

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 1 of 18
OCTOBER 1, 2017 - DECEMBER 31, 2017



FOR QUESTIONS ABOUT YOUR STATEMENT AND ANY TRANSACTIONS, PLEASE CALL: **1-800-528-9009**

Call Us! Contact our Customer Service Center at the number listed above Monday through Friday 8:00 am - 8:00 pm ET.
Write Us! MassMutual Retirement Services; P.O. Box 1583; Hartford, CT 06144-1583. Be sure to include the plan's group number in your correspondence.

Connect with Us! Through our website at <http://www.massmutual.com/govnp>.

County Of Cattaraugus
Julie Carr
303 Court St
Little Valley NY 14755

GROUP NUMBER: 0030042
STATEMENTS GENERATED: 787

PERIOD SUMMARY
October 1, 2017 to December 31, 2017

HISTORICAL SUMMARY
Since Established May 23, 2001

BEGINNING BALANCE	\$34,456,047.62	
CONTRIBUTIONS	\$422,236.99	\$32,492,829.36
NET WITHDRAWALS	\$257,571.73(-)	\$15,010,476.49(-)
PLAN AND CONTRACT FEES*	\$.00	
CHANGE IN VALUE	\$1,051,157.94	
ENDING BALANCE 12/31/2017	\$35,671,870.82	

PLAN INVESTMENT DISTRIBUTION AS OF DECEMBER 31, 2017

35.7% GENERAL	10.4% HTFD CAP APP HLS	6.1% AMCENT EQUITY INCOME
5.4% HTFD MIDCAP HLS	3.9% AF GROWTH FUND AMER	3.0% INVESCO COMSTOCK
2.7% MFS INTL NEW DISC	2.4% HTFD TOTRET BOND HLS	2.1% PIMCO TOTAL RETURN
2.1% SS S&P 500 IND SL	2.1% MA INV GRWTH STCK	2.0% ARTISAN INTERNAT'L
1.7% MFS UTILITIES	1.7% HTFD SML COMPANY HLS	1.7% ARTISAN MID CAP
1.6% AMCENT STR-ALL: AGG	1.6% AMCENT STR-ALL: MOD	1.3% AMCENT SC VALUE

* Plan and Contract Fees may include items such as an annual maintenance fee, per participant charge, deferred sales charge and other charges authorized by your plan. Other charges may be deducted from your account and may or may not be reflected here, including charges assessed under the contract, its separate accounts or by the underlying funds. For a complete description of all charges that may apply, refer to the prospectus or disclosure materials, whichever is applicable, for your retirement program and its related contract. Additional plan expenses and other expenses other than those described above such as Third Party Administrator fees, are deducted and paid as directed by your Plan Administrator, if applicable. This statement reflects transactions received by the company prior to the period ending date. Additional transactions may be in transit and will be reflected in your next statement.

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 2 of 18

OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PLAN INVESTMENT DISTRIBUTION AS OF DECEMBER 31, 2017

1.2% INV EQ AND INC	1.1% BARON SMALL CAP	1.0% SS SC IND SEC LEND
1.0% AMCENT STR-ALL: CONS	0.9% LOOMIS SAYLES BD	0.9% AMERICAN CENTURY RE
0.8% INV AMERICAN FRAN	0.8% OAKMARK EQ & INC	0.8% HTFD HC HLS
0.6% JPM SMRTRETIRE 2025	0.6% HTFD GLOBAL GRW HLS	0.6% JPM SMRTRETIRE 2035
0.5% HOTCHKIS WILEY MCVAL	0.5% SS MC IND NL SER	0.4% JPM SMRTRETIRE 2045
0.3% PREM BARINGS HYLD	0.2% TEMPLETON FOREIGN	0.2% OPPEN GLOBAL
0.1% CALVERT EQTY	0.0% JPM SMRTRETIRE INC	

