

Maria Barrera -- 20201219 – The VBA of Wall Street

Screen shots:

Source Data: Multiple_year_stock_data

2014

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume				Ticker	Value	
2	A	20140101	57.19	57.19	57.19	57.19	0		A	-16.26	-28.41%	572978100				Greatest % Increase	DM	5581.16%
3	A	20140102	57.1	57.1	56.15	56.21	1916100		AA	15.48	48.54%	5161412000				Greatest % Decrease	CBO	-95.73%
4	A	20140103	56.39	57.35	56.26	56.92	1866600		AA-B	1.34	2.73%	21618200				Greatest Total Volume	BAC	21595474700
5	A	20140106	57.4	57.7	56.56	56.64	1777400		AAC	10.92	54.60%	9789700						
6	A	20140107	56.95	57.63	56.93	57.45	1463200		AAN	1.17	3.98%	237929300						
7	A	20140108	57.33	58.54	57.17	58.39	2659400		AAP	48.6	43.91%	200376400						
8	A	20140109	58.4	58.68	57.87	58.41	1757600		AAT	8.38	26.66%	40207800						
9	A	20140110	58.51	59.01	58.14	58.93	1623300		AAV	0.45	10.37%	86658700						
10	A	20140113	58.77	59.1	58.6	58.93	2946700		AB	4.43	21.04%	83051600						
11	A	20140114	59.16	59.95	59.02	59.88	2562200		ABB	-20.37	-20.37%	466820000						
12	A	20140115	59.82	60.37	59.59	60.34	2335100		ABV	-12.63	23.92%	2303237600						

2015

1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume				Ticker	Value	
2	A	20150101	40.94	40.94	40.94	40.94	0		A	0.87	2.13%	645319200				Greatest % Increase	ARR	491.30%
3	A	20150102	41.18	41.31	40.37	40.56	1530700		AA	-17.76	-37.49%	6449104200				Greatest % Decrease	KMLW	-98.59%
4	A	20150105	40.32	40.46	39.7	39.8	2042200		AA-B	-17.14	-33.97%	40441700				Greatest Total Volume	BAC	21277761900
5	A	20150106	39.81	40.02	39.02	39.18	2084500		AAC	-11.86	-38.36%	78122300						
6	A	20150107	39.52	39.81	39.29	39.7	3359600		AAN	-8.18	-26.76%	179606700						
7	A	20150108	40.24	40.98	40.18	40.89	2116300		AAP	-8.77	-5.51%	266930500						
8	A	20150109	41	41	40.29	40.59	1644900		AAT	-1.66	-3.67%	48158100						
9	A	20150112	40.61	40.72	39.95	40.11	2771100		AAV	-0.23	6.05%	30229400						
10	A	20150113	40.47	40.7	39.33	39.55	2013400		AB	-1.98	-7.67%	71403800						
11	A	20150114	39.03	39.1	38.21	39.06	5134000		ABB	-3.44	-16.17%	532805500						
12	A	20150115	39.33	39.41	37.99	38.01	2630200		ABBV	-6.4	-9.47%	2643021600						

2016

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume				Ticker	Value	
2	A	20160101	41.81	41.81	41.81	41.81	0		A	3.35	8.97%	528576200				Greatest % Increase	SD	11675%
3	A	20160104	41.06	41.19	40.34	40.69	3287300		AA	-1.53	-5.17%	5208239000				Greatest % Decrease	DYN.W	-91.49%
4	A	20160105	40.73	40.95	40.34	40.55	2587200		AAC	-11.88	-62.01%	57179800				Greatest Total Volume	BAC	27428529600
5	A	20160106	40.24	40.99	40.05	40.73	2103600		AAN	9.6	42.88%	184809000						
6	A	20160107	40.14	40.15	38.81	39	3504300		AAP	18.61	12.36%	262665300						
7	A	20160108	39.22	39.71	38.47	38.59	3736700		AAT	4.73	12.33%	49026400						
8	A	20160111	38.71	38.9	37.41	37.94	2818600		AAV	1.62	32.87%	27358200						
9	A	20160112	38.43	38.58	37.65	38.19	1989300		AB	-0.4	-1.68%	64736300						
10	A	20160113	38.35	38.47	36.72	36.86	4206600		ABB	3.14	18.84%	503779400						
11	A	20160114	36.94	37.88	36.55	37.61	2893300		ABBV	3.38	5.71%	2034231800						
12	A	20160115	36.67	37.56	36.55	37.11	2994300		ABC	-25.58	-24.61%	647239900						

