Tips for Data Manipulation: Example

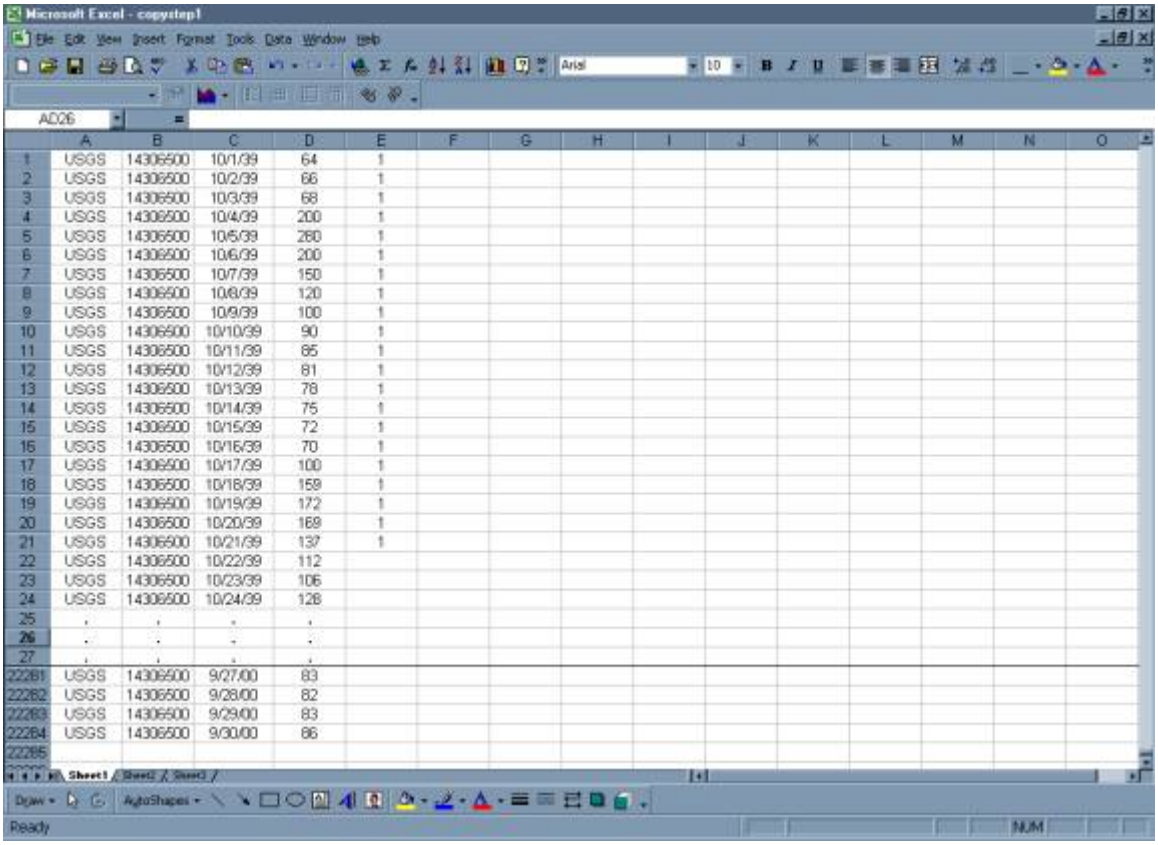
Information to get started:

- The lesson below contains step-by-step instructions and "snapshots" of what each step looks like when carried out in a Microsoft Excel workbook. Blue shading of information in the Excel illustrations denotes changes made from the previous step. Dots placed in three consecutive rows indicate that a portion of data is hidden from sight.
- You can download an Excel workbook containing the complete data set by clicking on the "Download Data" link below. It contains each calculation step on a separate worksheet. To move between steps, click on the tabs at the bottom of the excel window.
- When you download the file, it may open in your browser window. You may wish to use the "save as" function to save the file to a local drive and then reopen it in Excel. This will make it easier to flip between the online lesson and the example workbook.
- Finally, we want to remind you that the techniques explained on this site are statistically based; therefore results must be viewed as predictions and not as facts. Please use the techniques and the information obtained from them responsibly!

Download Data

Step 1: Copy Daily Streamflow Data from USGS web site into Excel Spreadsheet

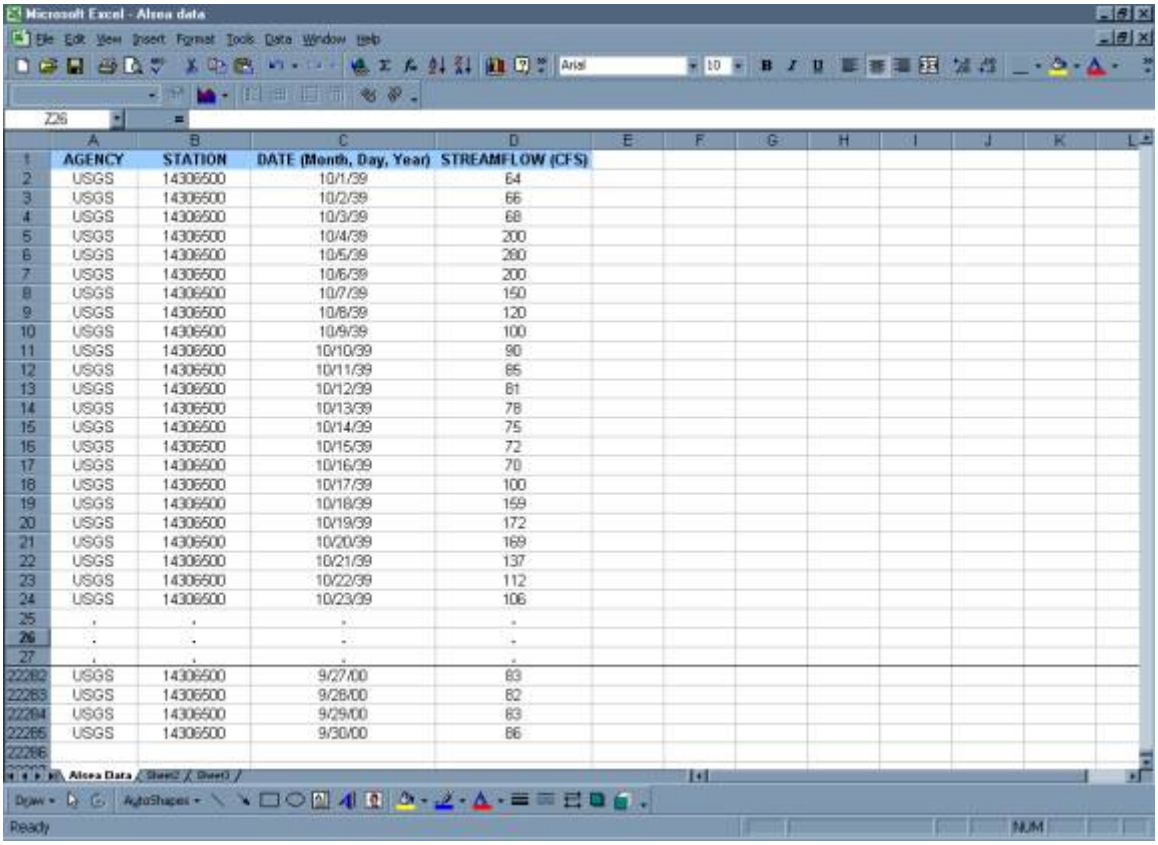
- Go to **http://oregon.usgs.gov**
- Select Historical Water Data
- Select Surface Water
- Select Streamflow
- Check box under Site Identifier for Site Name and Submit
- Type in Alsea under Site Name and select match any part and Submit
- Select gage at TIDEWATER (14306500)
- Select Tab-separated data and Display in browser and Submit
- Select the entire data set to copy
- Paste Special as text (this will separate the data into columns)