INVESTMENT ACTIVITY

	Beginning Balance October 1, 2017	Additions	Subtractions	Change In Value	Ending Balance December 31, 2017
General	\$12,499,540.40	\$321,332.13	\$180,241.30(-)	\$63,342.92	\$12,703,974.15
Htfd Cap App HLS	\$3,508,791.74	\$61,650.02	\$53,746.40(-)	\$175,211.66	\$3,691,907.02
AmCent Equity Income	\$2,149,700.74	\$35,917.92	\$107,034.22(-)	\$77,557.08	\$2,156,141.52
Htfd MidCap HLS	\$1,772,679.23	\$32,092.00	\$37,159.52(-)	\$131,595.91	\$1,899,207.62
AF Growth Fund Amer	\$1,303,658.00	\$52,685.60	\$60,698.88(-)	\$89,060.42	\$1,384,705.14
Invesco Comstock	\$1,002,290.27	\$6,485.83	\$3,474.33(-)	\$74,688.24	\$1,079,990.01
MFS Intl New Disc	\$890,505.33	\$27,114.91	\$17,447.99(-)	\$59,291.47	\$959,463.72
Htfd TotRet Bond HLS	\$731,316.22	\$135,412.04	\$9,342.39(-)	\$5,147.86	\$862,533.73
PIMCO Total Return	\$776,208.45	\$6,641.41	\$30,630.63(-)	\$144.44	\$752,363.67
SS S&P 500 Ind SL	\$679,558.68	\$58,083.48	\$31,608.40(-)	\$44,786.30	\$750,820.06
MA Inv Grwth Stck	\$688,149.92	\$8,574.48	\$3,314.57(-)	\$52,049.14	\$745,458.97
Artisan Internat'l	\$655,558.67	\$32,444.97	\$9,846.88(-)	\$26,494.72	\$704,651.48
MFS Utilities	\$643,759.98	\$9,015.51	\$37,273.58(-)	\$1,433.15	\$616,935.06
Htfd Sml Company HLS	\$574,364.85	\$22,139.97	\$20,152.40(-)	\$36,103.52	\$612,455.94
Artisan Mid Cap	\$601,863.57	\$8,539.01	\$30,656.16(-)	\$17,269.92	\$597,016.34
AmCent Str-All: Agg	\$551,865.00	\$17,692.78	\$14,421.05(-)	\$24,099.91	\$579,236.64
AmCent Str-All: Mod	\$534,803.65	\$11,812.08	\$1,069.55(-)	\$19,204.63	\$564,750.81
AmCent SC Value	\$487,025.59	\$7,608.31	\$28,392.52(-)	\$12,562.56	\$478,803.94
Inv Eq and Inc	\$392,097.06	\$45,067.36	\$7,528.74(-)	\$13,215.39	\$442,851.07
Baron Small Cap	\$407,024.33	\$5,853.82	\$32,393.39(-)	\$20,183.34	\$400,668.10
SS SC Ind Sec Lend	\$346,960.93	\$20,079.04	\$13,046.21(-)	\$11,742.99	\$365,736.75
AmCent Str-All: Cons	\$319,543.85	\$24,122.88	\$0.00	\$8,724.42	\$352,391.15
Loomis Sayles Bd	\$334,370.56	\$4,250.30	\$17,472.07(-)	\$271.75(-)	\$320,877.04
American Century RE	\$297,803.99	\$5,380.02	\$6,842.99(-)	\$7,521.93	\$303,862.95
Inv American Fran	\$311,526.34	\$5,600.84	\$28,742.61(-)	\$9,226.93	\$297,611.50
Oakmark Eq & Inc	\$268,789.62	\$4,291.11	\$0.00	\$11,241.12	\$284,321.85
Htfd HC HLS	\$285,783.44	\$4,331.80	\$14,891.10(-)	\$3,971.17(-)	\$271,252.97
JPM SmrtRetire 2025	\$0.00	\$229,585.00	\$0.00	\$2,045.98	\$231,630.98
Htfd Global Grw HLS	\$246,453.91	\$4,313.90	\$48,844.01(-)	\$14,028.36	\$215,952.16
JPM SmrtRetire 2035	\$0.00	\$211,483.24	\$0.00	\$2,609.44	\$214,092.68
Hotchkis Wiley MCVal	\$187,836.69	\$3,615.86	\$19,594.00(-)	\$7,263.96	\$179,122.51
SS MC Ind NL Ser	\$159,541.79	\$22,236.78	\$19,019.44(-)	\$10,517.99	\$173,277.12
JPM SmrtRetire 2045	\$0.00	\$154,851.39	\$0.00	\$2,088.58	\$156,939.97
Prem Barings HYld	\$74,470.60	\$32,127.89	\$82.88(-)	\$29.12(-)	\$106,486.49
Templeton Foreign	\$80,500.04	\$1,678.60	\$0.00	\$2,193.54	\$84,372.18
Oppen Global	\$67,433.70	\$3,377.25	\$0.00	\$4,833.73	\$75,644.68
Calvert Eqty	\$42,418.24	\$4,432.50	\$2,423.97(-)	\$2,942.03	\$47,368.80
JPM SmrtRetire Inc	\$0.00	\$6,947.04	\$0.00	\$47.01	\$6,994.05
SS DJ Tgt Today SL	\$3,614.65	\$278.98	\$3,924.14(-)	\$30.51	\$0.00

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 3 of 18

OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

INVESTMENT ACTIVITY

	Beginning Balance October 1, 2017	Additions	Subtractions	Change In Value	Ending Balance December 31, 2017
SS DJ Tgt 2035 SL	\$212,864.52	\$5,975.02	\$224,622.57(-)	\$5,783.03	\$.00
SS DJ Tgt 2025 SL	\$219,469.65	\$5,069.73	\$228,717.70(-)	\$4,178.32	\$.00
SS DJ Tgt 2045 SL	\$143,145.41	\$6,074.16	\$154,156.39(-)	\$4,936.82	\$.00
SS DJ Tgt 2015 SL	\$2,758.01	\$226.68	\$3,015.40(-)	\$30.71	\$.00
Account Total	\$34,456,047.62	\$1,666,493.64	\$1,501,828.38(-)	\$1,051,157.94	\$35,671,870.82

Investment Activity This section highlights the activity by investment option in the plan's account.

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 4 of 18
OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PLAN ACTIVITY

	General Employee	Htfd Cap App HLS Employee	AmCent Equity Income Employee	Htfd MidCap HLS Employee
Beginning Balance	\$11,873,134.95	\$3,293,923.92	\$2,043,953.99	\$1,636,477.63
Contributions	\$138,393.53	\$30,048.15	\$19,100.20	\$19,339.47
Net Transfers	\$142,379.34	\$416.47	\$73,012.13(-)	\$18,585.50(-)
Net Withdrawals	\$111,615.99(-)	\$19,523.97(-)	\$20,236.98(-)	\$6,000.71(-)
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$60,229.76	\$164,612.29	\$73,570.00	\$121,483.83
Ending Balance	\$12,102,521.59	\$3,469,476.86	\$2,043,375.08	\$1,752,714.72
Units in Fund		65,543.3271	48,407.8207	34,328.6946
Ending Unit Value		\$52.934097	\$42.211672	\$51.056842

	AF Growth Fund Amer Employee	Invesco Comstock Employee	MFS Intl New Disc Employee	Htfd TotRet Bond HLS Employee
Beginning Balance	\$1,247,880.06	\$988,222.13	\$845,272.92	\$710,188.82
Contributions	\$16,666.67	\$4,159.64	\$16,399.57	\$6,470.87
Net Transfers	\$11,595.80(-)	\$2,312.19	\$5,113.29(-)	\$128,916.67
Net Withdrawals	\$13,019.67(-)	\$3,474.33(-)	\$1,790.94(-)	\$9,310.30(-)
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$85,249.43	\$73,640.03	\$56,301.58	\$5,016.42
Ending Balance	\$1,325,180.69	\$1,064,859.66	\$911,069.84	\$841,282.48
Units in Fund	40,479.8594	35,666.0522	13,767.8802	68,175.8674
Ending Unit Value	\$32.736790	\$29.856392	\$66.173573	\$12.339886

	PIMCO Total Return Employee	MA Inv Grwth Stck Employee	SS S&P 500 Ind SL Employee	Artisan Internat'l Employee
Beginning Balance	\$766,620.99	\$683,321.65	\$654,362.37	\$621,391.39
Contributions	\$5,231.53	\$6,322.10	\$11,018.77	\$7,123.80
Net Transfers	\$17,239.58(-)	\$2,164.88	\$4,929.52	\$19,679.09
Net Withdrawals	\$12,405.60(-)	\$3,314.57(-)	\$12,077.56(-)	\$4,239.80(-)
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$139.19	\$51,682.19	\$42,998.32	\$25,145.66
Ending Balance	\$742,346.53	\$740,176.25	\$701,231.42	\$669,100.14
Units in Fund	33,633.5118	33,878.0081	22,994.8742	13,346.0119
Ending Unit Value	\$22.071634	\$21.848281	\$30.495120	\$50.134837

	Artisan Mid Cap Employee	Htfd Sml Company HLS Employee	AmCent Str-All: Mod Employee	AmCent Str-All: Agg Employee
Beginning Balance	\$581,077.77	\$537,280.08	\$523,848.87	\$503,703.41
Contributions	\$8,446.10	\$5,270.62	\$10,417.25	\$12,722.30
Net Transfers	\$30,518.70(-)	\$3,283.05(-)	\$243.58	\$1,135.48
Net Withdrawals	\$0.00	\$0.00	\$1,069.55(-)	\$5,937.70(-)
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$16,659.14	\$33,767.62	\$18,797.70	\$22,151.12
Ending Balance	\$575,664.31	\$573,035.27	\$552,237.85	\$533,774.61
Units in Fund	15,636.1254	95,286.1438	35,303.2085	27,861.2239
Ending Unit Value	\$36.816300	\$6.013836	\$15.642710	\$19.158332

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 5 of 18
OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PLAN ACTIVITY

	MFS Utilities Employee	AmCent SC Value Employee	Inv Eq and Inc Employee	Baron Small Cap Employee
Beginning Balance	\$520,933.86	\$475,220.51	\$391,277.64	\$383,213.46
Contributions	\$8,582.60	\$7,405.31	\$5,849.85	\$5,783.82
Net Transfers	\$36,783.35(-)	\$25,500.89(-)	\$39,016.26	\$28,648.09(-)
Net Withdrawals	\$0.00	\$2,891.63(-)	\$7,528.74(-)	\$3,406.09(-)
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$1,190.26	\$12,240.06	\$13,184.91	\$18,957.90
Ending Balance	\$493,923.37	\$466,473.36	\$441,799.92	\$375,901.00
Units in Fund	14,088.3464	12,872.2752	13,375.4449	11,602.3702
Ending Unit Value	\$35.059002	\$36.238612	\$33.030670	\$32.398638
	SS SC Ind Sec Lend Employee	AmCent Str-All: Cons Employee	Loomis Sayles Bd Employee	American Century RE Employee
Beginning Balance	\$336,413.57	\$319,205.27	\$321,702.85	\$296,521.28
Contributions	\$4,157.60	\$9,812.50	\$4,250.30	\$5,371.27
Net Transfers	\$3,092.93	\$14,310.38	\$17,029.94(-)	\$6,608.13(-)
Net Withdrawals	\$217.70(-)	\$0.00	\$442.13(-)	\$234.86(-)
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$11,393.44	\$8,715.59	\$261.51(-)	\$7,488.92
Ending Balance	\$354,839.84	\$352,043.74	\$308,219.57	\$302,538.48
Units in Fund	11,211.2050	30,764.1231	11,607.9941	7,532.8773
Ending Unit Value	\$31.650465	\$11.443321	\$26.552351	\$40.162403
	Inv American Fran Employee	Htfd HC HLS Employee	Oakmark Eq & Inc Employee	JPM SmrtRetire 2025 Employee
Beginning Balance	\$292,374.03	\$269,611.57	\$225,514.36	\$0.00
Contributions	\$5,341.15	\$4,130.55	\$1,363.60	\$1,095.00
Net Transfers	\$28,482.92(-)	\$13,242.39(-)	\$2,726.26	\$199,925.00
Net Withdrawals	\$0.00	\$1,648.71(-)	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$8,619.45	\$3,736.83(-)	\$9,444.82	\$1,789.90
Ending Balance	\$277,851.71	\$255,114.19	\$239,049.04	\$202,809.90
Units in Fund	12,401.4942	4,012.5678	9,325.1305	18,177.0177
Ending Unit Value	\$22.404698	\$63.578779	\$25.634925	\$11.157491
	Htfd Global Grw HLS Employee	Hotchkis Wiley MCVal Employee	SS MC Ind NL Ser Employee	JPM SmrtRetire 2035 Employee
Beginning Balance	\$230,280.19	\$180,711.50	\$157,042.86	\$0.00
Contributions	\$3,322.25	\$2,446.70	\$4,377.92	\$966.25
Net Transfers	\$47,866.36(-)	\$16,615.86(-)	\$1,248.08(-)	\$166,176.99
Net Withdrawals	\$0.00	\$1,808.98(-)	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$13,089.34	\$6,940.33	\$10,362.13	\$2,059.36
Ending Balance	\$198,825.42	\$171,673.69	\$170,534.83	\$169,202.60
Units in Fund	4,411.6093	2,248.6276	4,550.9309	14,796.7580
Ending Unit Value	\$45.068686	\$76.345995	\$37.472518	\$11.435113

