

LOCATION AND DATA

HOW WE LOCATE AND REPRESENT DATA

Home

Insert

Draw

Page Layout

Share

Comments



Clipboard



Font



Alignment



Number



Conditional Formatting



Format as Table



Cell Styles

F9



fx

A

B

C

D

E

	FID	Id	X	Y	
1	0	1	-86.301906	44.3717995	
2	1	2	-86.304422	44.3737984	
3	2	3	-86.306939	44.3758011	
4	3	4	-86.309455	44.3778	
5	4	5	-86.311972	44.3797989	
6	5	6	-86.304707	44.3699989	
7	6	7	-86.307223	44.3720016	
8	7	8	-86.30974	44.3740005	
9	8	9	-86.312256	44.3759995	
10	9	10	-86.314773	44.3779984	
11	10	11	-86.307508	44.3681984	
12	11	12	-86.310024	44.3702011	
13	12	13	-86.312541	44.3722	
14	13	14	-86.315057	44.3741989	
15	14	15	-86.317574	44.3762016	
16	15	16	-86.310308	44.3664017	
17	16	17	-86.312825	44.3684006	
18	17	18	-86.315341	44.3703995	
19	18	19	-86.317858	44.3723984	
20	19	20	-86.320375	44.3744011	
21	20	21	-86.313109	44.3646011	
22	21	22	-86.315625	44.3666	
23	22	23	-86.318142	44.3685989	
24	23	24	-86.320658	44.3706017	
25	24	25	-86.323175	44.3726006	
26					
27					
28					

Site1

+



130%

Latitude, Longitude

- ▶ Most common format for representing location
- ▶ Often represented in tables
- ▶ Can be converted to spatial data



WHAT DOES X REPRESENT?

WHAT DOES YOUR REPRESENT?



DO THESE REPRESENT PROGRESS?

