

# CKME 130 Project Report: IBM Watson – Campgrounds in Ontario

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## Abstract

Camping in Ontario Parks is one of Canadians' favourite summer activities. The camping industry contributed \$4.7 billion to Canada's GDP [1]. In 2014, more than 5-million Ontarians went camping [2]. Overall, there are more than 125 parks in Ontario and 1,144 campgrounds operating in Ontario [3]. Searching for relevant information on park and tourism websites can be overwhelming and time consuming. The objective of this project is to provide a way for obtaining information related to camping in Ontario parks in a more simple, time efficient manner relative to a traditional website search. We leveraged the power of a cognitive computing platform, the IBM Watson, to mine information based on questions expressed in natural language. Information about camping was collected from the Ontario Parks website and uploaded onto Watson's corpus. A web-scraping Python script was created to parse the HTML files of each of the parks listed on the website. However, a challenge was encountered in this process. The HTML files contained granular information under third level sub-headings. The current web-scraping program, however, was able to include sub-headings only up to the second level. Additional manual editing was performed to include third-level sub-headings. A total of 340 QA pairs were generated to train the Watson QA system. Out of the 25 questions asked in the test phase, the current QA system was able to generate 67% relevant answers. The performance of the current QA system might be improved by training it with more QA pairs or including information from other resources.

## Resources

The Ontario Parks website (<http://www.ontarioparks.com/en>) contains comprehensive, well-organized information of campsites within Ontario provincial parks. The website organizes information about each park into an individual webpage. Camping related information for each park is contained under a tabbed section titled 'Camping'. Information from 126 parks is included in this project.

## Resources Considered

- Ontario Parks website: <http://www.ontarioparks.com/en>

## Resources Not Considered

The following resources contain information about campgrounds outside of Ontario parks. They can be potentially included to improve the scope of the current Watson Canadian Tourism QA system.

- Camping in Ontario: <http://www.campinginontario.ca/>
- KOA campgrounds in Ontario: <http://koa.com/states-provinces/ontario/>
- Regional tourism websites (listing privately owned campgrounds or RV parks), for example:
  - Muskoka camping and RV parks: <http://www.discovermuskoka.ca/where-to-stay2/campgrounds-rvs-trailer-parks.html>
  - Bruce Peninsula tourism: <http://www.thebrucepeninsula.com/camping.html>

## Workload Distribution

A total of 25 documents were generated, and approximately 340 question-answer pairs were created by the whole group. Details of the workload carried out by each team member are described in the following subsections.

### Member 1: Rakesh Dhote

Rakesh wrote a Python web-scraping script to extract all the 126 parks information from the [OntarioParks.com](http://OntarioParks.com) website. The Python script reads the park URL and saves the information of parks in a list of dictionaries. The script then loops through each park ingesting the information and writes each park information in the *Microsoft Word* formatted document up to two-levels of headings. The script uses the BeautifulSoup, Requests, and Python-docx packages. The repo is saved at the Github address:

<https://github.com/rakeshdhote/WebscrapingForIBMWatson.git>

The Python script extracts and writes the formatted *Microsoft Word* document "*Camping Grounds in Ontario.docx*" for the following parks:

*Aaron, Algonquin, Algonquin - Achray, Algonquin - Backcountry, Algonquin - Brent, Algonquin - Canisbay Lake, Algonquin - Coon Lake, Algonquin - Kearney Lake, Algonquin - Kiosk, Algonquin - Lake of Two Rivers, Algonquin - Mew Lake, Algonquin - Pog Lake, Algonquin - Rock Lake, Algonquin - Tea Lake, Algonquin - Whitefish Lake, Arrowhead, Awenda, Balsam Lake, Bass Lake, Batchawana Bay, Biscotasi Lake, Blue Lake, Bon Echo, Bonnechere, Bronte Creek, Caliper Lake, Charleston Lake, Chutes, Craigleith, Darlington, Driftwood, Earl Rowe, Emily, Esker Lakes, Fairbank, Ferris, Finlayson Point, Fitzroy, Forks of the Credit, French River, Frontenac, Fushimi Lake, Grundy Lake, Halfway Lake, Inverhuron, Ivanhoe Lake, John E. Pearce, Kakabeka Falls, Kap-Kig-Iwan, Kawartha Highlands, Kettle Lakes, Killarney, Killbear, Lady Evelyn-Smoothwater, Lake on the Mountain, Lake St. Peter, Lake Superior, Long Point, MacGregor Point, MacLeod, Makobe-Grays River, Mara, Mark S. Burnham, Marten River, McRae Point, Mikisew, Misery Bay, Missinaibi, Mississagi, Mono Cliffs, Murphys Point, Nagagamisis, Neys, North Beach, Oastler Lake, Obabika River, Ojibway, Ouimet Canyon, Oxtongue River - Ragged Falls, Pakwash, Pancake Bay, Petroglyphs, Pigeon River, Pinery, Point Farms, Port Bruce, Port Burwell, Potholes, Presqu'ile, Quetico, Rainbow Falls, René Brunelle, Restoule, Rideau River, Rock Point, Rondeau, Rushing River, Samuel De Champlain, Sandbanks, Sandbar Lake, Sauble Falls, Selkirk, Sharbot Lake, Sibbald Point, Silent Lake, Silver Lake, Sioux Narrows, Six Mile Lake, Sleeping Giant, Solace, Spanish River, Springwater, Sturgeon Bay, Sturgeon River, The Massasauga, Tidewater, Turkey Point, Voyageur, Wabakimi, Wakami Lake, Wasaga Beach, Wheatley, White Lake, Windy Lake, Woodland Caribou.*

### **Worked on the Resources**

Rakesh worked on the two-heading document of 126 parks created using the Python script as well as the three level sub-heading partial subdocument of 15 parks created semi-automatically.

### **Documents Created**

As the current version of the Python script writes the parks information up to the second sub-heading, the additional third level of sub-heading is created manually for the following 15 parks:

*MacLeod, Mara, Mississagi, Mono Cliffs, Murphys Point, Nagagamisis, Neys, Ouimet Canyon, Oxtongue River - Ragged Falls, Potholes, Quetico, Restoule, Rock Point, Rondeau, Rushing River.*

The *Microsoft Word* document "*Camping Grounds in Ontario-RD.docx*" is uploaded separately along with the comprehensive 126 parks document.

### **Questions**

Approximately 60 question-answer (QA) pairs were created by Rakesh. The full list of questions can be found in Appendix B. The following list illustrates some of his questions:

- Which migrant birds can one find in the Ouimet canyon?
- Is interior camping permit necessary at the Quetico?
- What walk-in camping facilities are available at Restoule?
- When is the best time to visit Rondeau?
- Where can one view a model of a former prisoner-of-war (POW) camp?
- Are Motorized vehicles, camping and hunting permitted in Mono Cliffs?

## **Member 2: Renita Sudirga**

### **Worked on the Resources**

Renita created documents and QA pairs pertaining to camping information for the following Ontario parks:

*Aaron, Algonquin, Algonquin - Achray, Algonquin- Backcountry, Algonquin – Brent, Algonquin – Canisbay Lake, Algonquin – Coon Lake, Algonquin – Kearney Lake, Algonquin – Kiosk, Algonquin – Lake of Two Rivers, Algonquin – Mew Lake, Algonquin - Pog Lake, Algonquin – Rock Lake, Algonquin – Tea Lake, Algonquin – Whitefish Lake, Arrowhead.*

She also created QA pairs referring to information in a document created by Rakesh (Camping Grounds in Ontario.docx) for the following Ontario parks: *Awenda, Bass Lake*

### **Documents Created**

She created and uploaded the following 4 documents:

- Group 5\_Camping in Algonquin, Achray, Brent, Canisbay Lake, Coon Lake, Kearney, Kiosk.doc
- Camping in Lake of Two Rivers, Mew Lake, Pog Lake, Rock Lake, Tea Lake, Whitefish Lake.doc
- Backcountry cabins in Algonquin.doc
- Camping in Aaron, Arrowhead.doc

### **Questions**

Approximately 150 QA pairs were created by Renita. The full list of questions can be found in Appendix A. The following list illustrates some of her questions:

- Where can I camp in Algonquin?
- Where are campsites for car camping in Algonquin?
- What camping amenities are available in Aaron park?
- Are there electrical sites in Lake of Two Rivers campground?
- When is Lake of Two Rivers campground open?
- Is Lake of Two Rivers campground open in the winter?

## **Member 3: Mebs Haji**

### **Worked on the Resources**

Mebs worked on uploading the single-heading document created by Rakesh, and testing to verify that the document met requirements. He suggested format corrections on the previously uploaded single-heading documents, and Rakesh re-created the current two-heading document. Mebs also created 5 test park documents, uploaded to verify appropriate format/information presented to Q&A Pairs.