009926 4/10



COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 6 of 18

OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PLAN ACTIVITY

	JPM SmrtRetire 2045 Employee	Prem Barings HYld Employee	Oppen Global Employee	Templeton Foreign Employee
Beginning Balance	\$.00	\$74,470.60	\$65,286.94	\$69,187.01
Contributions	\$695.00	\$666.40	\$1,349.25	\$1,643.60
Net Transfers	\$150,445.24	\$31,461.49	\$2,000.00	\$.00
Net Withdrawals	\$.00	\$82.88(-)	\$.00	\$.00
Plan & Contract Fees	\$.00	\$.00	\$.00	\$.00
Change in Value	\$2,038.25	\$29.12(-)	\$4,680.05	\$1,889.57
Ending Balance	\$153,178.49	\$106,486.49	\$73,316.24	\$72,720.18
Units in Fund	13,267.6148	9,021.8664	1,952.6518	2,684.1753
Ending Unit Value	\$11.545291	\$11.803155	\$37.547012	\$27.092189

	Calvert Eqty Employee	JPM SmrtRetire Inc Employee	SS DJ Tgt Today SL Employee	SS DJ Tgt 2035 SL Employee
Beginning Balance	\$33,672.45	\$.00	\$3,614.65	\$169,796.73
Contributions	\$2,432.50	\$7.50	\$45.00	\$5,752.50
Net Transfers	\$423.97(-)	\$6,939.54	\$3,690.16(-)	\$180,130.05(-)
Net Withdrawals	\$.00	\$.00	\$.00	\$.00
Plan & Contract Fees	\$.00	\$.00	\$.00	\$.00
Change in Value	\$2,332.36	\$47.01	\$30.51	\$4,580.82
Ending Balance	\$38,013.34	\$6,994.05	\$.00	\$.00
Units in Fund	1,257.3156	647.9292	0.0000	0.0000
Ending Unit Value	\$30.233715	\$10.794461	\$0.000000	\$0.000000

	SS DJ Tgt 2025 SL Employee	SS DJ Tgt 2045 SL Employee	SS DJ Tgt 2015 SL Employee	Total Employee
Beginning Balance	\$191,434.67	\$141,328.12	\$2,758.01	\$32,662,233.08
Contributions	\$4,770.00	\$4,067.50	\$.00	\$412,816.49
Net Transfers	\$199,625.27(-)	\$150,239.08(-)	\$2,788.72(-)	\$.00
Net Withdrawals	\$227.70(-)	\$.00	\$.00	\$242,507.09(-)
Plan & Contract Fees	\$.00	\$.00	\$.00	\$.00
Change in Value	\$3,648.30	\$4,843.46	\$30.71	\$997,014.27
Ending Balance	\$.00	\$.00	\$.00	\$33,829,556.75
Units in Fund	0.0000	0.0000	0.0000	
Ending Unit Value	\$0.000000	\$0.000000	\$0.000000	

	AmCent Str-All: Agg Roth Contrib	AmCent Str-All: Mod Roth Contrib	Htfd MidCap HLS Roth Contrib	MFS Intl New Disc Roth Contrib
Beginning Balance	\$7,255.70	\$1,172.62	\$548.11	\$486.69
Contributions	\$3,835.00	\$1,151.25	\$220.50	\$227.50
Net Transfers	\$.00	\$.00	\$.00	\$.00
Net Withdrawals	\$.00	\$.00	\$.00	\$.00
Plan & Contract Fees	\$.00	\$.00	\$.00	\$.00
Change in Value	\$385.82	\$58.65	\$47.02	\$40.43
Ending Balance	\$11,476.52	\$2,382.52	\$815.63	\$754.62
Units in Fund	599.0360	152.3093	15.9751	11.4035
Ending Unit Value	\$19.158332	\$15.642710	\$51.056842	\$66.173573

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 7 of 18

OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PLAN ACTIVITY

	AmCent SC Value Roth Contrib	Oakmark Eq & Inc Roth Contrib	Inv Eq and Inc Roth Contrib	Htfd HC HLS Roth Contrib
Beginning Balance	\$455.33	\$357.91	\$356.58	\$359.54
Contributions	\$203.00	\$201.25	\$201.25	\$201.25
Net Transfers	\$0.00	\$0.00	\$0.00	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$16.34	\$18.40	\$15.42	\$5.38(-)
Ending Balance	\$674.67	\$577.56	\$573.25	\$555.41
Units in Fund	18.6174	22.5301	17.3551	8.7357
Ending Unit Value	\$36.238612	\$25.634925	\$33.030670	\$63.578779