HOW IS LOCATION REPRESENTED IN DATA

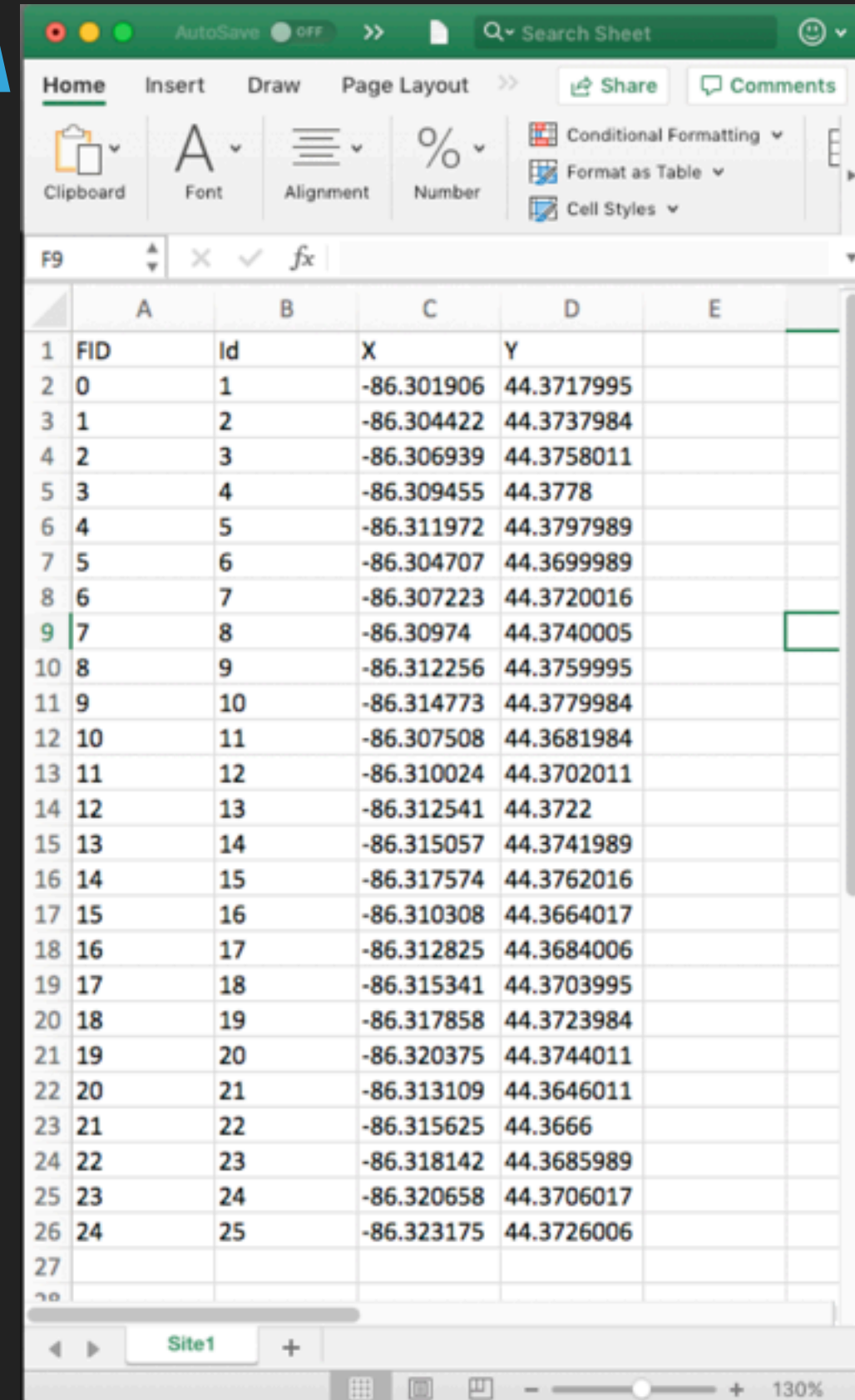
Latitude, Longitude

- ▶ Most common format for representing location
- ▶ Often represented in tables
- ▶ Can be converted to spatial data

WHAT DOES X REPRESENT?

WHAT DOES Y REPRESENT?

DO THESE REPRESENT POINTS, LINES, POLYGONS ?



The screenshot shows a Google Sheet interface with a table of location data. The table has four columns: FID, Id, X, and Y. The data is organized into rows, with the first row (row 1) serving as the header. The X column contains longitude values, and the Y column contains latitude values. The table is displayed in a standard Google Sheet format with a grid background and a sidebar on the right.