	A	B	C	D	E
1	USGS	14306500	10/1/39	64	1
2	USGS	14306500	10/2/39	66	1
3	USGS	14306500	10/3/39	68	1
4	USGS	14306500	10/4/39	200	1
5	USGS	14306500	10/5/39	260	1
6	USGS	14306500	10/6/39	200	1
7	USGS	14306500	10/7/39	150	1
8	USGS	14306500	10/8/39	120	1
9	USGS	14306500	10/9/39	100	1
10	USGS	14306500	10/10/39	90	1
11	USGS	14306500	10/11/39	85	1
12	USGS	14306500	10/12/39	81	1
13	USGS	14306500	10/13/39	78	1
14	USGS	14306500	10/14/39	75	1
15	USGS	14306500	10/15/39	72	1
16	USGS	14306500	10/16/39	70	1
17	USGS	14306500	10/17/39	100	1
18	USGS	14306500	10/18/39	159	1
19	USGS	14306500	10/19/39	172	1
20	USGS	14306500	10/20/39	169	1
21	USGS	14306500	10/21/39	137	1
22	USGS	14306500	10/22/39	112	
23	USGS	14306500	10/23/39	106	
24	USGS	14306500	10/24/39	128	
25	.	.	.	.	
26	.	.	.	.	
27	.	.	.	.	
22281	USGS	14306500	9/27/00	83	
22282	USGS	14306500	9/28/00	82	
22283	USGS	14306500	9/29/00	83	
22284	USGS	14306500	9/30/00	86	
22285					

Step 2: Organize spreadsheet with data

- Eliminate extraneous data (i.e., column E)
- Add titles to remaining Four columns
- NOTE: Data are listed in water years, hence 10/1/1939 – 9/30/40 is Water Year 1940.
- Label Sheet



Microsoft Excel - Alsea data

File Edit View Insert Format Tools Data Window Help

Z26 =

	A	B	C	D
1	AGENCY	STATION	DATE (Month, Day, Year)	STREAMFLOW (CFS)
2	USGS	14306500	10/1/39	64
3	USGS	14306500	10/2/39	66
4	USGS	14306500	10/3/39	68
5	USGS	14306500	10/4/39	200
6	USGS	14306500	10/5/39	280
7	USGS	14306500	10/6/39	200
8	USGS	14306500	10/7/39	150
9	USGS	14306500	10/8/39	120
10	USGS	14306500	10/9/39	100
11	USGS	14306500	10/10/39	90
12	USGS	14306500	10/11/39	85
13	USGS	14306500	10/12/39	81
14	USGS	14306500	10/13/39	78
15	USGS	14306500	10/14/39	75
16	USGS	14306500	10/15/39	72
17	USGS	14306500	10/16/39	70
18	USGS	14306500	10/17/39	100
19	USGS	14306500	10/18/39	159
20	USGS	14306500	10/19/39	172
21	USGS	14306500	10/20/39	169
22	USGS	14306500	10/21/39	137
23	USGS	14306500	10/22/39	112
24	USGS	14306500	10/23/39	106
25	.	.	.	.
26	.	.	.	.
27	.	.	.	.
22282	USGS	14306500	9/27/00	83
22283	USGS	14306500	9/28/00	82
22284	USGS	14306500	9/29/00	83
22285	USGS	14306500	9/30/00	86
22286				