### **Documents Created**

Created and uploaded 5 documents related to following parks:

- Pakwash Park
- Pancake Bay Park
- Pigeon River Park
- Rainbow Falls
- Rideau River

### **Questions**

Approximately 50 QA pairs were created by Mebs. The full list of questions can be found in Appendix C. The following list illustrates some of his questions:

- Can I go on Voyager Hiking Trail?
- Does Rainbow falls offer winter activities?
- Can I fish at north beach?
- Where is North Beach Located?
- Is biking allowed at Rainbow Falls?

## Member 4: Jing (Angela) Huang

### Worked on the Resources

Angela has created documents and QA pairs for Camping information in following Ontario parks: *Caliper Lake Park, Charleston Lake, Chutes Lake, Craigleith Park, Darlington Park, Driftwood Park, Earl Rowe Park, Emily Park, Fairbank Park, Ferris Park, Finlayson Point, Fitzroy Park, French River Park, Frontenac park, Fushimi lake park, Grundy lak, Ivanhoe lake Park, Kakabeka Falls Park, Killarney Park.*

### Documents Created

She created and uploaded the following 4 documents:

- Camping-Caliperlake-Driftwood.doc
- Campsite Earl Rowe Park-Finlayson Point Park-F
- Campsite Fitzroy Park-Grundy Lake-F
- Campsite Ivanheo-killbear park-F

### Questions

She created and trained Watson with approximately 80 QA pairs referring to the above documents. The full list of questions can be found in Appendix D.

## Discussion

### Testing and Performance of the Current QA System

Upon deployment, Watson used the QA pairs we supplied during the training phase to build and improve its machine learning models. Given a question related to information present in its corpus, Watson returns possible answers and their associated confidence scores. To quantify the performance of the current Watson QA system (its Camping in Ontario Parks version), our team presented Watson with 25 questions not presented during the training phase. For each question, we recorded the top answer's confidence score and checked whether the answer was relevant to the question. If Watson returned a relevant answer, we gave a relevance score of 1 (0 was given if the answer was irrelevant). On average, Watson returned relevant answers 67% of the time. The average confidence score was 40%. The list of questions along with their top answers' confidence scores and relevance scores are shown in Table 1.

**Table 1. List of test questions and their associated confidence and relevance scores (see text for the description of relevance score)**

No. (Member)	Test Question	Confidence Score	Relevance Score
1 (RD)	What are camping facilities at Restoule?	6%	1
2 (RD)	What amenities are available at Restoule?	30%	1
3 (RD)	What amenities are available at Rock Point?	53%	1
4 (RD)	How many bird species are found at Rock Point?	4%	1
5 (RD)	Which park attracts birdwatchers for the Festival of Flight?	80%	1
6 (RD)	How many bird species are recorded in the Rondeau?	33%	1
7 (RD)	Is fishing license required at the Rushing River?	0%	0
8 (RD)	What amenities are available at Rushing River?	0%	0
9 (RD)	How many campground are available in Nagagamisis?	100%	1
10 (RD)	How many campsites are available at the Neys?	0%	0
11 (RD)	What is the the site of a 1946 crash landing of a Gloster Meteor?	43%	1

12 (RD)	Which year did Gloster Meteor crashed in Helenbar lake?	13%	1
13 (RD)	What amenities are available at Mono Cliffs?	21%	1
14 (RD)	Are flush toilets available at the Mono Cliff?	3%	1
15 (MH)	Can I Camp at Pothole?	37%	0
16 (MH)	can I play music at pancake bay?	9%	0
17 (MH)	what are restrictions at pancake bay?	74%	1
18 (MH)	Is hunting allowed at Pigeon Lake?	50%	1
19 (MH)	What fishes can be found at Rideau River?	74%	0
20 (MH)	What winter activities are available at Pigeon River?	100%	1
21 (MH)	What is the contact information for Pakwash?	100%	1
22 (MH)	Can I fish at north beach?	37%	0
23 (MH)	Can I go on Voyager Hiking Trail?	100%	1
24 (MH)	What activities are available at Rene Brunelle park?	18%	1
25 (MH)	Does Rock Point have trails for pets?	6%	0
<b>Average Performance:</b>		40%	67%

## Our Experiences with Watson QA System

### Positive Experiences

Our team agreed that once the uploaded documents was correctly formatted (as suggested by the training guide supplied for this project), Watson was able to learn synonyms, abbreviations, expressions, etc. characteristics of human language. For an example, we trained Watson with QA pairs such that we expected it to recognize that both *recreational vehicle* and *RV* refer to the same object. The following questions were supplied during the training phase:

Does Achray campground accommodate RVs?