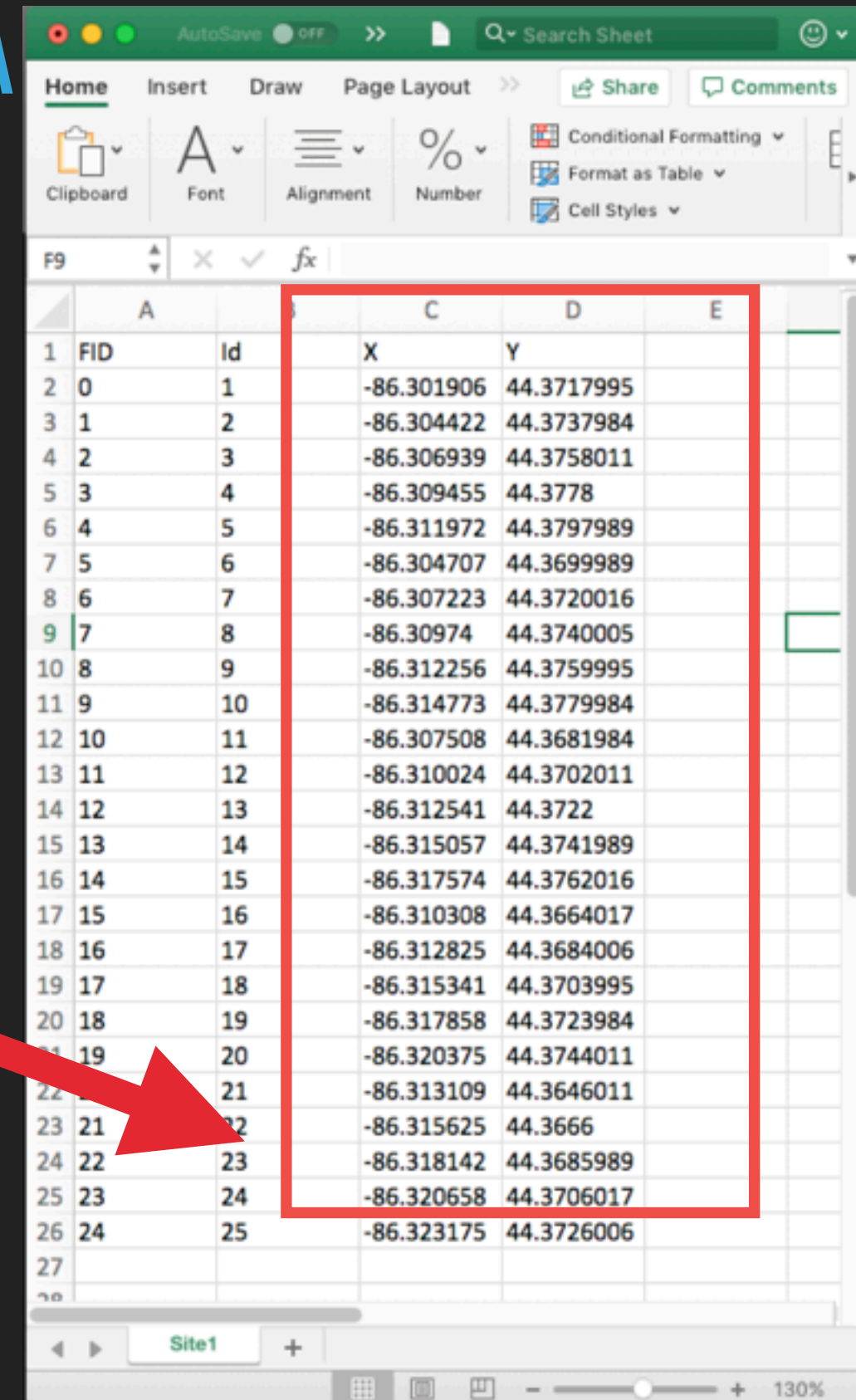
	A	B	C	D	E
1	FID	Id	X	Y	
2	0	1	-86.301906	44.3717995	
3	1	2	-86.304422	44.3737984	
4	2	3	-86.306939	44.3758011	
5	3	4	-86.309455	44.3778	
6	4	5	-86.311972	44.3797989	
7	5	6	-86.304707	44.3699989	
8	6	7	-86.307223	44.3720016	
9	7	8	-86.30974	44.3740005	
10	8	9	-86.312256	44.3759995	
11	9	10	-86.314773	44.3779984	
12	10	11	-86.307508	44.3681984	
13	11	12	-86.310024	44.3702011	
14	12	13	-86.312541	44.3722	
15	13	14	-86.315057	44.3741989	
16	14	15	-86.317574	44.3762016	
17	15	16	-86.310308	44.3664017	
18	16	17	-86.312825	44.3684006	
19	17	18	-86.315341	44.3703995	
20	18	19	-86.317858	44.3723984	
21	19	20	-86.320375	44.3744011	
22	20	21	-86.313109	44.3646011	
23	21	22	-86.315625	44.3666	
24	22	23	-86.318142	44.3685989	
25	23	24	-86.320658	44.3706017	
26	24	25	-86.323175	44.3726006	
27					
28					

HOW IS LOCATION REPRESENTED IN DATA

Latitude, Longitude

- ▶ Most common format for representing location
- ▶ Often represented in tables
- ▶ Can be converted to spatial data

IMPORTANT TO KNOW WHAT
THE COORDINATE SYSTEM IS



	A	B	C	D	E
1	FID	Id	X	Y	
2	0	1	-86.301906	44.3717995	
3	1	2	-86.304422	44.3737984	
4	2	3	-86.306939	44.3758011	
5	3	4	-86.309455	44.3778	
6	4	5	-86.311972	44.3797989	
7	5	6	-86.304707	44.3699989	
8	6	7	-86.307223	44.3720016	
9	7	8	-86.30974	44.3740005	
10	8	9	-86.312256	44.3759995	
11	9	10	-86.314773	44.3779984	
12	10	11	-86.307508	44.3681984	
13	11	12	-86.310024	44.3702011	
14	12	13	-86.312541	44.3722	
15	13	14	-86.315057	44.3741989	
16	14	15	-86.317574	44.3762016	
17	15	16	-86.310308	44.3664017	
18	16	17	-86.312825	44.3684006	
19	17	18	-86.315341	44.3703995	
20	18	19	-86.317858	44.3723984	
21	19	20	-86.320375	44.3744011	
22	20	21	-86.313109	44.3646011	
23	21	22	-86.315625	44.3666	
24	22	23	-86.318142	44.3685989	
25	23	24	-86.320658	44.3706017	
26	24	25	-86.323175	44.3726006	
27					
28					