Alsea Data / Sheet2 / Sheet3 /

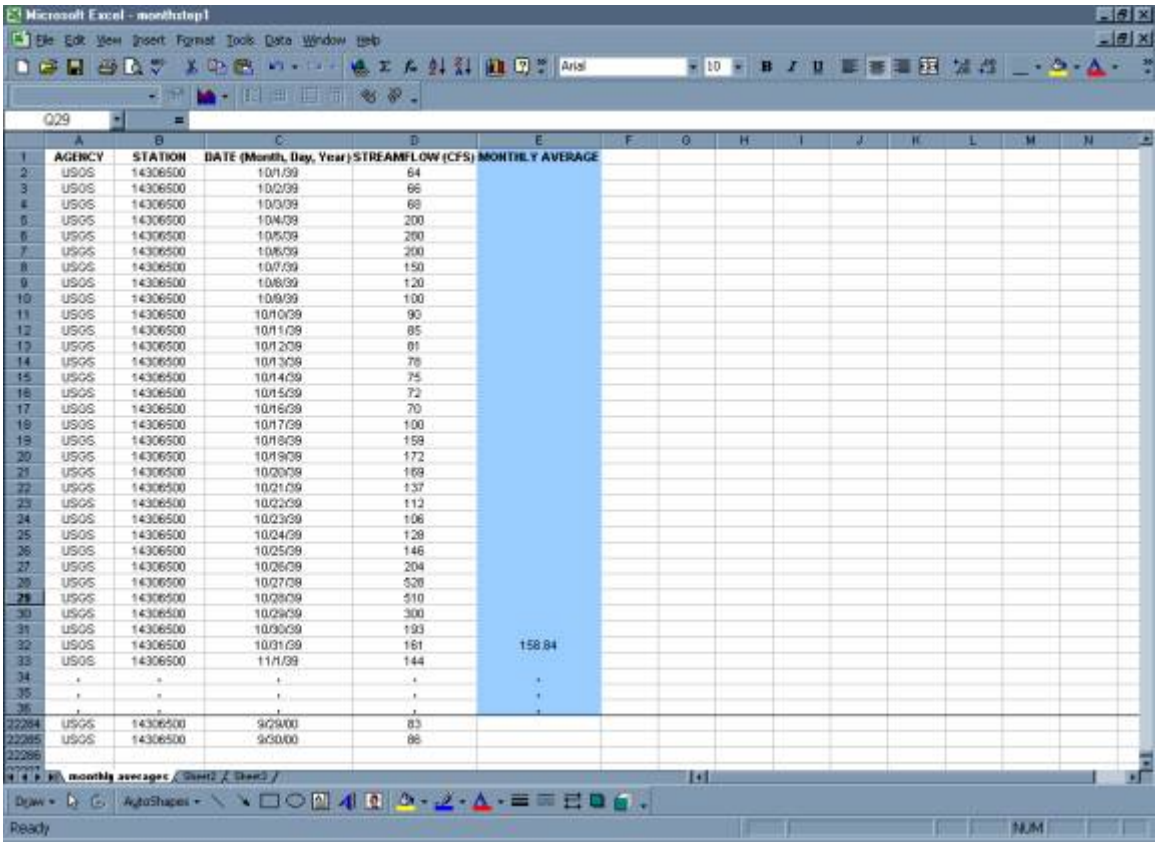
Draw AutoShapes

Ready NUM

Step 3: Obtain Monthly Averages

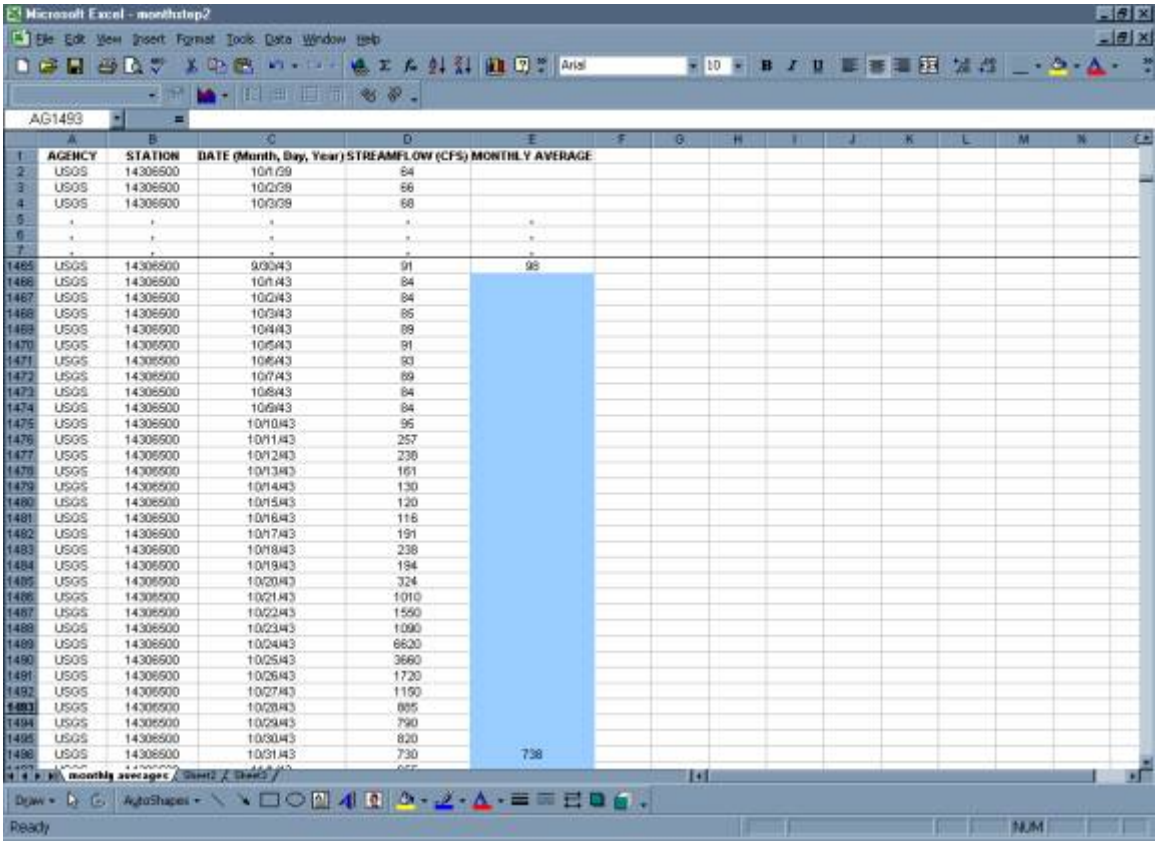
MANUALLY

- In fifth column, use the average function in Excel to obtain the average for each month for the first four years.



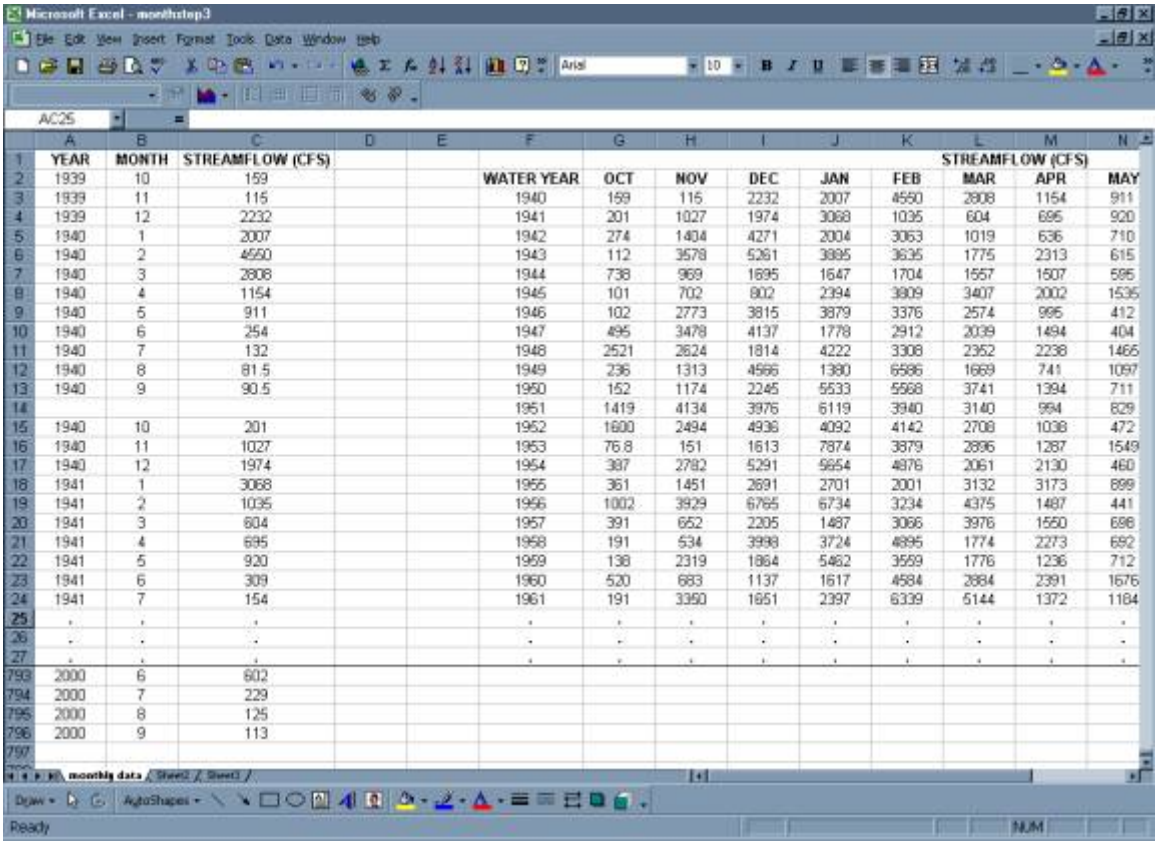
	A	B	C	D	E
1	AGENCY	STATION	DATE (Month, Day, Year)	STREAMFLOW (CFS)	MONTHLY AVERAGE
2	USGS	14306500	10/1/39	64	
3	USGS	14306500	10/2/39	66	
4	USGS	14306500	10/3/39	68	
5	USGS	14306500	10/4/39	200	
6	USGS	14306500	10/5/39	200	
7	USGS	14306500	10/6/39	200	
8	USGS	14306500	10/7/39	150	
9	USGS	14306500	10/8/39	120	
10	USGS	14306500	10/9/39	100	
11	USGS	14306500	10/10/39	90	
12	USGS	14306500	10/11/39	85	
13	USGS	14306500	10/12/39	81	
14	USGS	14306500	10/13/39	78	
15	USGS	14306500	10/14/39	75	
16	USGS	14306500	10/15/39	72	
17	USGS	14306500	10/16/39	70	
18	USGS	14306500	10/17/39	100	
19	USGS	14306500	10/18/39	159	
20	USGS	14306500	10/19/39	172	
21	USGS	14306500	10/20/39	169	
22	USGS	14306500	10/21/39	137	
23	USGS	14306500	10/22/39	112	
24	USGS	14306500	10/23/39	106	
25	USGS	14306500	10/24/39	128	
26	USGS	14306500	10/25/39	146	
27	USGS	14306500	10/26/39	204	
28	USGS	14306500	10/27/39	528	
29	USGS	14306500	10/28/39	510	
30	USGS	14306500	10/29/39	300	
31	USGS	14306500	10/30/39	193	
32	USGS	14306500	10/31/39	161	158.84
33	USGS	14306500	11/1/39	144	
34	"	"	"	"	"
35	"	"	"	"	"
36	"	"	"	"	"
22284	USGS	14306500	9/29/00	83	
22285	USGS	14306500	9/30/00	86	
22286					

- Copy the monthly average column for the first four years and paste to rest of data set. This will compute the monthly averages for the remaining years.

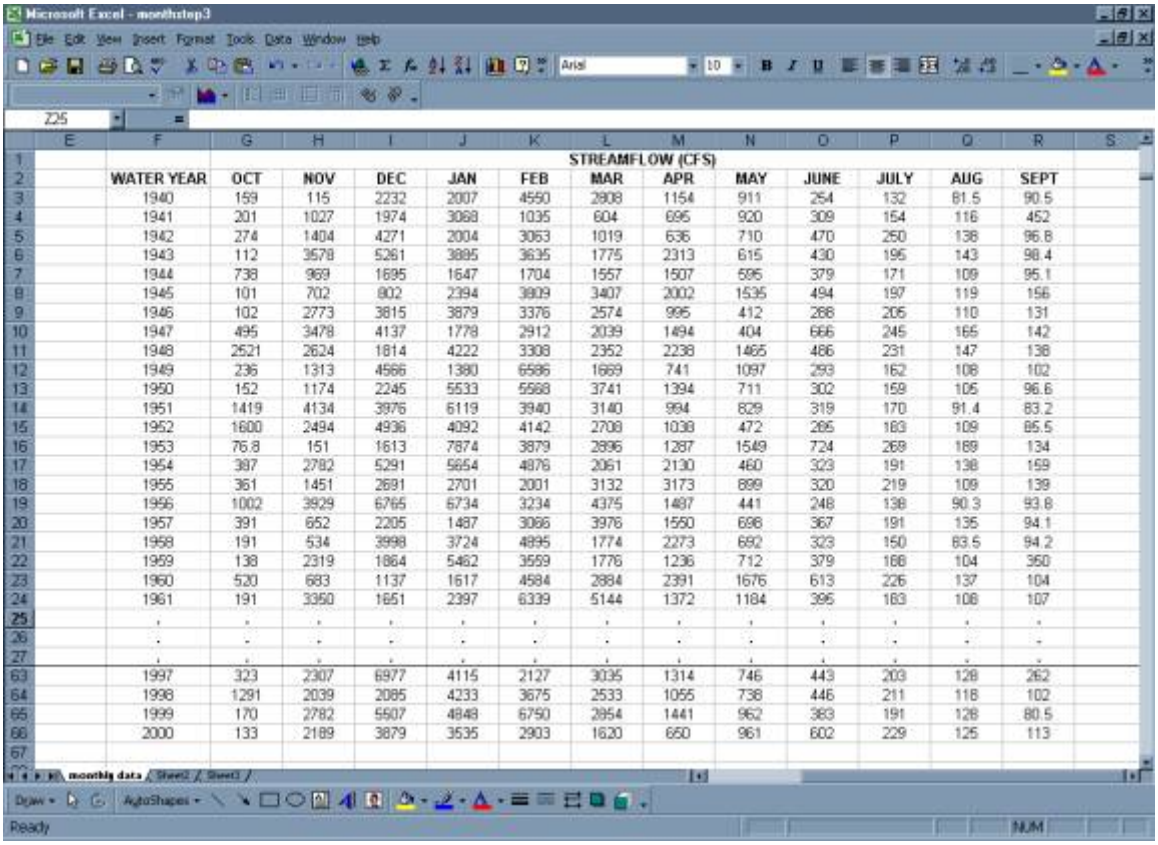


	A	B	C	D	E
1	AGENCY	STATION	DATE (Month, Day, Year)	STREAMFLOW (CFS)	MONTHLY AVERAGE
2	USGS	14306500	10/1/39	64	
3	USGS	14306500	10/2/39	66	
4	USGS	14306500	10/3/39	68	
5	.	.	.	.	.
6	.	.	.	.	.
7	.	.	.	.	.
1465	USGS	14306500	9/30/43	91	98
1466	USGS	14306500	10/1/43	84	
1467	USGS	14306500	10/2/43	84	
1468	USGS	14306500	10/3/43	85	
1469	USGS	14306500	10/4/43	89	
1470	USGS	14306500	10/5/43	91	
1471	USGS	14306500	10/6/43	93	
1472	USGS	14306500	10/7/43	89	
1473	USGS	14306500	10/8/43	84	
1474	USGS	14306500	10/9/43	84	
1475	USGS	14306500	10/10/43	95	
1476	USGS	14306500	10/11/43	257	
1477	USGS	14306500	10/12/43	238	
1478	USGS	14306500	10/13/43	161	
1479	USGS	14306500	10/14/43	130	
1480	USGS	14306500	10/15/43	120	
1481	USGS	14306500	10/16/43	116	
1482	USGS	14306500	10/17/43	191	
1483	USGS	14306500	10/18/43	238	
1484	USGS	14306500	10/19/43	194	
1485	USGS	14306500	10/20/43	324	
1486	USGS	14306500	10/21/43	1010	
1487	USGS	14306500	10/22/43	1550	
1488	USGS	14306500	10/23/43	1090	
1489	USGS	14306500	10/24/43	6620	
1490	USGS	14306500	10/25/43	3660	
1491	USGS	14306500	10/26/43	1720	
1492	USGS	14306500	10/27/43	1150	
1493	USGS	14306500	10/28/43	885	
1494	USGS	14306500	10/29/43	790	
1495	USGS	14306500	10/30/43	820	
1496	USGS	14306500	10/31/43	730	738

- Organize Monthly Data by Year



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	YEAR	MONTH	STREAMFLOW (CFS)									STREAMFLOW (CFS)		
2	1939	10	159			WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
3	1939	11	115			1940	159	115	2232	2007	4550	2808	1154	911
4	1939	12	2232			1941	201	1027	1974	3068	1035	604	695	920
5	1940	1	2007			1942	274	1404	4271	2004	3063	1019	636	710
6	1940	2	4550			1943	112	3578	5261	3885	3635	1775	2313	615
7	1940	3	2808			1944	738	969	1695	1647	1704	1557	1507	595
8	1940	4	1154			1945	101	702	802	2394	3809	3407	2002	1535
9	1940	5	911			1946	102	2773	3815	3879	3376	2574	995	412
10	1940	6	254			1947	495	3478	4137	1778	2912	2039	1494	404
11	1940	7	132			1948	2521	2624	1814	4222	3308	2352	2238	1465
12	1940	8	81.5			1949	236	1313	4566	1380	6586	1669	741	1097
13	1940	9	90.5			1950	152	1174	2245	5533	5568	3741	1394	711
14						1951	1419	4134	3976	6119	3940	3140	994	629
15	1940	10	201			1952	1600	2494	4936	4092	4142	2708	1038	472
16	1940	11	1027			1953	76.8	151	1613	7874	3879	2896	1287	1549
17	1940	12	1974			1954	387	2782	5291	9954	4876	2061	2130	460
18	1941	1	3068			1955	361	1451	2691	2701	2001	3132	3173	899
19	1941	2	1035			1956	1002	3929	6765	6734	3234	4375	1487	441
20	1941	3	604			1957	391	652	2205	1487	3066	3976	1550	698
21	1941	4	695			1958	191	534	3998	3724	4895	1774	2273	692
22	1941	5	920			1959	138	2319	1864	5462	3559	1776	1236	712
23	1941	6	309			1960	520	683	1137	1617	4584	2884	2391	1676
24	1941	7	154			1961	191	3390	1651	2397	6339	5144	1372	1184
25	.	.	.			.	.	.	.	.	.	.	.	.
26	.	.	.			.	.	.	.	.	.	.	.	.
27	.	.	.			.	.	.	.	.	.	.	.	.
793	2000	6	602											
794	2000	7	229											
795	2000	8	125											
796	2000	9	113											
797														