	Htfd Cap App HLS Roth Contrib	MFS Utilities Roth Contrib	General Roth Contrib	SS S&P 500 Ind SL Roth Contrib
Beginning Balance	\$377.44	\$373.23	\$242.60	\$268.29
Contributions	\$154.00	\$154.00	\$273.00	\$166.25
Net Transfers	\$0.00	\$0.00	\$0.00	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$21.98	\$1.10	\$1.89	\$22.08
Ending Balance	\$553.42	\$527.33	\$517.49	\$456.62
Units in Fund	10.4548	15.0411		14.9738
Ending Unit Value	\$52.934097	\$35.059002		\$30.495120

	AmCent Equity Income Roth Contrib	JPM SmrtRetire 2035 Roth Contrib	Baron Small Cap Roth Contrib	SS MC Ind NL Ser Roth Contrib
Beginning Balance	\$258.13	\$0.00	\$149.61	\$98.35
Contributions	\$157.50	\$10.00	\$70.00	\$87.50
Net Transfers	\$0.00	\$231.81	\$0.00	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$12.37	\$2.85	\$9.50	\$8.36
Ending Balance	\$428.00	\$244.66	\$229.11	\$194.21
Units in Fund	10.1394	21.3953	7.0715	5.1827
Ending Unit Value	\$42.211672	\$11.435113	\$32.398638	\$37.472518

	MA Inv Grwth Stck Roth Contrib	Artisan Internat'l Roth Contrib	Templeton Foreign Roth Contrib	Oppen Global Roth Contrib
Beginning Balance	\$92.28	\$86.69	\$83.07	\$84.12
Contributions	\$87.50	\$35.00	\$35.00	\$28.00
Net Transfers	\$0.00	\$0.00	\$0.00	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$9.65	\$3.97	\$2.97	\$6.75
Ending Balance	\$189.43	\$125.66	\$121.04	\$118.87
Units in Fund	8.6699	2.5065	4.4676	3.1660
Ending Unit Value	\$21.848281	\$50.134837	\$27.092189	\$37.547012

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 8 of 18
OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PLAN ACTIVITY

	Htfd Global Grw HLS Roth Contrib	Invesco Comstock Roth Contrib	Htfd TotRet Bond HLS Roth Contrib	American Century RE Roth Contrib
Beginning Balance	\$41.72	\$40.48	\$28.10	\$7.51
Contributions	\$14.00	\$14.00	\$24.50	\$8.75
Net Transfers	\$0.00	\$0.00	\$0.00	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$2.68	\$3.52	\$0.27	\$0.26
Ending Balance	\$58.40	\$58.00	\$52.87	\$16.52
Units in Fund	1.2958	1.9425	4.2847	0.4114
Ending Unit Value	\$45.068686	\$29.856392	\$12.339886	\$40.162403

	SS DJ Tgt 2035 SL Roth Contrib	Total Roth Contrib	General Rollover	Htfd MidCap HLS Rollover
Beginning Balance	\$166.58	\$13,390.68	\$193,732.85	\$28,445.49
Contributions	\$60.00	\$7,620.00	\$0.00	\$0.00
Net Transfers	\$231.81(-)	\$0.00	\$22,438.10(-)	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$56.20(-)	\$41.28(-)
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$5.23	\$691.13	\$944.34	\$2,109.77
Ending Balance	\$0.00	\$21,701.81	\$172,182.89	\$30,513.98
Units in Fund	0.0000			597.6470
Ending Unit Value	\$0.000000			\$51.056842

	SS S&P 500 Ind SL Rollover	AmCent Str-All: Agg Rollover	Inv American Fran Rollover	AmCent Equity Income Rollover
Beginning Balance	\$0.00	\$17,633.17	\$17,650.06	\$7,529.26
Contributions	\$0.00	\$0.00	\$0.00	\$0.00
Net Transfers	\$22,438.10	\$0.00	\$0.00	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$53.59(-)
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$130.71	\$768.78	\$559.83	\$277.53
Ending Balance	\$22,568.81	\$18,401.95	\$18,209.89	\$7,753.20
Units in Fund	740.0794	960.5195	812.7713	183.6743
Ending Unit Value	\$30.495120	\$19.158332	\$22.404698	\$42.211672