Does Achray campground accommodate recreational vehicles?

Does Canisbay Lake campground accommodate RVs?

Does Canisbay Lake campground accommodate recreational vehicles?

Can Brent campground accommodate RVs?

Can Brent campground accommodate recreational vehicles?

During the test phase, we posed the following question: *Where in Algonquin can I camp with an RV?*

Watson returned the following candidate answers, indicating that it successfully equated recreational vehicle with RV.

<b>Candidate answers to test question: <i>Where in Algonquin can I camp with an RV?</i></b>	<b>Confidence</b>
I'm not sure about this, but here is my best suggestion... Brent has 30 campsites and a combination of new compost and vault toilets, but no shower or laundry facilities. This campground can accommodate recreational vehicles but there is no electricity available. A number of campsites have direct waterfront access.	13%
Canisbay Lake Campground has 242 campsites, one quarter of which have electrical hook ups. Campsites are located in three separate loops; one with electrical service and one which is designated a radio-free and dog-free zone. Sites can accommodate equipment ranging from tents to larger recreational vehicles. There are large comfort stations with flush toilets and laundry facilities, and a handicapped accessible shower and toilet.	9%

Furthermore, Watson was able to process questions and return answers quite fast (within or close to a second).

#### Negative Experiences

We found that Watson needed structured, well formatted text documents (e.g., sections with short paragraphs) for effective training of its machine learning models. Improperly formatted text content (which may happen due to difficulties in parsing HTML documents) was not tagged correctly during the training and testing phase. Furthermore, Watson used heading and subheading information to evaluate the relevance of a document to a question. However, we found that Watson only took into account heading and a sub-heading; it did not recognize third-level sub-heading information.

Our team encountered a significant barrier in generating the text documents. Rakesh has created a Python web-scraping script to automate the document generation process. The first version of this program generated a text document that put each park's information into individual section without dividing the information into sub-sections; that is, each section contained long paragraphs. We found that Watson returned a section with long paragraphs as an answer, making it difficult for the users to find a specific answer from this returned long answer. As suggested by Mebs, the Python program was later modified to include sub-heading information. Also, other team members chose to generate documents by manually copying and pasting information from the website. This illustrated the challenge of automatically generating Watson's corpus.

Furthermore, The Ontario Parks website we used in this project contained mainly text information with rather well defined subtopics, allowing some automation in generating the corpus. Many websites, however, may present information primarily through graphics (infographics) or videos, and may contain bullet points, tables etc (e.g., the Camping in Ontario website listed in the Resources Not Considered section of this report). At the moment, Watson QA system can only process text documents, thus limiting its corpus.

Our team also agreed that training was a cumbersome task. It would be helpful to have automated programs that ensure generation of well formatted documents so that human experts could focus their effort in creating a large number of quality QA pairs during the training phase.

#### **As a Data Scientist...**

We would recommend using Watson for non-critical projects, for example, for support and documentation purpose. From our experience, we learned that a significant amount of experts' time must be devoted for training Watson; thus, a company needs to be prepared to provide sufficient resources.

Watson could potentially be leveraged to combine personal or private company information with publicly available data. Additionally, Watson allows for controls of corpus content, as well as of who can train the system (e.g., trusted domain experts vs. general public), allowing a higher degree of data trustworthiness.

