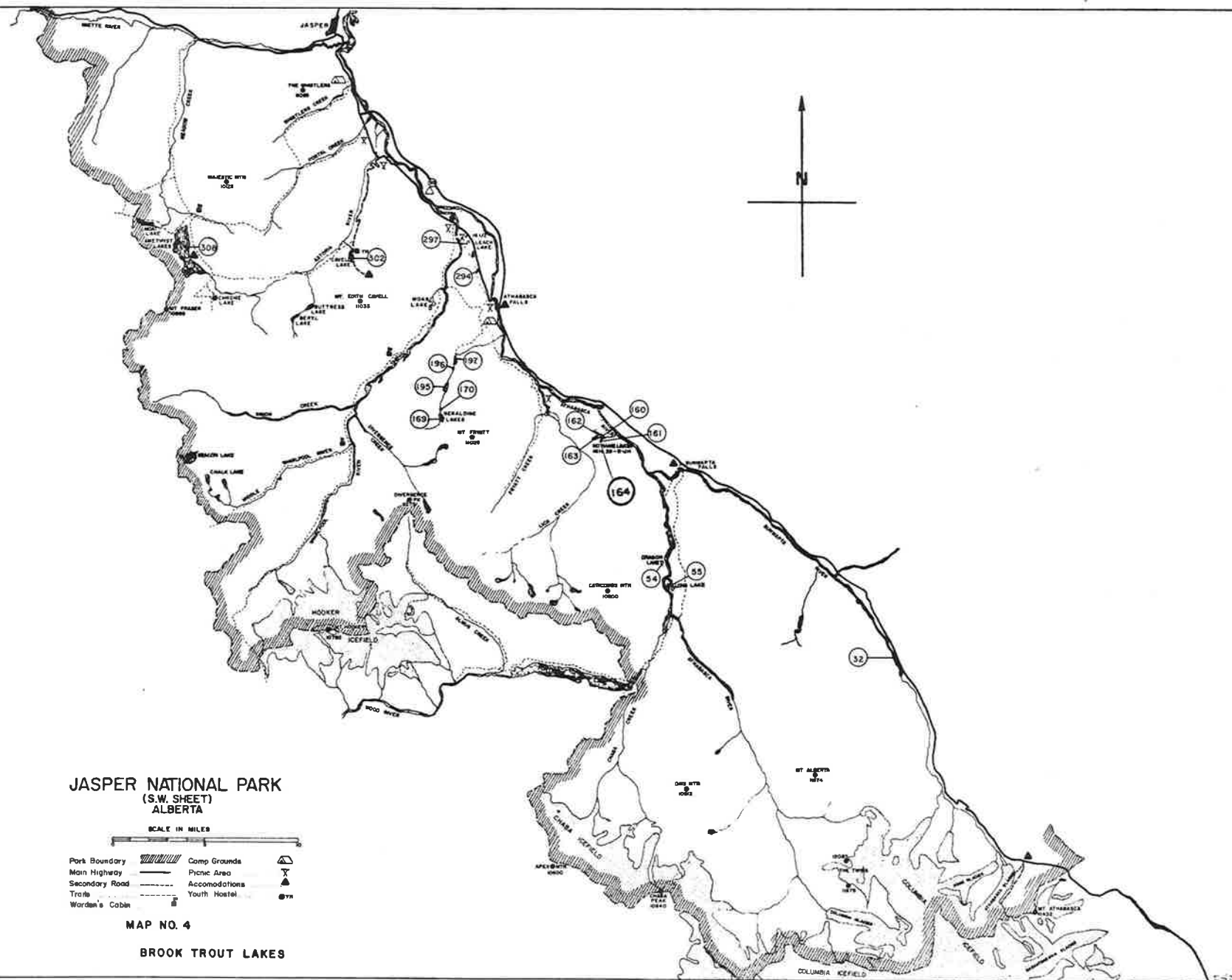
JASPER NATIONAL PARK
(S.W. SHEET)
ALBERTA

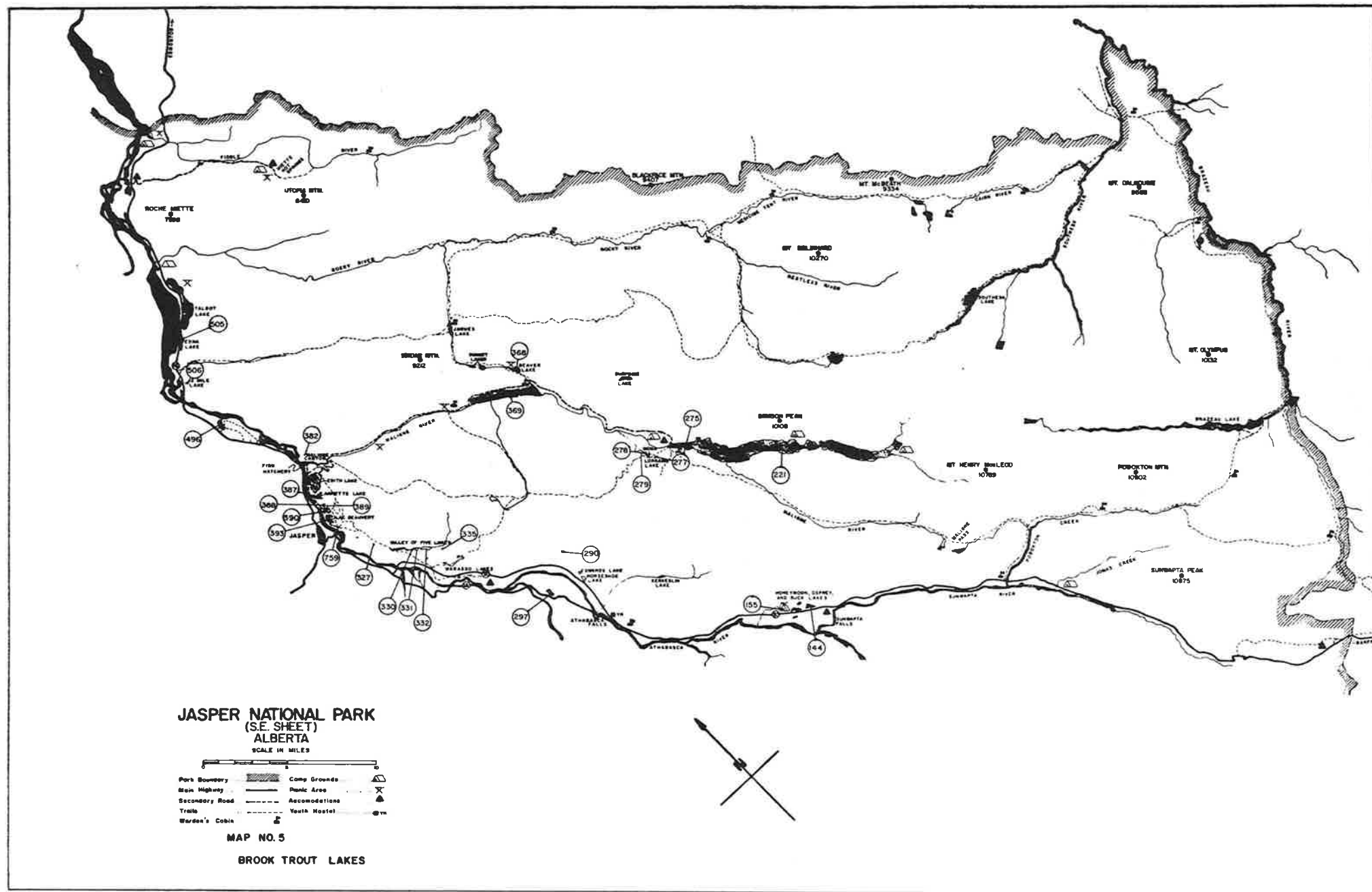
SCALE IN MILES

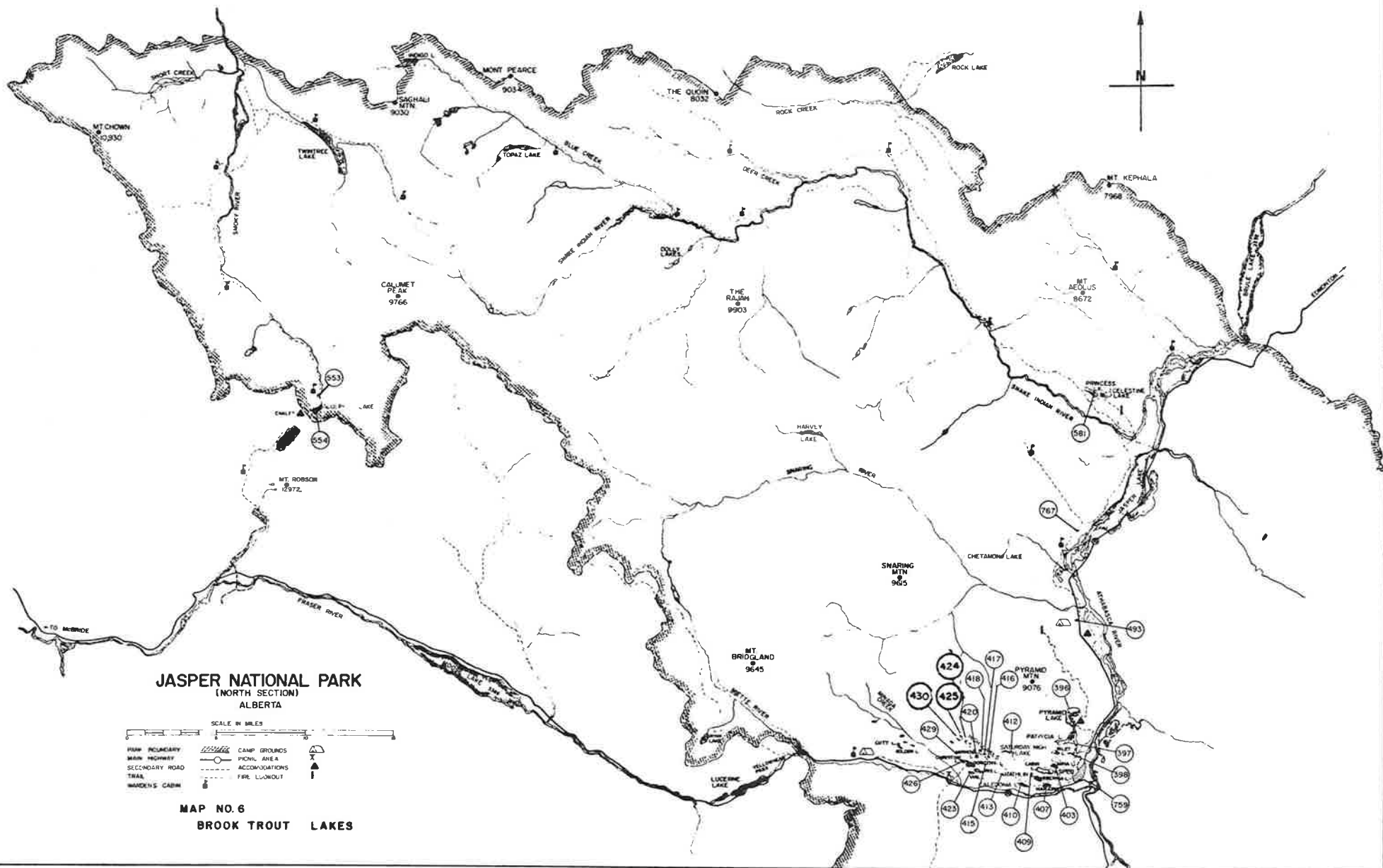
- | | | | | | |
|---|----------------|---|----------------|---|--------------|
|  | Park Boundary |  | Camp Grounds |  | Picnic Area |
|  | Main Highway |  | Accommodations |  | Youth Hostel |
|  | Secondary Road |  | Warden's Cabin |  | |
|  | Trail | | | | |

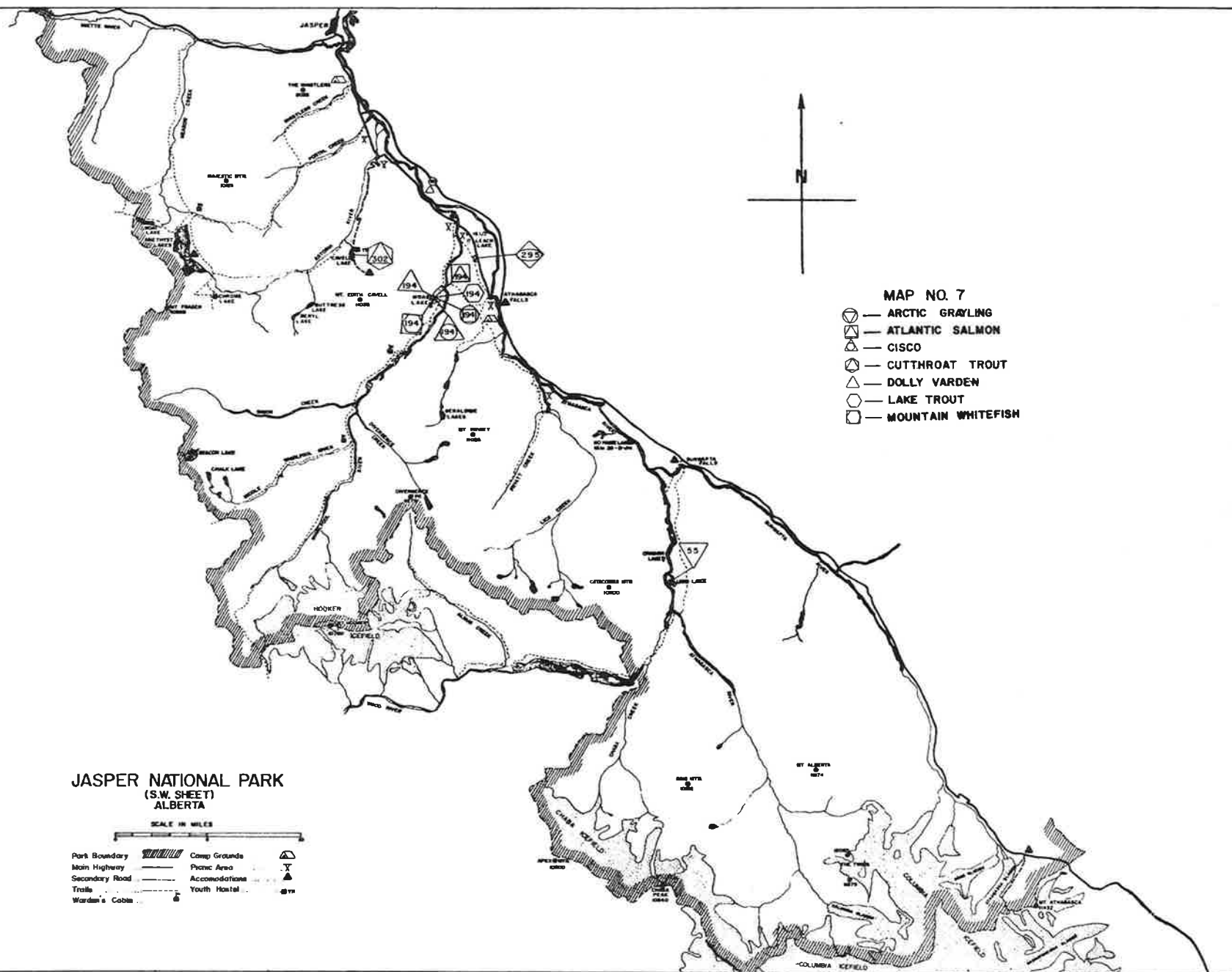
MAP NO. 4

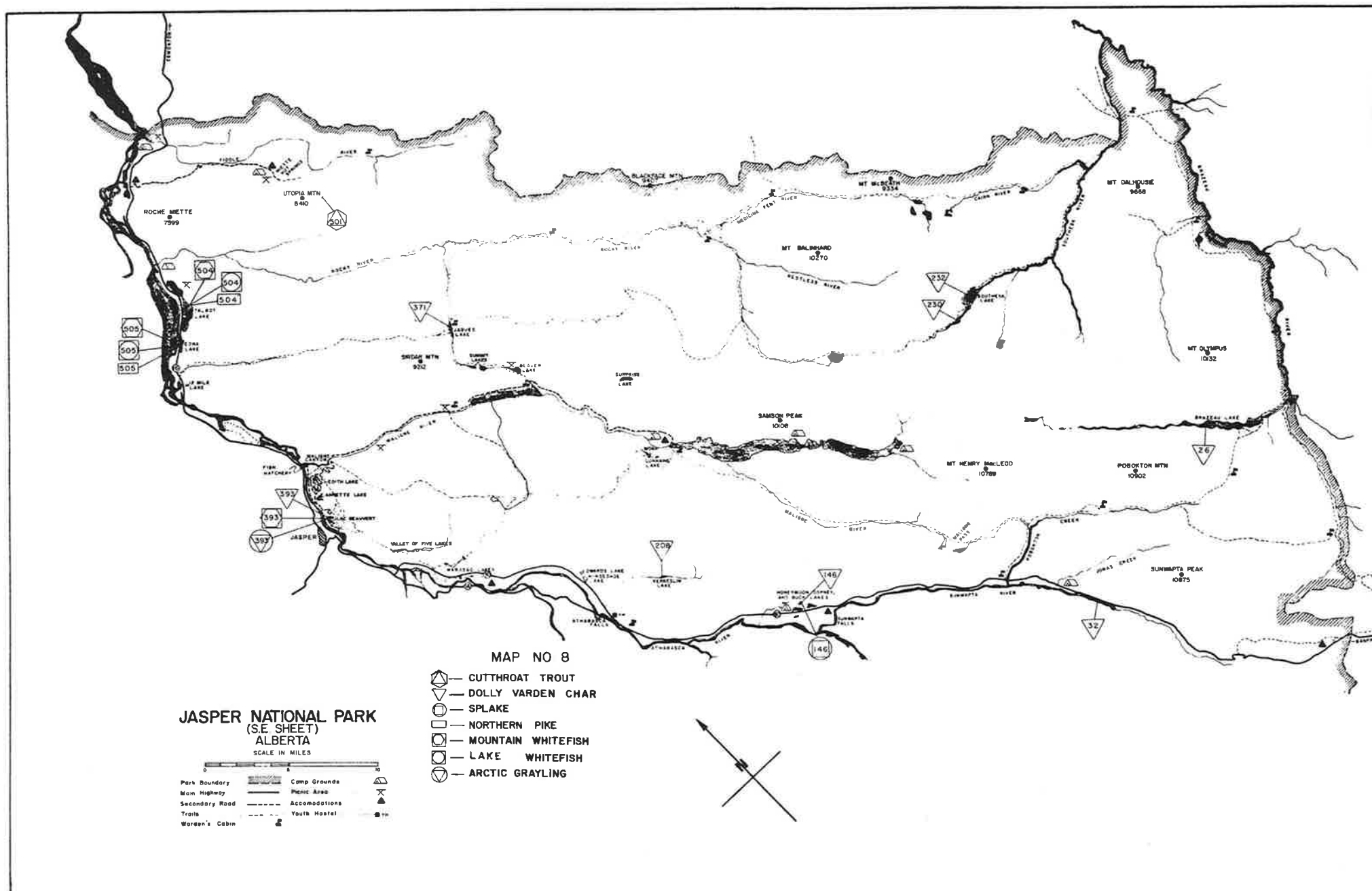
BROOK TROUT LAKES

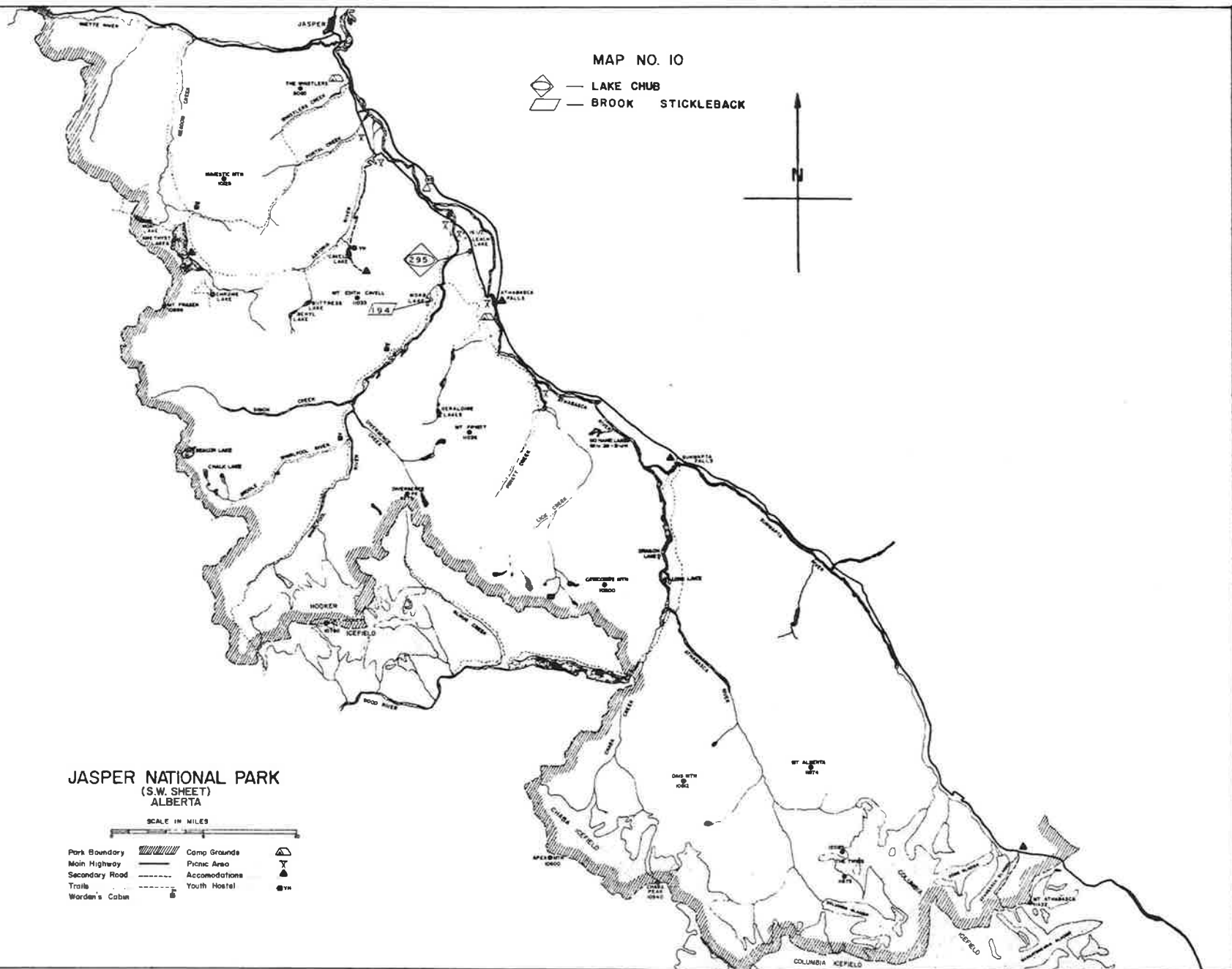


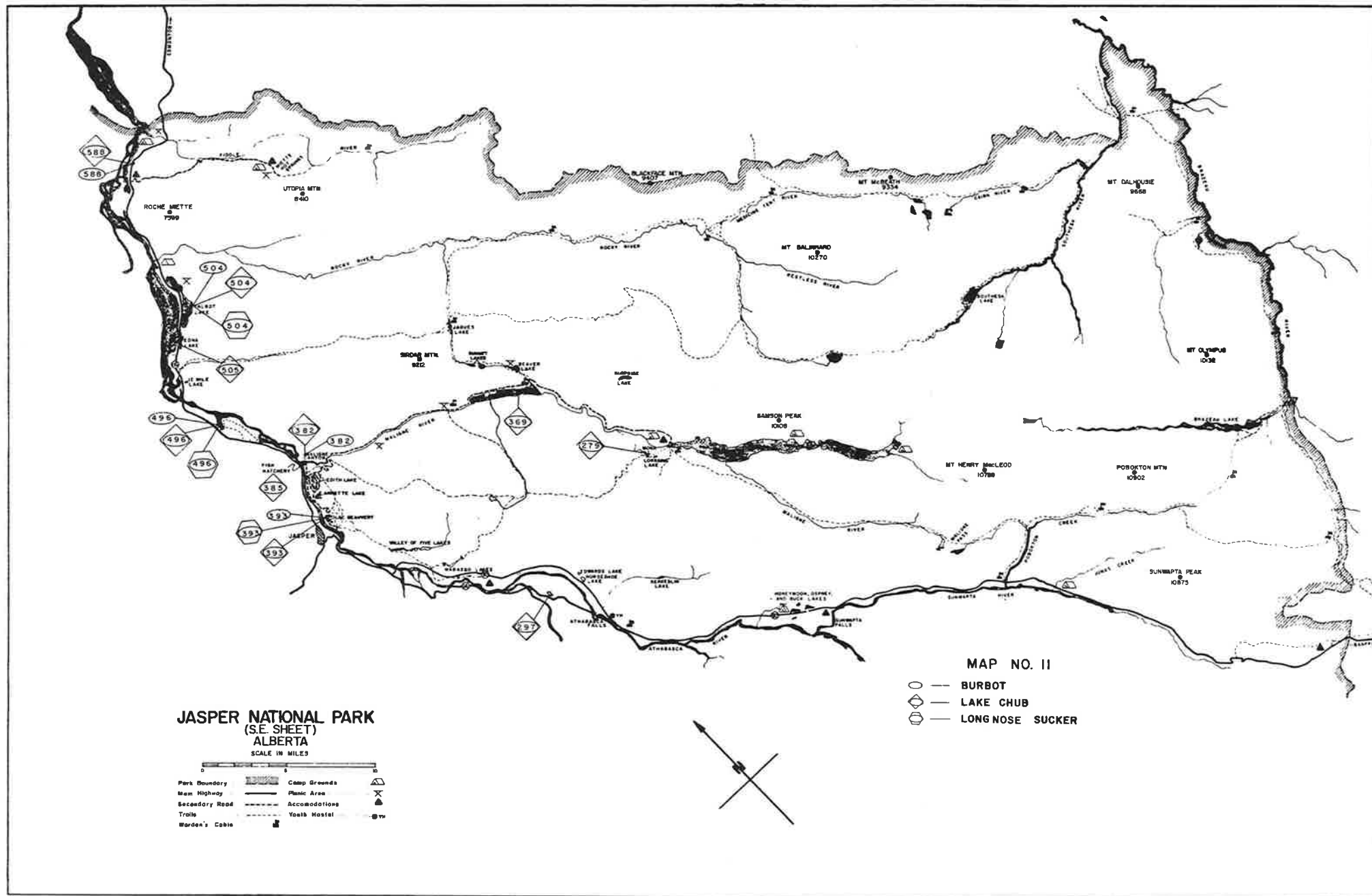


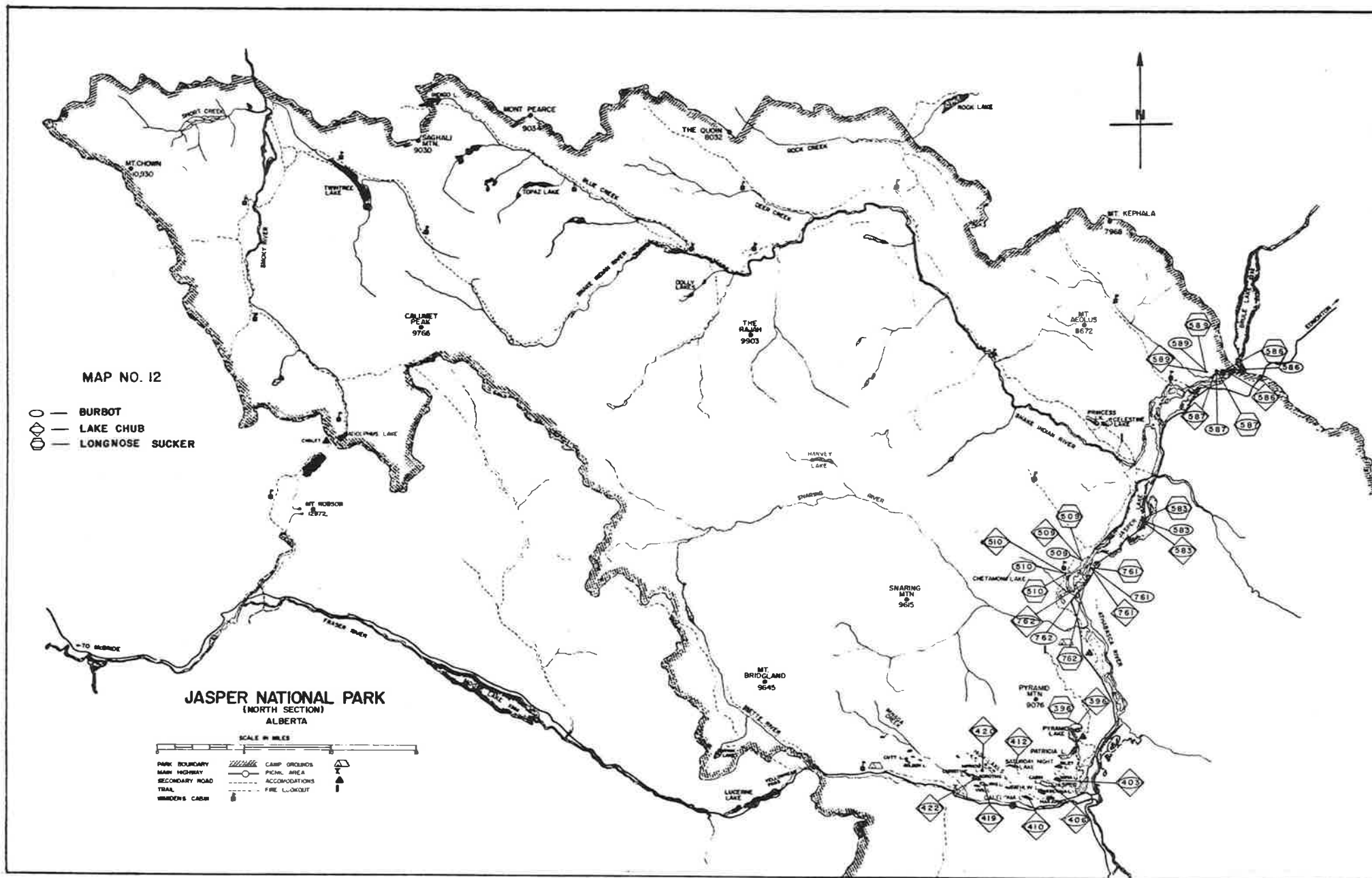


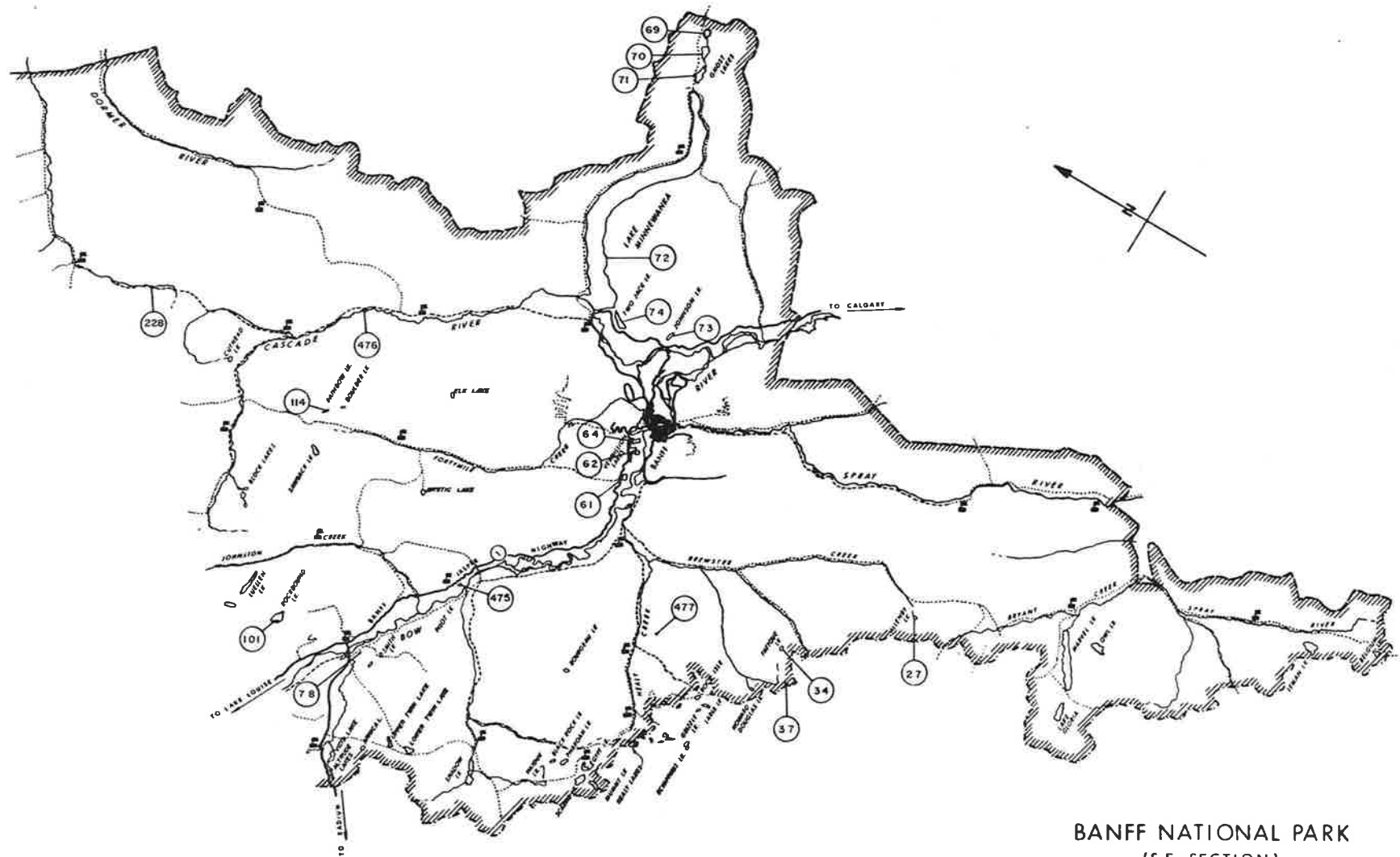












BANFF NATIONAL PARK (S.E. SECTION)

ALBERTA

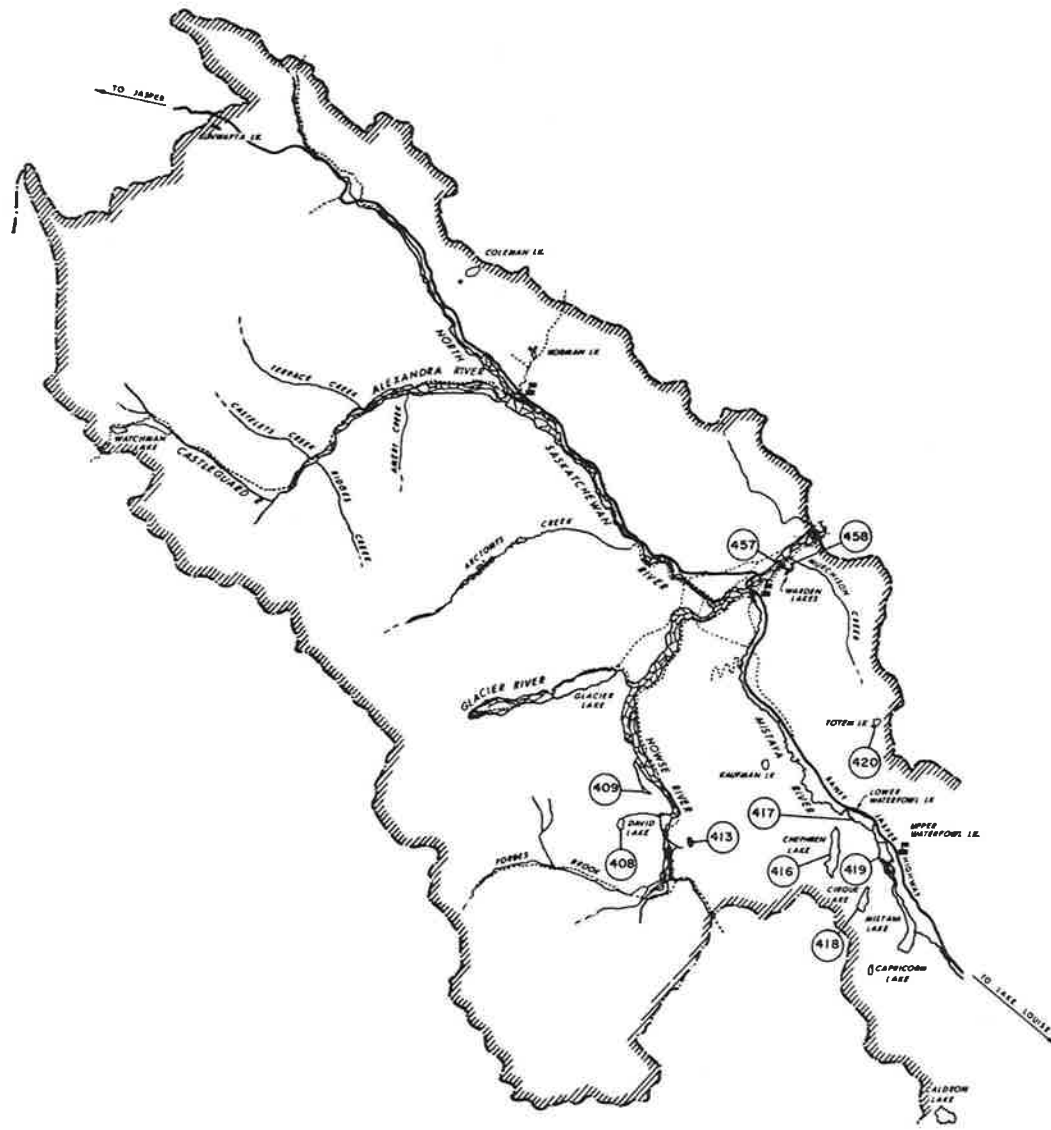
SCALE IN MILES

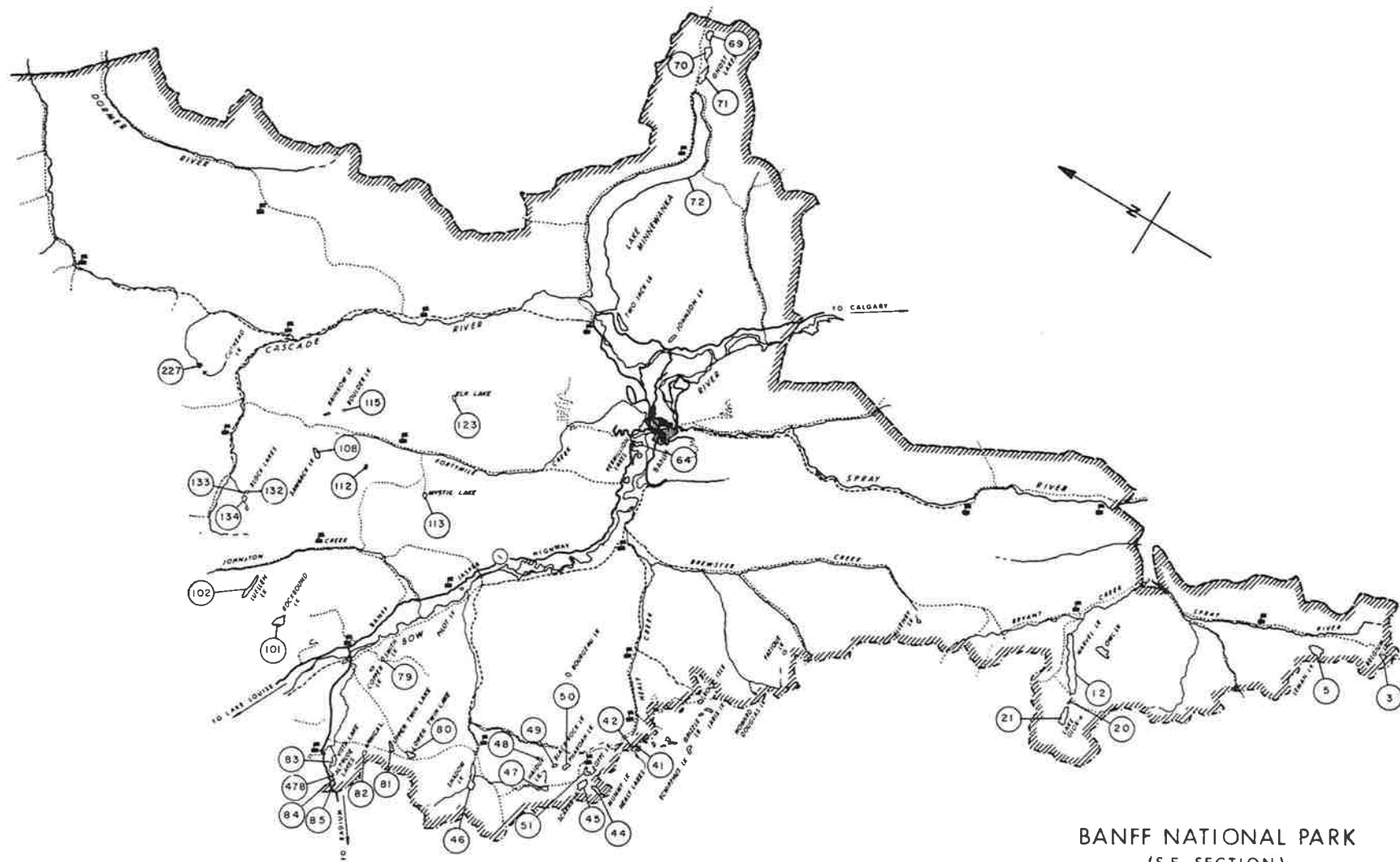


- Park Boundary
- Main Highway
- Secondary Road
- Trails
- Warden's Cabin

MAP NO. 16

RAINBOW TROUT LAKES









BANFF NATIONAL PARK (S.E. SECTION)

ALBERTA

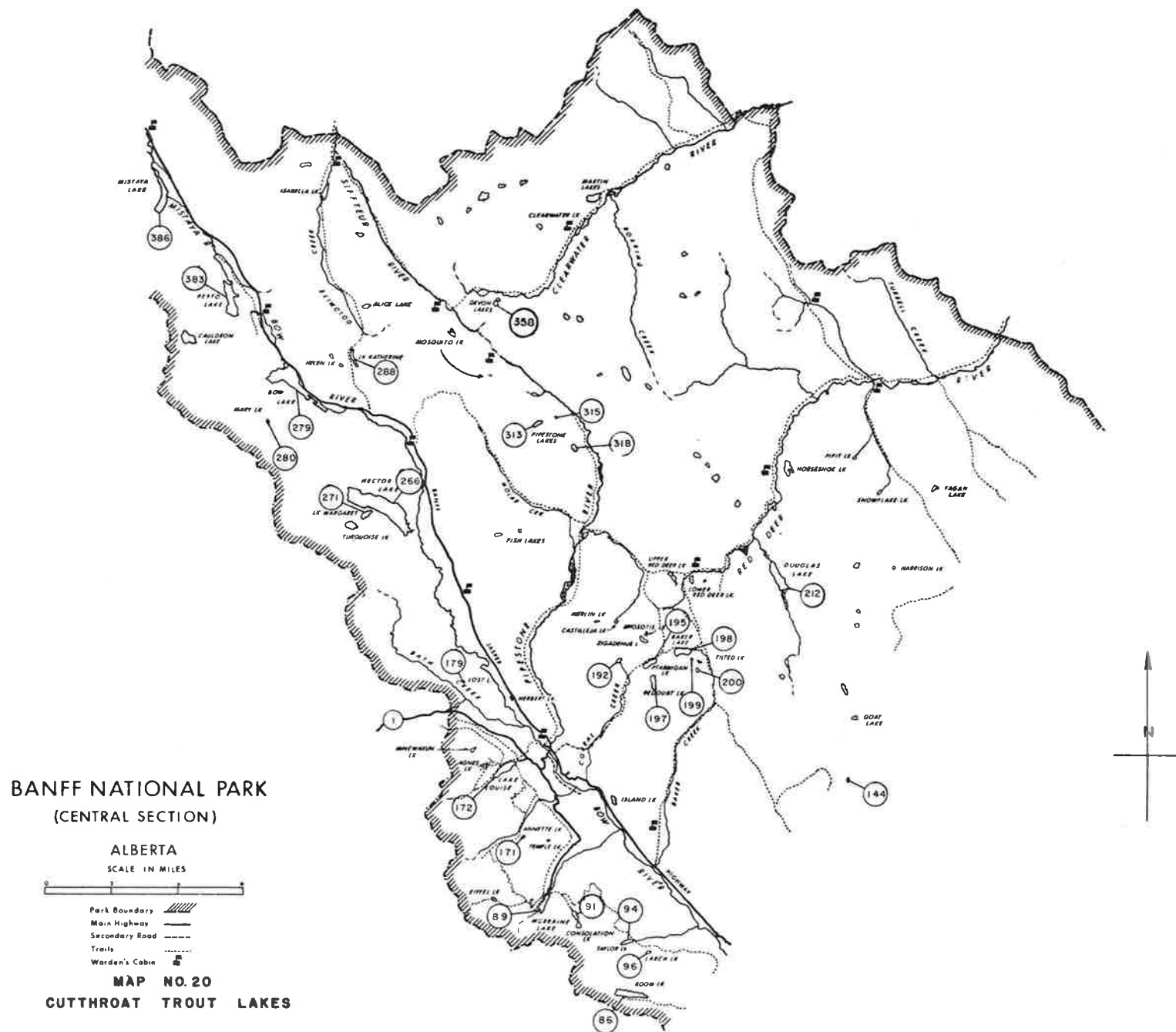
SCALE IN MILES

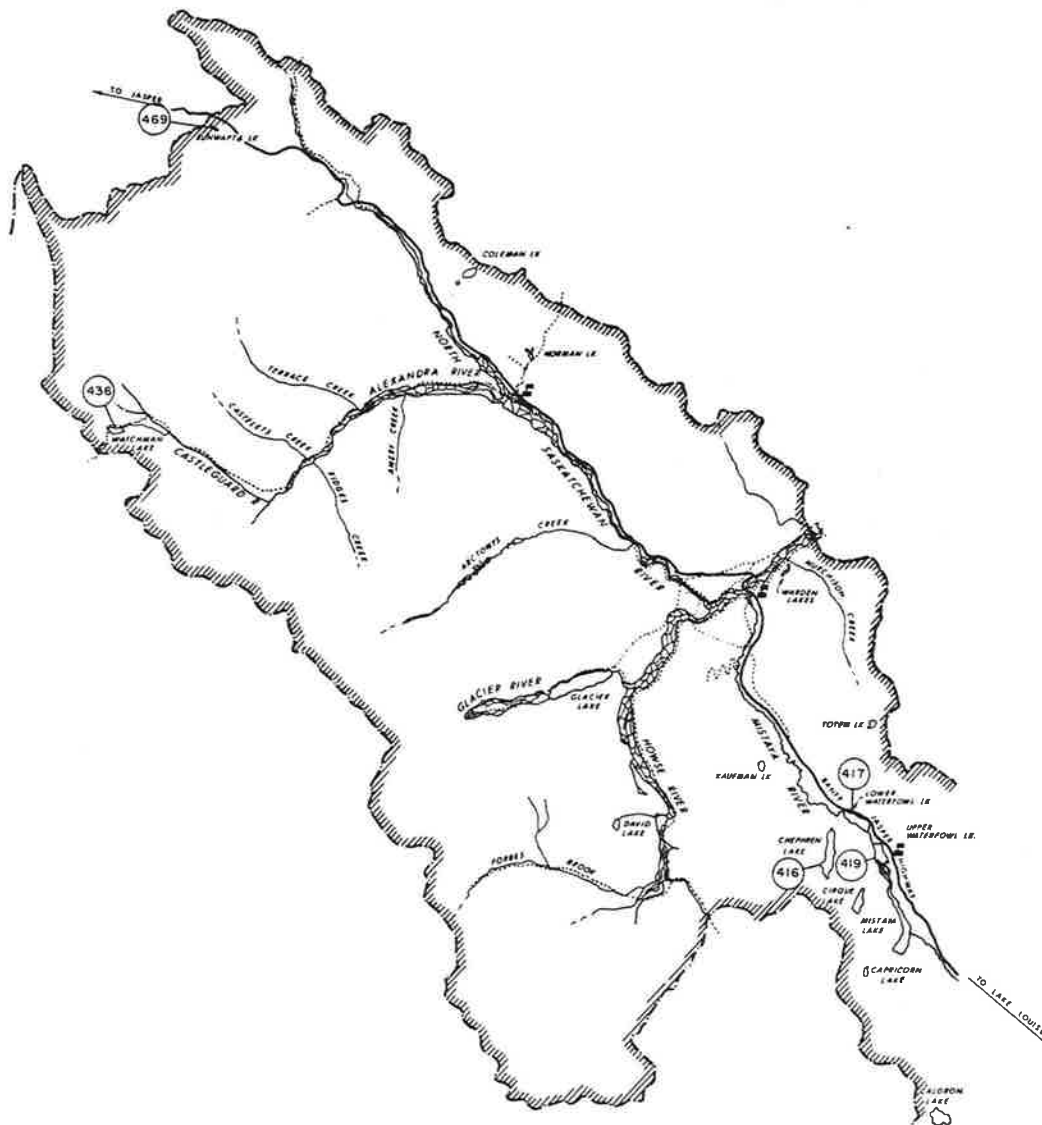


Park Boundary 
Main Highway 
Secondary Road 
Trails 
Warden's Cabin 

MAP NO. 19






CUTTHROAT TROUT LAKES



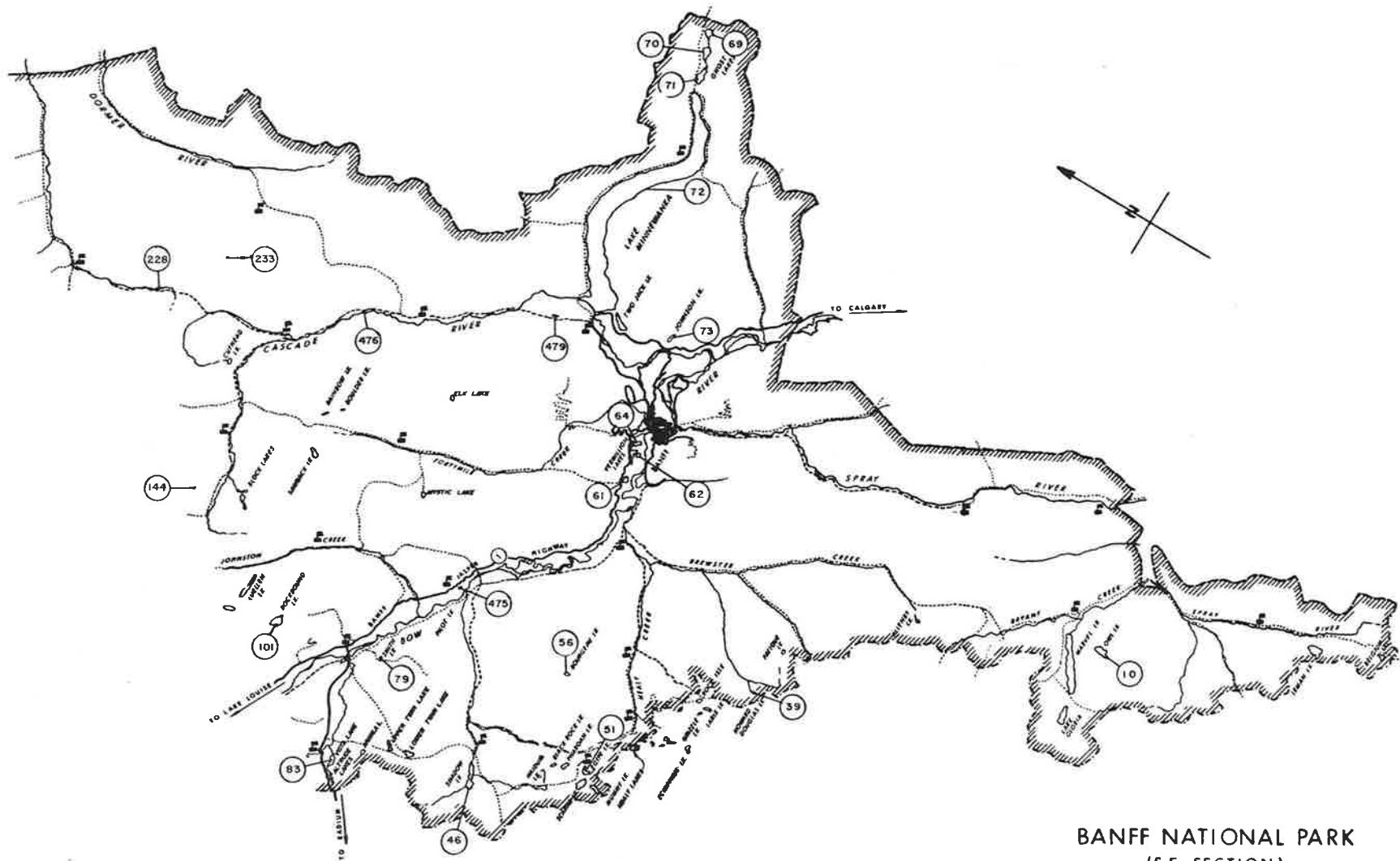


BANFF NATIONAL PARK
(N.W. SECTION)
ALBERTA

SCALE IN MILES
0 1 2 3 4

Park Boundary 
Main Highway 
Secondary Road 
Trails 
Warden's Cabin 

MAP NO. 21
CUTTHROAT TROUT LAKES



BANFF NATIONAL PARK
(S.E. SECTION)

ALBERTA

SCALE IN MILES



- Park Boundary
- Main Highway
- Secondary Road
- Trails
- Warden's Cabin

MAP NO. 22

BROOK TROUT LAKES

BANFF NATIONAL PARK (CENTRAL SECTION)