	AF Growth Fund Amer Rollover	Htfd Cap App HLS Rollover	Htfd TotRet Bond HLS Rollover	Invesco Comstock Rollover
Beginning Balance	\$5,173.97	\$4,278.22	\$2,679.11	\$2,465.48
Contributions	\$0.00	\$0.00	\$0.00	\$0.00
Net Transfers	\$0.00	\$0.00	\$0.00	\$0.00
Net Withdrawals	\$64.48(-)	\$0.00	\$32.09(-)	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$352.12	\$213.26	\$16.56	\$183.62
Ending Balance	\$5,461.61	\$4,491.48	\$2,663.58	\$2,649.10
Units in Fund	166.8339	84.8504	215.8512	88.7280
Ending Unit Value	\$32.736790	\$52.934097	\$12.339886	\$29.856392

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 9 of 18
OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PLAN ACTIVITY

	PIMCO Total Return Rollover	Baron Small Cap Rollover	Artisan Internat'l Rollover	SS MC Ind NL Ser Rollover
Beginning Balance	\$2,578.59	\$2,023.47	\$1,568.67	\$1,480.82
Contributions	\$.00	\$.00	\$.00	\$.00
Net Transfers	\$.00	\$.00	\$.00	\$.00
Net Withdrawals	\$30.74(-)	\$24.91(-)	\$.00	\$.00
Plan & Contract Fees	\$.00	\$.00	\$.00	\$.00
Change in Value	\$.55	\$104.40	\$61.92	\$90.99
Ending Balance	\$2,548.40	\$2,102.96	\$1,630.59	\$1,571.81
Units in Fund	115.4604	64.9089	32.5240	41.9457
Ending Unit Value	\$22.071634	\$32.398638	\$50.134837	\$37.472518

	MFS Intl New Disc Rollover	Htfd Sml Company HLS Rollover	AmCent SC Value Rollover	MFS Utilities Rollover
Beginning Balance	\$1,296.80	\$1,200.82	\$706.50	\$243.82
Contributions	\$.00	\$.00	\$.00	\$.00
Net Transfers	\$.00	\$.00	\$.00	\$.00
Net Withdrawals	\$.00	\$.00	\$.00	\$.00
Plan & Contract Fees	\$.00	\$.00	\$.00	\$.00
Change in Value	\$85.58	\$75.64	\$19.06	\$.48
Ending Balance	\$1,382.38	\$1,276.46	\$725.56	\$244.30
Units in Fund	20.8902	212.2531	20.0217	6.9683
Ending Unit Value	\$66.173573	\$6.013836	\$36.238612	\$35.059002

	Total Rollover	General Misc Rollover	Htfd Cap App HLS Misc Rollover	MFS Utilities Misc Rollover
Beginning Balance	\$290,687.10	\$432,430.00	\$210,212.16	\$122,209.07
Contributions	\$.00	\$.00	\$.00	\$.00
Net Transfers	\$.00	\$433.25	\$3,191.03(-)	\$211.32(-)
Net Withdrawals	\$303.29(-)	\$6,278.00(-)	\$.00	\$.00
Plan & Contract Fees	\$.00	\$.00	\$.00	\$.00
Change in Value	\$5,995.14	\$2,166.93	\$10,364.13	\$242.31
Ending Balance	\$296,378.95	\$428,752.18	\$217,385.26	\$122,240.06
Units in Fund			4,106.7154	3,486.6953
Ending Unit Value			\$52.934097	\$35.059002

	Htfd MidCap HLS Misc Rollover	AmCent Equity Income Misc Rollover	AF Growth Fund Amer Misc Rollover	MFS Intl New Disc Misc Rollover
Beginning Balance	\$107,208.00	\$97,959.36	\$50,603.97	\$43,448.92
Contributions	\$.00	\$.00	\$.00	\$.00
Net Transfers	\$.00	\$2,928.70	\$.00	\$55.92(-)
Net Withdrawals	\$.00	\$.00	\$.00	\$.00
Plan & Contract Fees	\$.00	\$.00	\$.00	\$.00
Change in Value	\$7,955.29	\$3,697.18	\$3,458.87	\$2,863.88
Ending Balance	\$115,163.29	\$104,585.24	\$54,062.84	\$46,256.88
Units in Fund	2,255.5898	2,477.6382	1,651.4398	699.0235
Ending Unit Value	\$51.056842	\$42.211672	\$32.736790	\$66.173573