#### **References:**

- [1] Camping Industry News, "Campground and RV Community Celebrates Canadian Camping Week", published 19 May 2015. URL: <http://www.ccrvc.ca/en/camping-industry/news/2015-05-19/campground-and-rv-community-celebrates-canadian-camping-week>

- [2] Camping in Ontario, “First Ever Canadian Camping Week Launched in Ontario”, published 19 May 2015. URL:  
<http://www.campinginontario.ca/uploads/Association/files/Camping%20Week%202015%20-%20Ontario%20Press%20Release.pdf>
- [3] Destination Canada Statistics 2015 [[Infographics](#)]
- [4] The Canadian Tourism Industry, A Special Report Fall, 2012 [[PDF](#)]



## **Appendix A – List of Questions Created by Rakesh Dhote**

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**List of questions related to Camping in MacLeod, Mara, Mississagi, Mono Cliffs, Murphys Point, Nagagamisis, Neys, Ouimet Canyon, Oxtongue River - Ragged Falls, Potholes, Quetico, Restoule, Rock Point, Rondeau, Rushing River**

What are the hiking activities at the Oxtongue river?  
Which provincial park is nearest to the Oxtongue river?  
Is the Ouimet canyon the day use park?  
How long is hiking trail in the Ouimet canyon?  
Which migrant birds can one find in the Ouimet canyon?  
Which falcon can one occasionally see in the Ouimet canyon?  
What amenities are available in the Ouimet canyon?  
What is Quetico park renowned for?  
Which library is located inside the Dawson Trail Heritage Pavillion?  
Does Quetico park has car camping facility?  
Can Quetico camp accommodate trailers and tents?  
How many campsites are located at Dawson Trail Campground?  
What activities are available in Quetico during summer and winter?  
Is Quetico a wilderness park?  
How does one make reservation at the Quetico?  
Is interior camping permit necessary at the Quetico?  
What are check-in hours at Quetico?  
Which rustic cabin options are available at Quetico?  
What do I bring for camping in Quetico?  
What are the canoeing facilities at Quetico?  
Is Potholes a day use park?  
What activities can one do in Potholes?  
What hiking facilities are available at Potholes?  
What amenities are available at Potholes?  
What walk-in camping facilities are available at Restoule?  
What car camping facilities are available at Restoule?  
What things can one do at Restoule?  
Which hiking trails are available at Restoule?  
How old are the exposed fossils of a coral reef at the Rock Point?  
Does Rock Point offer electrical campsites?  
What things can one do at Rock Point?  
How to contact the Rock Point park?  
When is the best time to visit Rondeau?  
What things can one do at Rondeau?  
What winter activities are available at Rondeau?  
How many campsites are available at Rushing River?  
Are pets permitted at the Rushing River?  
Which hiking trails are available at Rushing River?  
What winter activities are available at Rushing River?  
What does lake Nagagamisis name in Cree mean?  
Does Nagagamisis provide boating opportunities?  
What amenities are available at Nagagamisis?

Where can one view a model of a former prisoner-of-war (POW) camp?  
What are things to do at Neys?  
What amenities are available at Neys?  
Are motorboats allowed on Semiwrite and Flack Lakes?  
What's the contact number of calling Chutes Provincial Park ?  
Are there designated bicycle trails in Mississagi?  
Are there electric sites in Mississagi?  
Is Mono Cliffs a day use only park?  
Are Motorized vehicles, camping and hunting permitted in Mono Cliffs?  
How many people does the group campsites accommodate at Murphys Point?  
How many camp cabins does Murphys Point have?  
Are pets allowed at Murphys Point?  
How far is Mara located from Toronto?  
How to reserve picnic shelter in Mara?  
What is MacLeod named after?  
What amenities are available at MacLeod?

## Appendix B – List of Questions Created by Renita Sudirga

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**List of questions related to Camping in Algonquin, Achray, Brent, Canisbay Lake, Coon Lake, Kearney, Kiosk.doc:**

Where can I camp in Algonquin?  
Where are campsites for car camping in Algonquin?  
Are there car camping facilities in Algonquin?  
What campgrounds are on the north side of Algonquin park?  
What campgrounds are on the east side of Algonquin park?  
Are there car camping facilities on the north side of Algonquin park?  
Where are group camping facilities in Algonquin?  
Which campsites in Algonquin accommodate group camping?  
Can I get a campsite in Algonquin without reserving a permit in advance?  
Which campsites in Algonquin accommodate walk-ins?  
What amenities are available in Achray campground?  
Is electricity hook up available in Achray campground?  
Does Achray campground accommodate RVs?  
Does Achray campground accommodate recreational vehicles?  
Are pets permitted in Achray campground?  
How many people can stay in a yurt at the Achray campground?  
Is there yurt camping facilities in Achray campground?  
How many people does the yurt in Achray campground accommodate?  
Where is Brent campground in Algonquin Park?  
What is the location of Brent campground?  
What types of campsites are available at Brent campground?  
What amenities are available in Brent campground?  
Can Brent campground accommodate RVs?  
Can Brent campground accommodate recreational vehicles?  
How many campsites are available in Brent campground?  
When is Brent campground open?  
Is Brent campground open in the winter?  
Can I do winter camping in Brent campground?  
Where is Canisbay Lake campground?  
What are the amenities in Canisbay Lake campground?  
How many campsites are there in the Canisbay Lake campground?  
Does Canisbay Lake campground accommodate RVs?  
Does Canisbay Lake campground accommodate recreational vehicles?  
Are dogs permitted in the Canisbay Lake campground?  
Is Canisbay Lake campground handicapped accessible?  
Where is Coon Lake campground?  
What facilities are available at the Coon Lake campground?  
When is Coon Lake campground open?  
What amenities are available at the Coon Lake campground?  
Does Coon Lake campground accommodate recreational vehicles?  
How many campsites are available at the Coon Lake campground?  
Where is Kearney Lake campground?  
When is Kearney Lake campground open?  
Is there electricity hook up at Kearney Lake campsites?