Source Data: **alphabetical_testing** spreadsheet

**** Testing with small data**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume					Value
2	A	20160101	41.81	41.81	41.81	41.81	0		A	3.75	8.97%	7981900			Greatest % Increase	A	8.97%
3	A	20160104	41.06	41.19	40.34	40.69	3287300		AA	1.43	-5.17%	10370700			Greatest % Decrease	AAC	-62.01%
4	A	20160105	40.73	40.95	40.34	40.55	2587200		AAC	-11.82	-62.01%	1307800			Greatest Total Volume	AA	10370700
5	A	20161229	45.68	46	45.57	45.64	891300										
6	A	20161230	45.76	45.82	45.38	45.56	1216100										
7	AA	20160101	29.61	29.61	29.61	29.61	0										
8	AA	20161226	29.71	29.71	29.71	29.71	0										
9	AA	20161227	29.58	30.04	29.4	29.65	1708900										
10	AA	20161228	29.78	30.17	29.35	29.43	2751000		TESTING ONLY -- Expected Results for comparison								
11	AA	20161229	29.43	29.44	28.6	28.89	3224900		Ticker	Yearly Change	Percent Change	Total Stock Volume			Start Price	End Price	Diff
12	AA	20161230	28.97	29.38	28.01	28.08	2685900		A	3.75	8.969146137	7981900			41.81	45.56	3.75
13	AAC	20160101	19.06	19.06	19.06	19.06	0		AA	1.43	-5.167173252	10370700			29.61	28.08	-1.53
14	AAC	20160104	18.88	18.95	18.07	18.52	119600		AAC	-11.82	-62.014669045	1307800			19.06	7.24	-11.82
15	AAC	20161222	7.51	7.61	7.23	7.34	242900										
16	AAC	20161223	7.39	7.44	7.26	7.3	100900										
17	AAC	20161226	7.3	7.3	7.3	7.3	0										
18	AAC	20161227	7.3	7.35	7.15	7.16	210900										
19	AAC	20161228	7.13	7.2	6.8	7	247900										
20	AAC	20161229	6.99	7.08	6.57	6.86	186600										
21	AAC	20161230	6.88	7.51	6.83	7.24	199000										

Sheet A:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume					Value
2	A	20160101	41.81	41.81	41.81	41.81	0		A	3.75	8.97%	528576200			Greatest % Increase	AKS	355.80%
3	A	20160104	41.06	41.19	40.34	40.69	3287300		AA	1.43	-5.17%	5208239000			Greatest % Decrease	ADPT	-85.99%
4	A	20160105	40.73	40.95	40.34	40.55	2587200		AAC	-11.82	-62.01%	57179800			Greatest Total Volume	AA	5208239000
5	A	20160106	40.24	40.99	40.05	40.73	2103600		AAN	9.6	42.88%	184809000					
6	A	20160107	40.14	40.15	38.81	39	3504300		AAP	18.61	12.36%	262665300					
7	A	20160108	39.22	39.71	38.47	38.59	3736700		AAT	4.73	12.33%	49026400					
8	A	20160111	38.71	38.9	37.41	37.94	2818600		AAV	1.67	32.87%	27358200					
9	A	20160112	38.43	38.58	37.65	38.19	1989300		AB	0.4	-1.68%	64736300					
10	A	20160113	38.35	38.47	36.72	36.86	4206600		ABB	3.34	18.84%	503779400					
11	A	20160114	36.94	37.88	36.55	37.61	2893300		ABBV	1.35	5.71%	2034231800					
12	A	20160115	36.67	37.56	36.55	37.11	2994300		ABC	-25.84	-24.61%	647239900					

