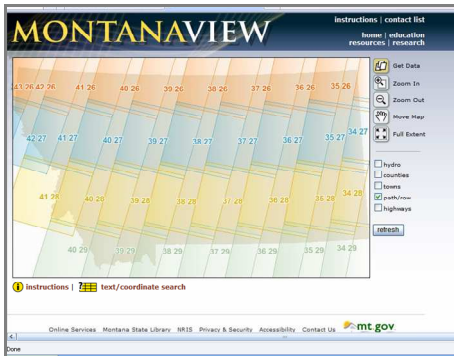


# INSTRUCTIONS FOR DOWNLOADING DATA FROM MONTANAVIEW

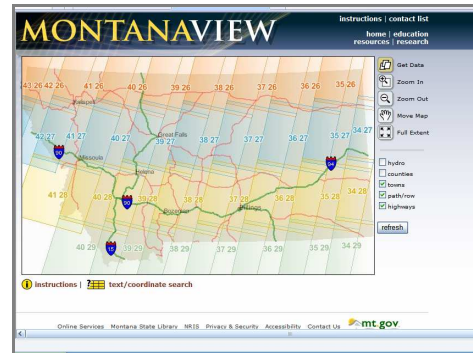
## Map Search

To find imagery based on geographic locations, use the map search option. The default layer shown for the State is the path and row grid system, used by many sensors in imagery acquisition. If the path/row combination is already known for the desired scene, this is the most efficient search method.

If more information is needed, additional layers can be added to assist in pinpointing the exact area. For example, checking "towns" and "highways" and clicking on "refresh" will provide geographic reference to help locate your desired scene. Note the additional layers added to the map in Figure 2.



**Figure 1.** Default path/row map search view

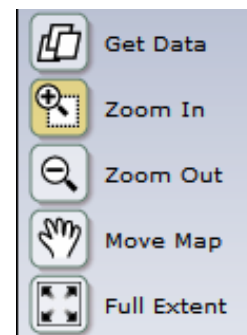


**Figure 2.** Map view with towns and highway layers added

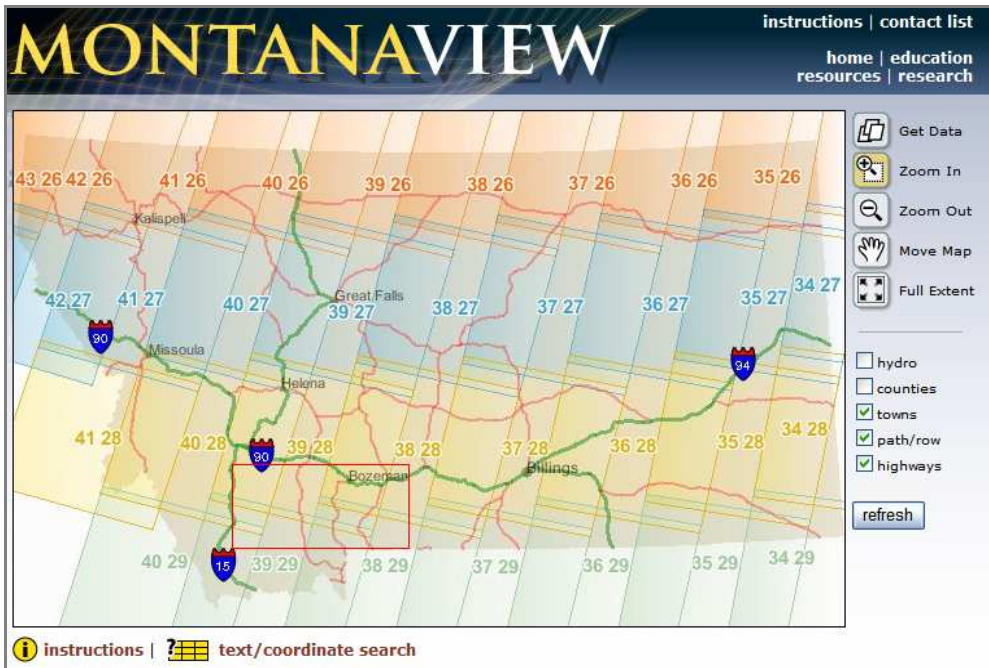
When the desired location is selected, a new page showing a list of search results will appear. Let's step through an example search to demonstrate how the process works.

### Example Search:

You want to investigate change in vegetation water content or greenness in the Madison Valley of Montana from one month to the next. Start by adding towns and highways to your map and click refresh. Select the Zoom In tool (shown in yellow in Figure 3) and draw a square starting south of Butte and ending near Bozeman (Figure 4).



**Figure 3.** Map tools



**Figure 4.** Using Zoom In tool to find imagery

The resulting map should display the labels of smaller towns. If small town labels are not visible, click the map again to zoom in one more level. Now you should see the names of towns located in the Madison Valley (see Figure 5).