How many campsites are there in Kearney Lake campground?  
Where is Kiosk campground?  
When is Kiosk campground open?  
What are available facilities at Kiosk campground?  
Is there electricity hookup available in Kiosk campground?  
How many campsites are there at the Kearney Lake campground?

**List of questions related to Camping in Lake of Two Rivers, Mew Lake, Pog Lake, Rock Lake, Tea Lake, Whitefish Lake.doc:**

Where is Lake of Two Rivers campground?  
When is Lake of Two Rivers campground open?  
Is Lake of Two Rivers campground open in the winter?  
Are there electrical sites in Lake of Two Rivers campground?  
How many campsites are there in Lake of Two Rivers campground?  
Where is Mew Lake campground?  
Are there yurts in Mew Lake campground?  
What amenities are available in Mew Lake campground?  
When is Mew Lake campground open?  
Are there electrical campsites in Mew Lake campground?  
Are pets permitted in Mew Lake campground?  
Is Mew Lake campground open in the winter?  
How many people does the yurts in Mew Lake campground accommodate?  
What amenities are available for yurt camping in Mew Lake campground?  
Where is Pog Lake campground?  
When is Pog Lake campground open?  
How many car camping sites does Pog Lake campground have?  
Are there campsites with electrical hook up at the Pog Lake campground?  
What amenities are available in Pog Lake campground?  
Which campsites in the Pog Lake campground are radio free?  
Which sites do not allow pets in Pog Lake campground?  
Where is Rock Lake campground?  
When is Rock Lake campground open?  
How many campsites are there in Rock Lake campground?  
Are there barrier-free campsites in Rock Lake campground?  
Can Rock Lake campground accommodate recreational vehicles?  
Are there campsites with electrical hook up in Rock Lake campground?  
Where is Tea Lake campground?  
When is Tea Lake campground open?  
How many campsites are there in Tea Lake campground?  
What amenities are available in Tea Lake campground?  
How many people do Whitefish Lake group campsites accommodate?  
What amenities are available in Whitefish Lake campground?  
Where is Whitefish Lake campground?  
When is Whitefish Lake campground open?  
How can I reserve a group campsite in Whitefish Lake campground?

**List of questions related to Backcountry cabins in Algonquin.doc:**

How many people can Brent cabin accommodate?  
What amenities are available in Brent cabin?  
Are pets allowed in Brent cabin?  
How many people does Kiosk cabin accommodate?  
What amenities are available in Kiosk cabin?  
Is there a stove available in Kiosk cabin?  
Are pets permitted in Kiosk cabin?  
How to reach Kitty Lake cabin?  
How many people does Kitty Lake cabin accommodate?  
What amenities are available in Kitty Lake cabin?  
How many people does Lost Coin Lake cabin accommodate?  
What amenities are available in Lost Coin Lake cabin?  
Are pets permitted in Lost Coin Lake cabin?  
How many people does Big Crow cabin accommodate?  
What amenities are available in Big Crow cabin?  
How to reach McKaskill Lake cabin?  
How many people does McKaskill Lake cabin accommodate?  
What amenities are available in McKaskill Lake cabin?  
How many people can stay in Birchcliffe cabin?  
What amenities are available in Birchcliffe cabin?  
What amenities are available in Rain Lake cabin?  
How many people does Rain Lake cabin accommodate?  
How many people does Bissett Road cabin accommodate?  
What amenities are available in Bisset Road cabin?  
How many people does Tattler Lake cabin accommodate?  
What amenities are available in Tattler Lake cabin?  
Is there parking in Tattler Lake cabin?  
How many people does Brent Deputy Ranger cabin accommodate?  
What amenities are available in Brent Deputy Ranger cabin?  
How many people does Wenda Lake cabin accommodate?  
What amenities are available in Wenda Lake cabin?  
How many people can stay in Crooked Chute cabin?  
What amenities are available in Crooked Chute cabin?  
Where is Highview cabin?  
What amenities are available in Highview cabin?