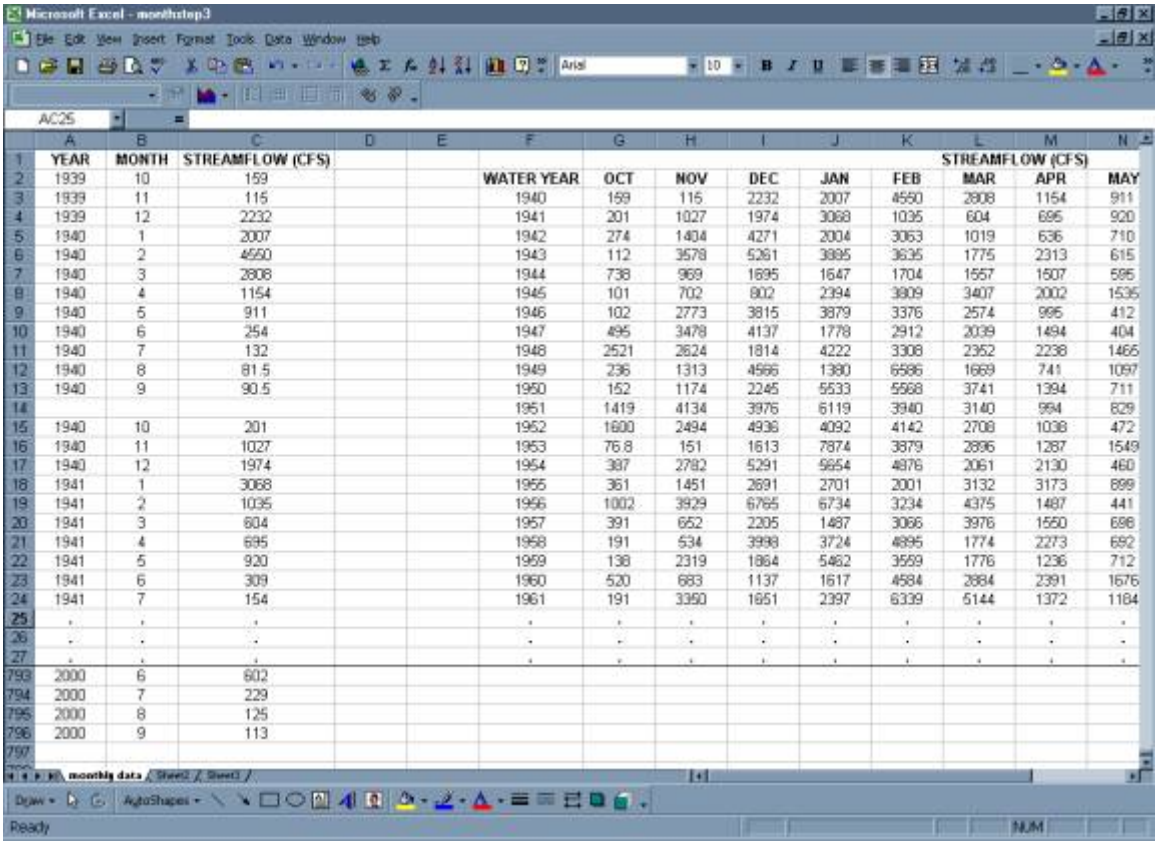
		STREAMFLOW (CFS)											
WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1940	159	115	2232	2007	4550	2808	1154	911	254	132	81.5	90.5
1941	201	1027	1974	3088	1035	604	695	920	309	154	116	452
1942	274	1404	4271	2004	3063	1019	636	710	470	250	138	96.8
1943	112	3578	5261	3885	3635	1775	2313	615	430	195	143	98.4
1944	738	969	1695	1647	1704	1557	1507	595	379	171	109	95.1
1945	101	702	802	2394	3809	3407	2002	1535	494	197	119	156
1946	102	2773	3815	3879	3376	2574	995	412	268	205	110	131
1947	495	3478	4137	1778	2912	2039	1494	404	666	245	165	142
1948	2521	2624	1814	4222	3308	2352	2238	1465	486	231	147	138
1949	236	1313	4566	1380	6586	1669	741	1097	293	162	108	102
1950	152	1174	2245	5533	5568	3741	1394	711	302	159	105	96.6
1951	1419	4134	3976	6119	3940	3140	994	829	319	170	91.4	83.2
1952	1600	2494	4936	4092	4142	2709	1038	472	285	183	109	85.5
1953	76.8	151	1613	7874	3879	2896	1287	1549	724	268	189	134
1954	387	2782	5291	5654	4876	2061	2130	460	323	191	138	159
1955	361	1451	2691	2701	2001	3132	3173	899	320	219	109	139
1956	1002	3929	6765	6734	3234	4375	1497	441	248	138	90.3	93.8
1957	391	652	2205	1487	3086	3976	1550	696	367	191	135	94.1
1958	191	534	3998	3724	4895	1774	2273	692	323	150	83.5	94.2
1959	138	2319	1864	5462	3559	1776	1236	712	379	188	104	350
1960	520	683	1137	1617	4584	2884	2391	1676	613	226	137	104
1961	191	3350	1651	2397	6339	5144	1372	1184	395	183	108	107
.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.
1997	323	2307	6977	4115	2127	3035	1314	746	443	203	128	262
1998	1291	2039	2085	4233	3675	2533	1055	738	446	211	118	102
1999	170	2782	5507	4848	6750	2854	1441	962	383	191	128	80.5
2000	133	2189	3879	3535	2903	1620	650	961	602	229	125	113

IF USING A USGS GAGE, MONTHLY STATISTICS ARE ALREADY CALCULATED

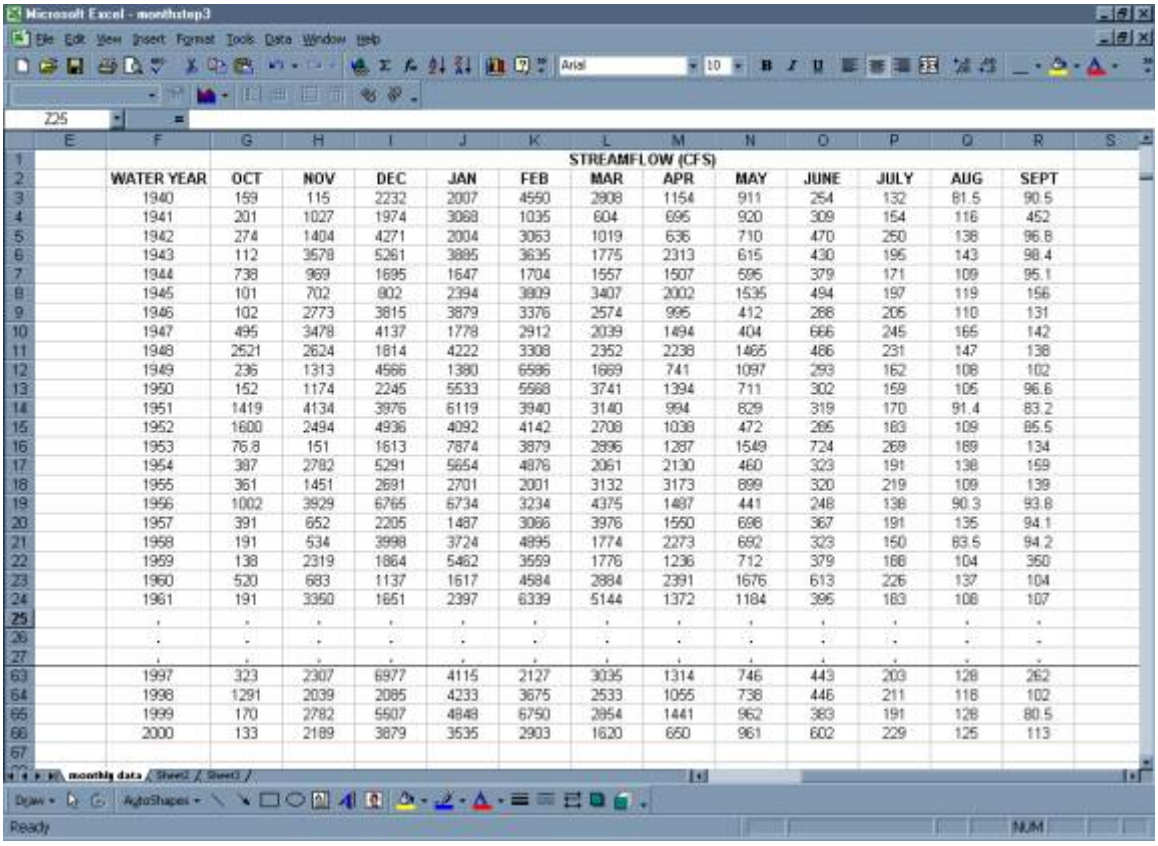
- Go to **http://oregon.usgs.gov**
- Select Historical Water Data
- Select Surface Water
- Select Statistics (Monthly)
- Check box under Site Identifier for Site Name and Submit
- Type in Alsea under Site Name and select match any part and Submit
- Select Tab-separated data and Display in browser and Submit
- Select gage at TIDEWATER (14306500)

** Data included in this table are for all of the Alsea gages, be absolutely certain that you are using the data for your desired gage (in this case 14306500)

- Select data set for desired gage to copy
- Paste Special as text (this will separate the data into columns)



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	YEAR	MONTH	STREAMFLOW (CFS)									STREAMFLOW (CFS)		
2	1939	10	159			WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
3	1939	11	115			1940	159	115	2232	2007	4550	2808	1154	911
4	1939	12	2232			1941	201	1027	1974	3068	1035	604	695	920
5	1940	1	2007			1942	274	1404	4271	2004	3063	1019	636	710
6	1940	2	4550			1943	112	3578	5261	3895	3635	1775	2313	615
7	1940	3	2808			1944	738	969	1695	1647	1704	1557	1507	595
8	1940	4	1154			1945	101	702	802	2394	3809	3407	2002	1535
9	1940	5	911			1946	102	2773	3815	3879	3376	2574	995	412
10	1940	6	254			1947	495	3478	4137	1778	2912	2039	1494	404
11	1940	7	132			1948	2521	2624	1814	4222	3308	2352	2238	1465
12	1940	8	81.5			1949	236	1313	4566	1380	6586	1669	741	1097
13	1940	9	90.5			1950	152	1174	2245	5533	5568	3741	1394	711
14						1951	1419	4134	3976	6119	3940	3140	994	829
15	1940	10	201			1952	1600	2494	4936	4092	4142	2708	1038	472
16	1940	11	1027			1953	76.8	151	1613	7874	3879	2896	1287	1549
17	1940	12	1974			1954	387	2782	5291	5654	4876	2061	2130	460
18	1941	1	3068			1955	361	1451	2691	2701	2001	3132	3173	899
19	1941	2	1035			1956	1002	3929	6765	6734	3234	4375	1487	441
20	1941	3	604			1957	391	652	2205	1487	3066	3976	1550	698
21	1941	4	695			1958	191	534	3998	3724	4895	1774	2273	692
22	1941	5	920			1959	138	2319	1864	5462	3559	1776	1236	712
23	1941	6	309			1960	520	683	1137	1617	4584	2884	2391	1676
24	1941	7	154			1961	191	3350	1651	2397	6339	5144	1372	1184
25	.	.	.			.	.	.	.	.	.	.	.	.
26	.	.	.			.	.	.	.	.	.	.	.	.
27	.	.	.			.	.	.	.	.	.	.	.	.
793	2000	6	602											
794	2000	7	229											
795	2000	8	125											
796	2000	9	113											
797														

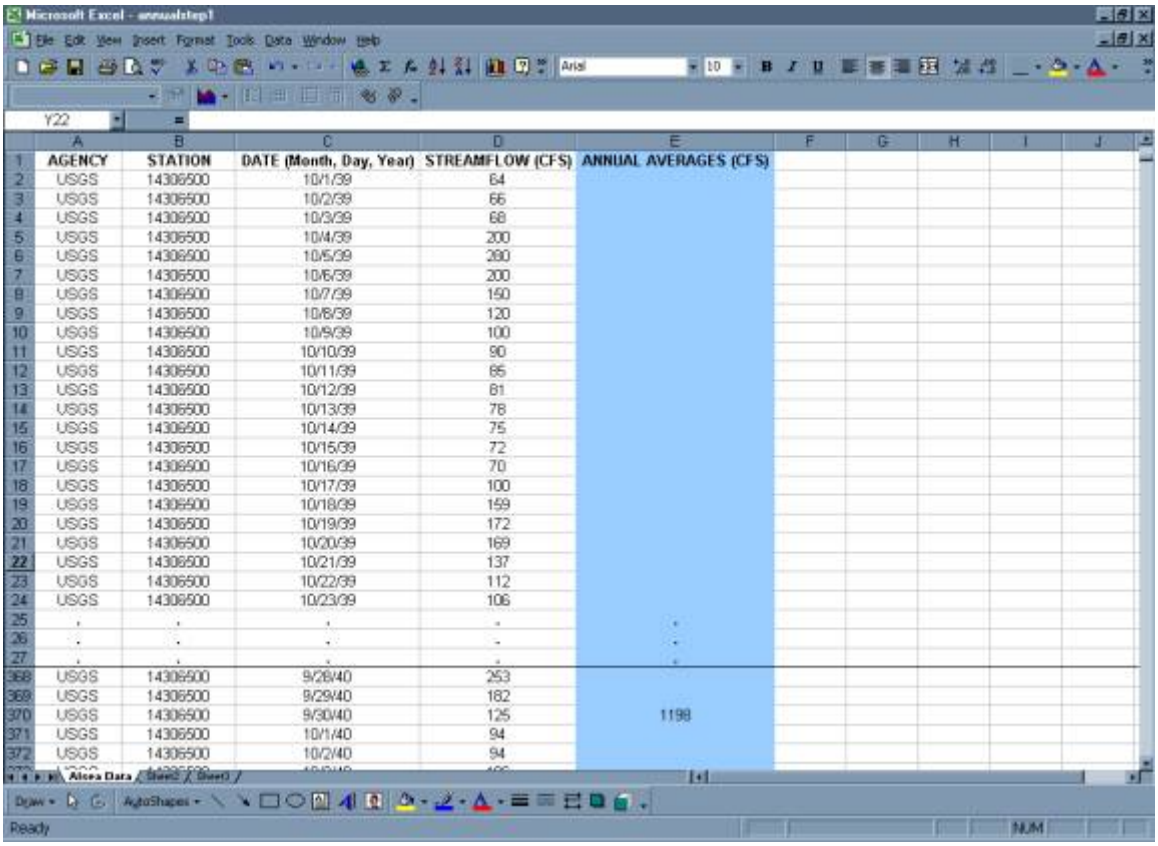


	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1								STREAMFLOW (CFS)							
2		WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
3		1940	159	115	2232	2007	4550	2808	1154	911	254	132	81.5	90.5	
4		1941	201	1027	1974	3068	1035	604	695	920	309	154	116	452	
5		1942	274	1404	4271	2004	3063	1019	636	710	470	250	138	96.8	
6		1943	112	3578	5261	3895	3635	1775	2313	615	430	195	143	98.4	
7		1944	738	969	1695	1647	1704	1557	1507	595	379	171	109	95.1	
8		1945	101	702	802	2394	3809	3407	2002	1535	494	197	119	156	
9		1946	102	2773	3815	3879	3376	2574	995	412	268	205	110	131	
10		1947	495	3478	4137	1778	2912	2039	1494	404	666	245	165	142	
11		1948	2521	2624	1814	4222	3308	2352	2238	1465	486	231	147	138	
12		1949	236	1313	4566	1380	6586	1669	741	1097	293	162	108	102	
13		1950	152	1174	2245	5533	5568	3741	1394	711	302	159	105	96.6	
14		1951	1419	4134	3976	6119	3940	3140	994	829	319	170	91.4	83.2	
15		1952	1600	2494	4936	4092	4142	2708	1038	472	295	183	109	85.5	
16		1953	76.8	151	1613	7874	3879	2896	1287	1549	724	269	189	134	
17		1954	387	2782	5291	5654	4876	2061	2130	460	323	191	138	159	
18		1955	361	1451	2691	2701	2001	3132	3173	899	320	219	109	139	
19		1956	1002	3929	6765	6734	3234	4375	1487	441	248	138	90.3	93.8	
20		1957	391	652	2205	1487	3066	3976	1550	698	367	191	135	94.1	
21		1958	191	534	3998	3724	4895	1774	2273	692	323	150	83.5	94.2	
22		1959	138	2319	1864	5462	3559	1776	1236	712	379	188	104	360	
23		1960	520	683	1137	1617	4584	2884	2391	1676	613	226	137	104	
24		1961	191	3350	1651	2397	6339	5144	1372	1184	395	183	108	107	
25		.	.	.	.	.	.	.	.	.	.	.	.	.	
26		.	.	.	.	.	.	.	.	.	.	.	.	.	
27		.	.	.	.	.	.	.	.	.	.	.	.	.	
63		1997	323	2307	6977	4115	2127	3035	1314	746	443	203	128	262	
64		1998	1291	2039	2085	4233	3675	2533	1055	738	446	211	118	102	
65		1999	170	2782	5507	4848	6750	2854	1441	962	383	191	128	80.5	
66		2000	133	2189	3879	3535	2903	1620	650	961	602	229	125	113	
67															

