

QUICK START: Utility Management - Usage Charges

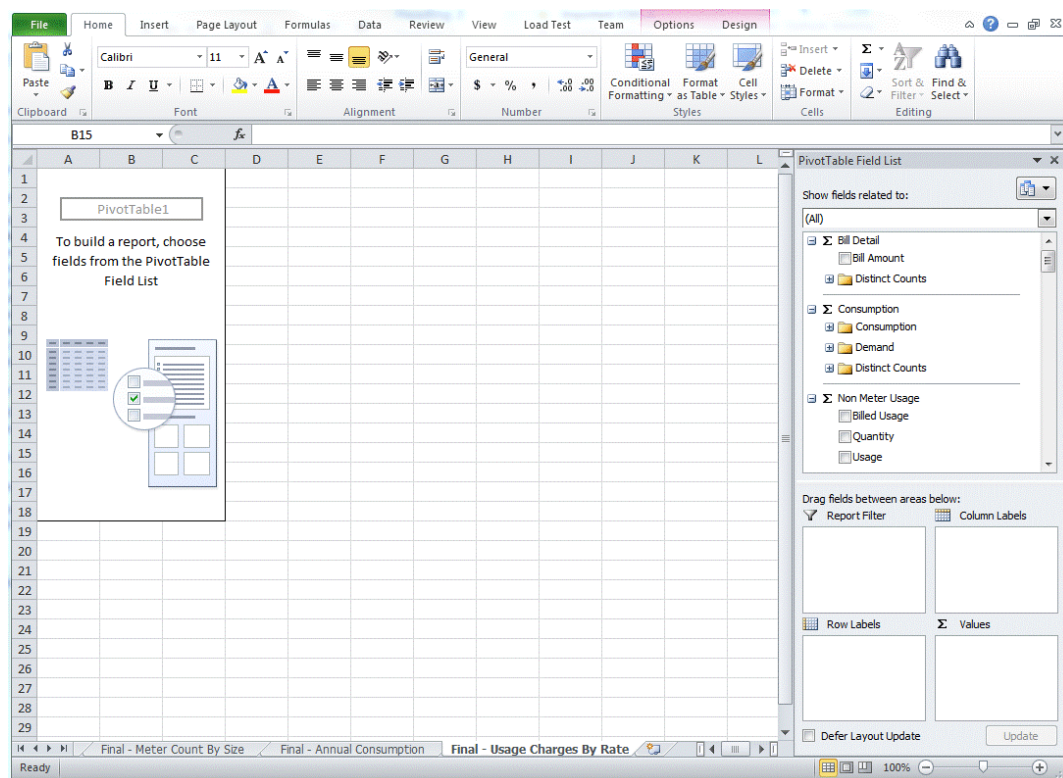
Description

This example will use the Consumption cube to show various views of the billed consumption.

Walkthrough

Open the **UM UsageCharges.xlsx** template. Change the data source to the General Ledger cube as outlined in the Changing a Template's Data Source Quick Start.

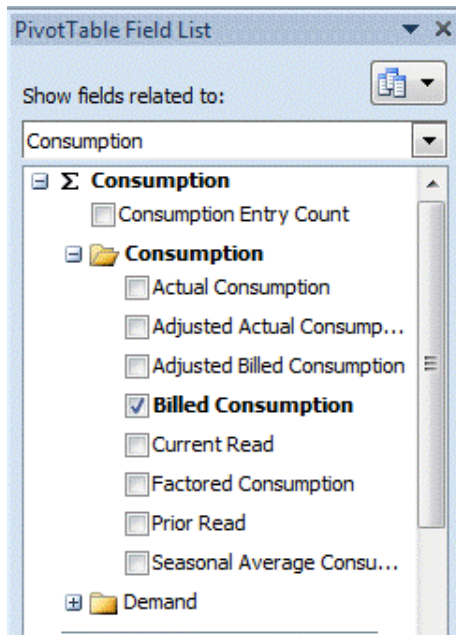
Leave the **Show fields related to:** drop-down list set to All. You should see the pivot table shown below.:



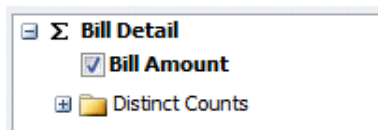
To analyze both Usage and Charges at the same time, we will be combining measures from multiple groups together. The Utilities Consumption cube has been designed so that the majority of the fields are relevant to all of the measure groups.

