Create Custom Summaries and Charts

Using IAPP Extracts or Reports

Creating a Pivot Table and Chart from IAPP Reports

(Note that this works equally well with extracts)

STEP 1 - RUN A REPORT OF YOUR CHOICE:

Below is the result of an IAPP **Treatment Summary Report**. The criteria used to generate this report included:

- a specific area from the WAAA,
- Spotted knapweed as the species (multiple are possible but for simplicity's sake let's use only 1)
- A Treatment Agency
- Treatment Type (all 3 types were selected here)
- A start and end year (2006 and 2011 respectively)

Invasive Plant Species	Year	Treatment Type	Number of Sites Treated	Number of Treatments or Releases	Total HA Treated
Spotted knapweed (CENT BIE)	2006	Biological	0		
	2006	Chemical	119	129	10.5175
	2006	Mechanical	43	43	1.9217
	2007	Biological	6	8	
	2007	Chemical	114	129	30.0524
	2007	Mechanical	25	25	0.7835
	2008	Biological	7	8	
	2008	Chemical	192	197	20.0614
	2008	Mechanical	38	39	2.6895
	2009	Biological	8	9	
	2009	Chemical	362	401	18.0380
	2009	Mechanical	93	106	7.3705
	2010	Biological	2	3	
	2010	Chemical	99	103	12.0159
	2010	Mechanical	114	115	3.4722
	2011	Biological	0		
	2011	Chemical	218	239	14.8317
	2011	Mechanical	137	138	2.5777

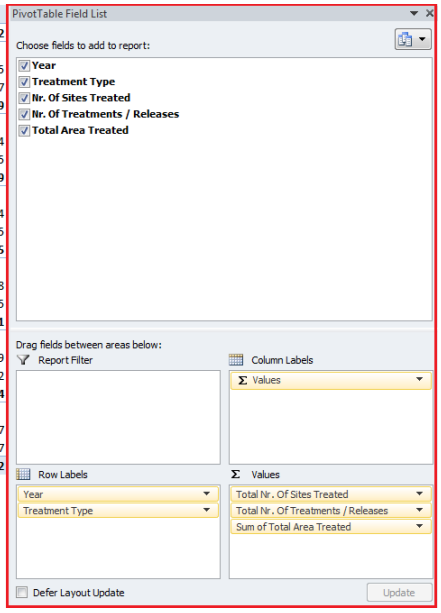
STEP 2 - COPY THIS DATA INTO A SPREADSHEET:

Year	Treatment Type	Nr. Of Sites Treated	Nr. Of Treatments / Releases	Total Area Treated
2006	Biological	0		
2006	Chemical	119	129	10.5175
2006	Mechanical	43	43	1.9217
2007	Biological	6	8	
2007	Chemical	114	129	30.0524
2007	Mechanical	25	25	0.7835
2008	Biological	7	8	
2008	Chemical	192	197	20.0614
2008	Mechanical	38	39	2.6895
2009	Biological	8	9	
2009	Chemical	362	401	18.038
2009	Mechanical	93	106	7.3705
2010	Biological	2	3	
2010	Chemical	99	103	12.0159
2010	Mechanical	114	115	3.4722
2011	Biological	0		
2011	Chemical	218	239	14.8317
2011	Mechanical	137	138	2.5777

STEP 3 - CREATE PIVOT TABLE:

- Select the data in the spreadsheet, and click 'Insert Pivot Table'.
- A new sheet will open, which will initially be blank.
- Select the fields from the Field List at right, and drop them in the Column, Row, Value and Filter boxes:

3	Row Labels	Total Nr. Of Sites Treated	Total Nr. Of Treatments / Releases	Sum of Total Area Treated
4	**2006**	**162**	**172**	**12.4392**
5	Biological	0		
6	Chemical	119	129	10.5175
7	Mechanical	43	43	1.9217
8	**2007**	**145**	**162**	**30.8359**
9	Biological	6	8	
10	Chemical	114	129	30.0524
11	Mechanical	25	25	0.7835
12	**2008**	**237**	**244**	**22.7509**
13	Biological	7	8	
14	Chemical	192	197	20.0614
15	Mechanical	38	39	2.6895
16	**2009**	**463**	**516**	**25.4085**
17	Biological	8	9	
18	Chemical	362	401	18.038
19	Mechanical	93	106	7.3705
20	**2010**	**215**	**221**	**15.4881**
21	Biological	2	3	
22	Chemical	99	103	12.0159
23	Mechanical	114	115	3.4722
24	**2011**	**355**	**377**	**17.4094**
25	Biological	0		
26	Chemical	218	239	14.8317
27	Mechanical	137	138	2.5777
28	**Grand Total**	**1577**	**1692**	**124.332**

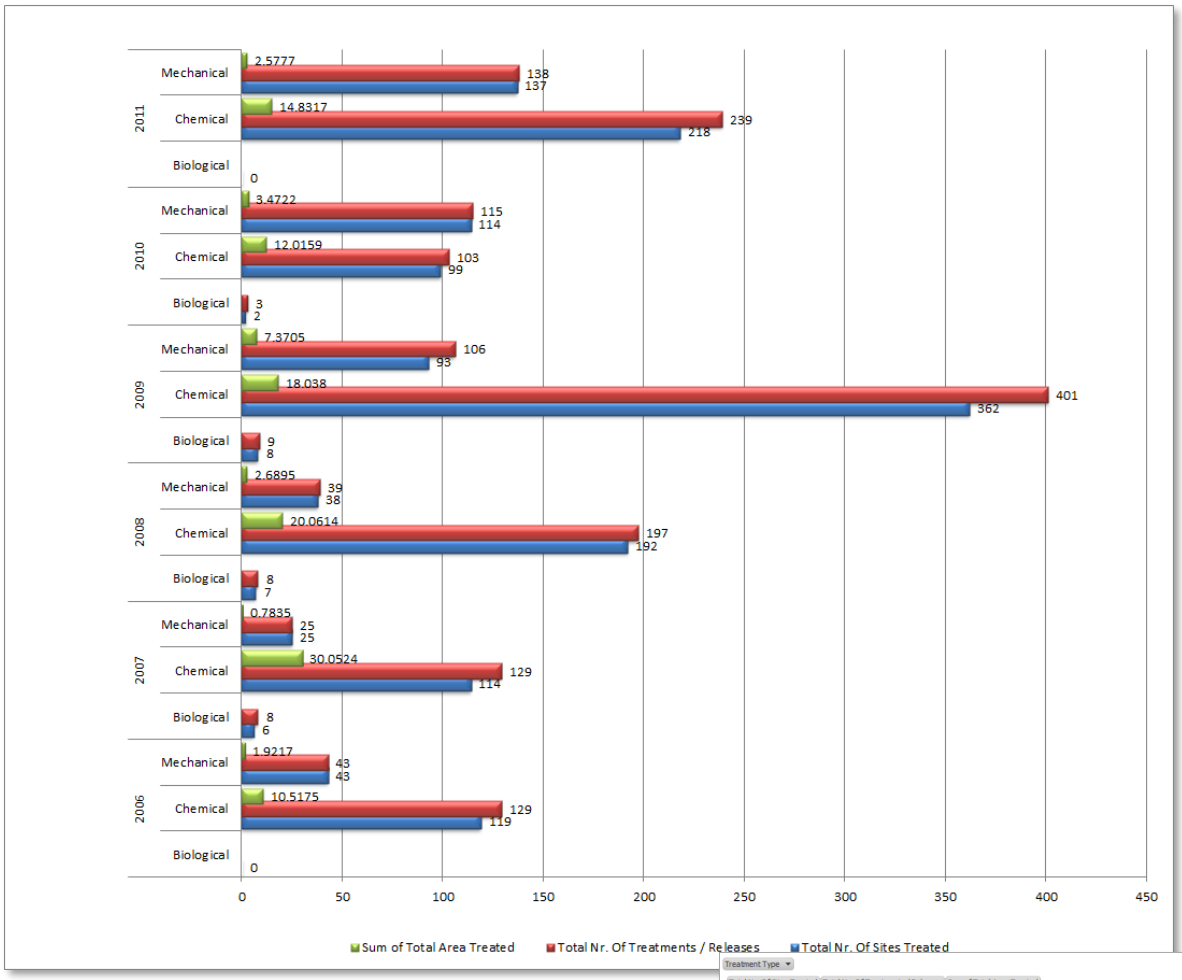


Create Custom Summaries and Charts

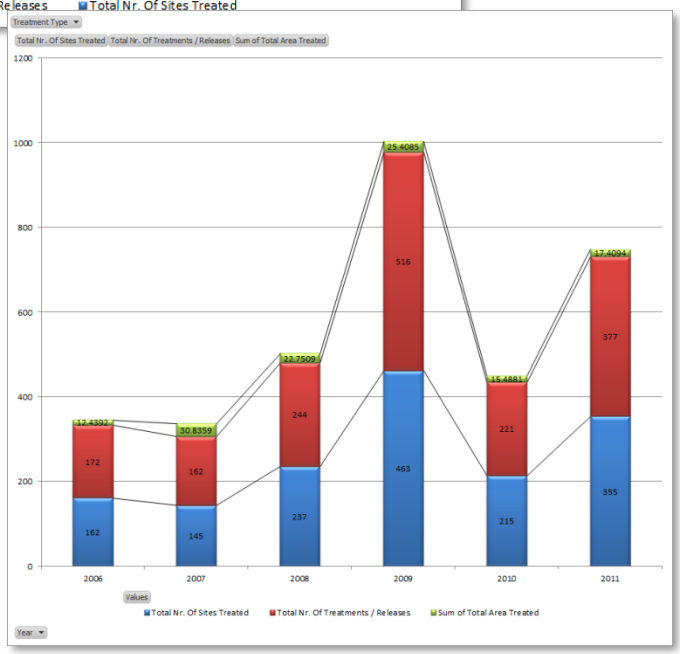
Using IAPP Extracts or Reports

STEP 4 - CREATE A CHART:

- Select a Chart type from the Chart section on the Insert menu
- The data will display in the chart type of your choice
- The Row and Column fields are available in a dropdown within the chart; as you select different criteria, the chart will redraw according to your selection:



Experiment with filters, and/or moving your rows and columns into other locations within the pivot table. This is fun stuff; by experimenting I have stumbled onto interesting ways to display data!