Step 4: Obtain Annual Averages

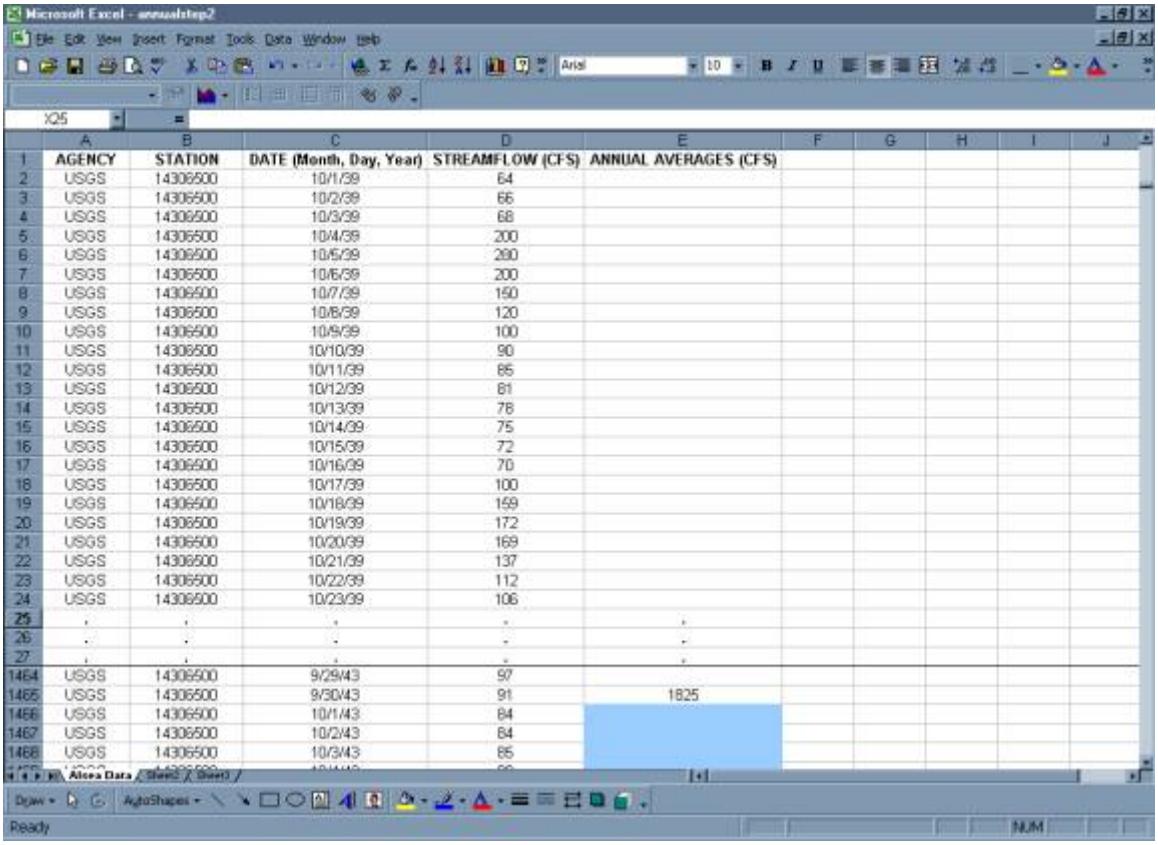
MANUALLY (Annual Averages are done based on Water Years 10/1/XX-9/30/XX)

- In fifth column, use the average function in Excel to obtain the average for each water year for the first four water years in the period of record.



	A	B	C	D	E
1	AGENCY	STATION	DATE (Month, Day, Year)	STREAMFLOW (CFS)	ANNUAL AVERAGES (CFS)
2	USGS	14306500	10/1/39	64	
3	USGS	14306500	10/2/39	66	
4	USGS	14306500	10/3/39	68	
5	USGS	14306500	10/4/39	200	
6	USGS	14306500	10/5/39	280	
7	USGS	14306500	10/6/39	200	
8	USGS	14306500	10/7/39	150	
9	USGS	14306500	10/8/39	120	
10	USGS	14306500	10/9/39	100	
11	USGS	14306500	10/10/39	90	
12	USGS	14306500	10/11/39	85	
13	USGS	14306500	10/12/39	81	
14	USGS	14306500	10/13/39	78	
15	USGS	14306500	10/14/39	75	
16	USGS	14306500	10/15/39	72	
17	USGS	14306500	10/16/39	70	
18	USGS	14306500	10/17/39	100	
19	USGS	14306500	10/18/39	159	
20	USGS	14306500	10/19/39	172	
21	USGS	14306500	10/20/39	169	
22	USGS	14306500	10/21/39	137	
23	USGS	14306500	10/22/39	112	
24	USGS	14306500	10/23/39	106	
25	.	.	.	.	.
26	.	.	.	.	.
27	.	.	.	.	.
368	USGS	14306500	9/28/40	253	
369	USGS	14306500	9/29/40	182	
370	USGS	14306500	9/30/40	125	1198
371	USGS	14306500	10/1/40	94	
372	USGS	14306500	10/2/40	94	

- Copy the annual average column for the first four years and paste to rest of data set. This will compute the annual averages for the remaining years.