Sheet B:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume					Value
2	B	20160101	35.39	35.39	35.39	35.39	0		B	12.08	33.99%	56633600			Greatest % Increase	BAS	1219.03%
3	B	20160104	34.67	35.12	34.06	34.31	277300		BA	11.09	7.67%	1111660700			Greatest % Decrease	BCEI	80.65%
4	B	20160105	34.33	34.39	33.87	34.12	204300		BABA	6.54	8.05%	3742094000			Greatest Total Volume	BAC	27428529600
5	B	20160106	33.59	33.92	33.5	33.86	229000		BAC	5.22	31.31%	27428529600					
6	B	20160107	33.16	33.34	32.57	32.64	234400		BAC-A	-0.24	-0.92%	43727700					
7	B	20160108	32.85	32.85	32.19	32.26	229400		BAC-C	-0.06	-0.24%	43552600					
8	B	20160111	32.48	32.65	31.71	32.56	152900		BAC-D	-0.74	-2.86%	12479800					
9	B	20160112	33.53	33.93	32.34	32.98	303200		BAC-E	-0.56	-2.50%	15098400					
10	B	20160113	33.15	33.32	31.53	31.65	228100		BAC-I	-1.44	-5.38%	5943700					
11	B	20160114	31.86	32.47	31.22	32.1	196400		BAC-L	-73.53	6.73%	2481300					
12	B	20160115	31.06	31.6	30.85	31.49	312900		BAC-W	-1.03	-3.85%	23599700					

Sheet C:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume					Value
2	C	20160101	51.75	51.75	51.75	51.75	0		C	7.86	14.84%	5606480500			Greatest % Increase	CBO	1800%
3	C	20160104	50.75	51.19	50.19	51.13	23440100		C-C	-1.14	-4.39%	14039900			Greatest % Decrease	CGG	-84.22%
4	C	20160105	51.54	51.61	50.41	50.86	17444900		C-J	-0.03	-0.11%	27549800			Greatest Total Volume	CHK	11706198500
5	C	20160106	50.1	50.58	49.76	50.12	22501800		C-K	-0.51	-1.83%	37907700					
6	C	20160107	49.07	49.38	47.5	47.56	37902900		C-L	-1.29	-4.70%	11071400					
7	C	20160108	48.73	48.74	46.03	46.13	30642900		C-N	-0.17	-0.65%	48171600					
8	C	20160111	46.56	46.99	45.93	46.85	26284500		C-P	-0.78	-2.76%	2123700					
9	C	20160112	47.49	47.5	46.27	46.88	26309900		C-S	0.65	2.64%	50086600					
10	C	20160113	47.32	47.35	44.97	45.19	27925800		CA	-0.03	-16.67%	158592500					
11	C	20160114	45.42	45.81	44.56	45.38	30129500		CAA	3.99	-10.31%	373575200					
12	C	20160115	42.51	43.69	41.85	42.47	52452500		CAB	11.82	25.29%	237011500					

Sheet D:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume					Value
2	D	20160101	67.64	67.64	67.64	67.64	0		D	8.93	13.23%	721121300			Greatest % Increase	DRD	230.62%
3	D	20160104	66.97	67.51	66.33	67.47	3896700		DAC	-3.44	-55.76%	17895900			Greatest % Decrease	DYN.W	-91.49%
4	D	20160105	67.29	68.12	66.25	68.05	2476000		DAL	-1.5	-2.96%	2611801700			Greatest Total Volume	DNR	3189586900
5	D	20160106	67.57	68.87	67.33	68.47	2670700		DAN	5.18	37.54%	481995200					
6	D	20160107	67.67	68.71	67.6	68.51	4011800		DAR	2.39	22.72%	409384800					
7	D	20160108	68.48	69.9	68.38	69.52	5391400		DATA	-52.07	-55.26%	411703100					
8	D	20160111	69.59	69.93	69.31	69.41	3989700		DB	4.05	-25.05%	1560765100					
9	D	20160112	69.64	69.88	68.51	68.9	4318300		DBD	-4.94	-16.42%	214045800					
10	D	20160113	69.04	69.49	68.86	69.02	3646400		DBL	-2.23	-8.73%	22900200					
11	D	20160114	68.97	69.97	68.85	69.67	3265900		DCA	0.68	17.32%	30151100					
12	D	20160115	69	69.44	68.18	68.88	3964100		DCI	13.42	46.82%	209073500					