Create Custom Summaries and Charts

Using IAPP Extracts or Reports

AN ADDITIONAL EXAMPLE:

This data was copied to a spreadsheet from an **Inventory Summary Report** for Spotted knapweed, from 2006 to 2011. All other criteria fields were left blank.

NOTE that an Inventory Summary Report is the only report that does **not** use Treatment or Survey Agency. Instead, it will deliver inventory totals regardless of agency, based on your selections in the WAAA, plant species and time frame.

DATA COPIED FROM: Inventory Summary Report - Spotted Knapweed for all of BC

Species	Year	Nr. Sites	Total HA infested	Total Nr. Surveys	Total HA found that year	Nr. New Infestations that year	Total HA New that year	Nr. Repeat Surveys	Nr. Positive Repeat Surveys	Nr. And % of 'Not Found' Surveys	Percent Not Found
Spotted knapweed	2006	12863	64804.6734	2775	976.6524	1743	747.1148	1032	772	260	9%
	2007	14747	62654.5205	3547	991.01	1883	763.9215	1664	1116	548	15%
	2008	16233	62644.2695	3438	618.3066	1486	376.7386	1952	1291	661	19%
	2009	18959	61733.3699	4955	1803.1878	2725	1495.1303	2230	1658	572	12%
	2010	20618	62031.0487	3738	680.8915	1657	371.3348	2081	1600	481	13%
	2011	21203	63182.6142	1849	1441.1343	584	1341.546	1265	865	400	22%

I added the last 2 columns, based on the following calculations:

Nr. of Not Found Surveys = Nr. Repeat Surveys - Nr. Positive Surveys

Percent Not Found = (Nr. Not Found Surveys / Total Nr. Surveys) x 100

This spreadsheet data above was then put into a Pivot Table. Charts A and B below are both created from this pivot table, using the Excel chart tools:

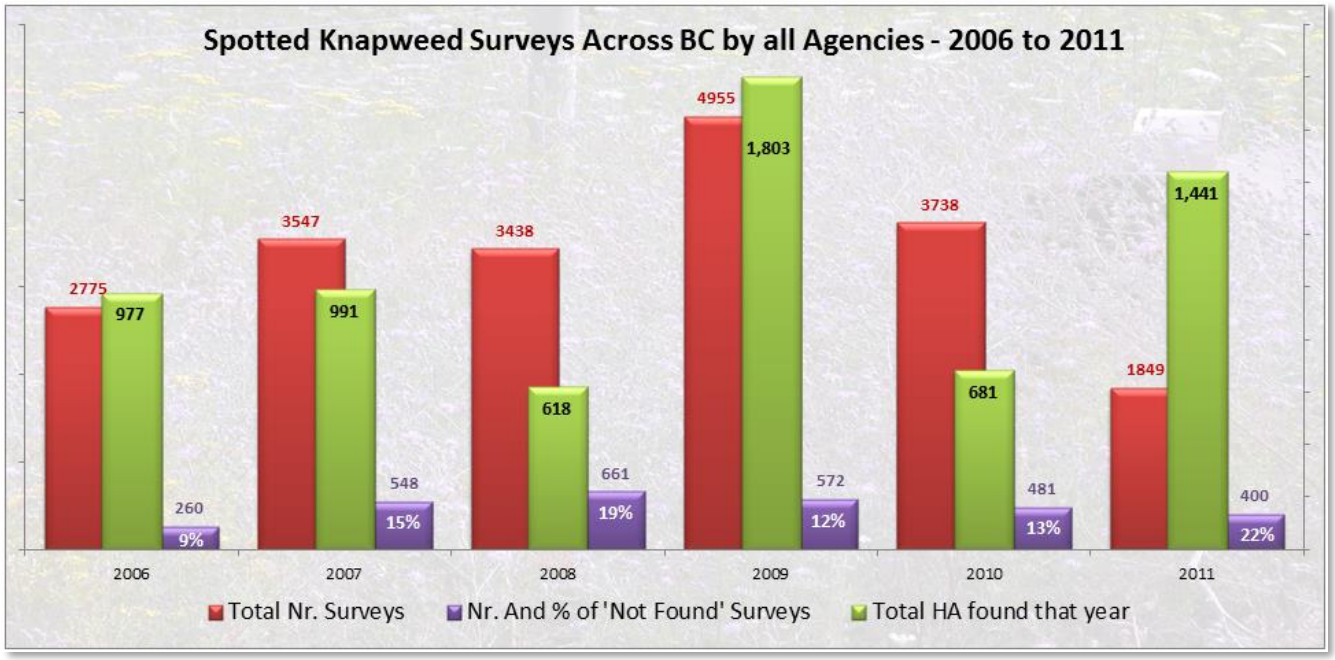


*Chart A: This example chart is based on the all agency Inventory Summary report, and uses the fields **Total Nr. Surveys**, **Total HA found**, and the calculated **Not Found** fields.*

