Making a 3 Bubble Venn Diagram

1. Put just the data that you want into a spreadsheet tab. Cut and paste, deleting extras.

	А	В	С	D	Е	F	G	
1	Algon	quin Par	k Wilc	llife Co	ounts			
2	Year	Moose	Deer	Loon				
3	1995	435	125	234				
4	1996	432	135	236				
5	1997	430	142	243				
6	1998	426	150	231				
7	1999	426	152	224				
8	2000	422	155	218				
9	2001	420	161	214				
10	2002	416	163	216				
11	2003	412	169	218				
12	2004	411	169	221				
13	2005	409	177	227				
14	2006	405	180	229				
4.5								

2. Add a space ABOVE your dataset.

Calculate min, q1, median, q3, max, mean for your dataset.

The formulas that I used: =MIN(B9:B20) =QUARTILE.EXC(B9:B20,1) =MEDIAN(B9:B20) =QUARTILE.EXC(B9:B20,3) =MAX(B9:B20) =AVERAGE(B9:B20)

	А	В	С	D	
1	Algonqui	n Park W	/ildlife	Count	s
2	min	405	125	214	
3	q1	411.25	144	218	
4	median	421	158	226	
5	q3	429	169	233	
6	max	435	180	243	
7	mean	420.33	157	226	
8	Year	Moose	Deer	Loon	
9	1995	435	125	234	
10	1996	432	135	236	
11	1997	430	142	243	
12	1998	426	150	231	
13	1999	426	152	224	
14	2000	422	155	218	
15	2001	420	161	214	
16	2002	416	163	216	
17	2003	412	169	218	
18	2004	411	169	221	
19	2005	409	177	227	
20	2006	405	180	229	

3. Add columns for some calculations.

Pick your A, B and C events. I use medians and Q3 values to pick mine.

	A	В	С	D	E	F	G	H	I.	J	K	L
1	Algonqui	n Park W	/ildlife	Count	s							
2	min	405	125	214								
3	q1	411.25	144	218								
4	median	421	158	226		A Event	B Event	C Event				
5	q3	429	169	233		Moose over	Deer over	Loon over				
6	max	435	180	243		429	169	226				
7	mean	420.33	157	226	count	S						
8	Year	Moose	Deer	Loon		A?	B?	C?	A and B	B and C	A and C	A and B and C
9	1995	435	125	234								
10	1996	432	135	236								
11	1997	430	142	243								
12	1998	426	150	231								
13	1999	426	152	224								
14	2000	422	155	218								
15	2001	420	161	214								
16	2002	416	163	216								
17	2003	412	169	218								
18	2004	411	169	221								
19	2005	409	177	227								
20	2006	405	180	229								

4. Calculate A, B, C.

	Α	В	С	D	E	F	G	Н	1	In F9:
1	Algonqui	onquin Park Wildlife		Counts						=B9>\$F\$6
2	min	405	125	214						
3	q1	411.25	144	218						In G9:
4	median	421	158	226		A Event	B Event	C Event		=C9>\$G\$6
5	q3	429	169	233		Moose over	Deer over	Loon over		
6	max	435	180	243		429	169	226		ln H9: =D9>\$H\$6
7	mean	420.33	157	226	counts					-03>3050
8	Year	Moose	Deer	Loon		Α?	B?	C?	A and	
9	1995	435	125	234		TRUE	FALSE	TRUE		
10	1996	432	135	236						
11	1997	430	142	243						
12	1998	426	150	231						

5. Calculate the next columns:

	А	В	С	D	Е	F	G	Н	I.	J	K	L
1	Algonqui	n Park W	/ildlife	Count	s							
2	min 405 12		125	214								
3	q1 411.25 1		144	218								
4	median	421	158	226		A Event	B Event	C Event				
5	q3	429	169	233		Moose over	Deer over	Loon over				
6	max	435	180	243		429	169	226				
7	mean	420.33	157	226	counts							
8	Year	Moose	Deer	Loon		Α?	B?	C?	A and B	B and C	A and C	A and B and C
9	1995	435	125	234		TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE
10	1996	432	135	236								
11	1007	420	140	242								I

In 19 (A and B)	In J9 (B and C)	In K9 (A and C)	In L9 (all three)
=AND(F9,G9)	=AND(G9,H9)	=AND(F9,H9)	=AND(F9,G9,H9)