You can see which dimensions are meaningful by changing the **Show Fields Related To:** drop-down to different measure groups and looking at what is available.

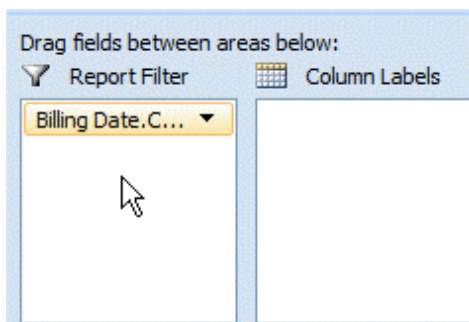
To add billed consumption to the pivot table, simply click the check box by **Billed Consumption** in the **Consumption** measures.



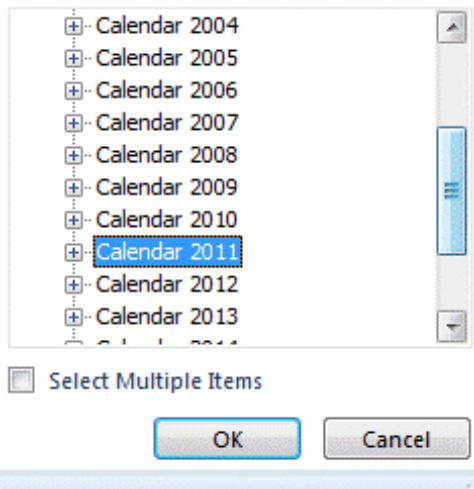
Add billed charges to the pivot table by clicking the check box by **Bill Amount** in the **Bill Detail** measure group.



To filter the time frame of the information we're viewing, there are multiple options such as **Billing Date** or a specific **Utility Bill**. For this sample, drag the **Billing Date.Calendar** field to the **Report Filter** section of the **Field List**.

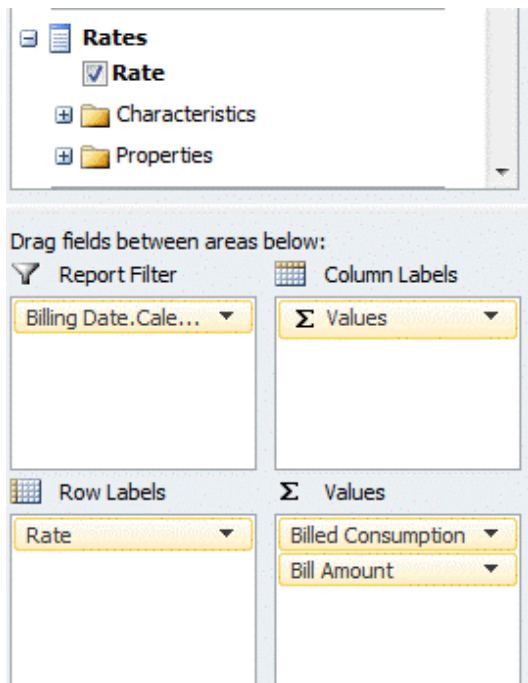


On the pivot table, click the filter arrow next to **BillingDate.Calendar**. Choose the year or time frame to view.



Similar to the date, add the **Service Class** to the filter area, and select Water & Sewer as the filter. You may add other fields to the area to further filter your results.

To break it down by rate, add the **Rate** to the **Row Labels** area.



You now have your bill charges and usage for the year broken down by rate, as shown below:

B5			3012000			
1	Billing Date: Calendar	Calendar 2012				
2	Service Class	Water & Sewer				
3						
4	Row Labels	Billed Consumption	Bill Amount			
5	01 IRRIGATION - Irrigation 5/8" - 3/4"	3,012,000.0	12,856.89			
6	01 WTR 5/8"-3/4" - Water 5/8"-3/4"	110,987,008.0	572,913.30			
7	03 IRRIGATION - Irrigation 1"	981,000.0	4,019.30			
8	03 WTR 1" - Water 1"	7,863,000.0	39,544.91			
9	05 WTR 1 1/2" - Water 1 1/2"	16,750,000.0	58,543.74			
10	06 IRRIGATION - Irrigation 2"	164,000.0	578.50			
11	06 WTR 2" - Water 2"	26,252,000.0	109,874.23			
12	07 WTR 3" - Water 3"	12,057,000.0	50,785.53			
13	08 WTR 4" - Water 4"	57,838,000.0	174,846.98			
14	FIRE HYDRANT - Fire Hydrant Charge		35,377.20			
15	FIRE PROT 4" - FIRE PROTECTION 4"		2,209.28			
16	FIRE PROT 6" - FIRE PROTECTION 6"	831,000.0	22,482.12			
17	FIRE PROT 8" - FIRE PROTECTION 8"		13,341.51			
18	PUB DRINKING FTN - Public Drinking Fountain		46.48			
19	WWTR FLAT INCITY - Wastewater Flat Inside City		646.80			
20	WWTR FLAT OUT - Wastewater Flat Outside City		6,130.67			
21	WWTR IN 1 1/2" - Wastewater Inside City 1 1/2"	15,738,000.0	142,422.43			
22	WWTR IN 1" - Wastewater Inside City 1"	6,514,000.0	69,720.39			
23	WWTR IN 2" - Wastewater Inside City 2"	22,221,000.0	217,034.40			
24	WWTR IN 5/8-3/4" - Wastewater Inside City 5/8-3/4"	107,028,008.0	1,164,696.26			
25	WWTR IN CITY 3" - Wastewater In City 3"	10,416,000.0	103,689.54			
26	WWTR IN CITY 4" - Wastewater In City 4"	49,117,000.0	448,145.61			
27	WWTR IN NO MTR - Wastewater In City No Meter		14,660.80			
28	WWTR OUT 1 1/2 - Wastewater Outside 1 1/2	114,000.0	1,877.02			
29	WWTR OUT 1" - Wastewater Outside 1"	177,000.0	3,405.54			
30	WWTR OUT 2" - Wastewater Outside 2"	2,000,000.0	24,007.37			
31	WWTR OUT 3" - Wastewater Outside 3"	80,000.0	2,591.04			
32	WWTR OUT 5/8-3/4 - Wastewater Outside 5/8-3/4	3,393,000.0	47,314.87			
33	WWTR OUT NON MTR - Wastewater Outside City No Meter		23,107.91			
34	Grand Total	247,571,008.0	3,366,870.62			
35						

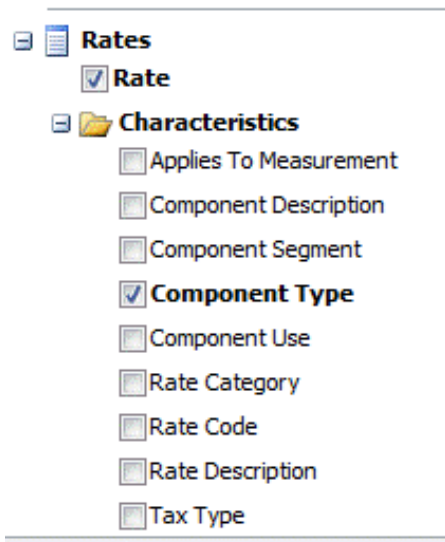
You may notice that the Grand Total of the billed consumption is less than the sum of billed consumption for each rate. This makes sense since some meters probably have multiple rates attached to them such as Water Rate and Sewer Rate.

Billed Consumption	Bill Amount			
3,012,000.0	12,856.89			
110,987,008.0	572,913.30			
981,000.0	4,019.30			
7,863,000.0	39,544.91			
16,750,000.0	58,543.74			
164,000.0	578.50			
26,252,000.0	109,874.23			
12,057,000.0	50,785.53			
57,838,000.0	174,846.98			
	35,377.20			
	2,209.28			
831,000.0	22,482.12			
	13,341.51			
	46.48			
	646.80			
	6,130.67			
15,738,000.0	142,422.43			
6,514,000.0	69,720.39			
22,221,000.0	217,034.40			
107,028,008.0	1,164,696.26			
10,416,000.0	103,689.54			
49,117,000.0	448,145.61			
	14,660.80			
114,000.0	1,877.02			
177,000.0	3,405.54			
2,000,000.0	24,007.37			
80,000.0	2,591.04			
3,393,000.0	47,314.87			
	23,107.91			
247,571,008.0	3,366,870.62			

