Creating an Attributed Shapefile from DIMA

This tutorial describes the process of extracting data from DIMA into a point shapefile. The process assumes that you know how to run a data report (see the AIM Data Reporting Doc). This tutorial also uses Access queries, Excel pivot tables, and ArcGIS joins. Other resources may be necessary if you are uncertain of how to use these programs.



Step 1: Run a Custom Query in DIMA



First, make a back-up from DIMA.

From the Ribbon Bar Select "Create" and then "Query Design"

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The new query window will pop up with the "Show Table"

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Select **Both** from the show table and select the **joinSitePlot**, **Add**, and then **Close**.

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The joinSitePlot window will be accessible with a list of the fields in this table. Double click on **SiteID**, **SiteKey**, **PlotID**, **EstablishDate**, **EcolSite**, **GPSCoordSys**, **Datum**, **Zone**, **Easting**, **Northing**. You will notice that these fields are added to the table at the bottom of the query window.

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Select Run from the Access ribbon

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At table containing the fields you have selected will pop up. Review the table to ensure that the data are correct.

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Right click on the Query Header, select **Save** and title it AA_Plot_Locations. This will distinguish the table from the standard DIMA table set.

Step 2. Export the Access table to an Excel File.

In the Access Ribbon select **External Data** and the **Export to Excel** button.

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Select the Location and file name for the plot table. In this exercise "Plot_Locations" was selected as the Excel file name.

Export - Excel Spread	dsheet	? ×
Select the de	estination for the data you want to export	
Specify the destin	nation file name and format.	
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	OK	Cancel

Step 3: Convert the Plot Table into a shapefile

Open ArcCatalog

In ArcCatalog navigate to the location where the Plot_Location table is stored.

Select the **plot_locations workbook** and right click on the **AA_plot_location worksheet.** Select **Create Feature Class** and **From XY Table**.



Select "Easting" as the X field, "Northing" as the Y field. Select the Coordinate System of Input Coordinates button.

Create Feature Class From XY Table
Input Fields
X Field:
Easting
Y Field:
Northing
Z Field:
<none></none>
Coordinate System of Input Coordinates
Output
Specify output shapefile or feature class:
R:\USDA\Management Center\Projects\WRFO
Configuration keyword:
Advanced Geometry Options
OK Cancel

Select the coordinate system recorded for the coordinates in DIMA. If more than one coordinate system/datum is recorded for the plot set you are working with, you will need to treat those at two separate groups of points.

Spatial Reference Properties
XY Coordinate System
Image: Second secon
Current coordinate system: CCS_WGS_1984 WKID: 4326 Authority: EPSG Angular Unit: Degree (0.0174532925199433) Prime Meridian: Greenwich (0.0) Datum: D_WGS_1984 Spherod: WGS_1984 Semimajor Axis: 6378137.0 Semimajor Axis: 6356752.314245179
OK Cancel

Specify the output for the feature class

Create Feature Class From XY Table	×
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Make sure you save the feature class in a geodatabase, otherwise you will get an error message whenever you try to save the feature class.

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Select Ok.

Open ArcMap

Add the new feature class to your map. Check the layer to make sure the plots are located in the correct location.



Step 4. Join indicator data to the plot location.

Open the Excel workbook saved from running a DIMA report. Select the Plot Totals tab

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Aspen Woodland		9 Shrub (Woody)	0.000	0.000	0.000	0.000																		
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Clayey Slopes & Footh	nills	62 Forb/herb (Non-woody)	0.000	0.000	0.000	0.000																		
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Select all. In the Excel ribbon select Insert and then Pivot Table



Set up the Pivot Table as shown below. The Indicators are placed in the Column Labels and the PlotID are put in the Row Labels box. Be sure to change the "Grand Total" function to "Sum" or "Max" rather than count by right clicking on "Grand Total" \rightarrow Summarize Values By \rightarrow Sum or Max.

To change the indicators to columns, right click on any indicator \rightarrow Move \rightarrow Move "Indicator" to Columns

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10	Big Sageb	rush Cool Moist	0.52	0.2666666667	1.92	2.193333333	1	2.646666667	8,546666667								1st Hit StDev	
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13	BigCM-	208	0.0733333333	0.093333333	0.44	0.4	0.12	0.573333333	1.7								MORE TABLES	= ROWS
14	BigCM-	209	0.1666666667	0.1	0.4533333333	0.593333333	0.366666667	0.666666667	2.346666667									Site
15	Big Sageb	rush Warm Dry	1.306666667	0.56	6.12	5.606666667	1.386666667	7.08	22.06									Plot •
16	BigWD-	131	0.02	0.213333333	0.833333333	0.906666667	0	0.886666667	2.86									
17	BigWD-	132	0.22	0.113333333	0.3	0.373333333	0.233333333	0.573333333	1.813333333									
18	BigWD-	133	0.053333333	0.093333333	0.78	0.833333333	0	0.82	2.58									
19	BigWD-	134	0.073333333	0	0.52	0.42	0.206666667	0.673333333	1.893333333									III COLUMNS
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21	BigWD-	136	0.306666667	0	0.586666667	0.293333333	0.093333333	0.626666667	1.906666667									
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23	BigWD-	138	0.12	0.026666667	0.673333333	0.486666667	0.186666667	0.74	2.2333333333									
24	BigWD-	139	0.14	0.006666667	0.593333333	0.426666667	0.226666667	0.7	2.093333333									
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28	Black-3	27	0.066666667	0.12	0.766666667	0.726666667	0.0066666667	0.806666667	2.493333333									
29	Black-3	28	0.166666667	0.053333333	0.606666667	0.38	0.0066666667	0.62	1.8333333333									
30	Black-3	29	0.053333333	0	0.386666667	0.466666667	0.293333333	0.566666667	1.766666667									
31	Low Sage	orush Cool Moist	1.52	0.58	4.513333333	3.786666667	1.886666667	6.246666667	18.53333333									
32	LowCM	-001	0.133333333	0.033333333	0.486666667	0.426666667	0.146666667	0.593333333	1.82									
33	LowCM	-002	0.066666667	0.06	0.406666667	0.26	0.08	0.533333333	1.406666667									D. UPDATE



Inger Inger <th< th=""><th>23 @ - <table-cell> a</table-cell></th></th<>	23 @ - <table-cell> a</table-cell>
Image:	w x y
Aretter tatise Tatises Tatises States <	W X Y
Table: Dutation: Charts G Sparklines Piller Links Tet Symbols G1 - - - - - - Symbols - - Symbols -	W X Y
C D E F G H I J K L M N O P Q R S T U V 1 0 0 P Q R S T U V 2 1 0 <td>W X Y</td>	W X Y
A B C D E F G H I J K L M N O P Q R S T U V 1 ftore Label Kare Soll Forth/herb [Non-woody] Grammoid [Non-woody] Shrub [Woody] A A A A A B C P Q R S T U V 1 0 0 0 0 0 C F	W X Y
I Row Laber Kare Soll Contributer (Non-woody) Shrub (Woody) 2 1 0	
2 1 0 0 0 3 2 0.12 0 0 4 3 0 0 0	
3 2 0.12 0 0.04 0 4 3 0 0 0 0	
4 3 0 0 0 0	
5 4 0.18666667 0 0 0	
6 7 0.18 0 0 0	
7 8 0.18666667 0 0 0	
8 9 0.01 0.02 0.14 0	
9 11 0.10666667 0.02 0 0	
10 12 0 0 0 0	
11 13 0.2733333 0.02 0.04 0	
12 14 0.28 0 0 0	
13 15 0.13333333 0.006666667 0.006666667 0	=
14 18 0.02 0 0 0	
15 19 0.07333333 0 0 0	
16 20 0.06666667 0 0 0	
17 22 0.01 0 0 0	
<u>18</u> 24 0.33333333 0 0 0	

Add the new .csv file to your ArcMap project.



Right click on your plot feature class and select Joins and Relates and then Join

Select **PlotID** as the join field for both attribute tables, and the plot indicator.csv as your table to join to the plot locations file.

Join Data
Join lets you append additional data to this layer's attribute table so you can, for example, symbolize the layer's features using this data.
What do you want to join to this layer?
Join attributes from a table
1. Choose the field in this layer that the join will be based on: PlotID ▼
2. Choose the table to join to this layer, or load the table from disk:
3. Choose the field in the table to base the join on: PlotID
Join Options © Keep all records All records in the target table are shown in the resulting table. Unmatched records will contain null values for all fields being appended into the target table from the join table.
Keep only <u>m</u> atching records If a record in the target table doesn't have a match in the join table, that record is removed from the resulting target table. <u>V</u> alidate Join
About joining data OK Cancel

r_bliviA_piotioc							-	1				
SiteID	SiteName	PlotID	EstablishD	State	EcolSite I	MgtUnit	GPSCoordSy	Datum	Zone	Easting	Northing	Elevation
Aspen Woodland	Aspen Woodland	3	8/17/2011		UNKNOWN		Decimal Degrees	WGS84		-108.026844	39.716768	0
Aspen Woodland	Aspen Woodland	9	8/31/2011		UNKNOWN		Decimal Degrees	WGS84		-108.558905	39.68039	
Brushy Loam	Brushy Loam	11	8/23/2011		UNKNOWN		Decimal Degrees	WGS84		-107.995685	39.650869	
Brushy Loam	Brushy Loam	13	8/31/2011		UNKNOWN		Decimal Degrees	WGS84		-108.543829	39.656336	
Brushy Loam	Brushy Loam	15	9/8/2011		UNKNOWN		Decimal Degrees	WGS84		-108.311642	39.627204	
Brushy Loam	Brushy Loam	18	7/27/2011		UNKNOWN		Decimal Degrees	WGS84		-108.591104	39.822316	
Brushy Loam	Brushy Loam	22	8/29/2011		UNKNOWN		Decimal Degrees	WGS84		-108.326867	39.640038	
Clayey Slopes & Foothills	Clayey Slopes & Foothills	58	7/3/2012	co	UNKNOWN		Decimal Degrees	WGS84		-108.5492	40.15312	178
Clayey Slopes & Foothills	Clayey Slopes & Foothills	59	6/25/2012	CO	UNKNOWN		Decimal Degrees	WGS84		-108.6014	40.0475	219
Clayey Slopes & Foothills	Clayey Slopes & Foothills	62	6/14/2012	CO	UNKNOWN		Decimal Degrees	WGS84		-108.708508	40.096209	178
Clayey Slopes & Foothills	Clayey Slopes & Foothills	78	7/30/2012	CO	UNKNOWN		Decimal Degrees	WGS84		-108.763049	40.062932	166
Clayey Slopes & Foothills	Clayey Slopes & Foothills	82	7/30/2012	CO	UNKNOWN		Decimal Degrees	WGS84		-108.7619	40.01324	173
Clayey Slopes & Foothills	Clayey Slopes & Foothills	90	7/23/2012	CO	UNKNOWN		Decimal Degrees	WGS84		-108.3792	40.1589	126
Dry Exposure	Dry Exposure	43	9/13/2011		UNKNOWN		Decimal Degrees	WGS84		-108.276418	39.689445	
Dry Exposure	Dry Exposure	45	8/29/2011		UNKNOWN		Decimal Degrees	WGS84		-108.315315	39.666863	
Dry Exposure	Dry Exposure	46	8/30/2011		UNKNOWN		Decimal Degrees	WGS84		-107.97293	39.636848	
Dry Exposure	Dry Exposure	47	9/13/2011		UNKNOWN		Decimal Degrees	WGS84		-108.315911	39.661744	
Loamy Slopes	Loamy Slopes	24	8/16/2011		UNKNOWN		Decimal Degrees	WGS84		-108.502144	40.068517	
Loamy Slopes	Loamy Slopes	25	8/24/2011		UNKNOWN		Decimal Degrees	WGS84		-108.156939	39.725273	
Loamy Slopes	Loamy Slopes	27	8/10/2011		UNKNOWN		Decimal Degrees	WGS84		-108.18487	39.914169	
Loamy Slopes	Loamy Slopes	27 (2011)	6/29/2012	CO	UNKNOWN		Decimal Degrees	WGS84		-108.18487	39.914169	
Loamy Slopes	Loamy Slopes	28	7/14/2011		UNKNOWN		Decimal Degrees	WGS84		-108.364481	39.712502	
Loamy Slopes	Loamy Slopes	29	9/9/2011		UNKNOWN		Decimal Degrees	WGS84		-108.051508	39.925332	
Loamy Slopes	Loamy Slopes	30	7/19/2011		UNKNOWN		Decimal Degrees	WGS84		-108.162252	39.894843	
Loamy Slopes	Loamy Slopes	31	9/6/2011		UNKNOWN		Decimal Degrees	WGS84		-108.108556	39.851283	
Loamy Slopes	Loamy Slopes	32	8/2/2011		UNKNOWN		Decimal Degrees	WGS84		-108.112886	39.873019	
Loamy Slopes	Loamy Slopes	32 (2011)*	7/18/2012	CO			Decimal Degrees	WGS84		-108.112886	39.873019	238
Loamy Slopes	Loamy Slopes	34	9/7/2011		UNKNOWN		Decimal Degrees	WGS84		-108.174667	39.877025	
Loamy Slopes	Loamy Slopes	84	8/3/2012	CO	UNKNOWN		Decimal Degrees	WGS84		-108.536	40.0426	240
Mountain Loam	Mountain Loam	54	9/8/2011		UNKNOWN		Decimal Degrees	WGS84		-108.30157	39.624502	
Mountain Loam	Mountain Loam	55	7/18/2011		UNKNOWN		Decimal Degrees	WGS84		-108.179103	39.894381	
Mountain Loam	Mountain Loam	55 (2011)	6/20/2011	CO	UNKNOWN		Decimal Degrees	WGS84		-108.179103	39.894381	224
Mountain Loam	Mountain Loam	56	7/26/2011		UNKNOWN		Decimal Degrees	WGS84		-108.141924	39.873765	
Mountain Loam	Mountain Loam	56 (2011)	7/11/2012	CO	UNKNOWN		Decimal Degrees	WGS84		-108.141924	39.873765	225
Mountain Loam	Mountain Loam	57	8/22/2011		UNKNOWN		Decimal Degrees	WGS84		-108.560306	39.985265	
Mountain Loam	Mountain Loam	67	7/26/2012	CO	UNKNOWN		Decimal Degrees	WGS84		-108.5556	39.9306	230
Pinyon-Juniper	Pinyon-Juniper	087	7/5/2012	CO	UNKNOWN		Decimal Degrees	WGS84		-108.4265	39.9716	195
Pinyon-Juniper	Pinyon-Juniper	2	7/19/2012	CO	UNKNOWN		Decimal Degrees	WGS84		-108.208	39.9738	200
Pinvon-Juniper	Pinvon-Juniper	3*	7/12/2012	со	UNKNOWN		Decimal Degrees	WGS84		-108,180016	39,93043	

Open the attribute table, review the indicator values associated with each plot.

Repeat **Step 4** for each indicator to create a complete plot indicator shapefile.

Contacts

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