

Appendix 3b: Percent Change in Number of Basic Shares Outstanding for S&P 500 Companies, Q1-2011 to Q4-2018 (sorted A-Z)

MMM	3M	-18.4	APTV	Aptiv PLC	-61.8	CF	CF Industries Holdings	-35.8	DLTR	Dollar Tree	-2.9	FBHS	Fortune Brands Home	-8.8
AOS	A. O. Smith	-8.0	ADM	Archer Daniels Midland	-11.9	SCHW	Charles Schwab	11.8	D	Dominion Energy	13.8	BEN	Franklin Resources	-23.3
ABT	Abbott Laboratories	13.5	ARNC	Arconic	37.7	CHTR	Charter Communications	121.7	DOV	Dover	-21.8	FCX	Freeport-McMoRan	53.2
ABBV	AbbVie	-6.3	AJG	Arthur J Gallagher	68.0	CVX	Chevron	-5.0	DTE	DTE Energy	7.1	GPS	Gap	-35.0
ABMD	Abiomed	21.0	AIZ	Assurant	-37.8	CMG	Chipotle Mexican Grill	-10.7	DUK	Duke Energy	59.7	GRMN	Garmin Ltd	-2.6
ACN	Accenture PLC	-1.1	T	AT&T	23.3	CB	Chubb	36.6	DRE	Duke Realty	42.1	IT	Gartner	-6.3
ATVI	Activision Blizzard	-34.8	ADSK	Autodesk	-3.8	CHD	Church & Dwight	-13.7	DXC	DXC Technology	78.1	GD	General Dynamics	-21.3
ADBE	Adobe	-3.2	ADP	Auto. Data Processing	-12.2	CI	Cigna	-4.1	ETFC	E*TRADE Financial	9.6	GE	General Electric	-18.0
AAP	Advance Auto Parts	-8.7	AZO	Autozone	-40.9	XEC	Cimarex Energy	9.7	EMN	Eastman Chemical	-1.2	GIS	General Mills	-6.2
AMD	Advanced Micro Devices	38.9	AVB	AvalonBay Communities	60.0	CINF	Cincinnati Financial	0.0	ETN	Eatonoratorn PLC	26.4	GM	General Motors	-6.0
AES	AES	-15.5	AVY	Avery Dennison	-18.3	CTAS	Cintas	-26.7	EBAY	eBay	-27.2	GPC	Genuine Parts	-7.1
AMG	Affiliated Managers Group	1.9	BHGE	Baker Hughes A GE Co	5.7	CSCO	Cisco Systems	-18.8	ECL	Ecolab	24.1	GILD	Gilead Sciences	-19.2
AFL	Aflac	-18.8	BLL	Ball	-0.2	C	Citigroup	-17.3	EIX	Edison Int'l	0.0	GPN	Global Payments	-0.6
A	Agilent Technologies	-8.4	BAC	Bank of America	-2.2	CTXS	Citrix Systems	-28.6	EW	Edwards Lifesciences	-9.4	GS	Goldman Sachs	-29.8
APD	Air Products and Chemicals	2.9	BK	Bank of New York Mellon	-20.2	CLX	Clorox Co	-6.1	EA	Electronic Arts	-9.3	GT	Goodyear Tire & Rub.	-4.1
AKAM	Akamai Technologies	-12.8	BAX	Baxter Int'l	-8.5	CME	CME Group	5.0	LLY	Eli Lilly	-9.1	HRB	H & R Block	-32.7
ALK	Alaska Air Group	-14.4	BBT	BB&T	10.0	CMS	CMS Energy	13.0	EMR	Emerson Electric	-17.0	HAL	Halliburton	-4.6
ALB	Albemarle	15.7	BDX	Becton Dickinson	21.8	KO	Coca-Cola	-7.0	ETR	Entergy	2.4	HBI	HanesBrands	-6.4
ARE	Alexandria R.E. Equities	93.0	BRKb	Berkshire Hathaway	-1.2	CTSH	Cognizant Tech. Solutions	-5.3	EOG	EOG Resources	13.1	HOG	Harley-Davidson	-30.7
ALXN	Alexion Pharmaceuticals	22.9	BBY	Best Buy	-30.4	CL	Colgate-Palmolive	-12.2	EFX	Equifax	-1.7	HRS	Harris	-5.8
ALGN	Align Technology	4.0	BIIB	Biogen	-17.3	CMCSA	Comcast	-18.1	EQIX	Equinix	68.1	HIG	Hartford Fin'l Services	-19.2
AGN	Allergan plc	171.0	BLK	BlackRock	-17.2	CMA	Comerica	-7.4	EQR	Equity Residential	25.8	HAS	Hasbro	-8.0
ADS	Alliance Data Systems	5.6	BA	Boeing	-23.2	CAG	Conagra Brands	-2.0	ESS	Essex Property Trust	109.8	HCA	HCA Healthcare	-22.6
LNT	Alliant Energy	6.6	BKNG	Booking Holdings	-6.5	CXO	Concho Resources	94.5	EL	Estee Lauder Cos	-8.1	HCP	HCP	27.0
ALL	Allstate	-35.6	BWA	BorgWarner	-6.3	COP	ConocoPhillips	-19.6	RE	Everest Re Group Ltd	-25.6	HP	Helmerich and Payne	2.5
GOOG	Alphabet	8.1	BXP	Boston Properties	8.7	ED	Consolidated Edison	7.7	EVRG	Evergy	130.0	HSIC	Henry Schein	-16.3
GOOGL	Alphabet	8.1	BSX	Boston Scientific	-9.3	STZ	Constellation Brands	-8.8	ES	Eversource Energy	79.1	HSY	Hershey	-7.5
MO	Altria Group	-10.0	BMJ	Bristol-Myers Squibb	-4.1	COO	Cooper Companies	6.0	EXC	Exelon	45.9	HES	Hess	-13.2
AMZN	Amazon.com	8.6	AVGO	Broadcom	63.7	CPRT	Copart	-17.3	EXPE	Expedia Group	8.4	HFC	HollyFrontier	61.7
AEE	Ameren	1.6	BR	Broadridge Fin'l Solutions	-6.4	GLW	Corning	-49.4	EXPD	Expeditors Int'l	-18.7	HOLX	Hologic	3.7
AAL	American Airlines Group	38.3	BFb	Brown-Forman	-12.2	COST	Costco Wholesale	0.6	EXR	Extra Space Storage	43.6	HD	Home Depot	-30.2
AEP	American Electric Power	2.5	CHRW	C.H. Robinson Worldwide	-16.6	CCI	Crown Castle Int'l	43.9	XOM	Exxon Mobil	-14.0	HON	Honeywell Int'l	-6.6
AXP	American Express	-28.9	COG	Cabot Oil & Gas	3.4	CSX	CSX	-25.1	FFIV	F5 Networks	-25.5	HRL	Hormel Foods	0.0
AIG	American Int'l Group	-43.1	CDNS	Cadence Design Systems	4.7	CMI	Cummins	-18.8	FB	Facebook	34.5	HST	Host Hotels & Resorts	9.3
AMT	American Tower	10.8	CPB	Campbell Soup	-6.2	CVS	CVS Health	-17.6	FAST	Fastenal	-3.0	HPQ	HP	-27.6
AWK	American Water Works	2.7	COF	Capital One Financial	3.5	DHI	D.R. Horton	17.5	FRT	Fed'l Realty Inv't Trust	20.1	HUM	Humana	-18.4
AMP	Ameriprise Financial	-43.8	CPRI	Capri Holdings Ltd	-21.8	DHR	Danaher	6.1	FDX	FedEx	-16.8	HBAN	Huntington Bancshrs	22.1
ABC	AmerisourceBergen	-22.7	CAH	Cardinal Health	-14.2	DRI	Darden Restaurants	-9.2	FIS	Fidelity Nat'l Info. Svcs	7.8	HII	Huntington Ingalls Ind.	-12.1
AME	Ametek	-4.2	KMX	Carmax	-22.7	DVA	DaVita	-13.8	FITB	Fifth Third Bancorp	-25.9	IDXX	IDEXX Laboratories	-24.8
AMGN	Amgen	-31.7	CCL	Carnival	-11.4	DE	Deere	-24.3	FRC	First Republic Bank	27.9	ITW	Illinois Tool Works	-33.8
APH	Amphenol	-14.5	CAT	Caterpillar	-9.6	DAL	Delta Air Lines	-18.9	FE	FirstEnergy	50.0	ILMN	illumina	16.2
APC	Anadarko Petroleum	-0.4	CBOE	Cboe Global Markets	23.4	XRAY	Dentsply Sirona	57.1	FISV	Fiserv	-32.0	INCY	Incyte	72.5
ADI	Analog Devices	22.9	CBRE	CBRE Group	7.3	DVN	Devon Energy	8.0	FLT	Fleetcor Technologies	9.6	IR	Ingersoll-Rand PLC	-26.2
ANSS	ANSYS	-8.8	CBS	CBS	-44.5	FANG	Diamondback Energy	249.4	FLIR	FLIR Systems	-14.2	INTC	Intel	-16.6
ANTM	Anthem	-30.9	CE	Celanese	-15.9	DLR	Digital Realty Trust	125.7	FLS	Flowserve	-21.6	ICE	Intercontinental Exch.	55.0
AON	Aon PLC	-28.6	CELG	Celgene	-25.0	DFS	Discover Financial Svcs	-39.1	FLR	Fluor	-20.3	IBM	Int'l Bus. Machines	-26.2
APA	Apache	-1.0	CNC	Centene	106.6	DISCA	Discovery	27.6	FMC	FMC	-6.7	IFF	Int'l Flavors & Frag's	38.5
AIV	Apartment Investment & Mgt	30.2	CNP	CenterPoint Energy	17.9	DISCK	Discovery	27.6	FL	Foot Locker	-27.1	IP	Int'l Paper	-6.5
AAPL	Apple	-26.7	CTL	CenturyLink	250.8	DISH	DISH Network	5.5	F	Ford Motor	5.2	IPG	Interpublic Group	-19.4
AMAT	Applied Materials	-27.5	CERN	Cerner	-1.9	DG	Dollar General	-23.5	FTNT	Fortinet	13.3	INTU	Intuit	-14.2

Appendix 3b: Percent Change in Number of Basic Shares Outstanding for S&P 500 Companies, Q1-2011 to Q4-2018 (sorted A-Z), Cont'd

ISRG	Intuitive Surgical	-2.3	MKC	McCormick & Company	-0.8	ORLY	O'Reilly Automotive	-43.2	RCL	Royal Caribbean Cruises	-3.5	UNP	Union Pacific	-25.5
IVZ	Invesco Ltd	-15.5	MCD	McDonald's	-26.2	PCAR	Paccar	-4.5	SPGI	S&P Global	-18.5	UAL	United Continental Holdings	-17.4
IPGP	IPG Photonics	12.6	MCK	McKesson	-23.9	PKG	Packaging of America	-7.0	CRM	Salesforce.Com	43.5	UPS	United Parcel Service	-12.7
IRM	Iron Mountain	32.1	MDT	Medtronic PLC	25.6	PH	Parker-Hannifin	-19.6	SBAC	SBA Communications	-0.8	URI	United Rentals	32.4
JBHT	J B Hunt Transport Services	-9.9	MRK	Merck	-15.2	PAYX	Paychex	-0.7	SLB	Schlumberger NV	1.8	UTX	United Technologies	-7.7
SJM	J M Smucker	-1.9	MET	MetLife	-7.4	PNR	Pentair PLC	76.2	STX	Seagate Technology PLC	-34.8	UNH	UnitedHealth Group	-11.3
JKHY	Jack Henry & Associates	-10.4	MTD	Mettler-Toledo International	-23.1	PBCT	People's United Financial	7.1	SEE	Sealed Air	-2.2	UHS	Universal Health Services	-5.3
JEC	Jacobs Engineering Group	11.1	MGM	MGM Resorts International	8.2	PEP	PepsiCo	-11.0	SRE	Sempra Energy	14.3	UNM	Unum Group	-30.6
JEF	Jefferies Financial	34.8	MCHP	Microchip Technology	25.3	PKI	PerkinElmer	-2.9	SHW	Sherwin-Williams	-11.8	VLO	Valero Energy	-25.8
SNJ	Johnson & Johnson	-2.2	MU	Micron Technology	14.7	PRGO	Perrigo Company PLC	47.8	SPG	Simon Property Group	5.5	VAR	Varian Medical Systems	-22.9
JCI	Johnson Controls	114.1	MSFT	Microsoft	-8.6	PFE	Pfizer	-27.5	SWKS	Skyworks Solutions	-3.7	VTR	Ventas	122.1
JPM	JPMorgan Chase	-16.2	MAA	Mid-America Apt Commun's	218.4	PCG	PG&E	31.3	SLG	SL Green Realty	5.3	VRSN	Verisign	-29.1
JNPR	Juniper Networks	-34.9	MHK	Mohawk Industries	7.5	PM	Philip Morris International	-13.3	SNA	Snap-On	-4.0	VRSK	Verisk Analytics	-2.8
KSU	Kansas City Southern	-3.0	TAP	Molson Coors Brewing	15.7	PSX	Phillips 66	-26.5	SO	Southern Co	21.7	VZ	Verizon Communications	46.2
K	Kellogg	-4.4	MDLZ	Mondelez International	-16.9	PNW	Pinnacle West Capital	3.1	LUV	Southwest Airlines	-25.4	VRTX	Vertex Pharmaceuticals	26.0
KEY	KeyCorp	15.5	MNST	Monster Beverage	3.1	PXD	Pioneer Natural Resources	47.6	SWK	Stanley Black & Decker	-11.7	VFC	VF	-8.7
KMB	Kimberly-Clark	-14.3	MCO	Moody's	-16.4	PNC	PNC Financial Svcs Group	-12.0	SBUX	Starbucks	-17.2	VIAB	Viacom	-32.2
KIM	Kimco Realty	3.2	MS	Morgan Stanley	15.0	PPG	PPG Industries	-25.7	STT	State Street	-23.6	V	Visa	-33.5
KMI	Kinder Morgan	218.1	MOS	Mosaic	-13.6	PPL	PPL	48.8	SYK	Stryker	-4.0	VNO	Vornado Realty Trust	3.5
KLAC	KLA-Tencor	-9.2	MSI	Motorola Solutions	-51.5	PFG	Principal Financial Group	-12.1	STI	SunTrust Banks	-10.1	VMC	Vulcan Materials	2.3
KSS	Kohls	-44.1	MSCI	MSCI	-32.9	PG	Procter & Gamble	-10.8	SIVB	SVB Financial Group	25.1	GWW	W W Grainger	-19.5
KR	Kroger	-34.4	MYL	Mylan NV	17.8	PGR	Progressive	-10.6	SYMC	Symantec	-16.5	WBA	Walgreens Boots Alliance	3.2
LB	L Brands	-13.9	NDAQ	Nasdaq	-6.6	PLD	Prologis	146.9	SNPS	Synopsys	0.6	WMT	Walmart	-17.2
LLL	L3 Technologies	-27.4	NOV	National Oilwell Varco	-10.0	PRU	Prudential Financial	-14.9	SYT	Sysco	-11.3	DIS	Walt Disney	-21.5
LH	Laboratory of America	-0.1	NKTR	Nektar Therapeutics	59.5	PEG	Public Service Ent. Group	-0.4	TROW	T. Rowe Price Group	-7.4	WM	Waste Management	-10.6
LRCX	Lam Research	25.3	NTAP	NetApp	-32.1	PSA	Public Storage	2.8	TTWO	Take-Two Interactive Softw.	38.4	WAT	Waters	-18.4
LEG	Leggett & Platt	-10.2	NFLX	Netflix	18.2	PHM	PulteGroup	-26.5	TPR	Tapestry	-1.7	WEC	WEC Energy	35.0
LEN	Lennar	76.9	NWL	Newell Brands	53.5	PVH	PVH	13.2	TGT	Target	-24.9	WCG	WellCare Health Plans	17.3
LNC	Lincoln National	-32.9	NFX	Newfield Exploration	50.4	QRVO	Qorvo	74.3	TEL	TE Connectivity Ltd	-22.8	WFC	Wells Fargo	-11.6
LIN	Linde PLC	50.7	NEM	Newmont Mining	8.1	QCOM	Qualcomm	-26.7	TXN	Texas Instruments	-18.4	WELL	Welltower	144.2
LKQ	LKQ	9.0	NEE	Nextera Energy	14.9	PWR	Quanta Services	-30.2	TXT	Textron	-13.1	WDC	Western Digital	25.0
LMT	Lockheed Martin	-18.7	NLSN	Nielsen Holdings PLC	7.2	DGX	Quest Diagnostics	-15.8	TMO	Thermo Fisher Scientific	3.4	WU	Western Union	-31.6
L	Loews	-24.2	NKE	Nike	-16.8	RL	Ralph Lauren	-16.3	TIF	Tiffany	-4.6	WRK	Westrock Co	229.2
LOW	Lowe's Companies	-39.7	NI	NiSource	32.3	RJF	Raymond James Fin'l	17.8	TJX	TJX	-20.9	WY	Weyerhaeuser	39.4
LYB	LyondellBasell Inds NV	-32.6	NBL	Noble Energy	36.4	RTN	Raytheon	-20.4	TMK	Torchmark	-36.4	WHR	Whirlpool	-16.3
MTB	M&T Bank	17.2	JWN	Nordstrom	-24.7	O	Realtyoma	150.1	TSS	Total System Services	-5.7	WMB	Williams Companies	103.4
MAC	Macerich	8.1	NSC	Norfolk Southern	-23.8	RHT	Red Hat	-8.7	TSCO	Tractor Supply	-16.0	WLTW	Willis Towers Watson	98.3
M	Macy's	-27.5	NTRS	Northern Trust	-9.0	REG	Regency Centers	103.8	TDG	TransDigm Group	5.5	WYNN	Wynn Resorts Ltd	-13.0
MRO	Marathon Oil	16.5	NOC	Northrop Grumman	-41.1	REGN	Regeneron Pharmaceuticals	21.3	TRV	Travelers Companies	-38.4	XEL	Xcel Energy	6.3
MPC	Marathon Petroleum	-3.7	NCLH	Norwegian Cruise Line	23.6	RF	Regions Financial	-17.7	TRIP	TripAdvisor	3.2	XRX	Xerox	-32.9
MAR	Marriott International	-6.8	NRG	NRG Energy	17.0	RSG	Republic Services	-15.2	TWTR	Twitter	60.2	XLNX	Xilinx	-4.0
MMC	Marsh & McLennan Cos	-7.0	NUE	Nucor	-2.2	RMD	Resmed	-6.7	TSN	Tyson Foods	-2.9	XYL	Xylem	-2.6
MLM	Martin Marietta Materials	37.5	NVDA	NVIDIA	2.2	RHI	Robert Half International	-16.8	USB	U.S. Bancorp	-15.9	YUM	Yum! Brands	-33.8
MAS	Masco	-14.3	OXY	Occidental Petroleum	-7.2	ROK	Rockwell Automation	-17.8	UDR	UDR	48.0	ZBH	Zimmer Biomet Hldgs	6.0
MA	Mastercard	-20.6	OMC	Omnicom Group	-20.7	ROL	Rollins	-1.4	ULTA	Ulta Beauty	-2.5	ZION	Zions Bancorp NA	4.1
MAT	Mattel	-1.0	OKE	ONEOK	92.4	ROP	Roper Technologies	8.2	UA	Under Armour	116.7	ZTS	Zoetis	-3.9
MXIM	Maxim Integrated Products	-6.8	ORCL	Oracle	-26.4	ROST	Ross Stores	-20.4	UAA	Under Armour	116.7	—	—	—

Note: Data not available over the period over the period for the following S&P 500 companies: Allegion PLC, Arista Networks, Brighthouse Financial, Citizens Financial Group, Coty, DowDuPont, Fortive, Hewlett Packard Enterprise, Hilton Worldwide Holdings, IHS Markit Ltd, IQVIA Holdings, Keysight Technologies, Kraft Heinz, Lamb Weston Holdings, News, PayPal Holdings, Synchrony Financial, TechnipFMC PLC, and Twenty-First Century Fox.

Source: Standard & Poor's.