**List of questions related to Camping in Aaron, Arrowhead.doc:**

Is there a campground in Aaron park?  
Are there electrical campsites in Aaron campground?  
Does Aaron campground accommodate RVs?  
What camping amenities are available in Aaron park?  
What activities can I do in Aaron campground?  
Does Aaron campground accommodate group camping?  
How to reserve a spot in Aaron campground?  
Which number to call to reserve a spot in Aaron campground?  
Where can I camp in Arrowhead?  
Which campground offers most privacy in Arrowhead?  
What activities can I do in Arrowhead?

Is there a dog beach in Arrowhead?  
Which campground accommodate RVs in Arrowhead?  
Are there cabins in Arrowhead?  
How many people can stay in a cabin in Arrowhead?  
Are the cabins in Arrowhead park open in the winter?  
How to reserve a cabin in Arrowhead park?  
What is deluxe tent in Arrowhead park?  
What is deluxe yurt in Arrowhead park?  
How to reserve a deluxe yurt in Arrowhead park?  
Are pets permitted in the deluxe yurt in Arrowhead park?  
How many people can stay in the deluxe tent in Arrowhead park?  
How many people can stay in the deluxe yurt in Arrowhead park?

## **Appendix C – List of Questions Created by Mebs Haji**

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**List of Questions related to Camping in: Voyager, Rainbow falls, North Beach, Pakwash, Pancake Bay, Pigeon River, Rene Brunelle, Restoule Camp, Rideau River, Rock Point, Selkirk Park, Tidewater Park, Wabakimi Park, Spanish River, Potholes , Quetico Park**

1. Can I go on Voyager Hiking Trail?
2. Does Rainbow falls offer winter activities?
3. Can I fish at north beach?
4. Where is North Beach Located?
5. Is biking allowed at Rainbow Falls?
6. Is swimming permitted at Rainbow Falls?
7. What hiking trails are available at Rainbow Falls?
8. What are activities at Pakwash?
9. How large a group can Pakwash accommodate for Camping?
10. What is the contact information for Pakwash?
11. What type of fishes can be found at Pakwash?
12. What things can I do at pancake bay?
13. What services for camping is available at Pancake Bay?
14. Is Pancake Bay Radio Free Campground?
15. What restrictions are there at pancake bay?
16. What amenities are available at Pancake Bay?
17. What wildlife is at the Pancake Bay?
18. When does Pancake Bay provide Natural Heritage Education?
19. What amenities are available at Pigeon River?
20. What are highlight of things to do at Pigeon river?
21. Can you provide list of hiking trails at Pigeon River?
22. Is hunting allowed at Pigeon Lake?
23. What winter activities are available at Pigeon River?
24. What types of birds does Pigeon River have?
25. What activities are available at Rene Brunelle park?
26. What amenities are available at Rene Brunelle Park?
27. What part of Rene Brunelle Park is available for camping?
28. Is RV Camping available at Restoule Camp?
29. Is power boating allowed at Rideau River?
30. Can I bring a group for camping at Rideau River?
31. Where is Rideau River located?
32. What fishes can be found at Rideau River?
33. Are there any bike trails at Rideau River?
34. Is group camping available at rockpoint park?
35. Does Rock Point have trails for pets?
36. How many bird species have been recorded at Rock Point Park?
37. Is Natural Heritage Education offered at Rock Point?
38. Does Selkirk Park offer biking trail?
39. Does Tidewater Park have Hiking Trails?
40. How many backcountry campsites are available at Wabakimi?
41. Is there hunting at Wabakimi Park?
42. What types of birds can be found at Wabakimi Park?

43. How many backcountry camping does Spanish River offer?
44. Does Potholes have camping?
45. Are there any hiking trails at Potholes?
46. Is Natural Heritage Education available at Potholes?
47. Does Quetico provide Rustic Cabins?
48. Can I backcountry camp at Quetico?
49. What can I do at Quetico Park?
50. Is Car Camping available at Quetico?



## Appendix C – List of Questions Created by Angela (Jing) Huang

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Please give a general Introduction of Camping facilities and activities at Caliper Lake:

Are there how many camping sites at Caliper Lake?

What is the Reservation phone no. for group camping site at Caliper Lake ?

General introduction of Campground at Chaleston Lake.

What's the locations of Rustic Cabins at Chaleston Lake.

Are there how many Yurts at Charleton Lake Campsite?

What to bring when considering camp at one of the Charleton Lake Yurts

Can people camping at Rustic Cabin in Chaleston Lake Park in Winter?

Does Chute Lake campsite have electricity hookup?

What facilities does Chute Lake campsite have?

Does Craigleith Park have car campsite?

Are there how many comfort stations at Craigleith Park

What kind of camping equipment can be brought to Darlington Park Campgrounds?

Are there how many Campgrounds in Darlington Park ?

What kind of camping activity are available at Driftwood Park ?

Does Driftwod Park Campground have comfort station?

Does Driftwood Park have Group Campsite?

How big is Earl Rowe Park group camping site? Can it take how many people camping

What kind of amenities and accommodation does Earl Rowe Park Car Campsite have?

Does Earl Rowe have how many radio free campsites?

Are there how many electrical campsites at Earl Rowe Park?

The size of Group campsite at Emily Park ?

What kind of equipment can be brought to Emily Park Group Campsite ?

How to make a reservation at Emily Park Group Campsite?

General introduction of car camping amenity and facilities at Emily Park Campsite

Does Esker Lake have comfort station?

Are there backcountry campsites at Esker Lake?

Is Canoe route available at Esker Lake

How is the amenity and equipment accommodation of Fairbank Park campground?

Which park offers the most spacious campsite in Ontario Parks?

Does Ferris Park have electrical Campsite

Who kind of amenity and camping activity does Car Campsite have at Finlayson Point Park?

Does Finlayson Point campsite have a cottage ?

How is the amenity and size of the cottage at Finlayson Point Park campsite?

What to bring if you plan to visit the cottage at Finlayson Point Park ?

Does Fitzroy park have electrical campsite, comfort station, and laundry facility ?

Group campsite at Fitzroy park can accommodate how many people?

Does French River have backcountry campsites?

What kind of camping activity can camper have at French River Campsite ?

Where can people get backcountry camping permit at French River Campsite?

How to access backcountry campsite at Frontenac park

What amenity does Frontenac park backcountry campsite have

How many camp cabins in Fushimi Lake park campsite?

How is the amenity of the camp cabin at Fushimi lake park?

What to bring when camp at Fushimi lake camp cabin?  
Are there how many backcountry campsite at Fushimi lake park?  
How to access backcountry campsite at Fushimi lake park?  
How long it take to get to the backcountry campsite at Grund lake  
Amenity and camping activity at Grund lake campsite  
How many car campground does Grundy lake park have?  
How many group campground does Grundy lake park have?  
What kind of campsite does Grundy lake park have?  
Are there totally how many campsite at Grundy lake park?

What kind of camping experiences can visitor enjoy at Ivanhoe lake park?  
What kind camping amenities does Ivanhoe lake campsite have?  
What is the seasonal campsite program at Ivanhoe lake park?  
How many car campgrounds does Kakabeka fall park have?  
The size and locations of group campsite at Kakabeka fall park  
What camping amenities does Kkabeka fall park campsite have  
Does Kawartha Park have how many backcountry campsites?  
How to access to the backcountry campsite at Kawartha Park?  
The amenity of backcountry campsite at kawartha highland park  
Are there how many backcountry campsite at Killarney Provincial Park ?  
Does Killarney Provincial Park have Yurt? How many of them? And what's there location and size ?  
What kind of amenity does those camp Yurt have at Killarney Park?  
How to make a reservation of Yurt at Killarney Park?  
Can people visit Killarney Park Yurt in Winter?  
Are there any restrictions when visit Killarney park Yurt?  
Does Killbear Park have a lodge?  
How big is the lodge at Killbear park, and what kind of amenities does the lodge have?  
The price and reservation phone no. of Killbear park lodge ?  
What to bring when camping at Killbear Park Camp Lodge?