

Selections & Timing Vanguard Fund Family

PO Box 3367 Bella Vista AR 72715

Striving to provide you with the most return and the least risk.

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UPDATE: We suggest the following changes, if any, noted under "ACTIVITY TO DO NEW ON".

	٧	/ANGUARD,	selected	& timed (3-mc	onth hold	and asse	least), style a	t allocated (stock	, bond, bala	ınced, cash)	
Past & Future			Action	Number	Action	Fund	Month End	At month end	Ending	Number	Current
Activity	Activity	Fund	Price	of Shares	Value	Style	Positions	Symbol	NAV	of Shares	Value
ACTIVITY PAST											
2-Aug	sell	VASVX	31.48	990.7530	31,189	EW	Intrntl Grth	VWIGX	31.41	1,147.6882	36,049
2-Aug	buy	VMRGX	29.01	1,068.5970	31,000	EL	Grow th	VMRGX	30.93	1,156.4878	35,770
						EW	Intrntl Expl	VINEX	21.48	1,597.2926	34,310
ACTIVITY TO DO	NEW ON										
1-Mar	sell	VINEX		all							
1-Mar	buy	VWUSX			31,000						
						Cash		Money Market	1.00	5,687.0000	5,687
buys are each a	bout 32% of	total portfolio	0						٦	Total Valuation=	111,816

	2015	2016	2017	12 m	9 m	6 m	3 m	1 m
Vanguard Portfolio	-1.11	-6.47	16.78	16.05	17.46	11.27	5.03	-3.26
World Growth Index	-3.01	10.65	23.60	19.35	14.52	10.58	3.08	-3.42
World Income Index	0.19	2.60	5.03	0.13	-1.75	-3.32	-2.54	-1.78
World Hybrid (60/40) Index	-1.97	7.97	17.78	13.49	9.64	6.46	1.51	-2.98

We track and rank 48 Vanguard funds monthly by C, the risk-adjusted relative strength metric. We buy and hold the three top funds.

After at least a three-month hold, we either stay with the buys or sell the laggards and buy the new leaders. This is a proactive rotational allocation strategy. The funds and ranks are shown on page 2.

The right side of the top table above shows the Vanguard Portfolio at month end. The left side

shows new trades upcoming for the month and past trades from previous months.

The lower table above shows the Vanguard Portfolio compared with the World Indexes.

If you have any questions, please email us. Thank you.

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Vanguard Fund Family by C

VANGUARD FUND FAMILY by C

ETF	Sell															Fmly
Altrntv	Eligible	Legend	Fund Name	Symbol	s	Α	12m	9m	6m	3m	1m	NAV	٧	cs	С	Rank
MGK	to buy	FST	Vanguard US Growth	VWUSX	ELC	Е	30.3	21.2	14.5	7.0	-1.8	38.85	2.5	42.6	16.8	* * * * *
VUG	11/1/2017	FST	Vanguard Morgan Growth	VMRGX	ELC	Е	27.0	19.3	13.6	6.3	-2.1	30.93	2.5	35.7	14.3	****
MGK	na	FSTC	Vanguard PRIMECAP	VPMCX		E	25.5	19.3	15.9	5.4	-2.5	134.24	2.5	35.1	14.1	****
NotAvI	8/31/2017	FST	Vanguard Intl Growth	VWIGX	EW	Е	38.0	21.1	11.6	5.6	-4.2	31.41	3.3	43.6	13.1	****
VBK		FST	Vanguard Explorer	VEXPX	ESC		19.7	16.8	13.4	3.7	-1.9	97.66	2.0	23.2	11.7	****
MGK	na	FSTC	Vanguard Cap Opprtn	VHCOX	ELC	E	24.2	17.5	13.5	4.3	-2.9	68.93	2.5	28.1	11.2	****
VWO	to sell	FST	Vanguard Intl Explorer	VINEX	EW	E	31.7	15.5	10.7	4.1	-4.0	21.48	2.9	29.4	10.0	****
VWO		FST	Vanguard Emrg Mrkt	VEIEX	EW	Е	25.0	19.1	8.8	6.9	-4.7	30.03	2.8	26.6	9.4	****
MGK		FST	Vanguard Index Grth	VIGRX		Е	22.5	14.9	11.3	4.5	-2.9	75.07	2.4	21.8	8.9	****
NotAvI		FST	Vanguard Pacific Index	VPACX	EW	Е	21.2	15.6	10.5	2.5	-3.6	14.00	2.3	17.7	7.8	****
VYM		FST	Vanguard Grw th & Incm	VQNPX	EGI	Е	16.7	14.4	10.9	2.8	-3.6	48.06	2.0	12.7	6.4	****
VT		FST	Vanguard Global Eqty	VHGEX	EW	Е	22.5	13.9	9.1	2.6	-4.4	31.71	2.4	15.2	6.2	****
VOO		FST	Vanguard 500 Index	VFINX		Е	16.9	14.1	10.8	2.9	-3.7	251.27	2.1	12.5	6.0	****
NotAvI		FST	Vanguard Intl Value	VTRIX	EW	Е	22.9	12.4	8.8	2.6	-4.3	40.15	2.5	13.8	5.6	****
VXUS		FST	Vanguard Intl Equity	VFSVX	EW	Е	22.5	13.7	7.6	2.9	-4.6	45.35	2.5	13.6	5.4	***
VBK		FST	Vanguard SmlCap Grwth	VISGX	ESC		16.0	13.6	10.3	0.8	-3.2	45.49	1.9	9.1	4.8	***
MGV		FST	Vanguard Windsor	VWNDX	ELC	Е	13.6	12.2	10.1	1.7	-3.7	23.60	2.1	5.4	2.6	***
MGV		FST	Vanguard Value Index	VIVAX	EV	Е	12.4	13.5	10.4	1.7	-4.4	41.50	2.0	5.1	2.5	***
NotAvI		FST	Vanguard Star	VGSTX	Н	Н	14.3	9.6	6.4	1.8	-2.7	26.99	1.6	0.9	0.6	***
VXF		FST	Vanguard Extended Mrkt Index	VEXMX	EMC		12.1	11.8	8.6	-0.1	-3.8	84.30	1.9	0.0	0.0	***
VIG		FST	Vanguard Div Grth	VDIGX	ELC	Е	13.2	9.8	7.9	1.8	-4.3	26.65	1.9	-0.1	0.0	***
MGV		FST	Vanguard Windsor II	VWNFX	ELC	Е	11.6	10.5	9.1	1.9	-5.0	37.79	2.0	-0.4	-0.1	***
VO		FST	Vanguard Strtg Eqty	VSEQX	EMC		9.9	11.2	9.8	1.0	-4.2	34.05	2.2	-0.6	-0.1	***
VYM		FST	Vanguard High Yld Dividend	VHDYX	EV	Е	11.5	11.5	8.7	0.6	-4.7	33.65	1.9	-1.0	-0.2	***
VO		FST	Vanguard MidCap Index	VIMSX	EMC		12.3	10.0	8.1	1.0	-4.1	42.27	1.9	-1.1	-0.2	***
VYM		FST	Vanguard Equity Income	VEIPX	EGI	Е	12.2	10.9	8.4	0.4	-4.6	36.82	1.9	-1.3	-0.2	***
VGSH		FST	Vanguard ST Trsry	VFISX	BS	В	-0.5	-0.8	-1.1	-0.6	-0.1	10.47	0.2	-31.6	-0.5	***
VGK		FST	Vanguard European Index	VEURX	EW	Е	21.3	6.7	4.2	0.5	-6.1	31.48	2.8	-1.9	-0.5	***
VGSH		FST	Vanguard ST Federal	VSGBX	BS	В	-0.3	-0.7	-1.1	-0.6	-0.1	10.53	0.2	-31.2	-0.6	***
BSV		FST	Vanguard ST InvstGrd	VFSTX	BS	В	0.7	-0.1	-0.9	-0.7	-0.3	10.52	0.2	-29.8	-0.7	***
VB		FST	Vanguard SmlCap Index	NAESX	ESC		10.2	10.8	8.2	-1.0	-4.1	69.81	1.9	-4.3	-0.8	***
NotAvI		FST	Vanguard Balanced	VBINX	Н	Н	9.7	7.7	5.3	0.8	-2.6	34.73	1.3	-7.7	-1.0	***
NotAvI		FSTC	Vanguard Convertible Securities	VCVSX	EGI	Е	7.2	5.7	3.7	0.6	-1.1	13.52	0.8	-12.4	-1.0	***
NotAvI		FSTC	Vanguard Wellington	VWELX	Н	Н	9.8	7.9	5.8	0.4	-3.6	41.69	1.5	-8.1	-1.2	***
VMBS		FST	Vanguard GNMA	VFIIX	BU	В	-0.3	-1.4	-1.9	-1.5	-0.6	10.23	0.4	-34.2	-1.3	* *
BND		FST	Vanguard TTL Bond Index	VBMFX	BI	В	0.3	-1.0	-2.3	-1.7	-1.0	10.48	0.5	-34.2	-1.7	* *
VTV		FST	Vanguard US Value	VUVLX	EV	E	7.4	10.7	7.5	-0.3	-5.0	18.86	2.1	-8.2	-1.7	* *
VOE		FST	Vanguard Slctd Value	VASVX	EV	Е	10.2	10.0	6.6	-1.4	-5.8	30.40	2.0	-8.9	-1.7	**
NotAvI		FST	Vanguard High Yld Corp	VWEHX	BH	В	3.5	1.4	-0.1	-0.6	-1.1	5.82	0.7	-25.4	-1.8	* *
VTIP		FST	Vanguard FI TIP	VIPSX	BS	В	-0.5	-0.9	-1.4	-1.0	-0.9	12.80		-33.2	-1.8	* *
VGIT		FST	Vanguard IT Trsry	VFITX	BI	В	-1.2	-2.6	-3.4	-2.0	-0.5	10.81		-38.1	-1.9	**
BIV		FST	Vanguard IT InvstGrd	VFICX	BI	В	0.7	-1.0	-2.4	-1.8	-0.9	9.50		-34.0	-1.9	**
NotAvI		FST	Vanguard Wellesley Incm	VWINX	H	Н	5.4	3.5	1.7	0.4	-2.7	26.37		-21.7	-2.1	**
VOE		FST	Vanguard Cap Value	VCVLX	EV	E	7.0	7.6	6.7	-0.6	-4.9	13.06		-12.8	-2.4	**
BLV		FST	Vanguard LT InvstGrd	VWESX	BI	В	3.7	1.0	-2.6	-3.2	-3.3	10.02		-32.9	-4.5	**
VGLT		FST	Vanguard LT Trsry	VUSTX	BL	В	-0.4	-3.0	-6.1	-4.5	-2.9	11.59	1.5	-45.4	-6.6	*
VNQ		FST	Vanguard REIT	VGSIX	ERE		-10.3		-10.4		-7.7	24.38		-76.3	-15.6	*
NotAvI		FST	Vanguard Prc Mtls	VGPMX	EG	Е	-6.2	-5.0	-13.1	-3.1	-8.7	9.65	4.2	-64.6	-27.3	*

This table shows the Vanguard funds we track and their ETF counterparts (column 1). The green highlight in column 2 (Sell Eligible) means these 35 funds were part of the back test. For the most part, those will also be the funds in the portfolio, even if there are higher ranked funds. The reason for this is to provide continuity. The results of the back test are shown on page 3. The Sell Eligible column 2 also shows the three funds in the portfolio and their eligible sell date. For Vanguard, we assume at least a three-month holding period to avoid redemption charges. Please see page 4 for more legend details.

Back Test Results



The chart and tables show the back tested results of buying the top three Vanguard Family funds as measured by C, holding for at least 90 days, and rotating out of the laggards into the leaders on an ongoing continuous basis. On the chart, C-lect 3 Vanguard is the blue line following a rotation strategy, VWELX (Vanguard Wellington), a balanced fund, is the red line following a buy and hold approach, and SPY (S&P 500), a domestic large cap ETF, is the green line following a buy and hold approach. The period is from 1/1/1993 through 9/30/2015. Account start values were \$100,000. No additions or subtractions were made thereafter.

While buying and selling based on C, the risk-adjusted relative performance metric, over the years and decades in the back test produced superior results, in any one year the C ranking may or may not outperform the markets. This may be due to increased market volatility in that year.

For the test, one fund's sell and buy rebalanced all funds held, though in real time, one sell buys one fund for about the same amount would be practiced.

The same funds were used for the whole back test.

Dividends are reinvested. Taxes are not considered.

Information does not take into account your personal situation.

Past performance does not guarantee future performance. There is no assurance that future periods will be equivalent or similar to past periods. In a back test, there is no guarantee that actual trades could actually be made at the actual prices. All investments have risk; you may lose principle when investing. There are no guarantees. Read the fund's prospectus.

TRAILING RETURNS	to year end 2014
1 year	11.2
3 years	14.0
5 years	9.4
10 years	12.2
15 years	13.6
20 years	16.0
Inception	14.7

PAST PERFORM	MANCE
2014	11.2
2013	36.0
2012	(2.2)
2011	3.1
2010	2.8
2009	20.4
2008	(0.1)
2007	18.3
2006	24.2
2005	14.2
2004	25.7
2003	21.5
2002	12.6
2001	4.9
2000	18.8
1999	55.1
1998	(0.2)
1997	25.8
1996	14.5
1995	28.2
1994	2.5
1993	10.9
1992	(1.0)
1991	22.4

Legend

ETF	Sell															Fmly
Altrntv	Eligible	Legend	Fund Name	Symbol	S	Α	12m	9m	6m	3т	1m	NAV	V	CS	С	Rank

This information below identifies the column headings shown above, which are also on page 2.

ETF Altrntv is the Vanguard ETF alternative to its mutual fund.

Sell Eligible is the earliest date from purchase that the fund may be sold. For Vanguard, it is three months. If there is a green highlight, it means the fund was part of the back test. If there is a date, it means the portfolio owns the fund and it is the earliest date the fund may be sold, assuming a minimum of a three-month hold.

Legend shows fund specific information. It is a short list of where the fund is available for purchase (F is Fidelity, S is Schwab, T is TDAmeritrade). C means the fund is closed. R means there is a short-term redemption fee.

Fund Name is the fund name.

Symbol is the fund ticker symbol. This is the official identification.

S is Style. The first letter is for the A, the next letter or two is the style. BS is bond short-term. BI is bond intermediate. BL is bond long. BH is bond high-yield. BW is bond world. BU is bond government. EG is equity gold. EGI is equity growth/income. ELC is large cap. EMC is mid cap. ESC is small cap. EV is value. EW is world. H is hybrid. **A** is Asset. B is bond. H is hybrid. E is equity.

12m, 9m, 6m, 3m, 1m is a fund's returns over those periods. Dividends are reinvested.

NAV is net asset value.

V is volatility, a measure of risk.

CS is comet strength, a measure of relative performance to an index. The index is 60% of the World Growth Index and 40% of the World Income Index.

C is comet, the risk-adjusted relative performance metric. The higher the C is the better.

Fmly Rank is family rank. This shows where the fund ranks by C within the fund family. This is either 5, 4, 3, 2, or 1 comets. 5 is the highest ranked by C.

World Growth Index (WGI) is made up of 20% EEM, EFA, IWM, QQQ, SPY.

World Income Index (WII) is made up of 20% PCY, BSV, TLH, LQD, JNK.

World Hybrid Index is made up of 60% WGI and 40% WII.

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Email SMcKee@SelectionsAndTiming.com or call 1-800-800-6563 with any questions or comments.

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