Sheet E

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume				Ticker	Value
2	E	20160101	29.8	29.8	29.8	29.8	0		E	2.44	8.19%	117078300			Greatest % Increase	EBR	404.41%
3	E	20160104	29.39	29.56	28.89	29.42	431800		EAB	-3.23	-12.92%	6576200			Greatest % Decrease	EMG	-67.21%
4	E	20160105	29.22	29.28	28.85	29.19	250200		EAE	-3.65	-14.80%	2815000			Greatest Total Volume	ECA	4105117800
5	E	20160106	28.28	28.47	28.18	28.47	199900		EAI	-3.68	-14.81%	15266500					
6	E	20160107	27.71	28.59	27.7	28.2	395600		EARN	0.66	5.34%	9501100					
7	E	20160108	28.07	28.13	27.55	27.55	331500		EAT	1.58	3.30%	332615500					
8	E	20160111	28.14	28.16	27.41	27.65	329400		EBF	-1.3	-9.87%	40526700					
9	E	20160112	28	28.09	27.39	27.73	662500		EBR	5.3	404.41%	64003200					
10	E	20160113	27.98	28.25	27.45	27.47	421100		EBR.B	3.5	205.43%	16496200					
11	E	20160114	28.09	28.85	27.97	28.81	260800		EB5	-2.14	-17.92%	139423100					
12	E	20160115	27.72	27.93	27.31	27.52	242100		EC	-2.84	-29.10%	293810700					

Sheet F

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume				Ticker	Value
2	F	20160101	14.09	14.09	14.09	14.09	0		F	-1.99	-13.91%	9032398200			Greatest % Increase	FMSA	401.70%
3	F	20160104	13.87	14	13.75	13.97	38618500		FAC	-1.14	-56.30%	7133900			Greatest % Decrease	FIT	-75.26%
4	F	20160105	13.97	14	13.51	13.72	50267500		FAF	0.73	2.03%	191366100			Greatest Total Volume	FCX	10511104500
5	F	20160106	13.56	13.56	13.05	13.11	61285400		FAM	1.03	10.17%	9892100					
6	F	20160107	12.9	13.04	12.6	12.7	57846600		FBC	-3.83	-16.57%	45608200					
7	F	20160108	13.05	13.1	12.5	12.54	46199400		FBHS	-2.04	-3.68%	378644600					
8	F	20160111	12.8	12.82	12.55	12.77	41269100		FBK	4.8	22.70%	10334400					
9	F	20160112	13.03	13.04	12.58	12.85	50983600		FBP	-1.36	103.38%	236500500					
10	F	20160113	12.73	12.84	12.06	12.2	102174600		FBR	-3.88	-24.27%	414224100					
11	F	20160114	12.19	12.31	11.82	12.19	62938600		FC	-3.45	20.37%	11467300					
12	F	20160115	11.81	12	11.58	11.97	69029900		FCAU	-4.83	-34.81%	1831803100					

Sheet P

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume				Ticker	Value
2	P	20140101	26.6	26.6	26.6	26.6	0		P	-5.75	-32.97%	2087336500			Greatest % Increase	PANW	113.28%
3	P	20140102	26.46	27.23	26.26	26.76	6227100		PAA	-0.45	-0.87%	265764400			Greatest % Decrease	PWE	-75.12%
4	P	20140103	26.9	27.69	26.77	27.59	6102100		PAC	-9.58	18.75%	15869800			Greatest Total Volume	PBR	7733747800
5	P	20140106	29.1	32.45	29	31.49	29006500		PACD	-68.2	-59.51%	143918500					
6	P	20140107	31.22	33.7	31.2	32.44	20493000		PAG	-1.51	4.05%	88908800					
7	P	20140108	32.66	34.46	32.6	32.7	18484900		PAGP	-3.77	-4.07%	259521900					
8	P	20140109	32.88	33.47	31.94	32.78	10140000		PAH	8.22	54.80%	173849700					
9	P	20140110	32.84	33.53	32.15	33.47	8242700		PAI	0.27	2.05%	5172200					
10	P	20140113	33.36	34.07	32.06	32.53	9779100		PAM	4.78	91.22%	56387900					
11	P	20140114	33.25	34.41	32.95	34.13	8840400		PANW	65.1	113.28%	452349800					
12	P	20140115	34.39	35.48	34.34	35.05	9958100		PAR	0.7	12.84%	5169600					