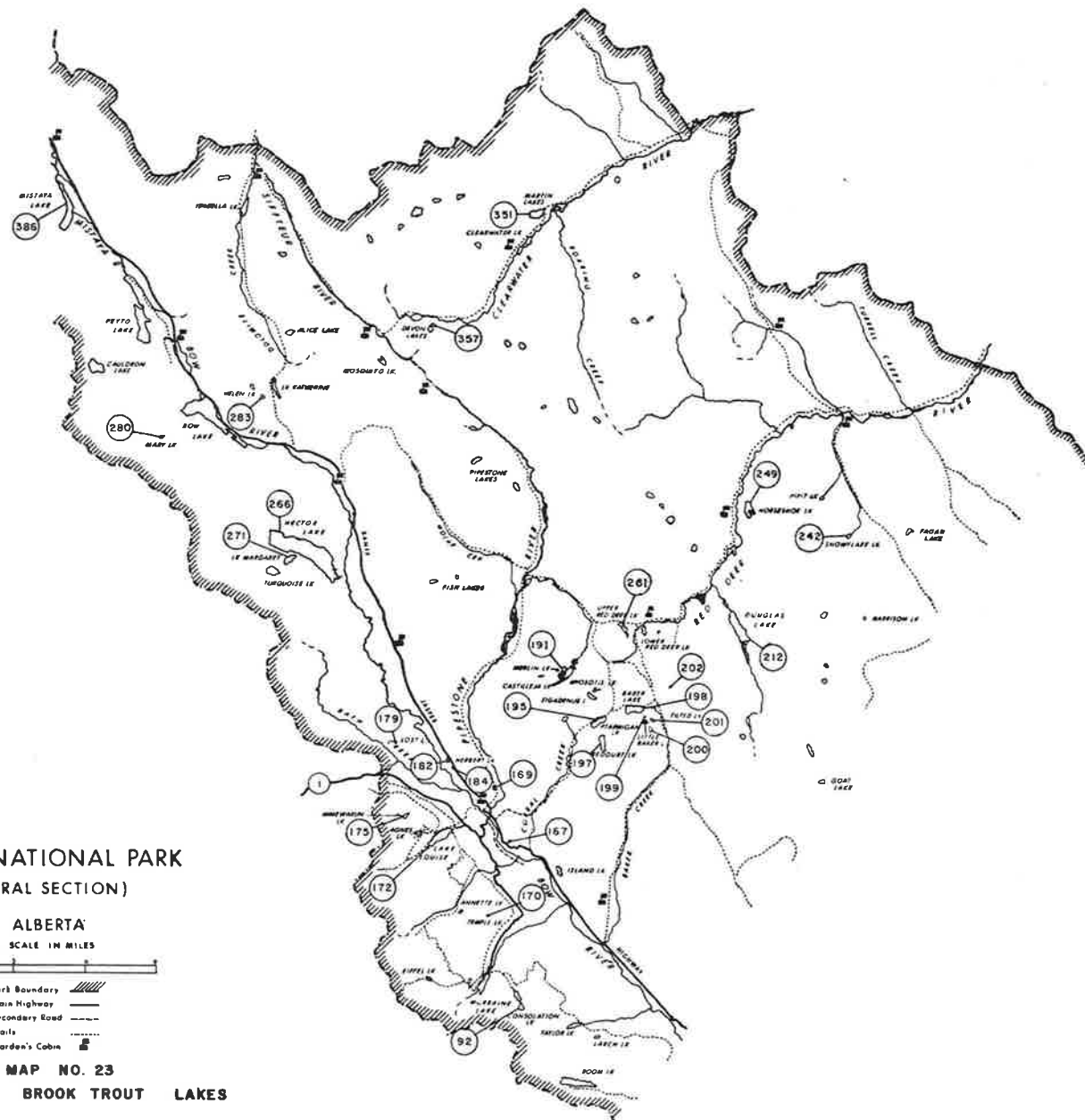
ALBERTA
SCALE IN MILES

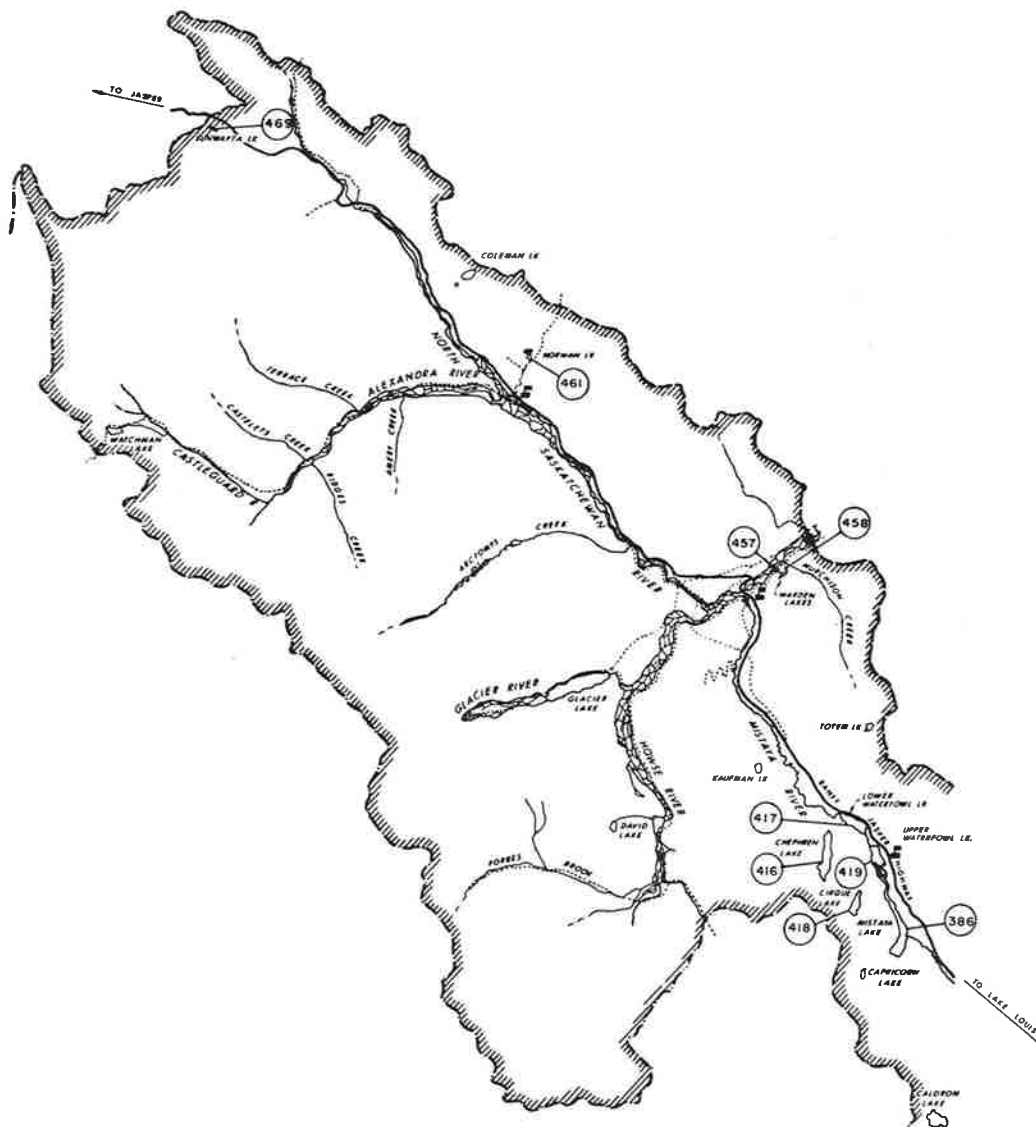


Park Boundary
 Main Highway
 Secondary Road
 Trails
 Warden's Cabin






MAP NO. 23

BROOK TROUT LAKES



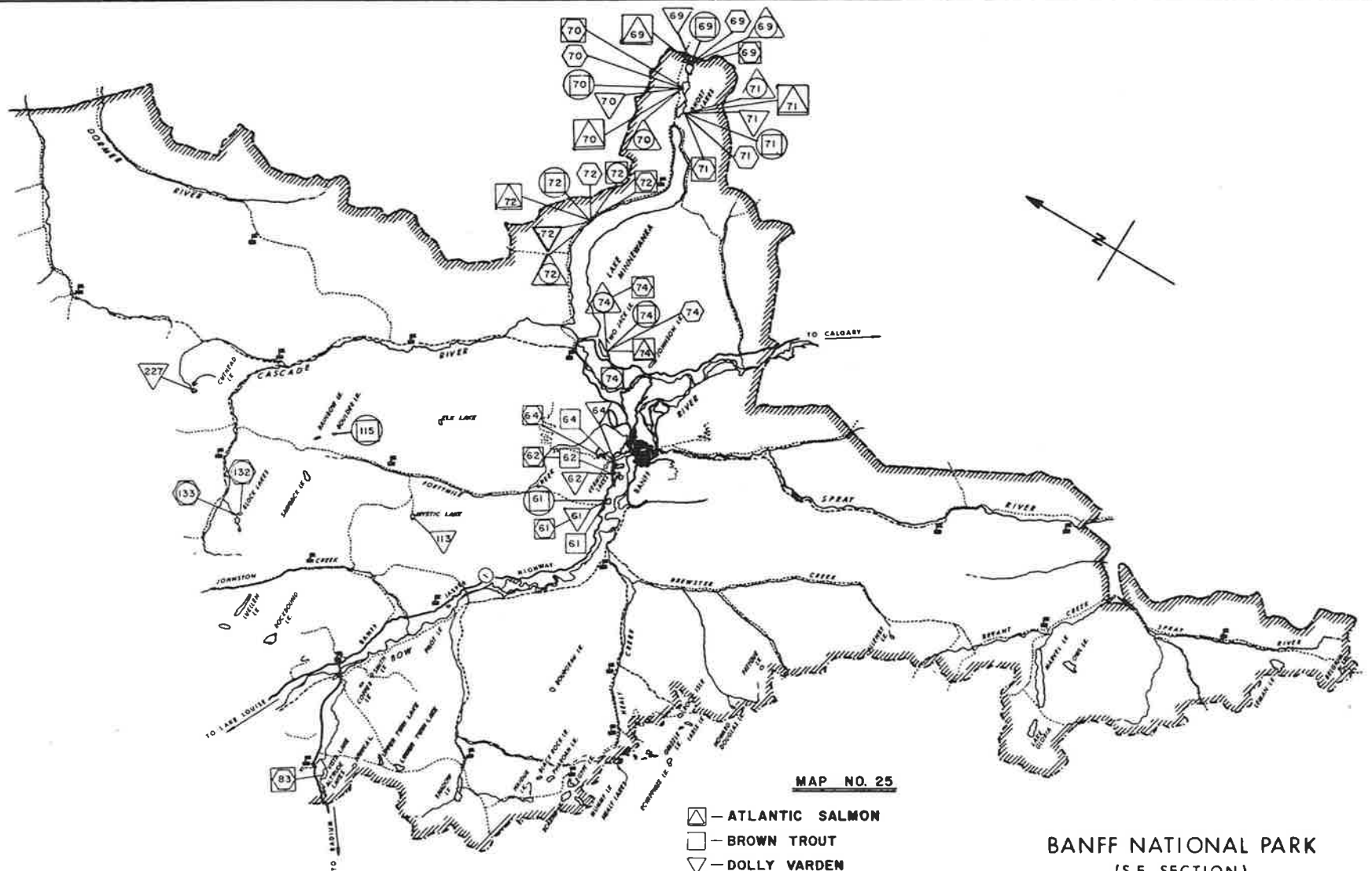


SCALE IN MILES

Park Boundary	
Main Highway	
Secondary Road	
Trails	
Warden's Cabin	

MAP NO. 24

BROOK TROUT LAKES



MAP NO. 25

- △ - ATLANTIC SALMON
- - BROWN TROUT
- ▽ - DOLLY VARDEN
- ⬡ - LAKE TROUT
- - QUEBEC RED TROUT
- ◉ - SPLAKE
- ◊ - CISCO
- ◻ - LAKE WHITEFISH
- ⊠ - MOUNTAIN WHITEFISH

BANFF NATIONAL PARK
(S.E. SECTION)
ALBERTA

SCALE IN MILES



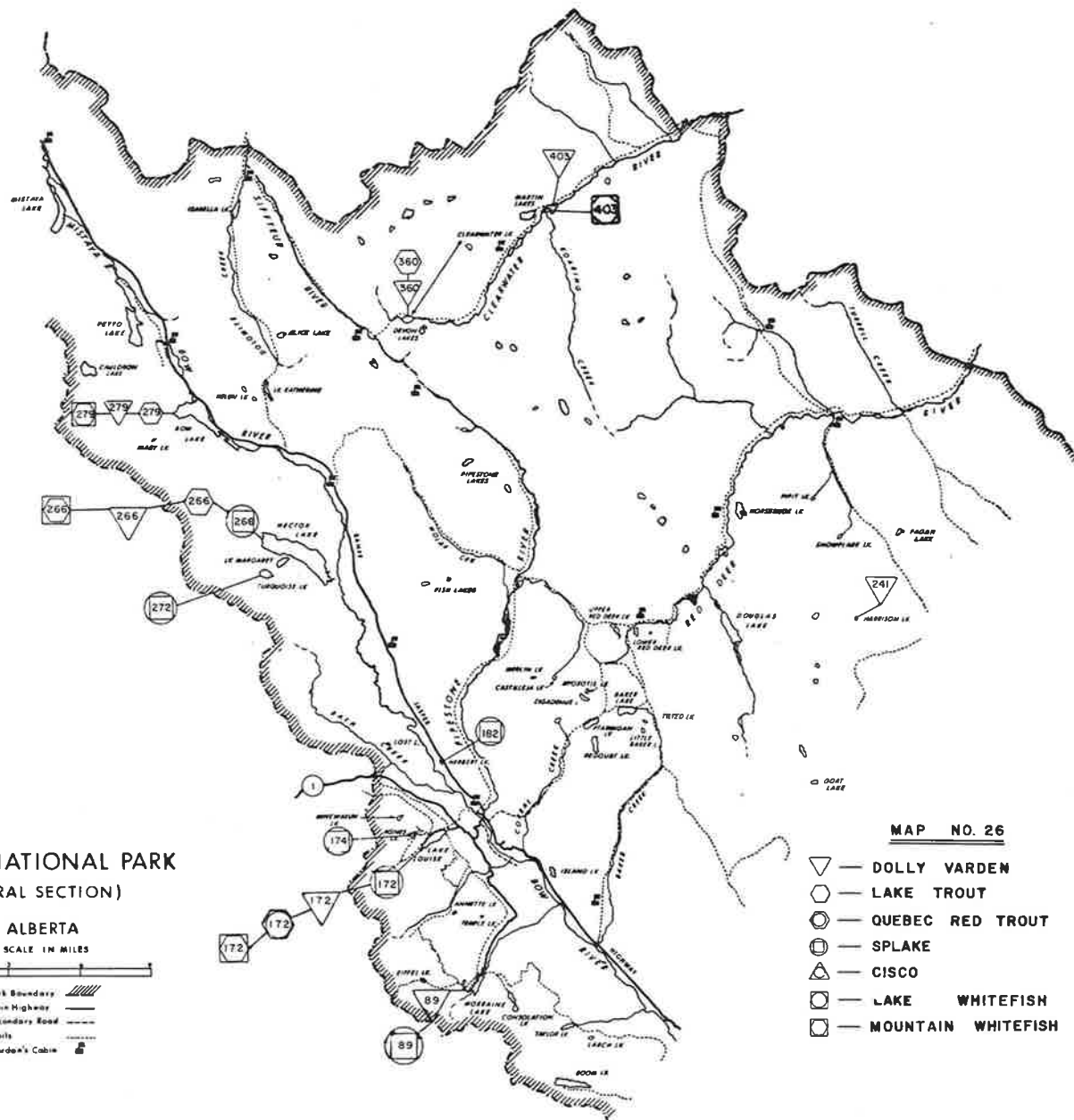
- Park Boundary
- Main Highway
- Secondary Road
- Trails
- Warden's Cabin

BANFF NATIONAL PARK (CENTRAL SECTION)

ALBERTA
SCALE IN MILES



Park Boundary
Main Highway
Secondary Road
Trails
Warden's Cabin



MAP NO. 26

- ▽ — DOLLY VARDEN
- — LAKE TROUT
- — QUEBEC RED TROUT
- ⊖ — SPLAKE
- △ — CISCO
- ◻ — LAKE WHITEFISH
- ◻ — MOUNTAIN WHITEFISH



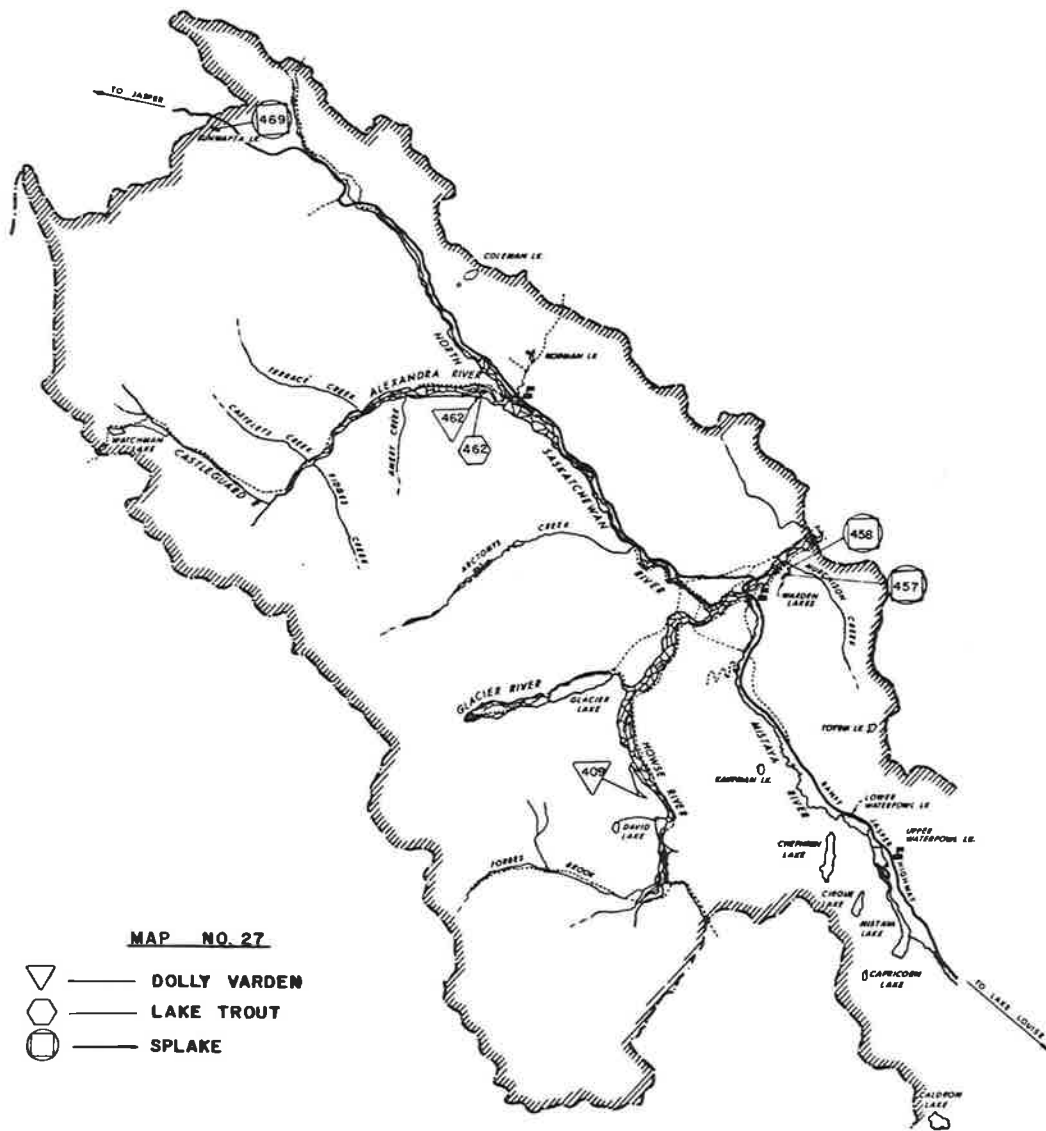
BANFF NATIONAL PARK
(N.W. SECTION)
ALBERTA

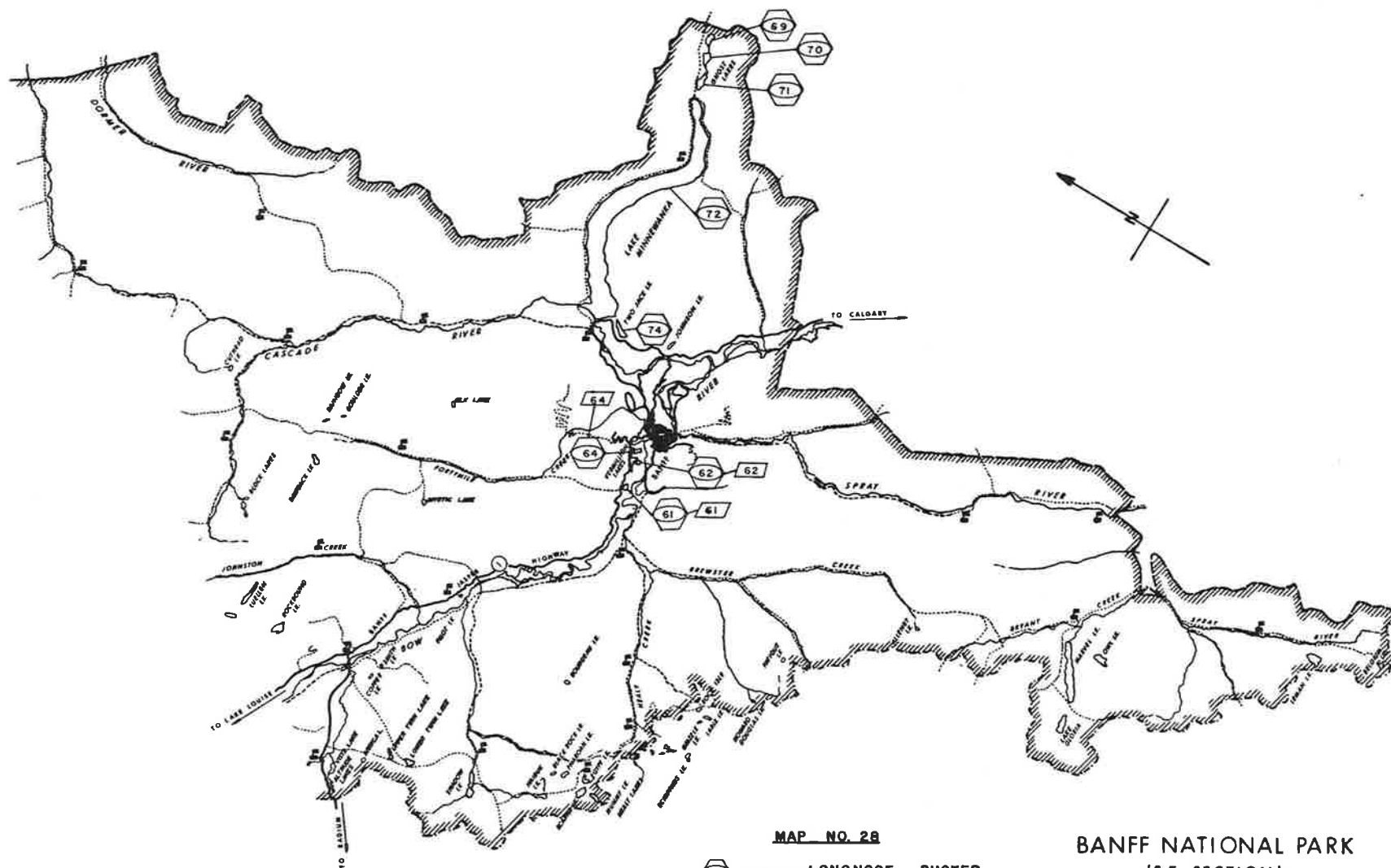
SCALE IN MILES
0 1 2 3 4

Park Boundary
Main Highway
Secondary Road
Trail
Warden's Cabin

MAP NO. 27

DOLLY VARDEN
 LAKE TROUT
 SPLAKE










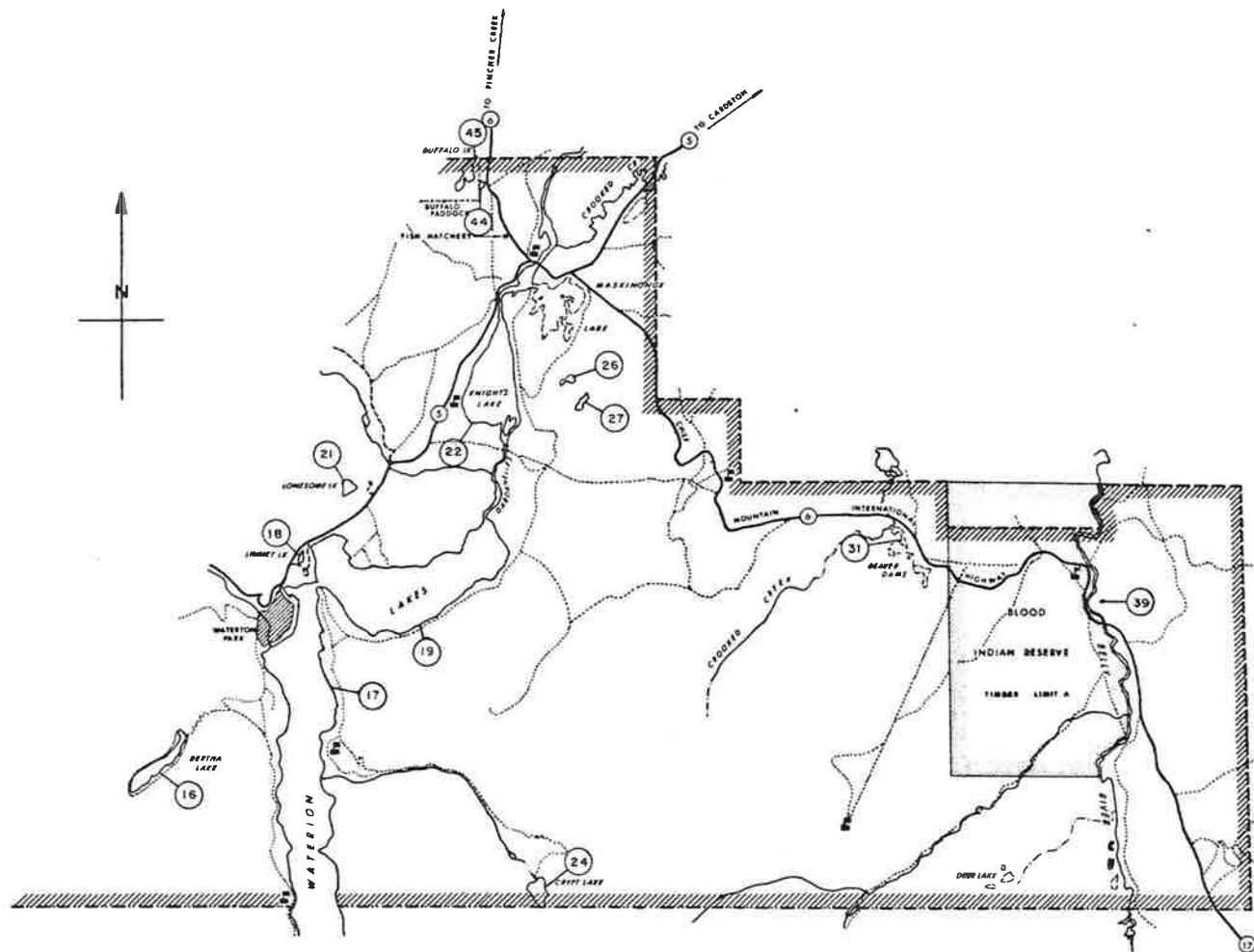
MAP NO. 28

 LONGNOSE SUCKER
 BROOK STICKLEBACK

BANFF NATIONAL PARK
 (S.E. SECTION)
 ALBERTA
 SCALE IN MILES



Park Boundary 
 Main Highway 
 Secondary Road 
 Trails 
 Warden's Cabin 



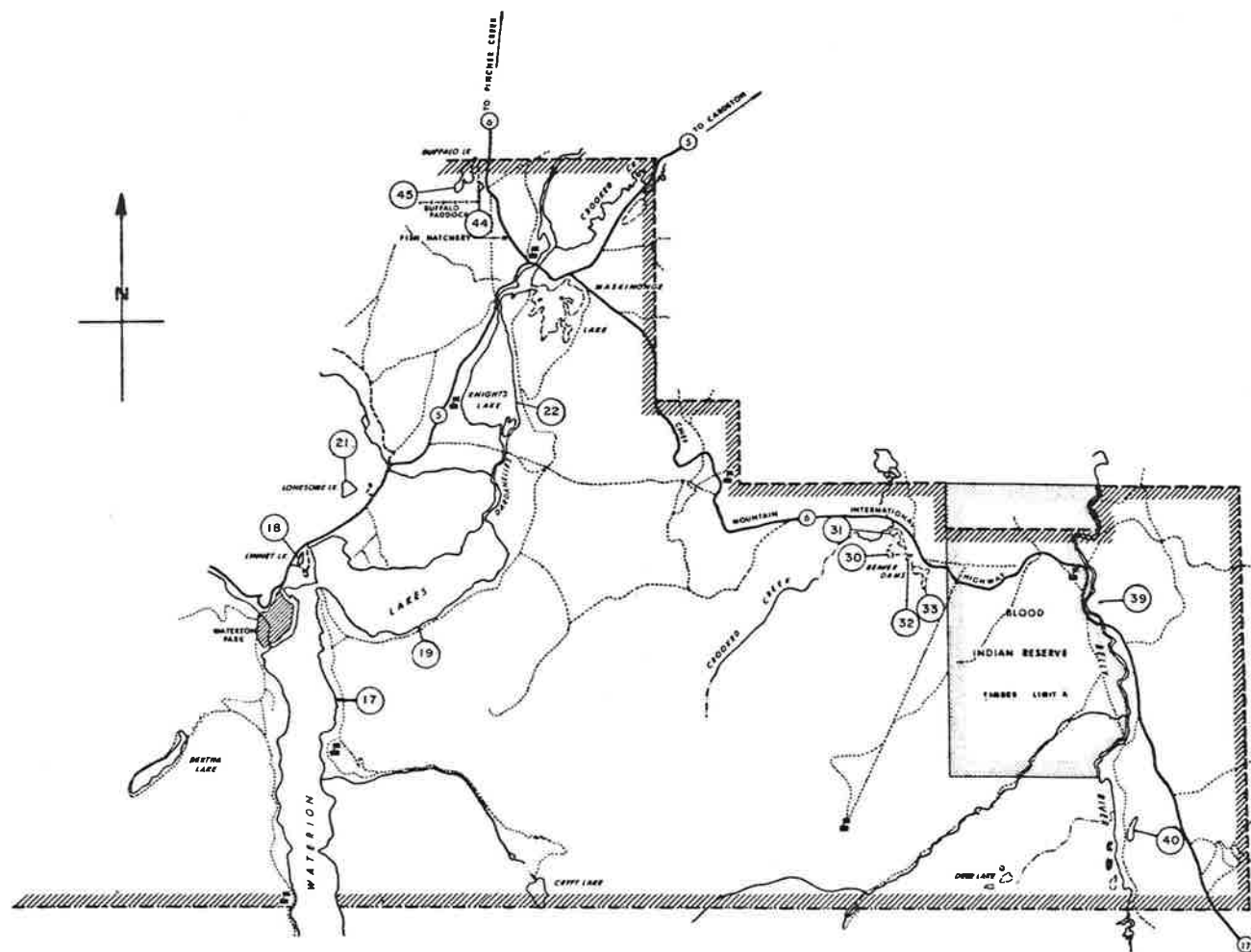
MAP NO. 32
RAINBOW TROUT LAKES

WATERTON LAKES NATIONAL PARK
EASTERN SECTION
ALBERTA

SCALE IN MILES



Park Boundary
Main Highway
Secondary Road
Trail
Worden's Cabin



MAP NO. 34

BROOK TROUT LAKES

WATERTON LAKES NATIONAL PARK

EASTERN SECTION

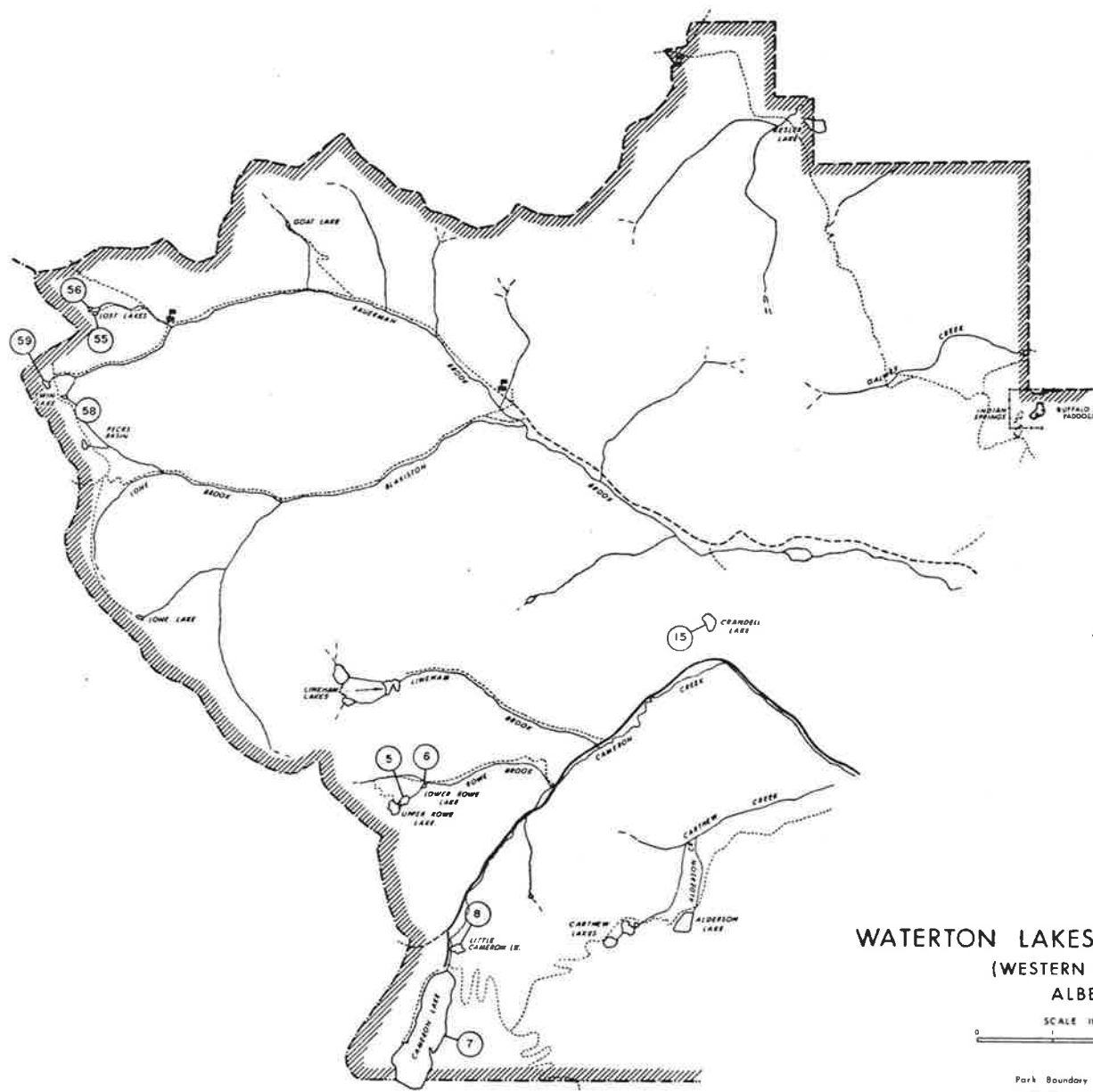
ALBERTA

SCALE IN MILES



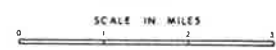
Park Boundary
Main Highway
Secondary Road
Trail
Warden's Cabin



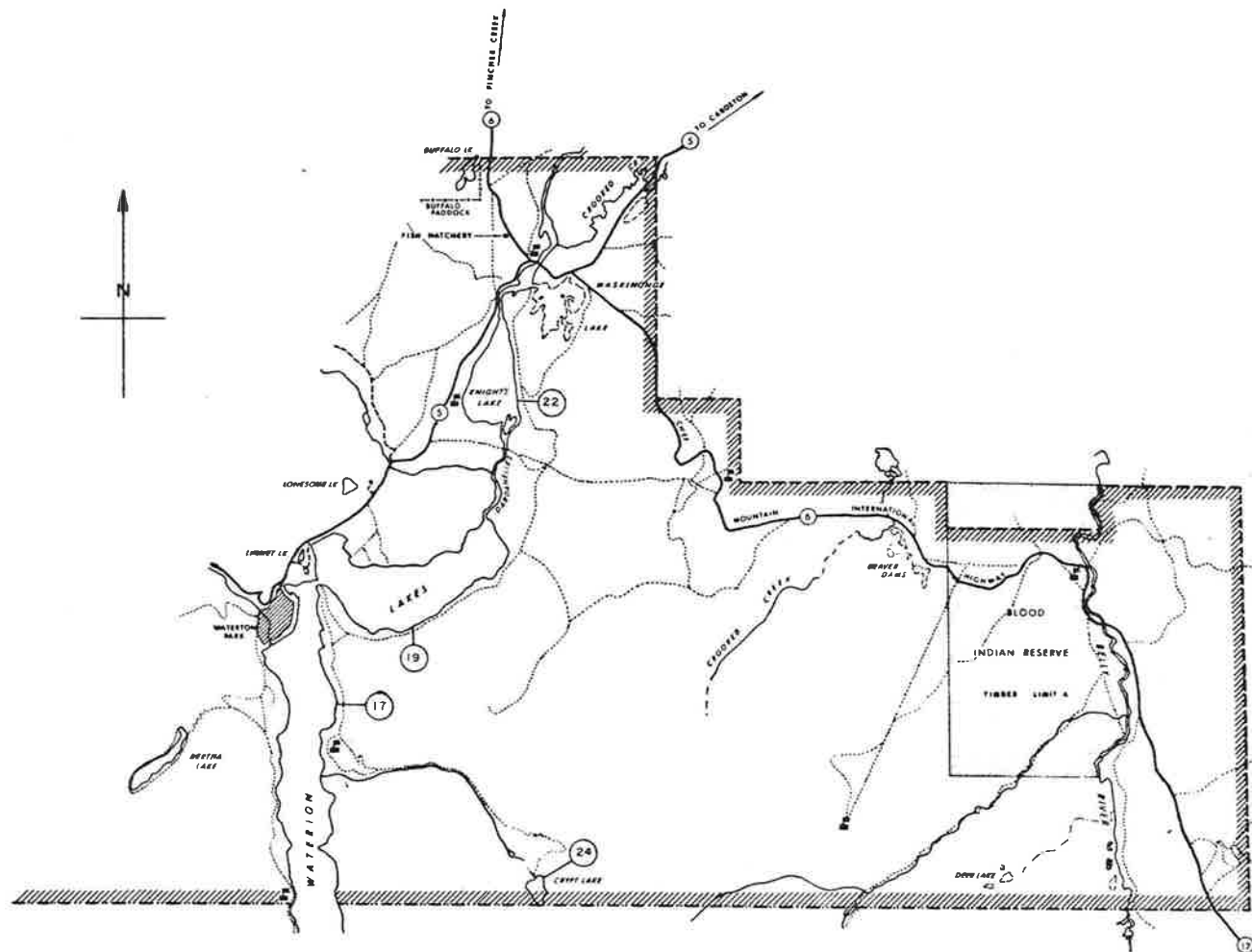


MAP NO. 35
BROOK TROUT LAKES

WATERTON LAKES NATIONAL PARK
(WESTERN SECTION)
ALBERTA



- Park Boundary
- Main Highway
- Secondary Road
- Trails
- Warden's Cabin

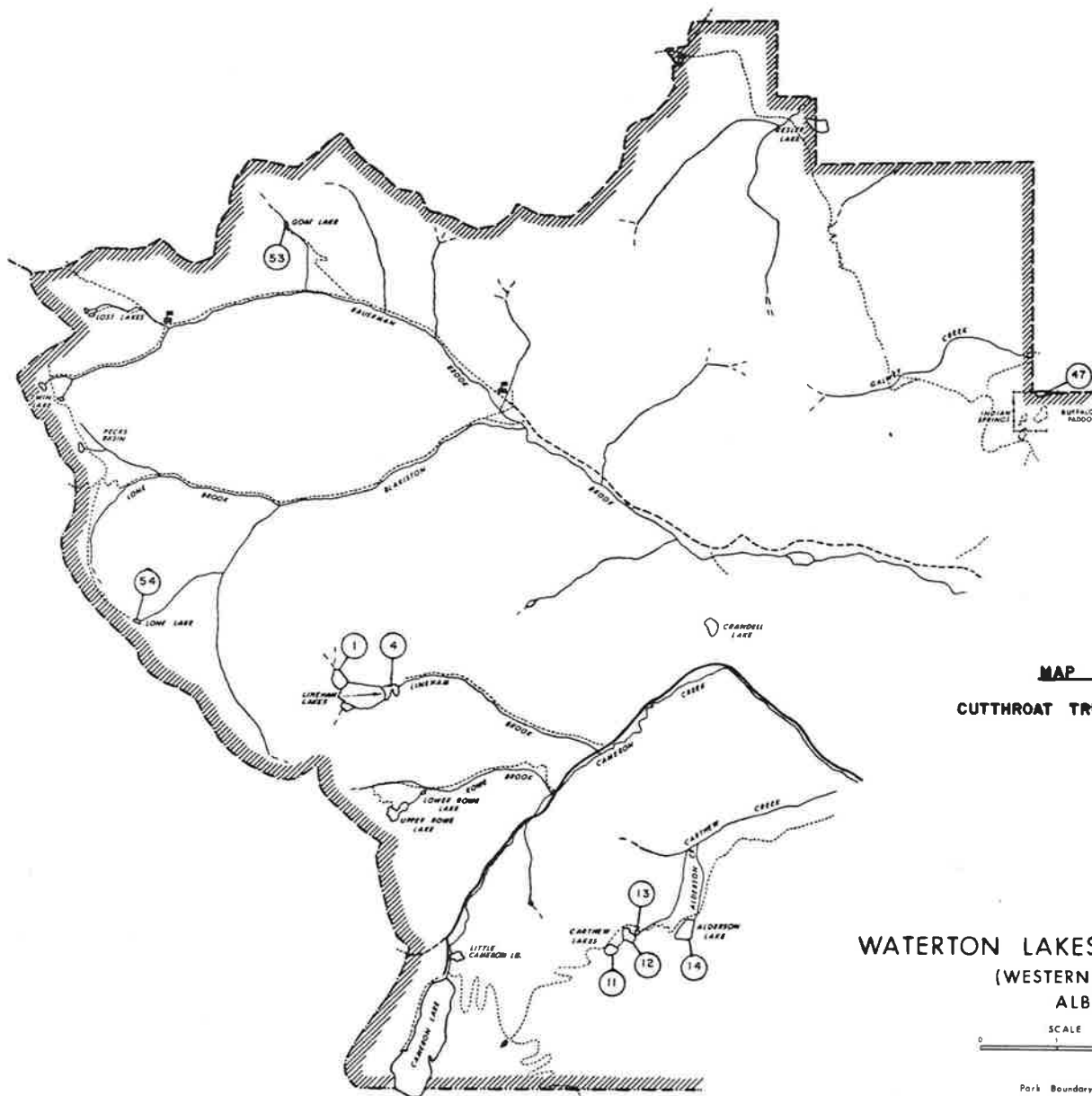


MAP NO. 36
CUTTHROAT TROUT LAKES

WATERTON LAKES NATIONAL PARK
EASTERN SECTION
ALBERTA

SCALE IN MILES

Park Boundary
 Main Highway
 Secondary Road
 Trail
 Warden's Cabin

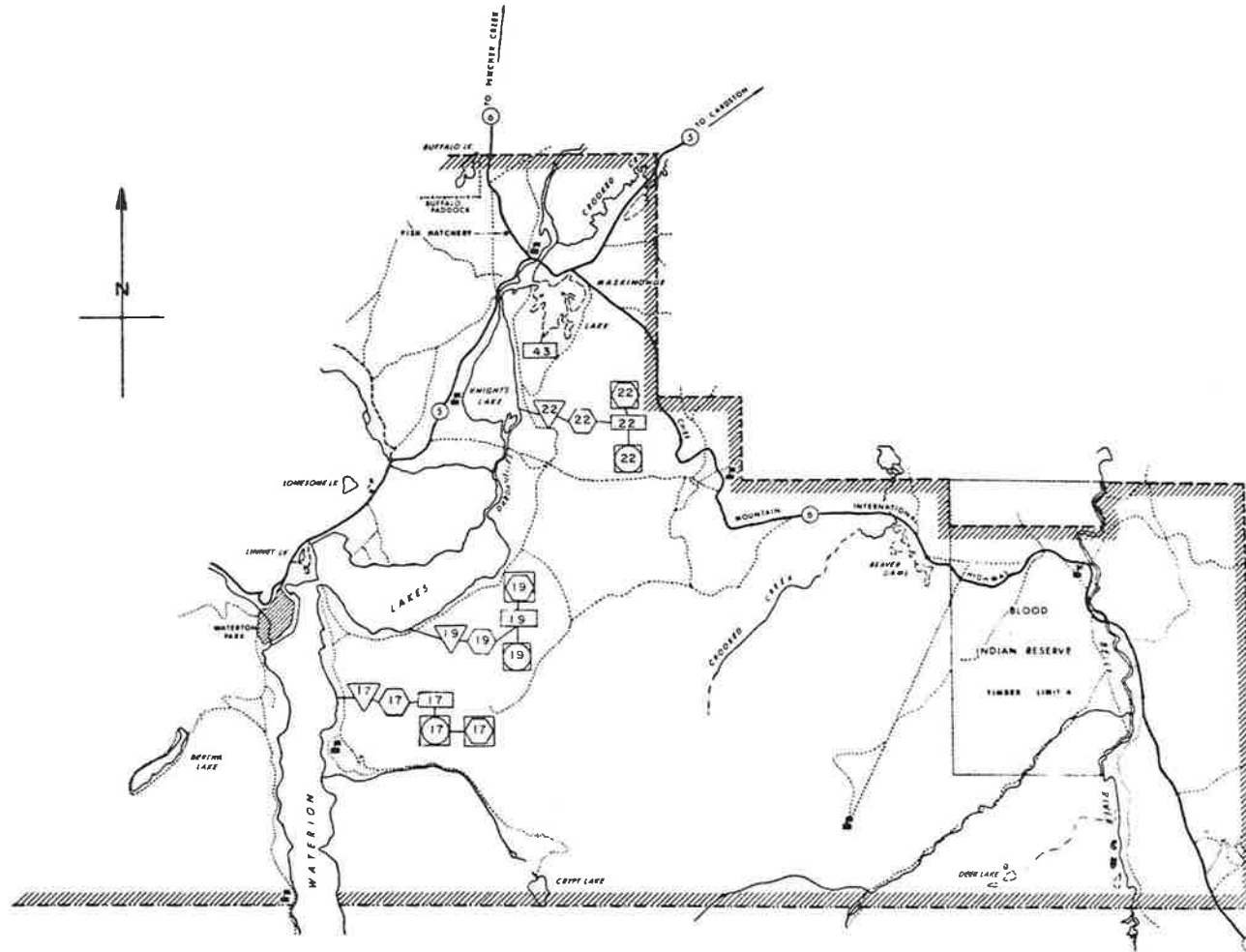


MAP NO. 37
CUTTHROAT TROUT LAKES

WATERTON LAKES NATIONAL PARK
(WESTERN SECTION)
ALBERTA

SCALE IN MILES
0 1 2 3

Park Boundary
Main Highway
Secondary Road
Trails
Warden's Cabin



MAP NO. 38

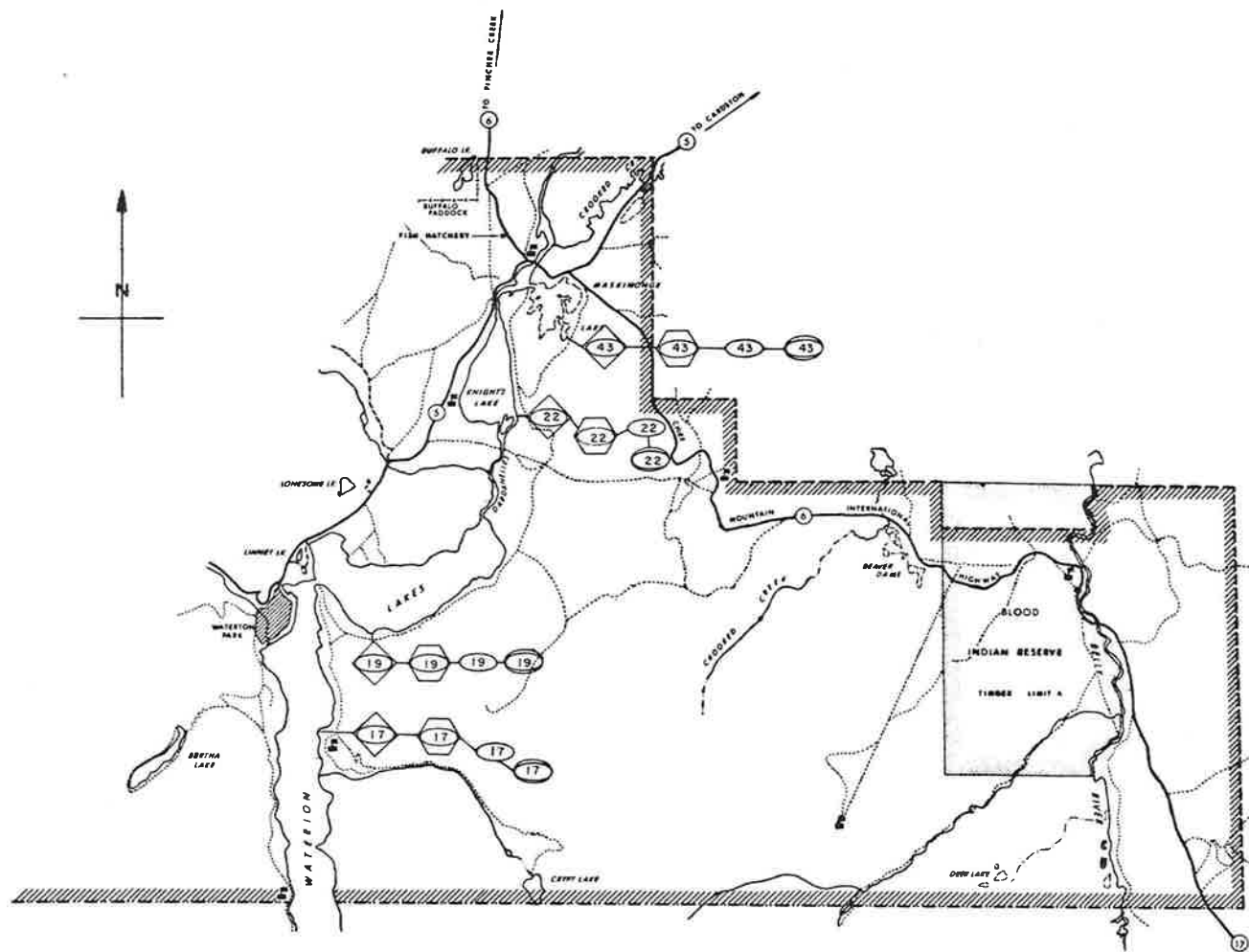
- | | |
|---|----------------------|
| ▽ | — DOLLY VARDEN |
| ◊ | — LAKE TROUT |
| □ | — NORTHERN PIKE |
| ◻ | — LAKE WHITEFISH |
| ◻ | — MOUNTAIN WHITEFISH |

WATERTON LAKES NATIONAL PARK
EASTERN SECTION
ALBERTA

SCALE IN MILES







- | | |
|----------------|-------|
| Park Boundary | ▨ |
| Main Highway | — |
| Secondary Road | - - - |
| Trail | ⋯ |
| Warden's Cabin | ■ |



WATERTON LAKES NATIONAL PARK
EASTERN SECTION
ALBERTA

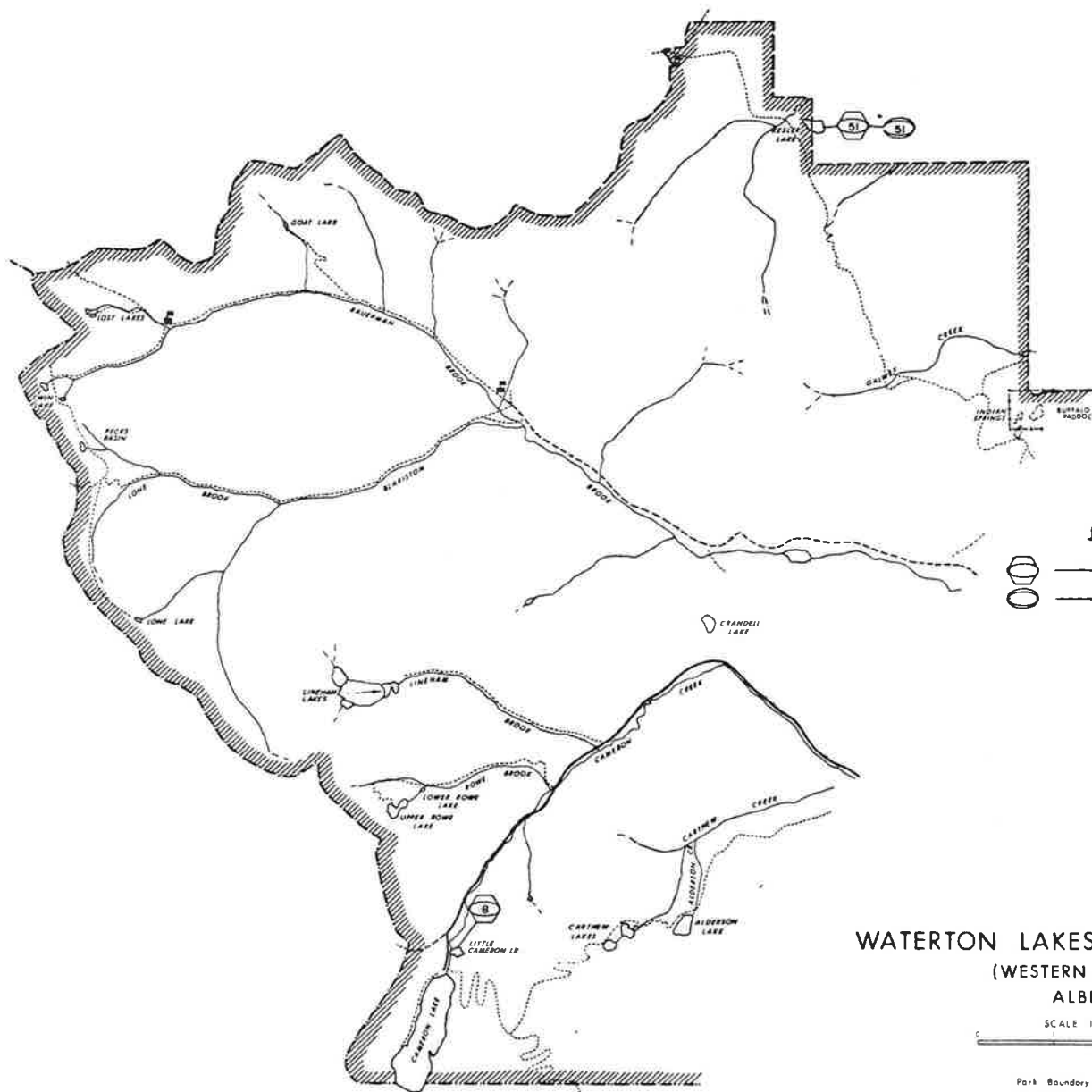
MAP NO. 39

-  LAKE CHUB
-  BURBOT
-  LONGNOSE SUCKER
-  WHITE SUCKER

SCALE IN MILES








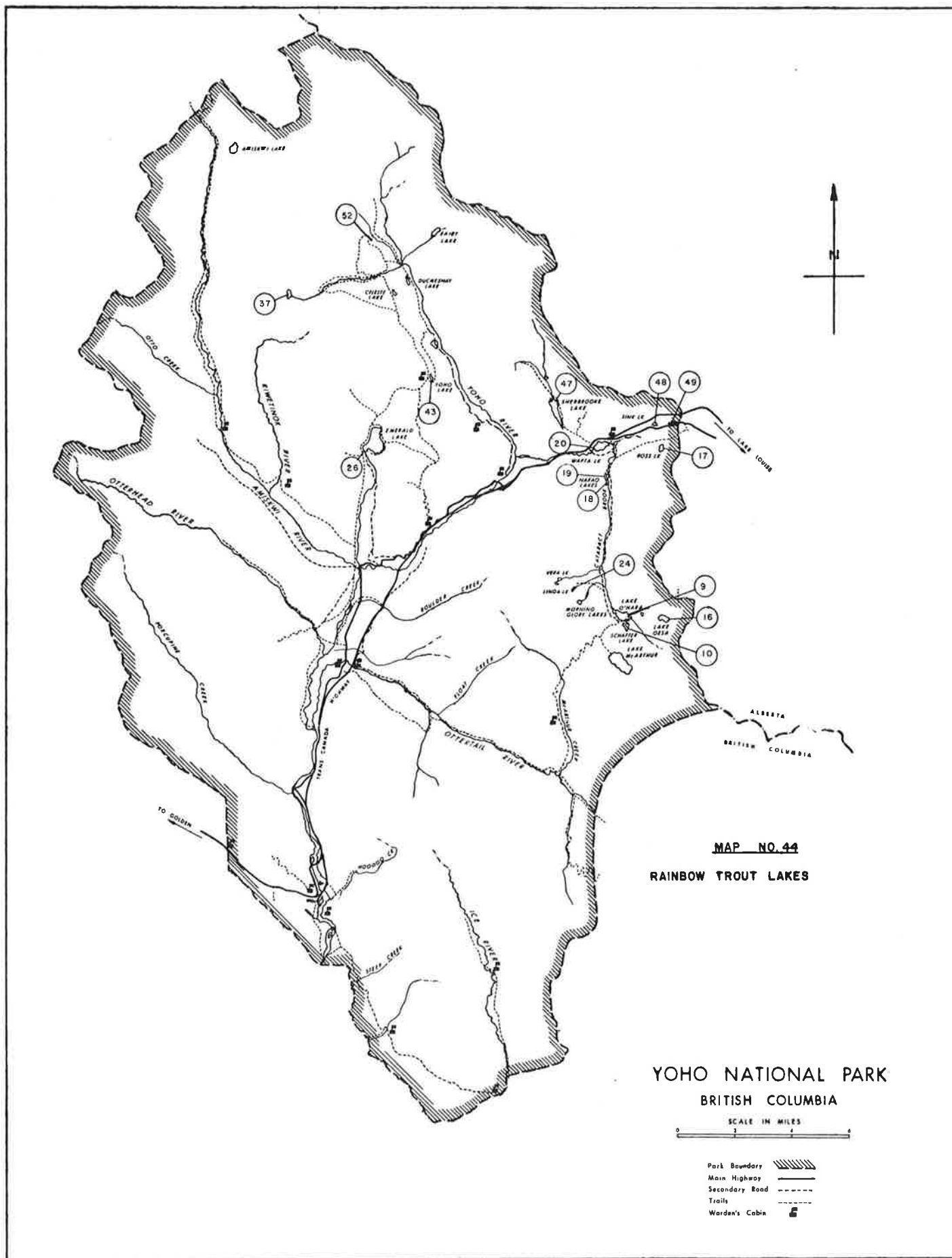
- Park Boundary 
- Main Highway 
- Secondary Road 
- Trail 
- Warden's Cabin 

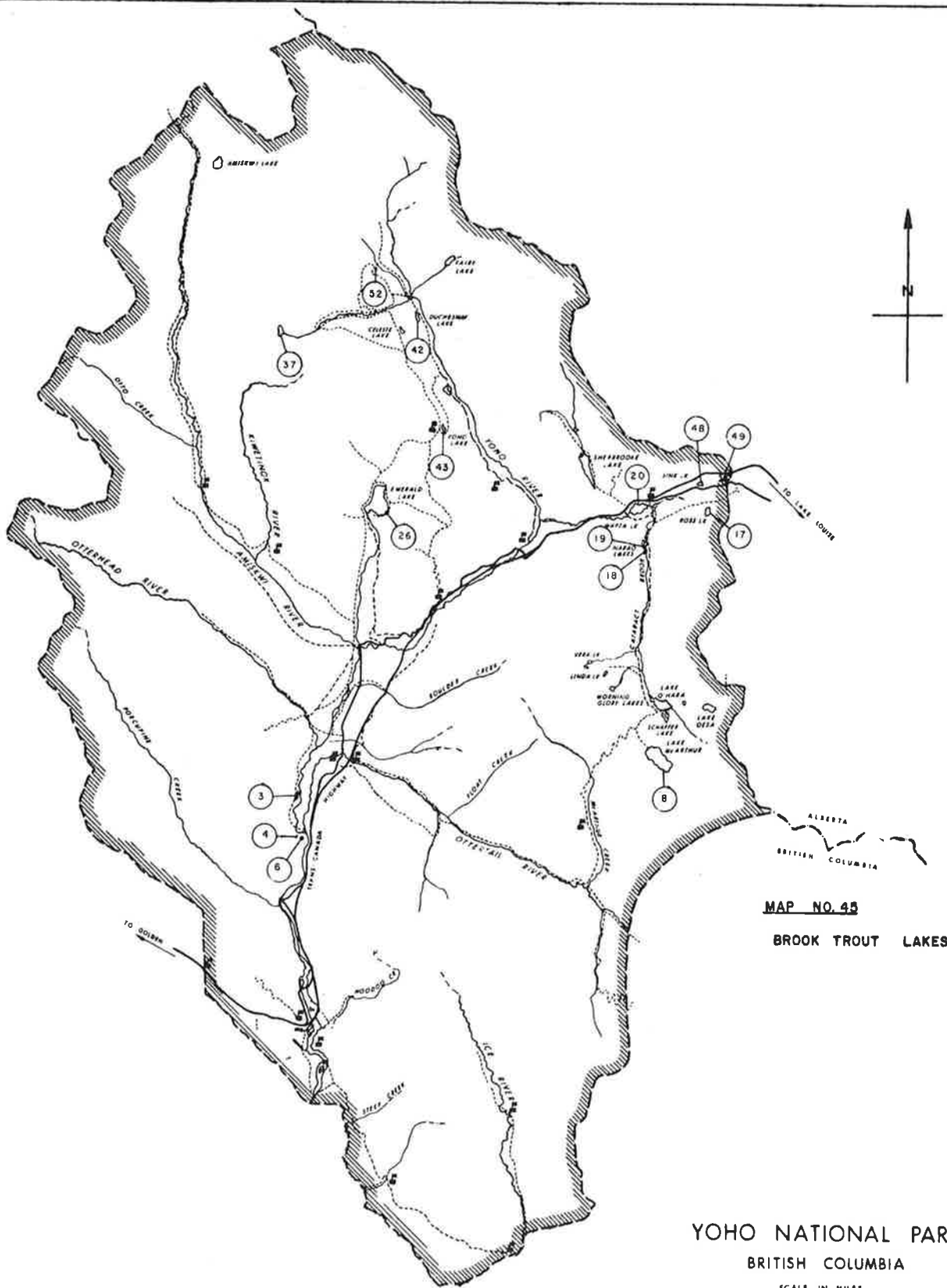


WATERTON LAKES NATIONAL PARK (WESTERN SECTION) ALBERTA

SCALE IN MILES
0 1 2 3

Park Boundary 
Main Highway 
Secondary Road 
Trails 
Warden's Cabin 



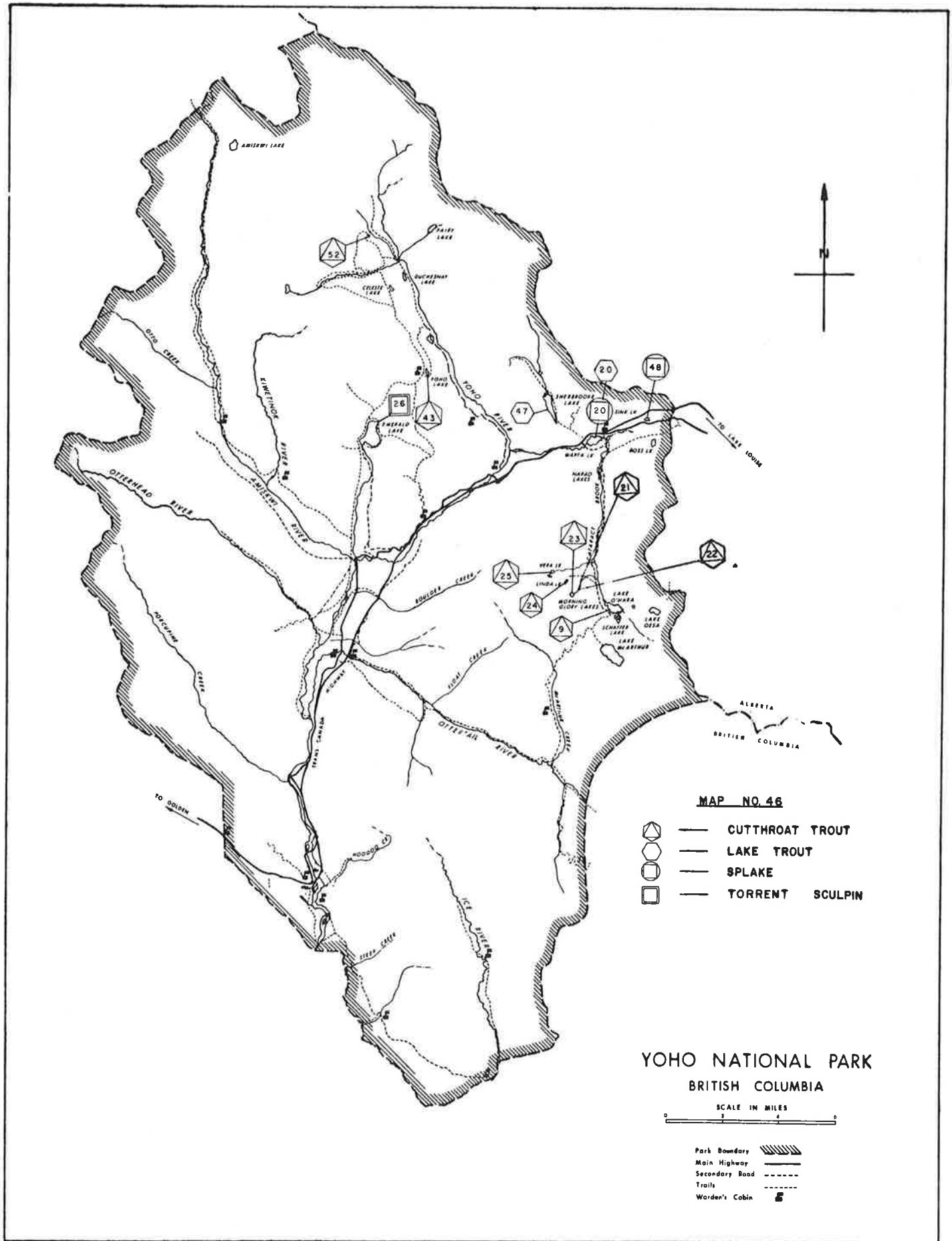


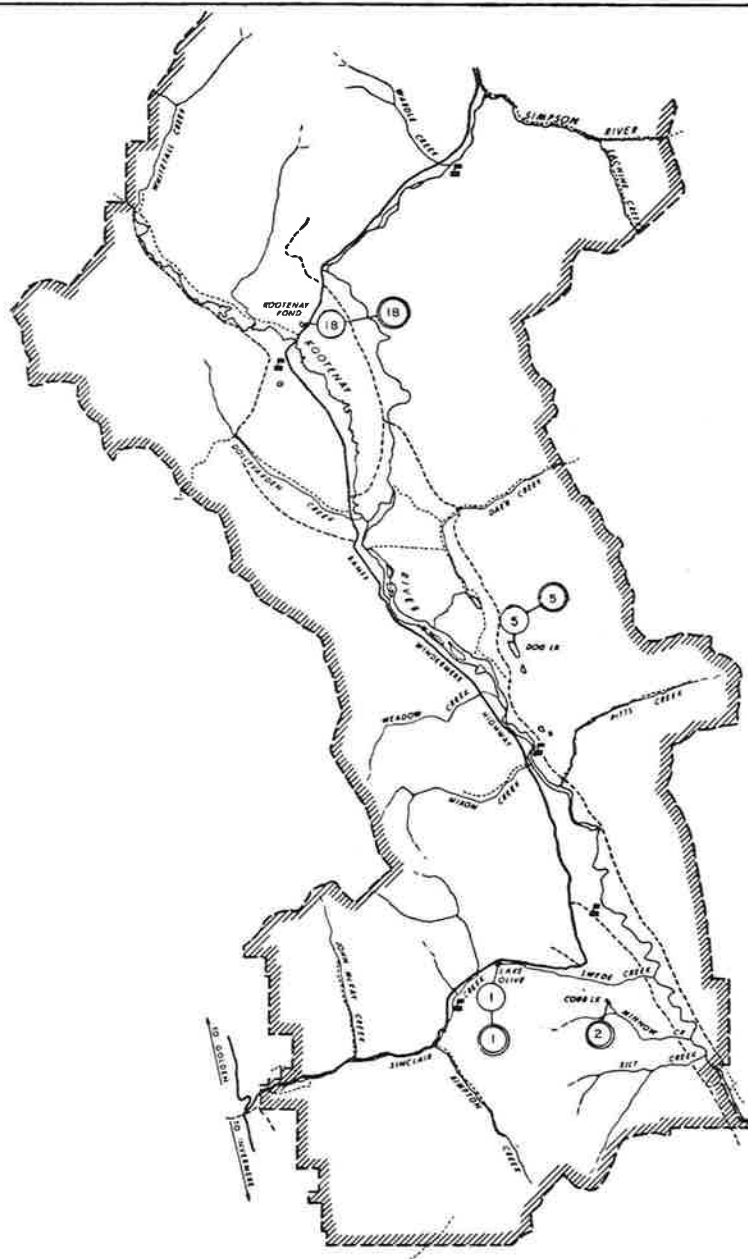
MAP NO. 43
BROOK TROUT LAKES

YOHO NATIONAL PARK
BRITISH COLUMBIA

SCALE IN MILES
0 1 2 3 4 5

- Park Boundary
- Main Highway
- Secondary Road
- Trails
- Warden's Cabin





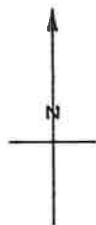
MAP NO. 48

- — RAINBOW TROUT
- — BROOK TROUT
- ◐ — CUTTHROAT TROUT

KOOTENAY NATIONAL PARK
(S.W. SECTION)
ALBERTA

SCALE IN MILES
0 2 4 6

- Park Boundary
- Main Highway
- Secondary Road
- Trails
- Warden's Cabin



MAP NO. 49

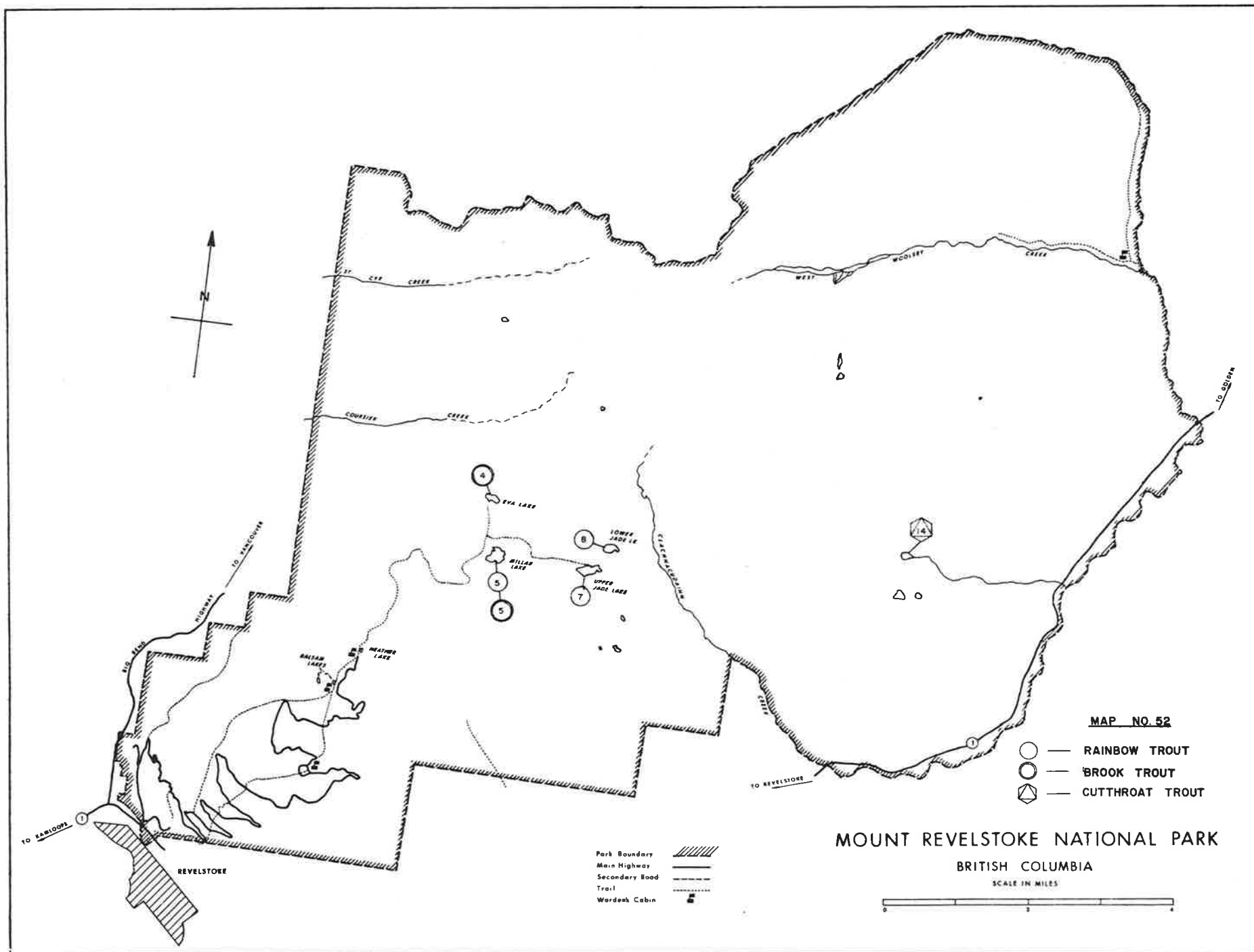
- — BROOK TROUT
 ◻ — CUTTHROAT TROUT

KOOTENAY NATIONAL PARK
 (N.W. SECTION)
 ALBERTA

SCALE IN MILES
 0 2 4 6

- Park Boundary
 Main Highway
 Secondary Road
 Trails
 Warden's Cabin












MAP NO. 54
CUTTHROAT TROUT LAKES

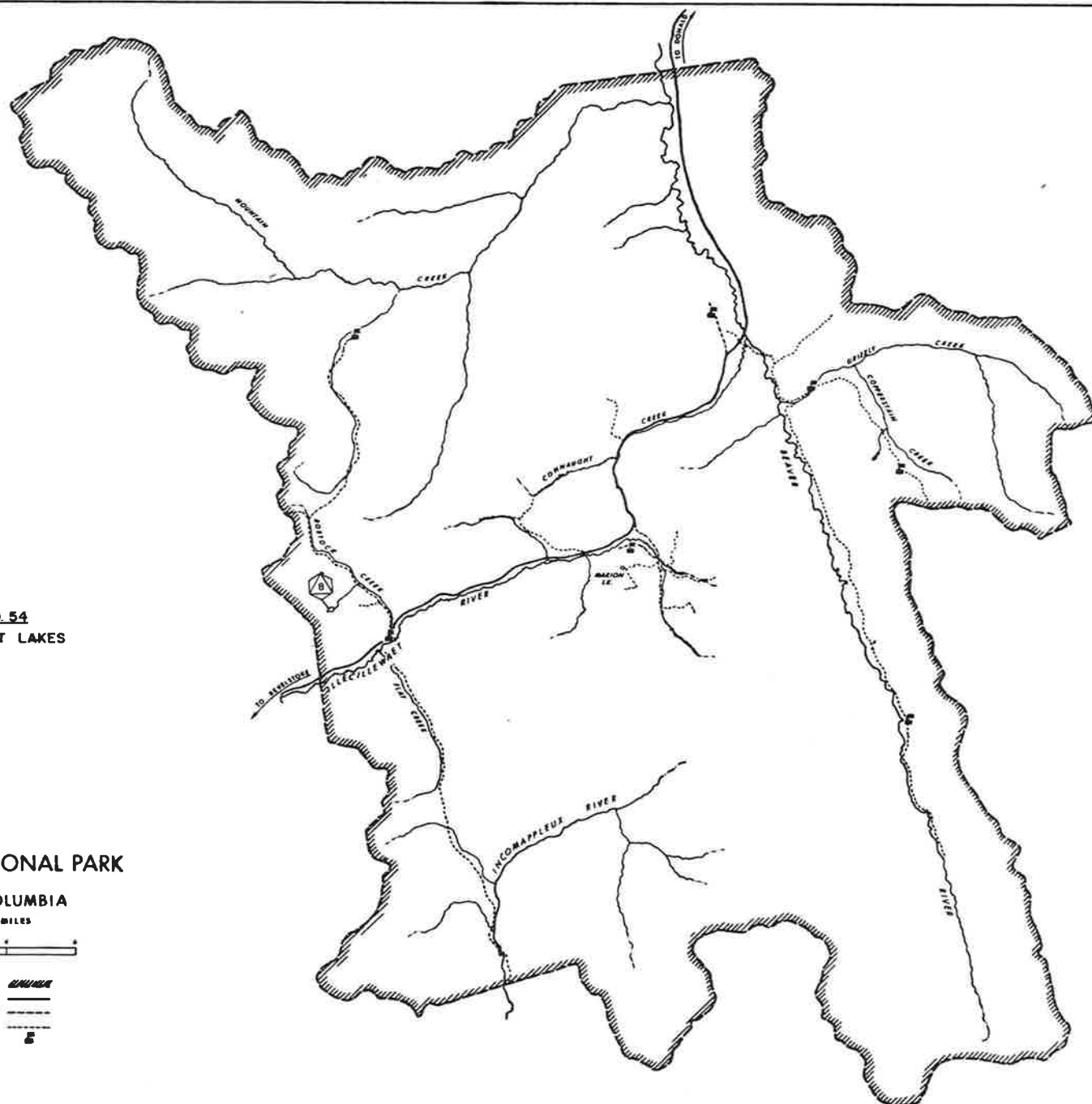
GLACIER NATIONAL PARK

BRITISH COLUMBIA

SCALE IN MILES



Park Boundary 
Main Highway 
Secondary Road 
Trails 
Wardens Cabin 



Appendix C

HISTORICAL RECORDS SHOWING YEAR OF FIRST TROUT PLANTINGS IN LAKES
OF THE MOUNTAIN NATIONAL PARKS

	<u>Page</u>
Jasper National Park	C 1
Banff National Park	C 4
Waterton Lakes National Park	C 8
Yoho National Park	C 9
Kootenay National Park	C10
Mount Revelstoke National Park	C11
Glacier National Park	C12

JASPER NATIONAL PARK

C1

HISTORICAL RECORDS SHOWING YEAR OF FIRST TROUT PLANTINGS IN LAKES

Legend:

? - no record of first planting

+ - natural reproduction occurs

* - no natural reproduction

- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES
NAME	NUMBER	RB	CUTT	BT	LT	SPL	MAP NUMBERS
Adolphus	554	1936+		1950+			3,6
Amethyst	308	1931+		1961+			1,4
Annette	387	1933*	1917*	1933*			2,5
Azure (Indigo)	736	?+					3
Beatrix	553	?+					3
Beauvert	393	1927*	1917*	1951*	1957*	1957*	2,5
Beaver	368	?+		1928+			2,5
Bench	415		1963*				9
Brazeau	26	1936+					2
Buck	144	1937*		1929*			5
Cabin	406	1929+					3
Caledonia	410	1921+		1966+			3,6
Cavell	302		1963+	1966+			4,7
Cavern	335			1966*			5
Celestine	582	1933#					3
Christine	426		1936*	1951*			6
Chrome	187	?+					1
Colfair (Lower)	290	1965*		1965*			2,5
Colfair (Upper)	286	1965*					2
Cutt	438		1960*				9
Dorothy	422	1938*		1931*		1953*	3
Dragon	54			1959#			4
Edith	385	1920*	1917*	1927*		1953*	2
Edna	505	1963*		1960*		1962*	2,5
Edwards	288	1933+					2
Evelyn	279	1933+		?+			2,5
Five Lakes #1	328	1941*		1953*			2
Five Lakes #3	330	1925+		1962+			2,5
Five Lakes #4	331	1962+		1962+			2,5
Five Lakes #5	332	1941+		1962+			2,5
Fryatt	165	1936+					2
Geraldine #1	197	1932+		1966+			1,4
Geraldine #3	195	1932+		1966+			1,4
Geraldine #4	170	1932+		1964+			1,4
Geraldine #5	169	1932+		1966+			1,4
Golden	437	1964*					3
Gooseberry	327			1965*			5
Haultain	579		1963#				9
Harvey	571	1962#					3
Hibernia	408	1919#				1958*	3,9

HISTORICAL RECORDS SHOWING YEAR OF FIRST TROUT PLANTINGS IN LAKES

Legend:

? - no record of first planting

+ - natural reproduction occurs

* - no natural reproduction

- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES
NAME	NUMBER	RB	CUTT	BT	LT	SPL	MAP NUMBERS
Hidden	409			1963*			6
High Lakes #1	416	1940*					6
High Lakes #2	417	1940*		1946*			6
High Lakes #3	418	1940*		1946*			6
High Lakes #4	424			1965*			6
High Lakes #5	425			1965*			6
High Lakes #6	430	1966*					6
High Lakes #7	429			1966*			6
Honeymoon	145	1932*					2
Honeymoon (Little)	155			1963*			5
Horseshoe	287	1936*		1931*			2
Iris	419	1940*	1934*	1931*			3
Katrine	395			1963*			Die off
Keith	384	1934*	1945*				Die off
Leach	295	1933*					1
Lectern	324	1962+					1
Long	55			1959*			4
Lorraine	277			1942+			5
Maligne	221	?+		1928+			2,5
Marjorie	407	1925*		1952*		1958*	3,6
Medicine	369	?+		1943+			2,5
Mildred	390	1957*		1949*			2,5
Mile 9 JE HWY	493	1957+		1957+			3,6
Mile 14 JE HWY	506	1964*		1957*			2,5
Mile 16 1/2 JB HWY	297	1956*		1956*			2,5
Mile 17 1/2 JB HWY	294	1968*		1968*			1,4
Mile 54 JB HWY	32	1959*		1958*			1,4
Mina	403	1936*		1952*		1953*	3,6
Minnow	420	1933*		1931*			3,6
Moab	194	1955+			1950+	1961*	1,7
Moat	310	?+					1
Mona	278			1942+			5
Moose	275			1968#			5
No Name #2 (Mile 27)	160			1947+			4
No Name #1 (Mile 27)	161			1947+			4
No Name #3 (Mile 27)	162			1947+			4
No Name #4 (Mile 27)	163			1947+			4
No Name #5 (Mile 27)	164			1947+			4
Osprey	146	1936#				1953*	2,8
Patricia	397	1919#	1917*	1952#			3,6

HISTORICAL RECORDS SHOWING YEAR OF FIRST TROUT PLANTINGS IN LAKES

Legend:

? - no record of first planting

+ - natural reproduction occurs

* - no natural reproduction

- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES
NAME	NUMBER	RB	CUTT	BT	LT	SPL	MAP NUMBERS
Princess	581		1963*	1964*			6
Pyramid	396	1933+	1968+	1951+	1917+	1961+	3,6,9
Rathlin	413	1963*	1934*	1963*			3,6
Riley	405	1937*		1952*			3
Saturday Night	412	1942*		1965*			3,5
Skyline Pond	342			1966#			Die off
Summit (Opal)	267		1934*	1963*			Die off
Summit #1	372			1963*			Die off
Summit #2	373			1963*			Die off
Surprise	358			1959*			Die off
Talbot	504			1957*	1958*	1957*	2
Topaz	710	1938+					3
Trefoil #1	388	1938*		1927*	1956*	1956*	2,5
Trefoil #2	389	1936*		1924*			2,5
Trefoil #3	394	1940*		1944*			2
Twin #2	759	1962#		1963#			2,5
Twintree	655	?+					3
Utopia	501		1963#				8
Vine Cr. Beaver Dam	767	1946*		1964*			3,6
Virl	423	?*	1934*	1962*			6
Wabasso #3	765		1925*	1963*			2,5

HISTORICAL RECORDS SHOWING YEAR OF FIRST TROUT PLANTINGS IN LAKES

Legend:

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* - no natural reproduction

- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES
NAME	NUMBER	RB	CUTT	BT	LT	SPL	MAP NUMBERS
Agnes	174					1951+	26
Alice	281	1964#					17
Annette	171	1964+	1959+				17,20
Altrude (First)	85		1926*				19
Altrude (Second)	84		1926+				19
Altrude (Third)	478		1954#				19
Allenby	27	1964#					16
Arnica	82		1957#				19
Badger	144			1964#			22
Baker	198		1931+	1965+			20,23
Baker (Little)	199		1935*	1962*			20,23
Beau	258	1964+		1967+			17
Belgium	3		1959#				19
Bighorn	233			1964#			22
Black Rock	49		1947+				19
Block (First)	132		1957#			1957#	19,25
Block (Second)	133		1957#			1957#	19,25
Block (Third)	134		1957+				19
Boom	86	1937+	1915+				17,20
Borgeau	56			1958+			22
Boulder	115		1958#			1958#	19,25
Bow	279	1937#	1934+		1964+		17,20,26
Brachiopod	200		1939*	1964*			20,23
Castilleja	193	1964#					17
Chephren	416	1934+	1949+	1964+			18,21,24
Cirque	418	1934+		1963+			18,24
Citadel	37	1964#					16
Consolation (Upper)	92			1964*			23
Consolation (Lower)	91		1922+				20
Copper	78	1956*					16
Cuthead	227		1966+				19
David	408	1964#					18
Devon (Upper)	358		1964#				20
Devon (Lower)	357			1964#			23
Douglas	212		1949+	1964+			20,23
Egypt	51		1930+	1965+			19,22
Fatigue	34	1964#					16
Ghost #1	69	1936#	1934#				16,19
Ghost #2	70	1936#	1934#				16,19
Ghost #3	71	1936#	1934#				16,19

HISTORICAL RECORDS SHOWING YEAR OF FIRST TROUT PLANTINGS IN LAKES

Legend:

? - no record of first planting

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* - no natural reproduction

- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES
NAME	NUMBER	RB	CUTT	BT	LT	SPL	MAP NUMBERS
Gloria	21		1959+				19
Goat's Eye	477	1964#					16
Haiduk	47		1933+				19
Healy #1	41		1964#				19
Healy #2	42		1964#				19
Hector	266	1938+	1934+	1965+		1961+	20,23,26
Helen	283	1940#		1964#			17,23
Herbert	182	1937*	1930*	1963*		1950*	23
Herbert (Little)	184	1960*		1959*			17,23
Hidden	192		1933*				20
Horseshoe	249	?+		1964+			17,23
Howard Douglas	39		1964#				22
Isabella	390	1959#					17
Johnson	73	1919+	1926+	1960+			16,22
Katherine	288		1947+				20
Kingfisher	167	1956*	1931*	1960*			17,23
Lagoon	413	1964*					18
Leman	5		1927+				19
Lost	179		1932#	1962#			20,23
Louise	172	1946+	1915+	1941+		1960*	17,20 23,26
Luellen	102		1934+				19
Margaret	271		1953+	1963+			20,23
Martin	351			1965#			23
Marvel	12		1927+				19
Mary	280		1959#	1964#			20,23
Merlin	191	1964#		1964#			23
Minewakun	175			1964#			23
Minnewanka	72	1941+	1937+	1932+	1914+	1957+	16,19, 22,25
Mistaya	386		1929#	1963#			20,23
Moraine	89	1937*	1915*			1958*	20,26
Mosquito	303		1957*			1957*	Die off
Mosquito Pond	-	?+					26
Mud	169	1967+	1926+	1956+			17,23
Mummy	44		1947+				19
Myosotis	196	1964#					17

HISTORICAL RECORDS SHOWING YEAR OF FIRST TROUT PLANTINGS IN LAKES

Legend:

? - no record of first planting

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- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES MAP NUMBERS
NAME	NUMBER	RB	CUTT	BT	LT	SPL	
Mystic	113		?+				19, 25
Norman	461			1942+			24
O'Brien	96		1932+				20
Outram	409	1964#					18, 27
Owl	10			1959*			22
Oyster	202			1964#			23
Peyto	383		1935+				20
Pharoah	50		1947+				19
Pilot	475	1956*	1926*	1956*			16, 22
Pipestone	318		1966#				20
Pipit	244	1964#					17
Ptarmigan	195		1931+	1964+			20, 23
Rainbow	114	1937+					16
Red Deer (Lower)	260	1937+					17
Red Deer (Upper)	261	1937*	1968*	1960*			17
Redoubt	197		1932#	1962#			20, 23
Rockbound	101	1964#	1955#	1965#			16, 19, 22
Sawback	108		?+				19
Scarab	45		1942#				19
Shadow	46	1959+	1930+	1964+			19, 22
Smith	79		1941+	1962+			19, 22
Snowflake	242	1962*		1964*			17, 23
Sphinx	48		1957+				19
Stenton Pond	479	1959*		1959*			22
Stoney Cr. Pond	476	1945#		1967#			22
Sunwapta	469		1956#	1960#		1957#	21, 24, 27
Taylor	94		1931+				20
Terrapin	20		1959+				19
Temple	170	1964+		1964+			17, 23
Tilted	201		1939#	1964#			23
Totem	420	1964#					18
Turquoise	272					1959+	26
Twin (Upper)	81		1953+				19
Twin (Lower)	80		1953+				19
Two Jack	74	1942#	1926#	1953#		1961#	16, 25

HISTORICAL RECORDS SHOWING YEAR OF FIRST TROUT PLANTINGS IN LAKES

Legend:

? - no record of first planting

+ - natural reproduction occurs

* - no natural reproduction

- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES
NAME	NUMBER	RB	CUTT	BT	LT	SPL	MAP NUMBERS
Vermilion (First)	64	1956+	1926+	1957+		1968*	16,19, 22,25
Vermilion (Second)	62	1956+		1951+			16,22,25
Vermilion (Third)	61	1956+	1926+	1931+		1968*	16,22,25
Vista	83		1922+	1938+			19,22
Warden (Upper)	457	1956*		1941*		1954*	18,24,27
Warden (Lower)	458	1956*		1941*		1954*	18,24,27
Watchman	436		1956#				21
Waterfowl (Lower)	417	1934+	1936+	1961+			18,21,24
Waterfowl (Upper)	419	1934+	1936+	1963+			18,21,24
Wigmore Pond	228	1969#					16,22
Zigadenus	194	1964#					17

WATERTON LAKES NATIONAL PARK

C8

HISTORICAL RECORDS SHOWING YEAR OF FIRST TROUT PLANTINGS IN LAKES

Legend:

? - no record of first planting

+ - natural reproduction occurs

* - no natural reproduction

- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES
NAME	NUMBER	RB	CUTT	BT	LT	SPL	MAP NUMBERS
Alderson	14		1928+				37
Bertha	16	1922+	1936+				36
Buffalo	45	1929+	1929+	1955+			32, 34
Buffalo Cr. Ponds	44	1955+		1955+			32, 34
Cameron	7	1921+	1934+	1922+			33, 35
Carthew (Upper)	11	1962+	1929+				33, 37
Carthew (Lower)	12		1929+				37
Crandell	15	1921+		1950+			33, 35
Crypt	24	1962+	1932+				32, 36
Goat	53	1962+	1934+				33, 37
Knights	22	1931#	1933#	1951#			32, 34, 36
Kesler	51	1964#		1931#			33
Lineham (North)	1		1937+				37
Lineham (South)	2	1962+	1937+				33
Lineham	4		1937+				37
Linnet	18	1956*	1936*	1951*			32, 34
Lone	54		1936+				37
Lonesome	21	1956*		1954*			32, 34
Lost	55-56	1936*	1930*	1951*			33, 35
Rowe (Upper)	3		1936*				Die off
Rowe (Middle)	5		1936*	1952+			35
Rowe (Lower)	6		1934*	1952+			35
Ruby	52	1962+					33
Summit	9		1936*				Die off
Twin (Upper)	59	1924*	1935*	1957*			33, 35
Twin (Lower)	58	1925*	1935*	1963*			33, 35
Waterton (Upper)	17	1922+	1922+	1957+			32, 34, 36
Waterton (Lower)	19	1922+	1922+	1957+			32, 34, 36

YOHO NATIONAL PARK

C9

HISTORICAL RECORDS SHOWING YEAR OF FIRST TROUT PLANTINGS IN LAKES

Legend:

? - no record of first planting

+ - natural reproduction occurs

* - no natural reproduction

- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES
NAME	NUMBER	RB	CUTT	BT	LT	SPL	MAP NUMBERS
Duschesney	42			1963#			45
Emerald	26	1921+	1917+	1906+		1955*	44,45
Hidden	37	1969#		1963#			44,45
Linda	24	1933+	1949+				44,46
Marpole	52	1932#	1968#	1964#			44,45,46
McArthur	8			1964#			45
Morning Glory #1	21		1951+				46
Morning Glory #2	22		1951+				46
Morning Glory #3	23		1951*				46
Narao (South)	18	?#		?#			44,45
Narao (North)	19	1947#		1957#			44,45
Oesa	16	1932#					44
O'Hara	9	1926+	1956+				44,46
Ottertail	3			1956#			45
Ross	17	1929+		1954+			44,45
Schaeffer	10	1951#	1948#				44,46
Sherbrooke	47	1921+			1918+		44,46
Sink	48	1969*		1951*		1958*	44,45
Summit	49	1928*	1949*	1964*			44,45
Vera	25		1963#				46
Wapta	20	1921+	1917+	1956+		1961*	44,45,46
Yoho	43	1928#	1950#	1956#			44,45,46

C10

Legend:

+ - natural reproduction occurs

- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES
NAME	NUMBER	RB	CUTT	BT	LT	SPL	MAP NUMBERS
Cobb	2	1945*	1939*	1947*			48
Dog	5	1946*	1939*	1941*			48
Olive	1	1943*	1939*	1947*			48
Floe	25		1949+				49
Kaufman	38			1965+			49
Kootenay Pond	18	1955*		1960*		1954*	48
Talc	29		1957+	1964+			49

C11

Legend:

+ - natural reproduction occurs

- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES
NAME	NUMBER	RB	CUTT	BT	LT	SPL	MAP NUMBERS
Eva	4		1933+	1963+			52
Jade (Upper)	7	1941+		1967#			52
Jade (Lower)	8	1941+					52
Millar	5	1941+	1933+	1967+			52
Unnamed	14		?+				52

C12

Legend:

+ - natural reproduction occurs

- reproductive success unknown

L A K E		S P E C I E S O F T R O U T					SPECIES
NAME	NUMBER	RB	CUTT	BT	LT	SPL	MAP NUMBERS
Fidelity	8		1963*				54

Appendix D

CHECKLIST OF FISH SPECIES AND LATITUDE AND LONGITUDE POSITIONS
FOR LAKES IN THE MOUNTAIN NATIONAL PARKS

	<u>Page</u>
Jasper National Park	D 1
Banff National Park	D 50
Waterton Lakes National Park	D 80
Yoho National Park	D 84
Kootenay National Park	D 88
Mount Revelstoke National Park	D 90
Glacier National Park	D 91

JASPER NATIONAL PARK

<u>LAKE</u>		<u>FISH SPECIES</u>														<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MAP</u>		
															<u>NUMBER</u>		
1	Nigel L.														1	52 ⁰ 13'N 117 ⁰ 13'W	
2															1	52 ⁰ 13'N 117 ⁰ 32'W	
3															1	52 ⁰ 14'N 117 ⁰ 36'W	
4															1	52 ⁰ 18'N 117 ⁰ 35'W	
5															1	52 ⁰ 16'N 117 ⁰ 19'W	
6															2	52 ⁰ 18'N 117 ⁰ 15'W	
7															2	52 ⁰ 18'N 117 ⁰ 14'W	
8															2	52 ⁰ 18'N 117 ⁰ 13'W	
9															2	52 ⁰ 18'N 117 ⁰ 13'W	
10															2	52 ⁰ 16'N 117 ⁰ 13'W	
11															2	52 ⁰ 14'N 117 ⁰ 13'W	
12															2	52 ⁰ 14'N 117 ⁰ 12'W	
13															2	52 ⁰ 14'N 117 ⁰ 13'W	
14															2	52 ⁰ 15'N 117 ⁰ 12'W	
15															2	52 ⁰ 16'N 117 ⁰ 10'W	
16															2	52 ⁰ 17'N 117 ⁰ 07'W	

JASPER NATIONAL PARK

D 2

<u>LAKE</u>		<u>FISH SPECIES</u>														<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MAP</u>	<u>NUMBER</u>	
17	Brazeau L.															2	52°17'N 117°07'W
18																2	52°17'N 117°06'W
19																2	52°14'N 117°06'W
20																2	52°15'N 117°06'W
21																2	52°17'N 117°06'W
22																2	52°17'N 117°06'W
23																2	52°16'N 117°05'W
24																2	52°14'N 117°04'W
25																2	52°23'N 117°01'W
26		x				x										2	52°24'N 117°03'W
27																2	52°20'N 117°08'W
28																2	52°20'N 117°12'W
29																2	52°22'N 117°14'W
30																2	52°22'N 117°15'W
31																1	52°20'N 117°21'W
32	Mile 54 J.B.	x		x												1	52°22'N 117°22'W

D4

LAKE		FISH SPECIES														MASTER MAP NUMBER	MAP REFERENCE	
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING				
49	Catacombs L.															1	52 ⁰ 25'N 117 ⁰ 47'W	
50																	1	52 ⁰ 26'N 117 ⁰ 46'W
51																	1	52 ⁰ 20'N 117 ⁰ 46'W
52																	1	52 ⁰ 25'N 117 ⁰ 46'W
53																1	52 ⁰ 24'N 117 ⁰ 43'W	
54	Dragon			x												1	52 ⁰ 28'N 117 ⁰ 39'W	
55	Long			x		x										1	52 ⁰ 26'N 117 ⁰ 39'W	
56																1	52 ⁰ 26'N 117 ⁰ 38'W	
57																1	52 ⁰ 26'N 117 ⁰ 38'W	
58																1	52 ⁰ 25'N 117 ⁰ 37'W	
59																1	52 ⁰ 25'N 117 ⁰ 37'W	
60																1	52 ⁰ 25'N 117 ⁰ 35'W	
61																1	52 ⁰ 24'N 117 ⁰ 34'W	
62																1	52 ⁰ 25'N 117 ⁰ 34'W	
63																1	52 ⁰ 25'N 117 ⁰ 34'W	
64																1	52 ⁰ 25'N 117 ⁰ 33'W	

D6

LAKE		FISH SPECIES														MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING			
81																2	52°24'N 117°20'W
82																2	52°25'N 117°18'W
83																2	52°25'N 117°17'W
84																2	52°25'N 117°16'W
85	Wisht															2	52°28'N 117°16'W
86	Azote															2	52°28'N 117°16'W
87	Poboktan															2	52°29'N 117°15'W
88	Upperslate															2	52°29'N 117°15'W
89	Lowerslate															2	52°29'N 117°15'W
90	Lazuline															2	52°29'N 117°15'W
91	Wolverine Pond															2	52°29'N 117°15'W
92	Cloudy															2	52°29'N 117°15'W
93																2	52°29'N 117°12'W
94																2	52°23'N 117°11'W
95																2	52°28'N 117°08'W
96																2	52°29'N 117°07'W

D 8

<u>LAKE</u>		<u>FISH SPECIES</u>														<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MAP</u>		
															<u>NUMBER</u>		
113															2	52°27'N 116°55'W	
114															2	52°28'N 116°55'W	
115															2	52°28'N 116°54'W	
116															2	52°29'N 116°53'W	
117															2	52°29'N 116°53'W	
118															2	52°29'N 116°53'W	
119															2	52°29'N 116°52'W	
120															2	52°29'N 116°52'W	
121															2	52°29'N 116°52'W	
122															2	52°29'N 116°52'W	
123															2	52°29'N 116°52'W	
124															2	52°29'N 116°52'W	
125															2	52°29'N 116°52'W	
126															2	52°29'N 116°52'W	
127															2	52°32'N 116°54'W	
128															2	52°32'N 116°55'W	

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D10

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>		
145	Honeymoon	x													2	52°33'N 117°41'W
146	Osprey	x					x								2	52°33'N 117°41'W
147															1	52°30'N 117°41'W
148															2	52°33'N 117°41'W
149															2	52°33'N 117°41'W
150															2	52°33'N 117°42'W
151															2	52°33'N 117°41'W
152															2	52°33'N 117°42'W
153															1	52°32'N 117°42'W
154															1	52°30'N 117°42'W
155	Honeymoon (Little)			x											2	52°33'N 117°42'W
156															2	52°33'N 117°42'W
157															2	52°33'N 117°43'W
158															2	52°34'N 117°43'W
159															2	52°34'N 117°43'W
160	No Name Mile 27 1/2			x											1	52°33'N 117°46'W

LAKE		FISH SPECIES														MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING			
177	Chalk Beacon															1	52°31'N 118°09'W
178																1	52°31'N 118°13'W
179																1	52°30'N 118°13'W
180																1	52°30'N 118°13'W
181																1	52°30'N 118°14'W
182																1	52°31'N 118°14'W
183																1	52°32'N 118°16'W
184																1	52°39'N 118°15'W
185																1	52°39'N 118°15'W
186																1	52°40'N 118°14'W
187	Chrome	x														1	52°40'N 118°14'W
188																1	52°38'N 118°13'W
189																1	52°38'N 118°13'W
190																1	52°38'N 118°13'W
191	Beryl															1	52°38'N 118°08'W
192	Buttress															1	52°39'N 118°06'W

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D 14

LAKE		FISH SPECIES														MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING			
209	Halcyon															2	52°38'N 117°46'W
210																2	52°37'N 117°44'W
211																2	52°38'N 117°44'W
212																2	52°38'N 117°44'W
213																2	52°39'N 117°44'W
214																2	52°38'N 117°44'W
215	Lower Trapper															2	52°37'N 117°43'W
216																2	52°36'N 117°41'W
217																2	52°38'N 117°42'W
218																2	52°36'N 117°42'W
219																2	52°35'N 117°38'W
220	Ultramaligne															2	52°35'N 117°30'W
221	Maligne	x		x												2	52°40'N 117°33'W
222																2	52°34'N 117°20'W
223	Southesk (Upper)															2	52°37'N 117°20'W
224																2	52°37'N 117°19'W

LAKEFISH SPECIES

<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
241															2	52°37'N 116°50'W
242															2	52°38'N 116°50'W
243															2	52°41'N 116°50'W
244															2	52°41'N 116°50'W
245															2	52°39'N 116°49'W
246															2	52°39'N 116°49'W
247															2	52°42'N 117°06'W
248															2	52°41'N 117°06'W
249															2	52°42'N 117°07'W
250															2	52°42'N 117°08'W
251															2	52°42'N 117°08'W
252															2	52°44'N 117°09'W
253	Cairn														2	52°42'N 117°09'W
254	Medicine Tent #1														2	52°43'N 117°09'W
255	Medicine Tent #2														2	52°43'N 117°10'W
256															2	52°44'N 117°10'W

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D 17

<u>LAKE</u>		<u>FISH SPECIES</u>														<u>MASTER</u>	<u>MAP</u>	<u>REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>NUMBER</u>			
257	Summit (Opal)														2	52°40'N 117°12'W		
258															2	52°42'N 117°20'W		
259															2	52°40'N 117°23'W		
260															2	52°41'N 117°25'W		
261															2	52°41'N 117°25'W		
262															2	52°42'N 117°26'W		
263															2	52°42'N 117°27'W		
264															2	52°42'N 117°27'W		
265															2	52°43'N 117°29'W		
266															2	52°44'N 117°30'W		
267															2	52°44'N 117°34'W		
268															2	52°44'N 117°35'W		
269															2	52°43'N 117°37'W		
270															2	52°43'N 117°37'W		
271															2	52°43'N 117°38'W		
272														2	52°44'N 117°38'W			

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D 20

LAKE		FISH SPECIES														MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING			
305	Amethyst															1	52°42'N 118°10'W
306																1	52°40'N 118°15'W
307																1	52°41'N 118°15'W
308		x		x												1	52°42'N 118°16'W
309																1	52°42'N 118°17'W
310		Moat	x													1	52°43'N 118°19'W
311																1	52°49'N 118°22'W
312																1	52°47'N 118°21'W
313																1	52°47'N 118°21'W
314																1	52°48'N 118°19'W
315															1	52°48'N 118°19'W	
316															1	52°45'N 118°19'W	
317															1	52°47'N 118°19'W	
318															1	52°47'N 118°19'W	
319															1	52°47'N 118°18'W	
320															1	52°46'N 118°13'W	

D 22

LAKE		FISH SPECIES														MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING			
337																2	52°45'N 117°57'W
338																1	52°45'N 117°57'W
339	Wabasso #2															2	52°46'N 117°57'W
340	Wabasso #1															2	52°46'N 117°57'W
341																2	52°46'N 117°57'W
342	Sky Line Pond															2	52°50'N 117°55'W
343																2	52°49'N 117°54'W
344	Centre															2	52°49'N 117°54'W
345	Amber #1															2	52°48'N 117°53'W
346	Amber #4															2	52°48'N 117°53'W
347	Excelsior															2	52°48'N 117°52'W
348	Curator															2	52°47'N 117°51'W
349	Watchtower															2	52°47'N 117°50'W
350																2	52°47'N 117°50'W
351																2	52°48'N 117°50'W
352																2	52°47'N 117°45'W

LAKE		FISH SPECIES														MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING			
401																3	52°52'N 118°06'W
402																3	52°52'N 118°06'W
403	Mina	x		x												3	52°52'N 118°06'W
404	Cottonwood B.D. #2	x		x												3	52°53'N 118°06'W
405	Riley	x														3	52°53'N 118°07'W
406	Cabin	x							x							3	52°52'N 118°07'W
407	Marjorie	x		x												3	52°51'N 118°07'W
408	Hibernia	x														3	52°52'N 118°08'W
409	Hidden															3	52°52'N 118°08'W
410	Caledonia	x		x					x							3	52°51'N 118°09'W
411		x														3	52°52'N 118°09'W
412	Saturday Night	x		x												3	52°53'N 118°10'W
413	Rathlin	x		x												3	52°52'N 118°11'W
414	Caledonia Cr. B.D.	x		x												3	52°52'N 118°12'W
415	Bench		x	x												3	52°52'N 118°12'W
416	High Lakes #1															3	52°53'N 118°12'W

D 28

<u>LAKE</u>		<u>FISH SPECIES</u>														<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MAP</u>	<u>NUMBER</u>	
433															3	52°53'N 118°18'W	
434															3	52°53'N 118°19'W	
435															3	52°53'N 118°19'W	
436															3	52°54'N 118°19'W	
437	Golden	x													3	52°53'N 118°19'W	
438	Cutt		x												3	52°53'N 118°20'W	
439															3	52°54'N 118°21'W	
440	Flora	x													1	52°52'N 118°26'W	
441	Upper Rink														3	52°55'N 118°34'W	
442															3	52°53'N 118°35'W	
443															3	52°53'N 118°35'W	
444	Rink														3	52°53'N 118°35'W	
445															3	52°54'N 118°36'W	
446															3	52°54'N 118°36'W	
447															3	52°53'N 118°35'W	
448	O'Bierne #2														3	52°54'N 118°36'W	

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D18

LAKE		FISH SPECIES														MASTER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MAP NUMBER		
273	Moose Lake															2	52°44'N 117°38'W
274																2	52°44'N 117°38'W
275					x											2	52°42'N 117°38'W
276																2	52°43'N 117°39'W
277	Lorraine			x												2	52°44'N 117°40'W
278	Mona			x												2	52°44'N 117°40'W
279	Evelyn	x		x												2	52°44'N 117°40'W
280																2	52°44'N 117°47'W
281																2	52°44'N 117°47'W
282																2	52°44'N 117°47'W
283	Caribou															2	52°44'N 117°48'W
284	Antler (Lower)															2	52°44'N 117°49'W
285	Antler (Upper)															2	52°44'N 117°49'W
286	Colfair (Upper)	x														2	52°43'N 117°51'W
287	Horseshoe	x														2	52°41'N 117°51'W
288	Edwards	x														2	52°41'N 117°51'W

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D 24

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>		
369	Medicine	x		x					x						2	52°51'N 117°45'W
370															2	52°54'N 117°43'W
371	Jacques					x									2	52°55'N 117°45'W
372	Summit Lakes #1														2	52°53'N 117°45'W
373	Summit Lakes #2														2	52°53'N 117°45'W
374															2	52°55'N 117°50'W
375															2	52°50'N 117°55'W
376															2	52°51'N 117°56'W
377	Tekarra														2	52°50'N 117°57'W
378															2	52°51'N 117°57'W
379															2	52°54'N 118°00'W
380															2	52°53'N 118°01'W
381	Hatchery Spring Supply														2	52°55'N 118°00'W
382	Maligne Range Pond					x									2	52°55'N 118°01'W
383															2	52°55'N 118°01'W
384	Keith														2	52°54'N 118°01'W

D3

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER</u>	
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MAP</u>	<u>MAP REFERENCE</u>
															<u>NUMBER</u>	
33	Lick L.														1	52°22'N 117°23'W
34															1	52°22'N 117°24'W
35															1	52°22'N 117°42'W
36															1	52°27'N 117°54'W
37															1	52°27'N 117°53'W
38															1	52°27'N 117°53'W
39															1	52°26'N 117°53'W
40															1	52°27'N 117°51'W
41															1	52°27'N 117°51'W
42															1	52°26'N 117°51'W
43															1	52°26'N 117°52'W
44															1	52°26'N 117°51'W
45															1	52°26'N 117°51'W
46															1	52°26'N 117°50'W
47															1	52°25'N 117°48'W
48														1	52°20'N 117°48'W	

D5

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MAP</u>	
															<u>NUMBER</u>	
65															1	52°24'N 117°33'W
66															1	52°25'N 117°28'W
67															1	52°25'N 117°28'W
68															1	52°24'N 117°28'W
69															1	52°24'N 117°28'W
70	Whitewater														2	52°29'N 117°27'W
71	N. Pika														2	52°29'N 117°27'W
72	S. Pika														2	52°29'N 117°26'W
73															2	52°29'N 117°26'W
74	Phalarope														2	52°29'N 117°26'W
75	Lagopus Pond														2	52°28'N 117°26'W
76	Branchinecta Pond														2	52°28'N 117°25'W
77	Coyote Pond														2	52°28'N 117°25'W
78	Wapiti Pond														2	52°28'N 117°25'W
79															2	52°24'N 117°21'W
80															2	52°24'N 117°21'W

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D 7

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MAP</u>	
															<u>NUMBER</u>	
97															2	52°29'N 117°07'W
98															2	52°29'N 117°03'W
99															2	52°27'N 117°00'W
100															2	52°28'N 116°58'W
101															2	52°28'N 116°58'W
102															2	52°29'N 116°58'W
103															2	52°28'N 116°57'W
104															2	52°28'N 116°57'W
105															2	52°28'N 116°57'W
106															2	52°28'N 116°57'W
107															2	52°28'N 116°57'W
108															2	52°28'N 116°57'W
109															2	52°29'N 116°57'W
110															2	52°29'N 116°57'W
111															2	52°29'N 116°57'W
112															2	52°29'N 116°57'W

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D9

<u>LAKE</u>		<u>FISH SPECIES</u>														<u>MASTER</u>	<u>MAP</u> <u>NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>				
129	Oreamnos															2	52°30'N 116°58'W	
130																2	52°32'N 117°00'W	
131																2	52°34'N 117°11'W	
132																2	52°30'N 117°13'W	
133																2	52°32'N 117°14'W	
134																2	52°31'N 117°15'W	
135																2	52°31'N 117°15'W	
136																2	52°31'N 117°15'W	
137																2	52°34'N 117°18'W	
138																2	52°32'N 117°25'W	
139	Replica															2	52°30'N 117°27'W	
140	Lower Ouzel															2	52°31'N 117°28'W	
141	Upper Ouzel															2	52°31'N 117°29'W	
142																1	52°30'N 117°38'W	
143																1	52°30'N 117°38'W	
144	Buck															2	52°32'N 117°40'W	

JASPER NATIONAL PARK

D 11

<u>LAKE</u>		<u>FISH SPECIES</u>														<u>MASTER</u> <u>MAP</u> <u>NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>			
161	No Name Mile 27 1/2			x												1	52°33'N 117°46'W
162	No Name Mile 27 1/2			x												1	52°33'N 117°46'W
163	No Name Mile 27 1/2			x												1	52°33'N 117°46'W
164	No Name Mile 27 1/2			x												1	52°34'N 117°47'W
165	Fryatt	x														1	52°30'N 117°52'W
166																1	52°33'N 117°56'W
167																1	52°33'N 117°56'W
168	Upper Fryatt															1	52°33'N 117°57'W
169	Geraldine 5th	x		x												1	52°34'N 117°56'W
170	Geraldine 4th	x		x												1	52°34'N 117°56'W
171																1	52°32'N 117°57'W
172	Divergence															1	52°30'N 117°58'W
173																1	52°30'N 117°58'W
174																1	52°29'N 118°01'W
175																1	52°29'N 118°01'W
176																1	52°31'N 118°09'W

JASPER NATIONAL PARK

D13

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>		
193															1	52°36'N 118°06'W
194	Moab	x			x		x								1	52°39'N 117°57'W
195	Geraldine 3rd	x		x											1	52°35'N 117°56'W
196	Geraldine 2nd	x		x											1	52°36'N 117°56'W
197	Geraldine 1st	x		x											1	52°37'N 117°55'W
198															1	52°39'N 117°55'W
199															1	52°39'N 117°53'W
200															1	52°38'N 117°53'W
201															1	52°38'N 117°53'W
202															1	52°38'N 117°53'W
203															1	52°38'N 117°53'W
204															1	52°39'N 117°53'W
205															1	52°39'N 117°53'W
206															1	52°39'N 117°53'W
207															1	52°36'N 117°53'W
208	Kerkeslin					x									2	52°38'N 117°47'W

JASPER NATIONAL PARK

D 15

LAKE		FISH SPECIES														MASTER	MAP REFERENCE	
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MAP NUMBER			
225	Lac Gris Southesk															2	52°37'N 117°18'W	
226																	2	52°34'N 117°19'W
227																	2	52°35'N 117°18'W
228																	2	52°37'N 117°18'W
229																	2	52°35'N 117°18'W
230																	2	52°38'N 117°14'W
231																	2	52°35'N 117°13'W
232							x										2	52°38'N 117°12'W
233																	2	52°38'N 117°02'W
234																	2	52°40'N 116°51'W
235																	2	52°39'N 116°51'W
236																	2	52°37'N 116°51'W
237																	2	52°37'N 116°51'W
238																	2	52°37'N 116°51'W
239																	2	52°37'N 116°51'W
240																	2	52°37'N 116°50'W

JASPER NATIONAL PARK

D19

<u>LAKE</u>		<u>FISH SPECIES</u>															<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>				
289	Colfair (Lower)																1	52°41'N 117°52'W
290		x		x													2	52°43'N 117°52'W
291																	2	52°39'N 117°51'W
292																	1	52°40'N 117°53'W
293																	1	52°41'N 117°53'W
294	Leach																1	52°40'N 117°53'W
295		x															1	52°41'N 117°54'W
296																	1	52°43'N 117°54'W
297	Mile 16 1/2 J.B.	x		x													1	52°42'N 117°54'W
298																	1	52°42'N 117°54'W
299																	1	52°43'N 117°54'W
300	Cavell																2	52°44'N 117°54'W
301																	2	52°44'N 117°56'W
302			x	x													1	52°42'N 118°03'W
303																	1	52°43'N 118°07'W
304																	1	52°43'N 118°07'W

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>		
321															1	52°46'N 118°12'W
322															1	52°47'N 118°09'W
323															1	52°47'N 118°09'W
324	Lectern	x													1	52°46'N 118°02'W
325															2	52°50'N 118°02'W
326															2	52°51'N 118°01'W
327	Gooseberry			x											2	52°50'N 118°01'W
328	Five Lakes #1	x													2	52°50'N 118°01'W
329	Five Lakes #2														2	52°48'N 118°00'W
330	Five Lakes #3	x		x											2	52°48'N 118°00'W
331	Five Lakes #4	x		x											2	52°48'N 118°00'W
332	Five Lakes #5	x		x											2	52°48'N 117°59'W
333	Wabasso #5														2	52°47'N 117°57'W
334															1	52°46'N 117°59'W
335	Cavern			x											2	52°47'N 117°58'W
336															1	52°45'N 117°58'W

JASPER NATIONAL PARK

D 23

LAKE		FISH SPECIES														MASTER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MAP NUMBER		
353	Surprise															2	52°50'N 117°40'W
354																2	52°47'N 117°39'W
355																2	52°48'N 117°38'W
356																2	52°46'N 117°38'W
357																2	52°46'N 117°38'W
358																2	52°47'N 117°37'W
359																2	52°50'N 117°34'W
360																2	52°47'N 117°34'W
361																2	52°48'N 117°25'W
362																2	52°45'N 117°15'W
363																2	52°48'N 117°13'W
364																2	52°52'N 117°28'W
365																2	52°52'N 117°41'W
366																2	52°52'N 117°41'W
367															2	52°53'N 117°43'W	
368	Beaver	x		x											2	52°51'N 117°43'W	

JASPER NATIONAL PARK

D25

LAKE		FISH SPECIES														MASTER		MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MAP	NUMBER		
385	Edith	x														2	52°54'N 118°02'W	
386	Ochre															2	52°54'N 118°02'W	
387	Annette	x		x												2	52°54'N 118°02'W	
388	Trefoil #1	x		x												2	52°53'N 118°03'W	
389	Trefoil #2	x		x												2	52°53'N 118°03'W	
390	Mildred															2	52°53'N 118°03'W	
391																2	52°51'N 118°03'W	
392																2	52°50'N 118°03'W	
393	Lac Beauvert	x		x		x		x	x	x					x	2	52°52'N 118°03'W	
394	Trefoil #3															2	52°54'N 118°03'W	
395	Katrine															3	52°55'N 118°04'W	
396	Pyramid	x	x	x	x		x	x	x	x						3	52°55'N 118°05'W	
397	Patricia	x		x												3	52°54'N 118°05'W	
398	Cottonwood B.D. #1	x		x												3	52°53'N 118°06'W	
399																3	52°54'N 118°06'W	
400																3	52°53'N 118°06'W	

JASPER NATIONAL PARK

D 27

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>		
417	High Lakes #2														3	52°53'N 118°13'W
418	High Lakes #3														3	52°53'N 118°13'W
419	Iris	x													3	52°52'N 118°13'W
420	Minnow	x		x											3	52°53'N 118°13'W
421				x											3	52°52'N 118°13'W
422	Dorothy	x													3	52°52'N 118°13'W
423	Vir1			x											3	52°52'N 118°13'W
424	High Lakes #4			x											3	52°53'N 118°13'W
425	High Lakes #5			x											3	52°54'N 118°14'W
426	Christine			x											3	52°52'N 118°14'W
427															3	52°52'N 118°14'W
428															3	52°52'N 118°14'W
429	High Lakes #7			x											3	52°53'N 118°14'W
430	High Lakes #6	x													3	52°53'N 118°15'W
431															3	52°52'N 118°15'W
432															3	52°53'N 118°15'W

LAKE		FISH SPECIES														MASTER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MAP NUMBER		
449																3	52°53'N 118°36'W
450																3	52°53'N 118°36'W
451																3	52°53'N 118°36'W
452	O'Bierne #5															3	52°53'N 118°36'W
453	O'Bierne #1															3	52°55'N 118°36'W
454																3	52°52'N 118°36'W
455																3	52°53'N 118°36'W
456																3	52°53'N 118°36'W
457																3	52°55'N 118°36'W
458																3	52°54'N 118°36'W
459																3	52°54'N 118°36'W
460																3	52°57'N 118°39'W
461																3	52°57'N 118°39'W
462																3	52°59'N 118°38'W
463																3	52°58'N 118°37'W
464	Miette					x										3	53°00'N 118°37'W

LAKE		FISH SPECIES														MASTER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MAP NUMBER		
465																3	52°58'N 118°37'W
466																3	52°56'N 118°37'W
467																3	52°56'N 118°36'W
468																3	52°56'N 118°36'W
469																3	52°59'N 118°34'W
470	Moren #1															3	53°00'N 118°33'W
471																3	53°00'N 118°32'W
472																3	52°56'N 118°32'W
473																3	52°55'N 118°32'W
474		Moren #2															3
475																3	53°00'N 118°32'W
476																3	53°00'N 118°32'W
477																3	52°57'N 118°30'W
478																3	53°00'N 118°32'W
479																3	53°00'N 118°32'W
480																3	52°57'N 118°20'W

JASPER NATIONAL PARK

D 31

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>		
481	Henry														3	52°56'N 118°16'W
482	Kerr (North)														3	52°56'N 118°14'W
483	Kerr (South)														3	52°56'N 118°14'W
484	Kerr Pond														3	52°56'N 118°14'W
485	Cairngorm (South)														3	52°55'N 118°12'W
486	Cairngorm (Pond)														3	52°56'N 118°13'W
487	Cairngorm (North)														3	52°56'N 118°12'W
488															3	52°56'N 118°12'W
489	Zengel														3	52°58'N 118°11'W
490	Zengel Pond														3	52°58'N 118°09'W
491															3	52°59'N 118°06'W
492															3	52°59'N 118°05'W
493	Mile 9 J.E. Rd	x		x											3	52°59'N 118°05'W
494															3	52°56'N 118°05'W
495															3	52°56'N 118°04'W
496											x		x		3	53°00'N 118°04'W

JASPER NATIONAL PARK

D 32

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>		
497	Utopia														2	52°56'N 117°50'W
498															2	53°00'N 117°37'W
499															2	53°00'N 117°33'W
500															2	53°04'N 117°44'W
501			x												2	53°05'N 117°44'W
502	Talbot														2	53°05'N 117°55'W
503															2	53°05'N 117°55'W
504		x							x	x	x		x	x	2	53°05'N 117°59'W
505		x		x										x	2	53°04'N 118°02'W
506		x		x											2	53°02'N 118°04'W
507	Mile 14 J.E. Rd														3	53°05'N 118°01'W
508															3	53°04'N 118°03'W
509															3	53°04'N 118°05'W
510											x		x		3	53°03'N 118°06'W
511															3	53°02'N 118°06'W
512	Chetaman														3	53°02'N 118°11'W

JASPER NATIONAL PARK

D 33

<u>LAKE</u>		<u>FISH SPECIES</u>														<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MAP</u>		
															NUMBER		
513															3	53°02'N 118°21'W	
514															3	53°01'N 118°22'W	
515															3	53°02'N 118°22'W	
516															3	53°01'N 118°22'W	
517															3	53°03'N 118°22'W	
518															3	53°02'N 118°24'W	
519															3	53°02'N 118°25'W	
520															3	53°02'N 118°27'W	
521															3	53°02'N 118°27'W	
522															3	53°01'N 118°27'W	
523															3	53°02'N 118°28'W	
524															3	53°02'N 118°29'W	
525															3	53°02'N 118°28'W	
526															3	53°01'N 118°29'W	
527															3	53°03'N 118°29'W	
528															3	53°03'N 118°29'W	

JASPER NATIONAL PARK

D 35

<u>LAKE</u>		<u>FISH SPECIES</u>														<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>			
545	Beatrix Adolphus	x														3	53°02'N 118°37'W
546																3	53°02'N 118°38'W
547																3	53°03'N 118°38'W
548																3	53°03'N 118°38'W
549																3	53°03'N 118°38'W
550																3	53°03'N 118°41'W
551																3	53°03'N 118°44'W
552																3	53°03'N 118°44'W
553																3	53°10'N 119°07'W
554																3	53°10'N 119°07'W
555																3	53°11'N 118°48'W
556																3	53°10'N 118°43'W
557																3	53°09'N 118°43'W
558																3	53°06'N 118°43'W
559																3	53°06'N 118°42'W
560																3	53°10'N 118°39'W

JASPER NATIONAL PARK

D 36

LAKEFISH SPECIES

<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
561	Eagle Moraine Pond Snaring (Upper) Snaring (Lower)														3	53°08'N 118°39'W
562															3	53°09'N 118°38'W
563															3	53°08'N 118°37'W
564															3	53°08'N 118°37'W
565															3	53°07'N 118°36'W
566															3	53°07'N 118°35'W
567															3	53°09'N 118°33'W
568															3	53°09'N 118°30'W
569															3	53°09'N 118°30'W
570															3	53°11'N 118°30'W
571	Harvey	x													3	53°09'N 118°27'W
572															3	53°11'N 118°26'W
573															3	53°11'N 118°24'W
574															3	53°11'N 118°22'W
575															3	53°09'N 118°21'W
576															3	53°07'N 118°16'W

JASPER NATIONAL PARK

D 37

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>		
577	Haultain														3	53°06'N 118°16'W
578															3	53°06'N 118°16'W
579		x													3	53°09'N 118°16'W
580	Princess														3	53°11'N 118°05'W
581				x											3	53°11'N 118°04'W
582	Celestine	x													3	53°11'N 118°02'W
583	Jasper	x		x		x		x	x	x	x		x	x	3	53°06'N 118°00'W
584															2	53°11'N 117°52'W
585															2	53°12'N 117°50'W
586															3	53°13'N 117°53'W
587								x	x		x		x	x	3	53°13'N 117°53'W
588		x													2	53°12'N 117°54'W
589															3	53°13'N 117°54'W
590															3	53°16'N 118°04'W
591															3	53°14'N 118°22'W
592															3	53°13'N 118°22'W

JASPER NATIONAL PARK

D 38

LAKE		FISH SPECIES														MASTER MAP NUMBER		MAP REFERENCE	
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING					
593																3	53 ⁰ 13'N 118 ⁰ 22'W		
594																3	53 ⁰ 13'N 118 ⁰ 22'W		
595																3	53 ⁰ 12'N 118 ⁰ 23'W		
596																3	53 ⁰ 15'N 118 ⁰ 23'W		
597																3	53 ⁰ 16'N 118 ⁰ 26'W		
598																3	53 ⁰ 15'N 118 ⁰ 26'W		
599																3	53 ⁰ 11'N 118 ⁰ 26'W		
600																3	53 ⁰ 13'N 118 ⁰ 29'W		
601																3	53 ⁰ 12'N 118 ⁰ 29'W		
602																3	53 ⁰ 14'N 118 ⁰ 30'W		
603																3	53 ⁰ 16'N 118 ⁰ 32'W		
604																3	53 ⁰ 13'N 118 ⁰ 29'W		
605																3	53 ⁰ 12'N 118 ⁰ 43'W		
606																3	53 ⁰ 11'N 118 ⁰ 43'W		
607																3	53 ⁰ 11'N 118 ⁰ 44'W		
608																3	53 ⁰ 11'N 118 ⁰ 44'W		

D 39

LAKE		FISH SPECIES														MASTER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MAP NUMBER		
609																3	53°13'N 118°44'W
610																3	53°13'N 118°44'W
611																3	53°15'N 118°44'W
612																3	53°15'N 118°44'W
613																3	53°15'N 118°44'W
614																3	53°15'N 118°44'W
615																3	53°16'N 118°44'W
616																3	53°16'N 118°44'W
617																3	53°14'N 118°45'W
618																3	53°14'N 118°46'W
619																3	53°12'N 118°50'W
620																3	53°16'N 118°51'W
621																3	53°16'N 118°51'W
622																3	53°13'N 118°51'W
623																3	53°13'N 118°51'W
624																3	53°12'N 118°52'W

JASPER NATIONAL PARK

D 40

LAKE		FISH SPECIES														MASTER		MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MAP	NUMBER		
625																3	53°13'N 118°52'W	
626																3	53°14'N 118°55'W	
627																3	53°15'N 118°56'W	
628																3	53°15'N 118°57'W	
629																3	53°16'N 118°58'W	
630																3	53°11'N 119°04'W	
631																3	53°13'N 119°04'W	
632																3	53°16'N 119°06'W	
633																3	53°15'N 119°07'W	
634																3	53°15'N 119°08'W	
635																3	53°13'N 119°12'W	
636																3	53°12'N 119°13'W	
637																3	53°15'N 119°18'W	
638																3	53°17'N 119°19'W	
639																3	53°20'N 119°19'W	
640																3	53°17'N 119°19'W	

JASPER NATIONAL PARK

D 41

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MAP</u> <u>NUMBER</u>	
641	Twintree	x													3	53°17'N 119°19'W
642															3	53°17'N 119°19'W
643															3	53°19'N 119°19'W
644															3	53°16'N 119°19'W
645															3	53°18'N 119°18'W
646															3	53°20'N 119°15'W
647															3	53°21'N 119°15'W
648															3	53°19'N 119°12'W
649															3	53°19'N 119°11'W
650															3	53°20'N 119°10'W
651															3	53°18'N 119°10'W
652															3	53°20'N 119°08'W
653															3	53°19'N 119°06'W
654															3	53°20'N 119°05'W
655															3	53°22'N 119°06'W
656															3	53°19'N 119°03'W

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D42

<u>LAKE</u>		<u>FISH SPECIES</u>														<u>MASTER</u>	
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MAP</u>	<u>MAP REFERENCE</u>	
															<u>NUMBER</u>		
657															3	53°18'N 119°02'W	
658															3	53°17'N 119°01'W	
659															3	53°20'N 118°59'W	
660															3	53°20'N 118°59'W	
661															3	53°17'N 118°58'W	
662															3	53°21'N 118°58'W	
663															3	53°20'N 118°58'W	
664															3	53°21'N 118°58'W	
665															3	53°20'N 118°57'W	
666															3	53°21'N 118°55'W	
667															3	53°21'N 118°54'W	
668															3	53°17'N 118°54'W	
669															3	53°18'N 118°52'W	
670															3	53°16'N 118°52'W	
671															3	53°16'N 118°51'W	
672															3	53°16'N 118°51'W	

JASPER NATIONAL PARK

D43

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>	<u>MAP</u>	
															<u>NUMBER</u>	
673															3	53°20'N 118°50'W
674															3	53°20'N 118°49'W
675															3	53°21'N 118°47'W
676															3	53°17'N 118°42'W
677															3	53°19'N 118°42'W
678															3	53°19'N 118°42'W
679															3	53°16'N 118°41'W
680															3	53°20'N 118°41'W
681															3	53°17'N 118°41'W
682															3	53°20'N 118°40'W
683															3	53°19'N 118°39'W
684															3	53°19'N 118°39'W
685															3	53°17'N 118°37'W
686															3	53°18'N 118°36'W
687															3	53°18'N 118°34'W
688															3	53°19'N 118°32'W

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>CISCO</u>	<u>NP</u>	<u>LING</u>		
689															3	53°19'N 118°32'W
690															3	53°18'N 118°32'W
691															3	53°18'N 118°32'W
692															3	53°21'N 118°31'W
693															3	53°21'N 118°30'W
694															3	53°21'N 118°30'W
695															3	53°20'N 118°30'W
696															3	53°21'N 118°30'W
697															3	53°21'N 118°28'W
698						x									3	53°21'N 118°21'W
699															3	53°22'N 118°22'W
700															3	53°22'N 118°22'W
701															3	53°23'N 118°23'W
702															3	53°22'N 118°24'W
703															3	53°22'N 118°27'W
704															3	53°22'N 118°27'W

D45

LAKE		FISH SPECIES															
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MASTER MAP NUMBER	MAP REFERENCE	
705	Topaz														3	53°22'N 118°27'W	
706															3	53°22'N 118°28'W	
707															3	53°22'N 118°29'W	
708															3	53°23'N 118°42'W	
709															3	53°22'N 118°43'W	
710		x													3	52°23'N 118°51'W	
711															3	52°22'N 118°52'W	
712															3	52°23'N 118°52'W	
713															3	52°23'N 118°53'W	
714															3	52°23'N 118°53'W	
715															3	52°22'N 118°54'W	
716															3	52°22'N 118°54'W	
717															3	52°23'N 118°54'W	
718															3	52°23'N 118°54'W	
719															3	52°22'N 118°54'W	
720															3	52°22'N 118°55'W	

JASPER NATIONAL PARK

D46

LAKE		FISH SPECIES														MASTER		MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MAP NUMBER			
721	Azure															3	52°22'N 118°54'W	
722																3	52°22'N 118°55'W	
723																3	52°21'N 118°55'W	
724																3	52°22'N 118°55'W	
725																3	52°22'N 118°55'W	
726																3	52°24'N 118°55'W	
727																3	52°24'N 118°56'W	
728																3	52°25'N 118°57'W	
729																3	52°24'N 118°57'W	
730																3	52°23'N 118°57'W	
731																3	52°23'N 118°58'W	
732																3	52°22'N 118°58'W	
733																3	52°22'N 118°59'W	
734																3	52°25'N 118°59'W	
735																3	52°26'N 118°59'W	
736		x													3	52°27'N 119°00'W		

JASPER NATIONAL PARK

D 47

LAKE		FISH SPECIES														MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING			
737																3	52°26'N 118°59'W
738																3	52°26'N 119°00'W
739																3	52°25'N 119°00'W
740																3	52°25'N 119°07'W
741																3	52°25'N 119°07'W
742																3	52°25'N 119°11'W
743																3	52°23'N 119°13'W
744																3	52°25'N 119°13'W
745																3	52°24'N 119°14'W
746																3	52°24'N 119°14'W
747																3	52°24'N 119°14'W
748																3	52°24'N 119°17'W
749																3	52°23'N 119°17'W
750																3	52°23'N 119°20'W
751																3	52°25'N 119°24'W
752																3	52°27'N 119°27'W

D 48

LAKE		FISH SPECIES														MASTER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MAP NUMBER		
753	Omitted															3	52°27'N 119°26'W
754																3	52°27'N 119°26'W
755																3	52°27'N 119°26'W
756																3	52°27'N 119°15'W
757																	
758																3	53°29'N 119°14'W
759	Twin Lakes #2	x	x	x												2	52°51'N 118°04'W
760	Twin Lakes #1															2	52°52'N 118°04'W
761																3	52°03'N 118°05'W
762																3	52°03'N 118°05'W
763																3	52°12'N 118°46'W
764																2	52°44'N 117°54'W
765	Wabasso #3			x												2	52°46'N 117°57'W
766	Wabasso #4															2	52°47'N 117°58'W
767	Vine Creek B.D.	x		x												3	53°04'N 118°05'W
768																1	52°42'N 117°54'W

JASPER NATIONAL PARK

D 49

LAKE		FISH SPECIES														MASTER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	CISCO	NP	LING	MAP NUMBER		
769	Talus Trapper Lakes															2	52°13'N 117°02'W
770																1	52°13'N 117°13'W
771																1	52°08'N 117°26'W
772																1	52°09'N 117°28'W
773																2	52°40'N 117°42'W
774																2	52°38'N 117°42'W
775																2	52°39'N 117°41'W
776																2	52°39'N 117°41'W
777	Cavell (Upper)															2	52°39'N 117°41'W
778																1	52°40'N 118°00'W

BANFF NATIONAL PARK

D50

LAKE		FISH SPECIES													MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	STICK	CISCO			
1	Belgium														4	50°43'N 115°22'W
2															4	50°42'N 115°23'W
3		x													4	50°42'N 115°23'W
4															4	50°43'N 115°24'W
5	Leman		x												4	50°44'N 115°25'W
6															4	50°46'N 115°29'W
7															4	50°45'N 115°28'W
8															4	50°47'N 115°27'W
9															4	50°46'N 115°27'W
10	Owl			x											4	50°51'N 115°31'W
11															4	50°53'N 115°31'W
12	Marvel		x												4	50°52'N 115°33'W
13															4	50°49'N 115°33'W
14															4	54°49'N 115°34'W
15															4	50°50'N 115°34'W
16															4	50°50'N 115°34'W

LAKE		FISH SPECIES												MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	STICK	CISCO		
17	Terrapin													4	50°50'N 115°34'W
18														4	50°50'N 115°34'W
19														4	50°50'N 115°34'W
20			x											4	50°51'N 115°35'W
21			x											4	50°51'N 115°36'W
22														4	50°59'N 115°37'W
23														4	50°59'N 115°37'W
24														4	50°59'N 115°37'W
25														4	50°59'N 115°37'W
26														4	50°58'N 115°36'W
27	Allenby	x												4	50°58'N 115°35'W
28														4	50°56'N 115°32'W
29														4	50°57'N 115°26'W
30														4	51°02'N 115°33'W
31														4	51°00'N 115°38'W
32														4	51°00'N 115°38'W

LAKE		FISH SPECIES												MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	STICK	CISCO		
33	Fatigue													4	51°00'N 115°39'W
34		x												4	51°01'N 115°41'W
35														4	51°02'N 115°41'W
36														4	51°01'N 115°42'W
37	Citadel	x												4	51°00'N 115°43'W
38														4	51°01'N 115°44'W
39	Howard Douglas			x										4	51°01'N 115°44'W
40														4	51°04'N 115°50'W
41														4	51°04'N 115°51'W
42														4	51°04'N 115°51'W
43														4	51°05'N 115°51'W
44	Mummy		x											4	51°04'N 115°54'W
45	Scarab		x											4	51°05'N 115°54'W
46	Shadow		x	x										4	51°09'N 115°58'W
47	Haiduk		x											4	51°06'N 115°56'W
48	Sphinx		x											4	51°07'N 115°54'W

LAKE		FISH SPECIES												MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	STICK	CISCO		
49	Black Rock		x											4	51°06'N 115°54'W
50	Pharoah		x											4	51°06'N 115°54'W
51	Egypt		x	x										4	51°05'N 115°54'W
52														4	51°08'N 115°51'W
53														4	51°09'N 115°49'W
54														4	51°07'N 115°48'W
55														4	51°08'N 115°48'W
56	Borgeau			x										4	51°08'N 115°47'W
57														4	51°09'N 115°48'W
58														4	51°10'N 115°47'W
59														4	51°09'N 115°38'W
60														4	51°09'N 115°37'W
61	Vermilion (Third)	x	x	x		x		x		x		x		4	51°10'N 115°37'W
62	Vermilion (Second)			x		x		x		x		x		4	51°10'N 115°35'W
63												x		4	51°10'N 115°36'W
64	Vermilion (First)		x	x		x		x		x		x		4	51°10'N 115°35'W

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>		
65														4	51°10'N 115°35'W
66														4	51°09'N 115°25'W
67														4	51°08'N 115°24'W
68														4	51°07'N 115°24'W
69	Ghost #1	x			x		x	x		x	x		x	4	51°16'N 115°11'W
70	Ghost #2	x			x		x	x		x	x		x	4	51°16'N 115°12'W
71	Ghost #3	x			x		x	x		x	x		x	4	51°15'N 115°14'W
72	Minnewanka	x			x		x	x		x	x		x	4	51°14'N 115°20'W
73	Johnson	x		x										4	51°11'N 115°28'W
74	Two Jack	x			x	x	x	x		x	x		x	4	51°13'N 115°29'W
75														4	51°12'N 115°31'W
76														4	51°15'N 115°33'W
77														4	51°14'N 115°41'W
78	Copper	x												4	51°15'N 115°55'W
79	Smith		x	x										4	51°14'N 115°55'W
80	Twin (Lower)		x											4	51°11'N 115°58'W

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>		
81	Twin (Upper)		x											4	51°12'N 115°58'W
82	Arnica		x											4	51°13'N 115°59'W
83	Vista		x	x						x				4	51°14'N 116°01'W
84	Altrude (Second)		x											4	51°13'N 116°02'W
85	Altrude (First)		x											4	51°13'N 116°02'W
86	Boom		x											5	51°15'N 116°05'W
87	Eiffel													5	51°19'N 116°14'W
88														5	51°19'N 116°13'W
89	Morraine					x	x							5	51°18'N 116°11'W
90														5	51°19'N 116°09'W
91	Consolation (Lower)		x											5	51°18'N 116°09'W
92	Consolation (Upper)			x										5	51°18'N 116°08'W
93														5	51°16'N 116°07'W
94	Taylor		x											5	51°17'N 116°05'W
95														5	51°16'N 116°05'W
96	O'Brien		x											5	51°16'N 116°05'W

LAKE		FISH SPECIES												MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	STICK	CISCO		
97														5	51°16'N 116°04'W
98														5	51°16'N 116°04'W
99														5	51°18'N 116°02'W
100														5	51°17'N 116°01'W
101	Rockbound	x	x	x										4	51°18'N 115°55'W
102	Luellan		x											4	51°20'N 115°54'W
103														4	51°18'N 115°55'W
104														4	51°19'N 115°54'W
105														4	51°19'N 115°54'W
106														4	51°19'N 115°53'W
107														4	51°20'N 115°49'W
108	Sawback		x											4	51°20'N 115°45'W
109														4	51°18'N 115°44'W
110														4	51°18'N 115°44'W
111														4	51°16'N 115°45'W
112	Fortymile			x										4	51°18'N 115°44'W

LAKE		FISH SPECIES													MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	STICK	CISCO			
113	Mystic		x			x									4	51°16'N 115°44'W
114	Rainbow	x													4	51°21'N 115°43'W
115	Boulder														4	51°20'N 115°42'W
116															4	51°19'N 115°42'W
117	Myosotis	x													4	51°18'N 115°41'W
118															4	51°18'N 115°42'W
119															4	51°19'N 115°40'W
120															4	51°18'N 115°40'W
121															4	54°18'N 115°39'W
122			x												4	51°17'N 115°39'W
123	Elk		x												4	51°17'N 115°39'W
124															4	51°16'N 115°35'W
125															4	51°19'N 115°30'W
126															4	51°19'N 115°29'W
127															4	51°21'N 115°30'W
128															4	51°24'N 115°31'W

LAKEFISH SPECIES

<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>	<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
129														4	51°26'N 115°36'W
130														4	51°22'N 115°49'W
131														4	51°22'N 115°49'W
132	Block (First)		x											4	51°22'N 115°49'W
133	Block (Second)		x											4	51°22'N 115°50'W
134	Block (Third)		x											4	51°22'N 115°50'W
135														4	51°21'N 115°50'W
136														4	51°25'N 115°50'W
137														4	51°21'N 115°50'W
138														4	51°21'N 115°50'W
139														4	51°21'N 115°50'W
140														4	51°21'N 115°51'W
141														4	51°21'N 115°51'W
142	Goat													5	51°26'N 115°51'W
143														4	51°24'N 115°51'W
144	Badger			x										4	51°24'N 115°51'W

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>			
145															5	51°25'N 115°51'W
146															5	51°24'N 115°51'W
147															4	51°22'N 115°51'W
148															5	51°25'N 115°52'W
149															5	51°21'N 115°56'W
150															5	51°21'N 115°56'W
151															5	51°22'N 115°56'W
152															5	51°24'N 115°57'W
153															5	51°22'N 115°58'W
154															5	51°22'N 115°58'W
155															5	51°22'N 115°58'W
156															5	51°22'N 115°58'W
157															5	51°22'N 115°58'W
158															5	51°25'N 115°59'W
159															5	51°24'N 115°58'W
160															5	51°25'N 115°59'W

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>	<u>MAP</u> <u>NUMBER</u>	
161														5	51°25'N 115°59'W
162														5	51°21'N 115°59'W
163														5	51°23'N 115°59'W
164														5	51°25'N 116°04'W
165	Island													5	51°23'N 116°06'W
166														5	51°24'N 116°09'W
167	Kingfisher	x												5	51°24'N 116°09'W
168		x		x										5	51°24'N 116°09'W
169	Mud			x										5	51°26'N 116°10'W
170	Temple	x		x										5	51°21'N 116°10'W
171	Annette	x	x											5	51°21'N 116°12'W
172	Louise	x	x	x		x	x				x			5	51°24'N 116°13'W
173	Mirror													5	51°24'N 116°14'W
174	Agnes						x							5	51°24'N 116°15'W
175	Minewakun			x										5	51°25'N 116°15'W
176														5	51°31'N 116°21'W

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<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER</u>	<u>MAP</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>	<u>NUMBER</u>		
177														5		51°31'N 116°19'W
178														5		51°29'N 116°18'W
179	Lost		x	x										5		51°28'N 116°16'W
180														5		51°27'N 116°16'W
181				x										5		51°27'N 116°14'W
182	Herbert			x										5		51°27'N 116°13'W
183														5		51°27'N 116°13'W
184	Herbert (Little)	x		x										5		51°26'N 116°12'W
185														5		51°27'N 116°11'W
186														5		51°31'N 116°12'W
187														5		51°27'N 116°11'W
188														5		51°28'N 116°08'W
189														5		51°30'N 116°07'W
190														5		51°28'N 116°07'W
191	Merlin	x		x										5		51°30'N 116°06'W
192	Hidden		x											5		51°28'N 116°06'W

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>			
193	Castilleja	x												5	51°30'N 116°06'W	
194	Zigadenus	x												5	51°29'N 116°04'W	
195	Ptarmigan		x	x										5	51°28'N 116°04'W	
196	Myosotis	x												5	51°29'N 116°04'W	
197	Redoubt		x	x										5	51°28'N 116°04'W	
198	Baker		x	x										5	51°29'N 116°02'W	
199	Little Baker			x										5	51°28'N 116°01'W	
200	Brachiopod													5	51°28'N 116°01'W	
201	Tilted			x										5	51°28'N 116°01'W	
202	Oyster													5	51°30'N 116°00'W	
203														5	51°29'N 116°00'W	
204														5	51°30'N 115°59'W	
205														5	51°27'N 115°59'W	
206														5	51°30'N 115°56'W	
207														5	51°31'N 115°56'W	
208														5	51°31'N 115°56'W	

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>		
209	Douglas													5	51°30'N 115°56'W
210														5	51°29'N 115°56'W
211														5	51°28'N 115°56'W
212				X										5	51°32'N 115°56'W
213														5	51°28'N 115°55'W
214														5	51°29'N 115°55'W
215														5	51°27'N 115°54'W
216														5	51°30'N 115°53'W
217														5	51°30'N 115°53'W
218														5	51°27'N 115°52'W
219														5	51°27'N 115°51'W
220														5	51°30'N 115°51'W
221														5	51°30'N 115°51'W
222														5	51°30'N 115°50'W
223														5	51°26'N 115°50'W
224														5	51°26'N 115 49'W

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<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>			
225	Cuthead Wigmore Pond													5	51°27'N 115°48'W	
226														5	51°31'N 115°47'W	
227		x				x								4	51°26'N 115°44'W	
228		x		x		x								4	51°29'N 115°42'W	
229	Lost Horse													4	51°29'N 115°39'W	
230														4	51°28'N 115°39'W	
231														4	51°31'N 115°39'W	
232														4	51°31'N 115°38'W	
233	Bighorn			x										4	51°27'N 115°38'W	
234														4	51°30'N 115°38'W	
235														4	51°28'N 115°36'W	
236														4	51°28'N 115°36'W	
237														4	51°27'N 115°34'W	
238														5	51°33'N 115°37'W	
239														5	51°34'N 115°4'	
240	Grouse													5	51°35'N 115°46'	

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>		
241	Harrison					x								5	51°32'N 115°48'W
242	Snowflake	x		x										5	51°35'N 115°50'W
243														5	51°32'N 115°51'W
244	Pipit	x												5	51°36'N 115°51'W
245														5	51°34'N 115°52'W
246														5	51°35'N 115°53'W
247														5	51°35'N 115°53'W
248														5	51°36'N 115°56'W
249	Horseshoe	x		x										5	51°36'N 115°56'W
250														5	51°33'N 115°56'W
251														5	51°33'N 115°57'W
252														5	51°33'N 115°56'W
253														5	51°33'N 115°58'W
254														5	51°35'N 115°58'W
255														5	51°35'N 115°59'W
256														5	51°36'N 116°00'W

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>		
257	Beau													5	51°36'N 116°00'W
258		x		x										5	51°31'N 116°00'W
259														5	51°37'N 116°01'W
260		x												5	51°32'N 116°01'W
261		x		x										5	51°32'N 116°03'W
262	Hector													5	51°36'N 116°04'W
263														5	51°36'N 116°10'W
264														5	51°34'N 116°12'W
265														5	51°33'N 116°14'W
266			x	x	x	x	x			x				5	51°35'N 116°21'W
267														5	51°33'N 116°20'W
268														5	51°31'N 116°21'W
269														5	51°33'N 116°21'W
270														5	51°36'N 116°22'W
271			x	x										5	51°34'N 116°22'W
272	Turquoise						x							5	51°34'N 116°23'W

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>	<u>MAP</u> <u>NUMBER</u>	
273	Caldron													5	51°36'N 116°24'W
274														5	51°35'N 116°25'W
275														5	51°35'N 116°25'W
276														5	51°35'N 116°25'W
277														6	51°41'N 116°34'W
278	Bow													5	51°40'N 116°29'W
279			x		x	x				x				5	51°40'N 116°27'W
280			x	x										5	51°38'N 116°28'W
281														5	51°41'N 116°24'W
282														5	51°41'N 116°24'W
283	Helen	x		x										5	51°40'N 116°24'W
284	Katherine													5	51°42'N 116°24'W
285														5	51°37'N 116°23'W
286														5	51°37'N 116°23'W
287														5	51°37'N 116°23'W
288			x											5	51°41'N 116°23'W

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>			
289	Dolomite	x													5	51°40'N 116°23'W
290															5	51°41'N 116°22'W
291															5	51°41'N 116°22'W
292															5	51°37'N 116°21'W
293															5	51°38'N 116°17'W
294															5	51°37'N 116°17'W
295															5	51°42'N 116°17'W
296		x													5	51°41'N 116°17'W
297															5	51°38'N 116°16'W
298															5	51°37'N 116°16'W
299															5	51°38'N 116°16'W
300	Mosquito	x													5	51°42'N 116°15'W
301															5	51°38'N 116°15'W
302															5	51°37'N 116°15'W
303															5	51°40'N 116°14'W
304															5	51°42'N 116°14'W

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>			
305	Fish #2													5	51°42'N 116°14'W	
306														5	51°37'N 116°13'W	
307														5	51°40'N 116°13'W	
308														5	51°40'N 116°13'W	
309														5	51°41'N 116°12'W	
310														5	51°41'N 116°11'W	
311			x												5	51°39'N 116°11'W
312															5	51°39'N 116°11'W
313			x												5	51°38'N 116°11'W
314															5	51°37'N 116°10'W
315	Fish #1		x											5	51°38'N 116°10'W	
316	Pipestone													5	51°40'N 116°10'W	
317														5	51°37'N 116°09'W	
318			x											5	51°37'N 116°09'W	
319														5	51°40'N 116°09'W	
320														5	51°40'N 116°07'W	

<u>LAKE .</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>		
321														5	51°41'N 116°07'W
322														5	51°41'N 116°06'W
323														5	51°40'N 116°05'W
324														5	51°40'N 116°05'W
325														5	51°40'N 116°05'W
326														5	51°40'N 116°05'W
327														5	51°39'N 116°04'W
328														5	51°40'N 116°04'W
329														5	51°41'N 116°02'W
330														5	51°41'N 116°01'W
331														5	51°41'N 116°01'W
332														5	51°39'N 116°01'W
333														5	51°42'N 116°00'W
334														5	51°41'N 116°00'W
335														5	51°38'N 115°58'W
336														5	51°38'N 115°55'W

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>		
337	Martin													5	51°39'N 115°55'W
338														5	51°39'N 115°54'W
339														5	51°39'N 115°48'W
340														5	51°44'N 115°54'W
341														5	51°44'N 115°54'W
342														5	51°45'N 115°59'W
343														5	51°44'N 115°59'W
344														5	51°43'N 116°01'W
345														5	51°42'N 116°01'W
346														5	51°45'N 116°02'W
347														5	51°44'N 116°02'W
348														5	51°43'N 116°03'W
349														5	50°45'N 116°07'W
350														5	50°45'N 116°07'W
351				x										5	51°47'N 116°08'W
352						x				x				5	51°46'N 116°08'W

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LAKE		FISH SPECIES													
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	STICK	CISCO	MASTER MAP NUMBER	MAP REFERENCE
353														5	51°42'N 116°08'W
354														5	51°42'N 116°09'W
355														5	51°42'N 116°09'W
356														5	51°46'N 116°11'W
357														5	51°43'N 116°14'W
358														5	51°43'N 116°14'W
359														5	51°47'N 116°15'W
360	Clearwater					x	x				x			5	51°43'N 116°15'W
361														5	51°46'N 116°15'W
362														5	51°43'N 116°15'W
363														5	51°46'N 116°17'W
364														5	51°46'N 116°17'W
365														5	51°46'N 116°18'W
366														5	51°46'N 116°18'W
367														5	51°46'N 116°19'W
368														5	51°44'N 116°20'W

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>		
369	Peyto													5	51°44'N 116°20'W
370														5	51°44'N 116°21'W
371														5	51°44'N 116°21'W
372														5	51°44'N 116°21'W
373														5	51°44'N 116°21'W
374														5	51°44'N 116°22'W
375														5	51°45'N 116°22'W
376														5	51°44'N 116°22'W
377														5	51°42'N 116°22'W
378														5	51°45'N 116°23'W
379														5	51°44'N 116°22'W
380														5	51°42'N 116°24'W
381														5	51°47'N 116°26'W
382														5	51°44'N 116°30'W
383														5	51°43'N 116°31'W
384														5 & 6	51°46'N 116°33'W

<u>LAKE</u>		<u>FISH SPECIES</u>													<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>			
385	Mistaya														5 & 6	51°47'N 116°34'W
386			x												5 & 6	51°48'N 116°35'W
387															5 & 6	51°47'N 116°34'W
388															5	51°49'N 116°27'W
389	Isabella														5	51°48'N 116°26'W
390			x												5	51°47'N 116°25'W
391															5	51°48'N 116°16'W
392															5	51°48'N 116°16'W
393															5	51°47'N 116°16'W
394															5	51°47'N 116°15'W
395															5	51°48'N 116°15'W
396															5	51°47'N 116°14'W
397															5	51°47'N 116°14'W
398															5	51°49'N 116°13'W
399															5	51°49'N 116°13'W
400															5	51°49'N 116°13'W

LAKE		FISH SPECIES												MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	SPL	LNS	CHUB	RMW	LW	STICK	CISCO		
401	Trident													5	51°48'N 116°12'W
402														5	51°48'N 116°12'W
403						x				x				5	51°47'N 116°06'W
404														5	51°48'N 116°03'W
405														5	51°48'N 116°02'W
406	Capricorn													6	51°46'N 116°37'W
407														6	51°47'N 116°54'W
408		x												6	51°51'N 116°50'W
409		x				x								6	51°51'N 116°48'W
410														6	51°52'N 116°48'W
411	Lagoon													6	50°51'N 116°47'W
412														6	51°49'N 116°47'W
413		x												6	51°50'N 116°46'W
414														6	51°52'N 116°42'W
415														6	51°52'N 116°42'W
416	Chephren	x	x	x										6	51°50'N 116°39'W

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>		
417	Lower Waterfowl	x	x	x										6	51°51'N 116°38'W
418	Cirque	x		x										6	51°48'N 116°38'W
419	Upper Waterfowl	x	x	x										6	51°50'N 116°36'W
420	Totem	x												6	51°54'N 116°37'W
421														6	51°53'N 116°37'W
422														6	51°56'N 116°39'W
423														6	51°53'N 116°43'W
424														6	51°57'N 116°44'W
425														6	51°58'N 116°45'W
426														6	51°58'N 116°45'W
427														6	51°57'N 116°45'W
428														6	51°57'N 116°46'W
429														6	51°57'N 116°46'W
430	Glacier					x	x				x			6	51°55'N 116°51'W
431														6	51°56'N 116°53'W
432														6	51°54'N 116°56'W

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>		
433	Cinema Watchman													6	51°54'N 116°57'W
434														6	51°57'N 117°01'W
435														6	52°02'N 117°15'W
436			x											6	52°03'N 117°14'W
437														6	52°00'N 117°11'W
438														6	52°00'N 117°07'W
439														6	51°59'N 117°04'W
440														6	51°58'N 116°57'W
441														6	51°58'N 116°56'W
442														6	51°59'N 116°56'W
443														6	51°59'N 116°56'W
444														6	51°59'N 116°56'W
445														6	51°59'N 116°56'W
446														6	51°59'N 116°55'W
447														6	51°59'N 116°55'W
448														6	51°59'N 116°54'W

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>SPL</u>	<u>LNS</u>	<u>CHUB</u>	<u>RMW</u>	<u>LW</u>	<u>STICK</u>	<u>CISCO</u>		
449														6	52°00'N 116°51'W
450														6	52°00'N 116°46'W
451														6	52°01'N 116°46'W
452														6	51°58'N 116°44'W
453														6	51°58'N 116°43'W
454														6	51°58'N 116°42'W
455														6	51°58'N 116°42'W
456														6	51°58'N 116°42'W
457	Upper Warden	x		x			x							6	51°58'N 116°41'W
458	Lower Warden	x		x										6	51°59'N 116°41'W
459														6	52°03'N 116°47'W
460														6	52°04'N 116°53'W
461	Norman			x										6	52°06'N 116°54'W
462	Alexandra Pond				x	x				x				6	52°04'N 116°56'W
463														6	52°08'N 116°57'W
464														6	52°05'N 116°56'W

[illegible]

WATERTON LAKES NATIONAL PARK

D80

LAKE		FISH SPECIES													MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	LT	DV	NP	LNS	WS	CHUB	LING	RMW	LW			
1	Lineham N.		x											7	49°04'N 114°04'W	
2	Lineham S.	x												7	49°04'N 114°04'W	
3	Rowe (Upper)													7	49°03'N 114°03'W	
4	Lineham		x											7	49°04'N 114°03'W	
5	Rowe (Middle)			x										7	49°03'N 114°03'W	
6	Rowe (Lower)			x										7	49°03'N 114°03'W	
7	Cameron	x		x										7	49°00'N 114°03'W	
8	Little Cameron	x		x				x						7	49°01'N 114°02'W	
9	Summit													7	49°00'N 114°01'W	
10														7	49°02'N 114°01'W	
11	Carthew (Upper)	x	x											7	49°01'N 113°59'W	
12	Carthew (Lower)		x											7	49°01'N 113°59'W	
13	Carthew Pond		x											7	49°01'N 113°59'W	
14	Alderson		x											7	49°01'N 113°58'W	
15	Crandell	x		x										7	49°05'N 113°58'W	
16	Bertha	x												8	49°01'N 113°57'W	

WATERTON LAKES NATIONAL PARK

D 81

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>NP</u>	<u>LNS</u>	<u>WS</u>	<u>CHUB</u>	<u>LING</u>	<u>RMW</u>	<u>LW</u>		
17	Waterton (Upper)	x	x	x	x	x		x	x	x	x	x	x	8	49°00'N 113°54'W
18	Linnet	x		x										8	49°03'N 113°54'W
19	Waterton (Lower)	x	x	x	x	x	x	x	x	x	x	x	x	8	49°03'N 113°52'W
20														8	49°02'N 113°53'W
21	Lonesome	x		x										8	49°04'N 113°53'W
22	Knights	x	x	x	x	x	x	x	x	x	x	x	x	8	49°05'N 113°51'W
23														8	49°00'N 113°50'W
24	Crypt													8	49°00'N 113°50'W
25														8	49°03'N 113°50'W
26														8	49°05'N 113°49'W
27	Y Camp Pond													8	49°05'N 113°49'W
28														8	49°03'N 113°49'W
29														8	49°00'N 113°48'W
30				x										8	49°03'N 113°44'W
31		x		x										8	49°03'N 113°44'W
32				x										8	49°03'N 113°44'W

WATERTON LAKES NATIONAL PARK

D 82

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>NP</u>	<u>LNS</u>	<u>WS</u>	<u>CHUB</u>	<u>LING</u>	<u>RMW</u>	<u>LW</u>		
33	Deer			x										8	49°03'N 113°44'W
34														8	49°00'N 113°43'W
35														8	49°00'N 113°42'W
36														8	49°00'N 113°41'W
37														8	49°00'N 113°41'W
38	Giant's Mirror													8	49°00'N 113°41'W
39		x		x										8	49°03'N 113°41'W
40														8	49°00'N 113°40'W
41	Allison													8	49°07'N 113°48'W
42														8	49°05'N 113°49'W
43	Maskinonge						x	x	x	x	x			8	49°06'N 113°49'W
44	Buffalo Cr. Ponds	x		x										8	49°07'N 113°51'W
45	Buffalo	x		x										8	49°07'N 113°51'W
46	Buffalo Paddock													7	49°07'N 113°52'W
47	Indian Springs Pond													7	49°07'N 113°52'W
48	Indian Springs Pond													7	49°07'N 113°52'W

WATERTON LAKES NATIONAL PARK

D83

<u>LAKE</u>		<u>FISH SPECIES</u>												<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>LT</u>	<u>DV</u>	<u>NP</u>	<u>LNS</u>	<u>WS</u>	<u>CHUB</u>	<u>LING</u>	<u>RMW</u>	<u>LW</u>		
49	Indian Springs Pond													7	49°07'N 113°52'W
50	Indian Springs Pond													7	49°07'N 113°52'W
51	Kesler	x						x	x					7	49°10'N 113°56'W
52	Ruby	x												7	49°05'N 114°01'W
53	Goat	x	x											7	49°09'N 114°05'W
54	Lone		x											7	49°05'N 114°07'W
55	Lost	x		x										7	49°08'N 114°08'W
56	Lost (as above)													7	49°08'N 114°08'W
57	Peek's Basin													7	49°07'N 114°08'W
58	Twin (Lower)	x		x										7	49°07'N 114°09'W
59	Twin (Upper)	x		x										7	49°08'N 114°09'W

YOHO NATIONAL PARK

D84

<u>LAKE</u>		<u>FISH SPECIES</u>						<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>SPL</u>	<u>LT</u>	<u>Sc</u>	<u>MAP</u> <u>NUMBER</u>	
1	Ottertail							9	51°10'N 116°26'W
2								9	51°11'N 116°33'W
3				x				9	51°18'N 116°35'W
4				x				9	51°17'N 116°34'W
5								9	51°17'N 116°34'W
6				x				9	51°17'N 116°34'W
7	McArthur							9	51°20'N 116°20'W
8				x				9	51°19'N 116°20'W
9		x	x					9	51°21'N 116°19'W
10	Schaeffer	x	x					9	51°21'N 116°19'W
11								9	51°20'N 116°18'W
12								9	51°21'N 116°19'W
13								9	51°20'N 116°18'W
14								9	51°20'N 116°18'W
15								9	51°20'N 116°19'W
16	Oesa	x						9	51°21'N 116°17'W

<u>LAKE</u>		<u>FISH SPECIES</u>						<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>SPL</u>	<u>LT</u>	<u>Sc</u>		
17	Ross	x		x				9	51°26'N 116°17'W
18	Narao (South)	x		x				9	51°25'N 116°20'W
19	Narao (North)	x		x				9	51°25'N 116°20'W
20	Wapta	x		x	x	x		9	51°26'N 116°20'W
21	Morning Glory #1		x					9	51°22'N 116°21'W
22	Morning Glory #2		x					9	51°21'N 116°21'W
23	Morning Glory #3		x					9	51°21'N 116°21'W
24	Linda	x	x					9	51°22'N 116°22'W
25	Vera		x					9	51°22'N 116°22'W
26	Emerald	x		x			x	9	51°26'N 116°31'W
27	Snowdrift							9	51°23'N 116°41'W
28								9	51°26'N 116°41'W
29	Crystal Pond							9	51°25'N 116°42'W
30								9	51°23'N 116°42'W
31	Little Gem							9	51°24'N 116°43'W
32	Strata							9	51°25'N 116°45'W

LAKE		FISH SPECIES						MASTER MAP NUMBER	MAP REFERENCE
NUMBER	NAME	RB	CUTT	EBT	SPL	LT	Sc		
33								9	51°29'N 116°43'W
34								9	51°28'N 116°43'W
35	Otto							9	51°28'N 116°42'W
36	Ptarmigan Pond							9	51°26'N 116°41'W
37	Kiwetinok							9	51°31'N 116°35'W
38	Hamilton							9	51°27'N 116°34'W
39								9	51°30'N 116°31'W
40								9	51°30'N 116°31'W
41	Celeste							9	51°31'N 116°30'W
42	Duschesney			x				9	51°31'N 116°30'W
43	Yoho	x	x	x				9	51°28'N 116°28'W
44	Hidden	x		x				9	51°29'N 116°28'W
45								9	51°29'N 116°23'W
46								9	51°29'N 116°23'W
47	Sherbrooke	x					x	9	51°27'N 116°23'W
48	Sink	x		x	x			9	51°27'N 116°18'W

<u>LAKE</u>		<u>FISH SPECIES</u>						<u>MASTER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>	<u>SPL</u>	<u>LT</u>	<u>Sc</u>	<u>MAP</u> <u>NUMBER</u>	
49	Summit	x		x				9	51°27'N 116°17'W
50	Fairey							9	51°32'N 116°28'W
51	Waves Pond							9	51°35'N 116°30'W
52	Marpole	x	x	x				9	51°32'N 116°17'W
53								9	51°33'N 116°33'W
54	Lateral							9	51°34'N 116°33'W
55	Amiskwi							9	51°35'N 116°38'W
56								9	51°34'N 116°38'W
57								9	51°36'N 116°38'W
58								9	51°33'N 116°42'W
59								9	51°32'N 116°43'W
60								9	51°32'N 116°43'W
61	Frigid							9	51°32'N 116°43'W

KOOTENAY NATIONAL PARK

D88

<u>LAKE</u>		<u>FISH SPECIES</u>			<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>		
1	Olive	x		x	10	50°40'N 115°56'W
2	Cobb			x	10	50°39'N 115°52'W
3					10	50°48'N 115°53'W
4					10	50°46'N 115°55'W
5	Dog	x		x	10	50°46'N 115°55'W
6					10	50°44'N 115°56'W
7					10	50°44'N 115°56'W
8					10	50°47'N 115°56'W
9					10	50°53'N 116°01'W
10					10	50°51'N 116°09'W
11					10	50°51'N 116°08'W
12					10	50°53'N 116°05'W
13					10	50°52'N 116°05'W
14					10	50°52'N 116°04'W
15					10	50°50'N 116°03'W
16					10	50°52'N 116°03'W
17					10	50°53'N 116°02'W
18	Kootenay Pond	x		x	10	50°53'N 116°02'W
19					10	50°53'N 116°02'W
20					10	50°50'N 116°01'W
21					10	50°53'N 115°56'W
22					10	50°54'N 115°55'W
23					10	50°57'N 116°00'W
24					10	50°54'N 116°01'W

<u>LAKE</u>		<u>FISH SPECIES</u>			<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>		
25	Floe		x		11	51°03'N 116°08'W
26					11	51°03'N 116°07'W
27					11	51°01'N 116°03'W
28					11	51°01'N 116°02'W
29	Talc				11	51°04'N 115°53'W
30					11	51°12'N 116°20'W
31					11	51°13'N 116°16'W
32					11	51°10'N 116°16'W
33					11	51°12'N 116°16'W
34					11	51°13'N 116°07'W
35					11	51°13'N 116°06'W
36					11	51°12'N 116°01'W
37					11	51°12'N 116°01'W
38	Kaufman			X	11	51°15'N 116°14'W

MOUNT REVELSTOKE NATIONAL PARK

D90

<u>LAKE</u>		<u>FISH SPECIES</u>			<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>		
1	Balsam #1				12	51°02'N 118°09'W
2	Balsam #2				12	51°02'N 118°08'W
3	Heather				12	51°02'N 118°08'W
4	Eva			x	12	51°04'N 118°06'W
5	Millar	x		x	12	51°04'N 118°06'W
6					12	51°05'N 118°05'W
7	Jade (Upper)	x			12	51°04'N 118°04'W
8	Jade (Lower)	x			12	51°04'N 118°04'W
9						51°03'N 118°04'W
10						
11						
12						
13						
14			x		12	51°05'N 117°58'W
15						
16						
17						
18						
19						
20						
21						
22						

GLACIER NATIONAL PARK

D91

<u>LAKE</u>		<u>FISH SPECIES</u>			<u>MASTER MAP NUMBER</u>	<u>MAP REFERENCE</u>
<u>NUMBER</u>	<u>NAME</u>	<u>RB</u>	<u>CUTT</u>	<u>EBT</u>		
1	Marion				13	51°04'N 117°18'W
2					13	51°05'N 117°17'W
3					13	51°05'N 117°17'W
4					13	51°05'N 117°17'W
5					13	51°05'N 117°17'W
6					13	51°10'N 117°23'W
7					13	51°10'N 117°23'W
8			X		13	51°14'N 117°32'W
9					13	51°13'N 117°42'W
10					13	51°15'N 117°30'W
11					13	51°14'N 117°24'W
12					13	51°14'N 117°23'W
13					13	51°14'N 117°21'W
14					13	51°17'N 117°16'W
15					13	51°21'N 117°17'W
16					13	51°18'N 117°20'W
17					13	51°18'N 117°20'W
18					13	51°19'N 117°34'W
19					13	51°19'N 117°34'W
20					13	51°21'N 117°46'W
21					13	51°25'N 117°29'W
22					13	51°24'N 117°28'W
23					13	51°28'N 117°49'W
24					13	51°28'N 117°49'W
25					13	51°28'N 117°50'W
26					13	51°28'N 117°50'W