6. Fill Down.

Π		А	В	С	D	Е	F	G	Н	1	J	K	L		Note	: a	ll of my A	and B and	d C colui	nn was			
	Algonquin Park Wildlife Counts																						
	2 [min	405	125	214									🗌 false. That's not going to make a good Venn									
	3 (q1	411.25	144	218										Diagram. SoI went back and fiddled with								
	4 I	median	421	158	226		A Event	B Event	C Event						Diagr	an	n. SoI we	ent back a	and fiddl	ed with			
	5 (q3	429	169	233		Moose over	Deer over	Loon over						-								
	6 I	max	435	180	243		429	169	226						my e	ve	nts.						
	7	mean	420.33	157	226	counts																	
	8	Year	Moose	Deer	Loon		Α?	B?	C?	A and B	B and C	A and C	A and B and C		-								
1	9	1995	435	125	234		TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE			- 1							
1	0	1996	432	135	236		TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE				A Event	B Event	C Event				
1	1	1997	430	142	243		TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE		-		Moose over	Deer under	Loon over				
1	2	1998	426	150	231		FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE		-	-		Deer under					
1	3	1999	426	152	224		FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE				429	169	218				
1	4	2000	422	155	218		FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE			nts							
1	5	2001	420	161	214		FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE			its							
1	6	2002	416	163	216		FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE				A?	B?	C?	A and E			
1	7	2003	412	169	218		FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE				TRUE	TRUE	TRUE	TRUE			
1	8	2004	411	169	221		FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE		-	_							
1	9	2005	409	177	227		FALSE	TRUE	TRUE	FALSE	TRUE	FALSE	FALSE				TRUE	TRUE	TRUE	TRUE			
2	0	2006	405	180	229		FALSE	TRUE	TRUE	FALSE	TRUE	FALSE	FALSE										
	11														I								

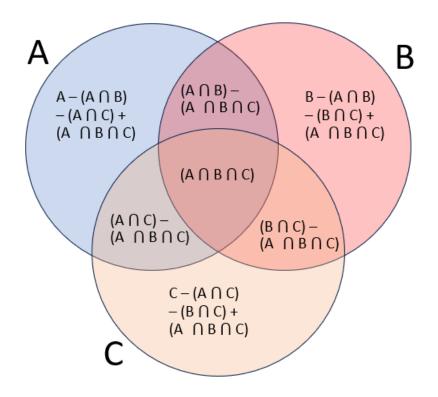
7. Use the countif formula to summarize your events.

	Α	В	С	D	E	F	G	Н	1	J	K	L
1	Algonqui	n Park W	/ildlife	Count	s							
2	min	405	125	214								
3	q1	411.25	144	218								
4	median	421	158	226		A Event	B Event	C Event				
5	q3	429	169	233		Moose over	Deer under	Loon over				
6	max	435	180	243	_	421	169	218				
7	mean	420.33	157	226	counts	6	8	8	6	5	5	5
8	Year	Moose	Deer	Loon		Α?	В?	C?	A and B	B and C	A and C	A and B and C
9	1995	435	125	234		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
10	1996	432	135	236		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
11	1997	430	142	243		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
12	1998	426	150	231		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
13	1999	426	152	224		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
14	2000	422	155	218		TRUE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE
15	2001	420	161	214		FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
16	2002	416	163	216		FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
17	2003	412	169	218		FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
18	2004	411	169	221		FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
19	2005	409	177	227		FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
20	2006	405	180	229		FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
24												

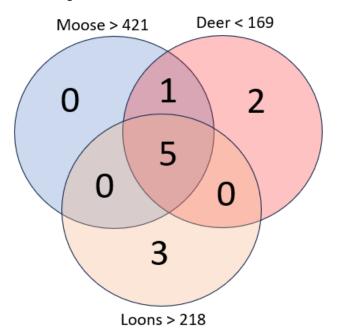
The formula in F6: =COUNTIF(F9:F20,TRUE)

Fill Right.

8. Use the numbers to build a 3 Bubble Venn Diagram on your PowerPoint.



My example would result in a Venn Diagram like this:



The completed Spreadsheet:

	Α	В	С	D	E	F	G	Н	I.	J	K	L
1	Algonqui	n Park W	/ildlife	Count	s							
2	min	405	125	214								
3	q1	411.25	144	218								
4	median	421	158	226		A Event	B Event	C Event				
5	q3	429	169	233		Moose over	Deer under	Loon over				
6	max	435	180	243		421	169	218				
7	mean	420.33	157	226	counts	6	8	8	6	5	5	5
8	Year	Moose	Deer	Loon		Α?	В?	C?	A and B	B and C	A and C	A and B and C
9	1995	435	125	234		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
10	1996	432	135	236		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
11	1997	430	142	243		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
12	1998	426	150	231		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
13	1999	426	152	224		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
14	2000	422	155	218		TRUE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE
15	2001	420	161	214		FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
16	2002	416	163	216		FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
17	2003	412	169	218		FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
18	2004	411	169	221		FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
19	2005	409	177	227		FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
20	2006	405	180	229		FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE