

TABLE 2

Bottom 50 ETF Performers for 2024

Data as of December 31, 2024

Category	ETF	Ticker	Total Return (%)					Annual Return (%)			Total Risk Index (X)	Yield (%)	Exp Ratio (%)	Port Turn-over (%)	Share Class Assets (\$ Mil)
			2024	2023	2022	2021	2020	3-Yr	5-Yr	10-Yr					
Derivative Inc	YieldMax MRNA Option Inc Strat ETF	MRNY	(59.3)	—	—	—	—	—	—	—	—	179.1	0.99	—	62
Misc Sector	Amplify U.S. Alternative Harvest ETF	MJUS	(46.2)	(17.9)	(66.9)	—	—	(47.3)	—	—	3.55	8.9	0.75	159	68
Misc Sector	AdvisorShares Pure US Cannabis ETF	MSOS	(45.4)	(1.8)	(72.3)	(29.5)	—	(47.0)	—	—	4.14	0.0	0.83	4	496
Misc Sector	Invesco Solar ETF	TAN	(37.1)	(26.8)	(5.2)	(24.7)	233.3	(24.2)	1.8	0.7	2.54	0.5	0.71	43	801
Latin Amer Stock	iShares MSCI Brazil Small-Cap ETF	EWZS	(35.3)	31.2	(8.7)	(15.8)	(20.0)	(8.1)	(12.2)	(0.8)	2.10	4.9	0.60	103	116
Eq Prec Metals	VanEck Rare Earth & Strat Mtls ETF	REMX	(35.2)	(19.0)	(30.7)	80.5	63.3	(28.6)	1.4	(3.3)	2.38	2.6	0.56	41	220
Small Growth	Invesco WilderHill Clean Energy ETF	PBW	(30.6)	(20.1)	(44.4)	(29.8)	205.6	(32.5)	(7.9)	(0.7)	2.76	2.8	0.65	53	297
Latin Amer Stock	iShares MSCI Brazil ETF	EWZ	(29.9)	31.8	13.2	(17.6)	(19.8)	1.5	(7.1)	0.1	1.83	8.9	0.59	22	3,097
Misc Region	iShares MSCI Mexico ETF	EWX	(28.3)	40.4	1.1	20.9	(3.4)	0.6	3.5	0.0	1.58	4.4	0.50	10	965
Misc Region	Franklin FTSE Mexico ETF	FLMX	(28.1)	39.8	1.9	20.4	(3.6)	0.8	3.5	—	1.56	3.3	0.19	10	78
Health	ARK Genomic Revolution ETF	ARKG	(28.1)	16.2	(53.9)	(33.9)	180.5	(27.3)	(6.5)	1.9	2.74	0.0	0.75	26	1,062
Latin Amer Stock	Franklin FTSE Brazil ETF	FLBR	(27.8)	33.2	11.3	(17.3)	(19.4)	2.3	(6.5)	—	1.82	7.7	0.19	42	142
Misc Trading	ProShares VIX Short-Term Futures	VIXY	(27.3)	(72.8)	(24.6)	(72.5)	11.9	(47.0)	(46.0)	(48.4)	3.04	0.0	0.95	—	134
Misc Sector	ALPS Clean Energy ETF	ACES	(26.7)	(20.3)	(28.1)	(19.3)	140.1	(25.1)	(4.1)	—	2.50	1.1	0.55	38	115
Misc Trading	iPath B S&P 500 VIX S/T Futs ETN	VXX	(26.3)	(72.5)	(23.7)	(72.4)	12.2	(46.3)	(45.6)	—	3.04	0.0	0.89	—	248
Gbl Sm/Mid Stk	Invesco Global Clean Energy ETF	PBD	(26.2)	(10.7)	(29.5)	(21.8)	144.1	(22.6)	(2.4)	1.8	2.08	1.8	0.75	—	81
Misc Sector	iShares Global Clean Energy ETF	ICLN	(25.8)	(20.3)	(5.3)	(23.8)	141.3	(17.6)	0.6	3.5	1.88	1.8	0.41	42	1,421
Misc Sector	Amplify Alternative Harvest ETF	MJ	(24.1)	(21.5)	(60.2)	(21.4)	(11.4)	(38.1)	(30.2)	—	2.93	13.8	0.78	45	155
Latin Amer Stock	iShares Latin America 40 ETF	ILF	(23.0)	32.8	10.3	(13.4)	(11.6)	4.1	(2.9)	0.4	1.62	7.4	0.48	7	1,062
Misc Region	iShares MSCI South Korea ETF	EWY	(20.8)	19.1	(26.7)	(7.6)	39.7	(11.6)	(2.2)	1.1	1.83	2.6	0.59	18	3,155
Cmdty Focused	abrdn Physical Palladium Shares ETF	PALL	(20.5)	(36.4)	(10.6)	(16.3)	22.2	(23.2)	(14.3)	0.7	2.06	0.0	0.60	—	354
Misc Region	Franklin FTSE South Korea ETF	FLKR	(19.5)	21.0	(28.3)	(6.6)	42.8	(11.3)	(1.4)	—	1.83	7.0	0.09	31	112
Natural Resources	Global X Lithium & Battery Tech ETF	LIT	(19.3)	(11.8)	(29.7)	37.4	126.5	(20.6)	9.3	7.6	1.94	0.9	0.75	20	1,088
Cmdty Focused	Teucrium Wheat ETF	WEAT	(19.3)	(25.1)	8.2	19.8	5.5	(13.2)	(3.7)	(9.2)	1.78	0.0	1.00	—	122
Misc Sector	First Trust NASDAQ ClnEdg GrnEngETF	QCLN	(18.8)	(10.0)	(30.4)	(3.1)	183.4	(20.2)	6.9	7.8	2.54	0.9	0.59	17	548
Natural Resources	VanEck Steel ETF	SLX	(17.9)	31.3	14.1	28.3	20.3	7.1	13.7	9.2	2.12	3.6	0.56	22	75
Natural Resources	Sprott Junior Uranium Miners ETF	URNJ	(17.7)	—	—	—	—	—	—	—	—	4.3	0.80	—	241
Industrials	KraneShares Eltc Vhl and Ft Mbyl ETF	KARS	(17.7)	(7.1)	(39.0)	30.7	70.2	(22.5)	0.7	—	2.05	0.8	0.72	42	68
Cmdty Focused	United States Natural Gas	UNG	(17.3)	(64.2)	14.8	34.7	(45.6)	(30.2)	(24.3)	(23.1)	4.74	0.0	1.01	—	744
Derivative Inc	YieldMax AMD Option Inc Strat ETF	AMDY	(16.7)	—	—	—	—	—	—	—	—	110.0	0.99	—	164
Natural Resources	iShares MSCI Gbl Mtls&Mng Prd ETF	PICK	(16.5)	10.1	3.3	22.3	27.0	(1.7)	8.1	6.1	1.88	3.3	0.39	11	775
Cmdty Focused	KraneShares Calif Carbon Allw ETF	KCCA	(16.5)	34.1	(16.7)	—	—	(2.3)	—	—	1.37	30.7	0.87	—	120
Natural Resources	First Trust Materials AlphaDEX ETF	FXZ	(16.2)	16.1	(0.8)	30.9	22.2	(1.2)	9.1	7.7	1.85	1.8	0.61	53	256
Health	Global X Genomics & Biotech ETF	GNOM	(16.2)	(8.6)	(36.1)	(16.0)	51.6	(21.2)	(9.0)	—	1.95	0.0	0.50	17	68
Industrials	iShares Self-Driving EV and Tech ETF	IDRV	(16.0)	8.3	(36.2)	27.3	58.5	(16.6)	3.2	—	2.11	2.7	0.47	38	170
Long Gov't	iShares 25+ Year Treas STRIPS Bd ETF	GOVZ	(15.7)	1.0	(41.3)	(5.0)	—	(20.7)	—	—	1.64	4.7	0.10	22	291
Long Gov't	PIMCO 25+ Year Zero Cpn US Trs ETF	ZROZ	(15.6)	0.8	(41.5)	(5.0)	24.6	(20.8)	(10.0)	(2.8)	1.64	4.6	0.15	22	1,513
Equity Energy	SPDR Kensho Clean Power ETF	CNRG	(14.6)	(11.4)	(8.1)	(15.5)	139.6	(11.4)	7.1	—	2.05	1.3	0.45	38	158
Derivative Inc	YieldMax AI Option Inc Strat ETF	AIYY	(14.4)	—	—	—	—	—	—	—	—	98.7	0.99	—	95
Natural Resources	Amplify Lithium & Battery Tech ETF	BATT	(14.1)	(6.8)	(31.8)	16.8	44.3	(18.3)	(1.7)	—	1.83	3.2	0.59	69	66
Cmdty Focused	KraneShares Global Carbon ETF	KRBN	(13.7)	6.6	(10.5)	108.8	—	(6.3)	—	—	1.45	7.1	0.85	0	199
Natural Resources	Sprott Uranium Miners ETF	URNM	(13.6)	56.9	(12.0)	81.3	67.1	6.0	29.3	—	2.47	3.2	0.75	10	1,455
Long Gov't	Vanguard Extended Duration Trs ETF	EDV	(13.3)	2.1	(39.4)	(6.5)	24.2	(18.7)	(9.0)	(2.3)	1.54	4.7	0.06	22	3,661
Gbl Lg Stock Grth	Invesco MSCI Sustainable Future ETF	ERTH	(13.2)	(0.2)	(27.1)	2.2	51.6	(14.2)	(0.4)	5.8	1.66	1.0	0.67	29	149
Cmdty Focused	Teucrium Corn ETF	CORN	(13.2)	(19.6)	24.6	38.9	4.8	(4.6)	4.8	(3.4)	1.16	0.0	1.00	0	65
Real Estate	Pacer Benchmark Indust RE SCTR ETF	INDS	(12.5)	17.1	(32.2)	54.3	12.6	(11.4)	3.8	—	1.62	3.7	0.55	19	152
Natural Resources	VanEck Agribusiness ETF	MOO	(12.2)	(8.5)	(7.9)	24.1	14.7	(9.6)	1.0	4.2	1.34	3.4	0.53	12	570
Global Real Est	SPDR Dow Jones Int'l RelEstETF	RWX	(12.0)	6.5	(21.9)	9.1	(9.0)	(9.9)	(6.2)	(1.1)	1.33	4.3	0.59	7	224
Misc Region	iShares MSCI Indonesia ETF	EIDO	(11.4)	2.1	(0.4)	0.9	(8.1)	(3.4)	(3.5)	(1.7)	0.99	5.1	0.59	16	272
Inflat-Prot Bond	Quadratic Intrst Rt Vol & Infl H ETF	IVOL	(10.9)	(5.4)	(12.8)	(0.1)	14.7	(9.7)	(3.4)	—	0.70	3.8	1.02	0	457