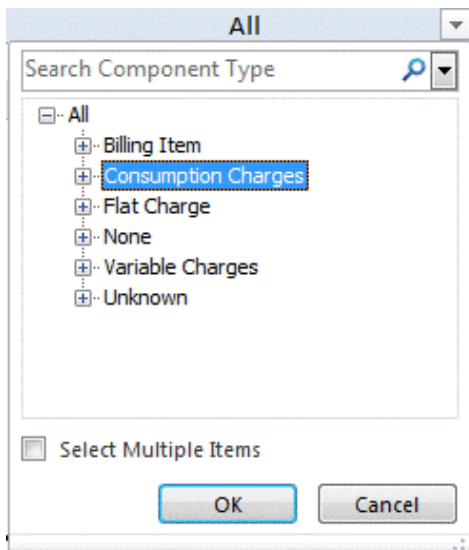
option Final - Usage Charges By Rate

Average: 21,596,810.3 Count: 21 Sum: 453,533,016.0

However, what if we only wanted to see the usage charges though and not include any flat meter charges or taxes? We can accomplish this by simply adding another filter. Drag the **Component Type** field under the **Rates Characteristics** folder to the **Report Filter** area.



On the pivot table, click the filter arrow next to **Component Type**. Choose Consumption Charges to view.



This gives us a result similar to the following:

Consumption Charges						
1	Billing Date.Calendar	Calendar 2012				
2	Service Class	Water & Sewer				
3	Component Type	Consumption Charges				
4						
5	Row Labels	Billed Consumption	Bill Amount			
6	01 IRRIGATION - Irrigation 5/8" - 3/4"	3,012,000.0	6,947.90			
7	01 WTR 5/8"-3/4" - Water 5/8"-3/4"	110,987,008.0	260,690.92			
8	03 IRRIGATION - Irrigation 1"	981,000.0	1,958.85			
9	03 WTR 1" - Water 1"	7,863,000.0	18,112.33			
10	05 WTR 1 1/2" - Water 1 1/2"	16,750,000.0	38,954.66			
11	06 IRRIGATION - Irrigation 2"	164,000.0	398.98			
12	06 WTR 2" - Water 2"	26,252,000.0	62,428.91			
13	07 WTR 3" - Water 3"	12,057,000.0	28,679.57			
14	08 WTR 4" - Water 4"	57,838,000.0	124,938.74			
15	FIRE HYDRANT - Fire Hydrant Charge		35,377.20			
16	FIRE PROT 4" - FIRE PROTECTION 4"		2,112.75			
17	FIRE PROT 6" - FIRE PROTECTION 6"	831,000.0	21,239.00			
18	FIRE PROT 8" - FIRE PROTECTION 8"		12,623.52			
19	WWTR IN 1 1/2" - Wastewater Inside City 1 1/2"	15,738,000.0	131,152.00			
20	WWTR IN 1" - Wastewater Inside City 1"	6,514,000.0	52,659.60			
21	WWTR IN 2" - Wastewater Inside City 2"	22,221,000.0	182,313.60			
22	WWTR IN 5/8-3/4" - Wastewater Inside City 5/8-3/4"	107,028,008.0	846,599.20			
23	WWTR IN CITY 3" - Wastewater In City 3"	10,416,000.0	87,494.40			
24	WWTR IN CITY 4" - Wastewater In City 4"	49,117,000.0	412,582.80			
25	WWTR OUT 1 1/2 - Wastewater Outside 1 1/2	114,000.0	1,199.28			
26	WWTR OUT 1" - Wastewater Outside 1"	177,000.0	1,862.04			
27	WWTR OUT 2" - Wastewater Outside 2"	2,000,000.0	18,346.88			
28	WWTR OUT 3" - Wastewater Outside 3"	80,000.0	841.60			
29	WWTR OUT 5/8-3/4 - Wastewater Outside 5/8-3/4	3,393,000.0	35,673.32			
30	Grand Total	247,571,008.0	2,385,188.05			
31						
32						
33						
34						
35						

A few other interesting variations:

- Add **Account Count > Bills** from the **Bill Detail** measure in the **Distinct Counts** folder.
- View all component types and break the rate down further using the **Component Description** under **Rate Characteristics**.
- Try filtering to a particular **Utility Bill** or **Billing Profile** located in the **Utility Bill** dimension.
- Instead of breaking it down by rate, you may want to do it by **Charge Category**.
- Instead of breaking it down by rate, you may want to do it by **Meter Type Description** (located in the **Device** folder of the **Meter** dimension).