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5	USGS	14306500	10/4/39	200	
6	USGS	14306500	10/5/39	280	
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12	USGS	14306500	10/11/39	85	
13	USGS	14306500	10/12/39	81	
14	USGS	14306500	10/13/39	78	
15	USGS	14306500	10/14/39	75	
16	USGS	14306500	10/15/39	72	
17	USGS	14306500	10/16/39	70	
18	USGS	14306500	10/17/39	100	
19	USGS	14306500	10/18/39	159	
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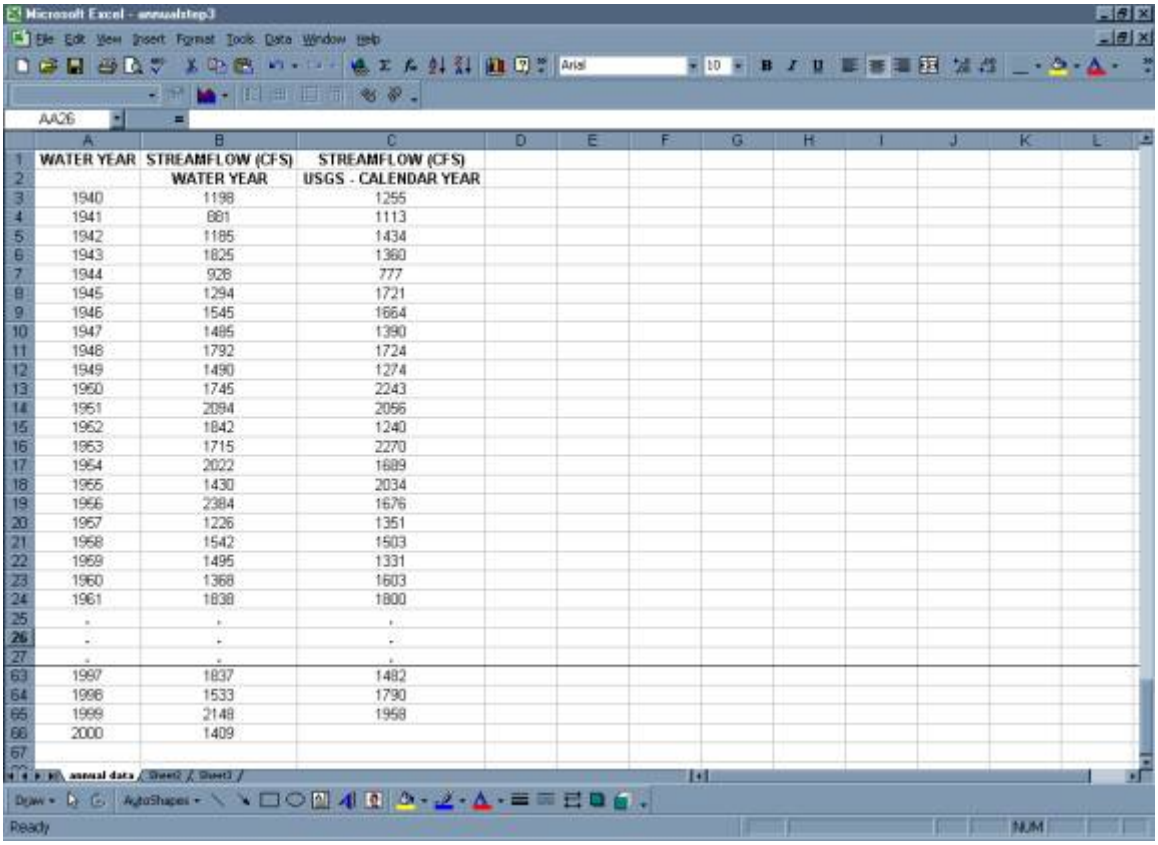
21	USGS	14306500	10/20/39	169	
22	USGS	14306500	10/21/39	137	
23	USGS	14306500	10/22/39	112	
24	USGS	14306500	10/23/39	106	
25	.	.	.	.	.
26	.	.	.	.	.
27	.	.	.	.	.
1464	USGS	14306500	9/29/43	97	
1465	USGS	14306500	9/30/43	91	1825
1466	USGS	14306500	10/1/43	84	
1467	USGS	14306500	10/2/43	84	
1468	USGS	14306500	10/3/43	85	

- Organize Annual Data by Year for Period of Record



	A	B	C
1	WATER YEAR	STREAMFLOW (CFS)	STREAMFLOW (CFS)
2		WATER YEAR	USGS - CALENDAR YEAR
3	1940	1198	1255
4	1941	881	1113
5	1942	1185	1434
6	1943	1825	1360
7	1944	928	777
8	1945	1294	1721
9	1946	1545	1664
10	1947	1485	1390
11	1948	1792	1724
12	1949	1490	1274
13	1950	1745	2243
14	1951	2084	2056
15	1952	1842	1240
16	1953	1715	2270
17	1954	2022	1689
18	1955	1430	2034
19	1956	2384	1676
20	1957	1226	1351
21	1958	1542	1503
22	1959	1495	1331
23	1960	1368	1603
24	1961	1838	1800
25	.	.	.
26	.	.	.
27	.	.	.
63	1997	1837	1482
64	1998	1533	1790
65	1999	2148	1958
66	2000	1409	

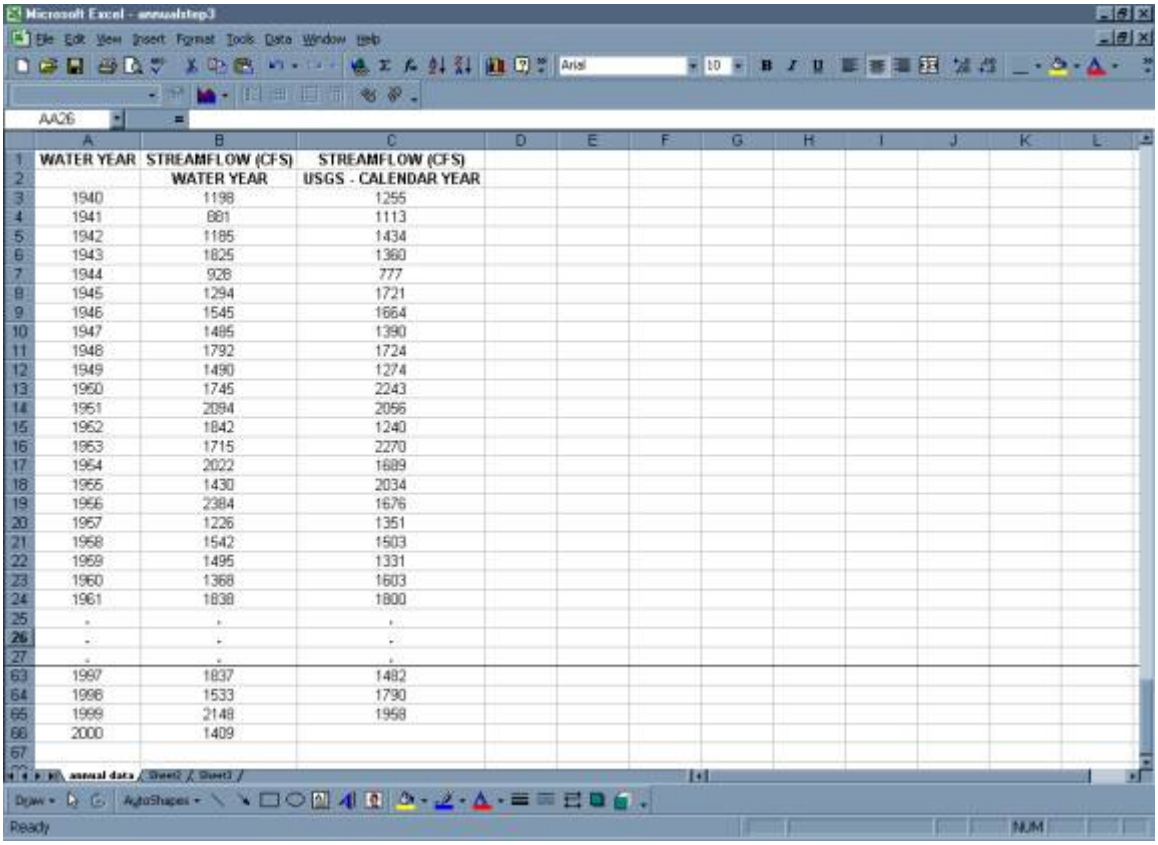
IF USING A USGS GAGE, ANNUAL STATISTICS ARE ALREADY CALCULATED

(Annual averages are based on calendar year 1/1/XX – 12/31/XX)

- The monthly values can be used to generate mean annual flows by water year.
- Go to **http://oregon.usgs.gov**
- Select Historical Water Data
- Select Surface Water
- Select Statistics (Annual)
- Check box under Site Identifier for Site Name and Submit
- Type in Alsea under Site Name and select match any part and Submit
- Select Tab-separated data and Display in browser and Submit
- Select gage at TIDEWATER (14306500)

** Data included in this table are for all of the Alsea gages, be absolutely certain that you are using the data for your desired gage (in this case 14306500)

- Select data set for desired gage to copy
- Paste Special as text (this will separate the data into columns)



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11	1948	1792	1724
12	1949	1490	1274
13	1950	1745	2243
14	1951	2094	2056
15	1952	1842	1240
16	1953	1715	2270
17	1954	2022	1689
18	1955	1430	2034
19	1956	2384	1676
20	1957	1226	1351
21	1958	1542	1503
22	1959	1495	1331
23	1960	1368	1603
24	1961	1838	1800
25	.	.	.
26	.	.	.
27	.	.	.
63	1997	1837	1482
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65	1999	2148	1958
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67			