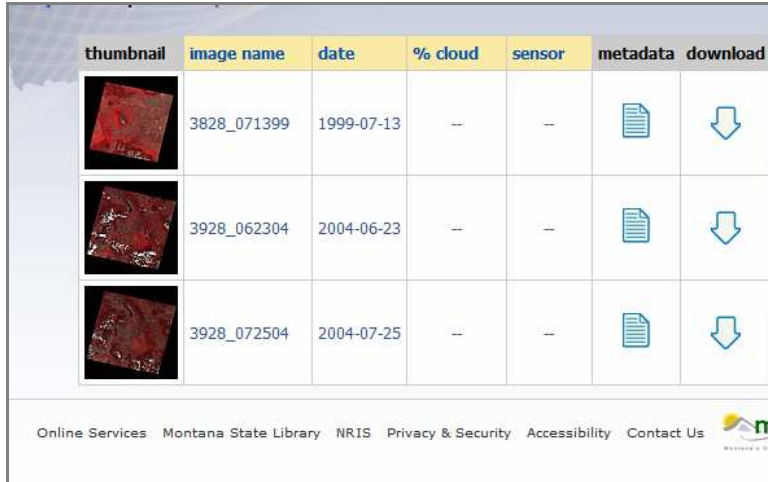








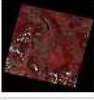


**Figure 5.** Zoom results of Madison Valley, MT


You can see that the general area of interest spans several different scenes. For this example, we will choose one. Click on the Get Data Tool (at the top of the tools list)

and choose the area covering Norris, Pony, and Ennis by clicking on the map over the path/row labeled "39 28."

The search results yield a list of scenes from the area (shown in Figure 6). There are two images available for path 39/row 28 from June and July of 2004.




thumbnail	image name	date	% cloud	sensor	metadata	download
	3828_071399	1999-07-13	--	--		
	3928_062304	2004-06-23	--	--		
	3928_072504	2004-07-25	--	--		

Online Services Montana State Library NRIS Privacy & Security Accessibility Contact Us 

**Figure 6.** Map search results for Path 39 Row 28

You've now completed the map search example; if you wish to download the images, proceed to the next section on downloading and saving imagery.

### Downloading and Saving Selected Imagery

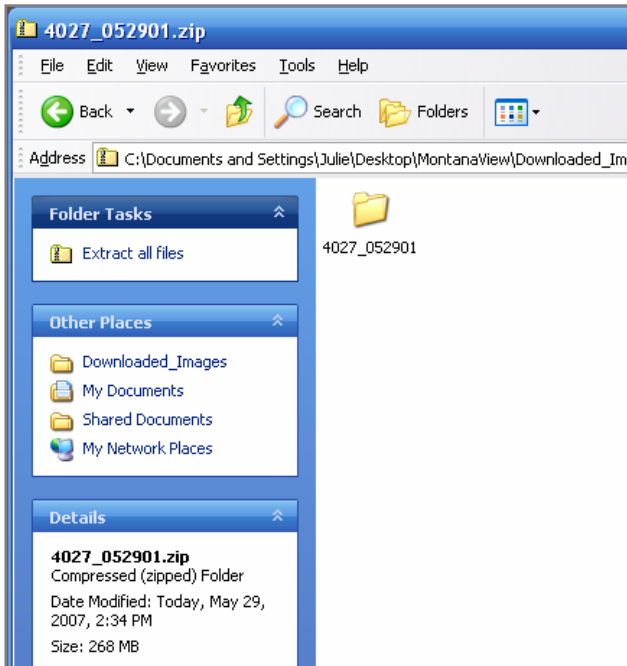
From this page, select the desired imagery to be downloaded. To do this, click on the arrow  located under the "download" heading.

The File Download dialog box (Figure 7) will appear asking whether to Open or Save the file.



**Figure 7.** File Download dialog box

Please note the size of the zipped folder pictured in Figure 7. The average size of a zipped folder is approximately 300MB, and unzipped folders range from 500-550MB. This download will occupy and require a relatively large amount of computer memory. Please be sure this space is available on your computer prior to downloading.



**Figure 8.** Windows Explorer extract

Click "Save" and choose a location on your computer where you will store your data. The download process will take a fair amount of time depending on the speed of your connection. When the download is complete, the folder will have to be "unzipped" or extracted from the compressed folder. If you have a licensed copy of WinZip, you can use it to open your folder. If not, Windows users can open the folder using the extract option from Windows Explorer. Double click on the zipped folder and select from the options on the left of the dialog box (see Figure 8), "Extract all files." Follow the extract wizard to select an appropriate location for your data.

Once the data has been extracted it can be viewed and used with various GIS and remote sensing software packages. For more information on how to use this imagery in relevant exercises and tutorials, visit the MontanaView resources page at <http://montanaview.org/resources.aspx> and click on the link for tutorials.