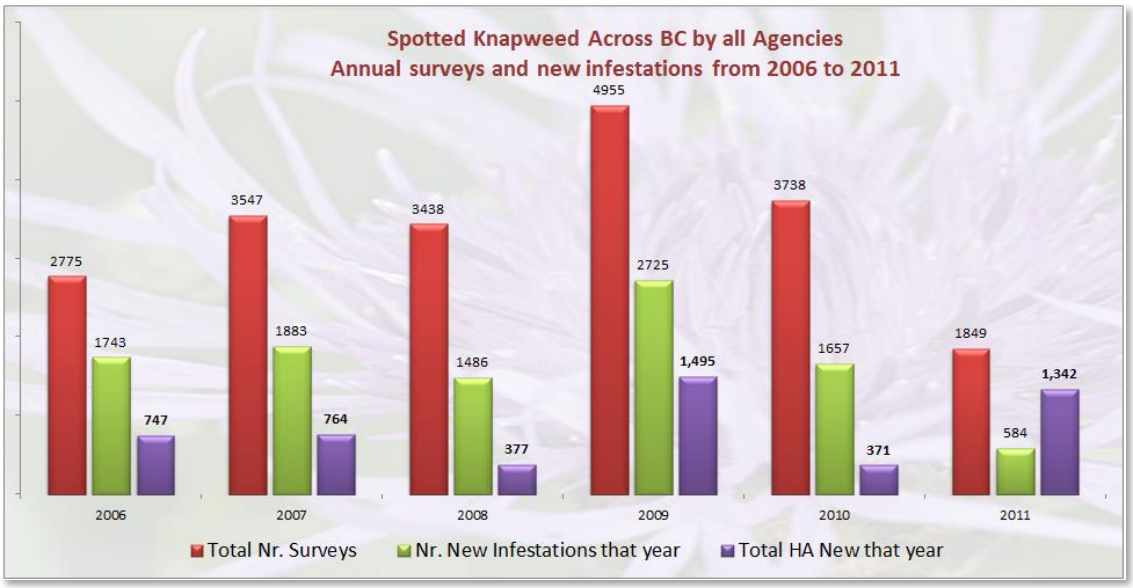
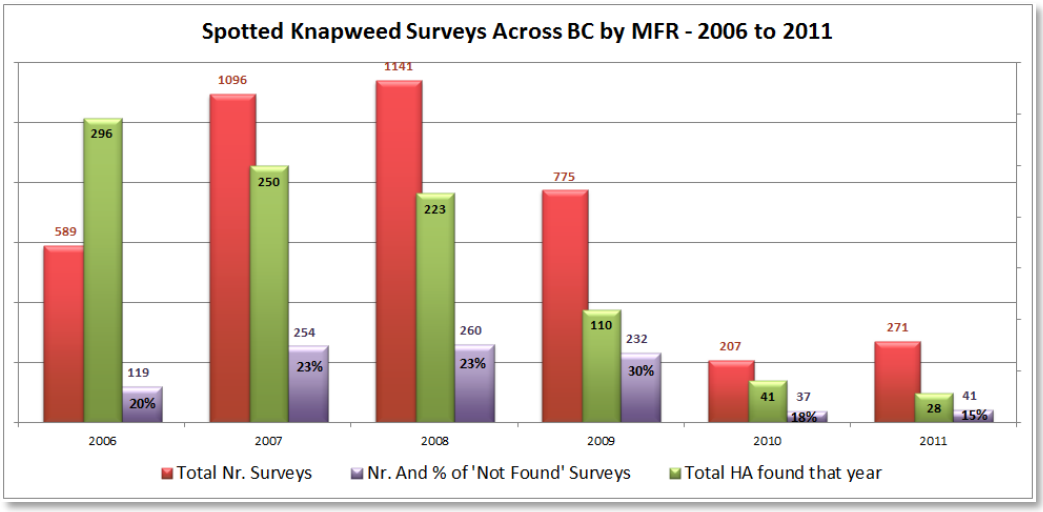


*Chart B: This example chart is based on the same all agency Inventory Summary report used for Chart A, but instead it uses the fields **Total Nr. Surveys**, **Nr. New Occurrences**, and **Total HA New**.*

For comparison purposes, to see how the Ministry stacked up against the provincial average, I then ran a **Survey Report**, which delivers the same data as the Inventory Summary, but only for my own Agency. The result does not give the first 2 columns from the Inventory Summary Report since it is limited to one agency. The final two columns were added again, as per the calculations outlined above. The resulting chart can be used as a comparison between my agency and the entire province (i.e. chart below vs. Chart A):