019 026000



COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 10 of 18

OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PLAN ACTIVITY

	Oakmark Eq & Inc Misc Rollover	JPM SmrtRetire 2035 Misc Rollover	Htfd Sml Company HLS Misc Rollover	Artisan Internat'l Misc Rollover
Beginning Balance	\$42,917.35	\$0.00	\$35,883.95	\$32,511.92
Contributions	\$0.00	\$0.00	\$0.00	\$0.00
Net Transfers	\$0.00	\$44,098.19	\$0.00	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$1,777.90	\$547.23	\$2,260.26	\$1,283.17
Ending Balance	\$44,695.25	\$44,645.42	\$38,144.21	\$33,795.09
Units in Fund	1,743.5294	3,904.2391	6,342.7404	674.0839
Ending Unit Value	\$25.634925	\$11.435113	\$6.013836	\$50.134837
	JPM SmrtRetire 2025 Misc Rollover	SS S&P 500 Ind SL Misc Rollover	Baron Small Cap Misc Rollover	Artisan Mid Cap Misc Rollover
Beginning Balance	\$0.00	\$24,928.02	\$21,637.79	\$20,785.80
Contributions	\$0.00	\$0.00	\$0.00	\$0.00
Net Transfers	\$28,565.00	\$0.00	\$314.30(-)	\$44.55(-)
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$256.08	\$1,635.19	\$1,111.54	\$610.78
Ending Balance	\$28,821.08	\$26,563.21	\$22,435.03	\$21,352.03
Units in Fund	2,583.1147	871.0640	692.4685	579.9611
Ending Unit Value	\$11.157491	\$30.495120	\$32.398638	\$36.816300
	Htfd TotRet Bond HLS Misc Rollover	Htfd Global Grw HLS Misc Rollover	AmCent Str-All: Agg Misc Rollover	Htfd HC HLS Misc Rollover
Beginning Balance	\$18,420.19	\$16,132.00	\$23,272.72	\$15,812.33
Contributions	\$0.00	\$0.00	\$0.00	\$0.00
Net Transfers	\$0.00	\$0.00	\$0.00	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$8,483.35(-)	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$114.61	\$936.34	\$794.19	\$228.96(-)
Ending Balance	\$18,534.80	\$17,068.34	\$15,583.56	\$15,583.37
Units in Fund	1,502.0234	378.7184	813.4087	245.1033
Ending Unit Value	\$12.339886	\$45.068686	\$19.158332	\$63.578779
	Loomis Sayles Bd Misc Rollover	Invesco Comstock Misc Rollover	Templeton Foreign Misc Rollover	AmCent SC Value Misc Rollover
Beginning Balance	\$12,667.71	\$11,562.18	\$11,229.96	\$10,643.25
Contributions	\$0.00	\$0.00	\$0.00	\$0.00
Net Transfers	\$0.00	\$0.00	\$0.00	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$10.24(-)	\$861.07	\$301.00	\$287.10
Ending Balance	\$12,657.47	\$12,423.25	\$11,530.96	\$10,930.35
Units in Fund	476.6987	416.1003	425.6196	301.6219
Ending Unit Value	\$26.552351	\$29.856392	\$27.092189	\$36.238612

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 11 of 18
OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PLAN ACTIVITY

	SS SC Ind Sec Lend Misc Rollover	AmCent Str-All: Mod Misc Rollover	Calvert Eqty Misc Rollover	PIMCO Total Return Misc Rollover
Beginning Balance	\$10,547.36	\$9,782.16	\$8,745.79	\$7,008.87
Contributions	\$0.00	\$0.00	\$0.00	\$0.00
Net Transfers	\$0.00	\$0.00	\$0.00	\$455.17
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$349.55	\$348.28	\$609.67	\$4.70
Ending Balance	\$10,896.91	\$10,130.44	\$9,355.46	\$7,468.74
Units in Fund	344.2890	647.6141	309.4381	338.3861
Ending Unit Value	\$31.650465	\$15.642710	\$30.233715	\$22.071634

	Hotchkis Wiley MCVal Misc Rollover	MA Inv Grwth Stck Misc Rollover	JPM SmrtRetire 2045 Misc Rollover	Oppen Global Misc Rollover
Beginning Balance	\$7,125.19	\$4,735.99	\$0.00	\$2,062.64
Contributions	\$0.00	\$0.00	\$0.00	\$0.00
Net Transfers	\$0.00	\$0.00	\$3,711.15	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$323.63	\$357.30	\$50.33	\$146.93
Ending Balance	\$7,448.82	\$5,093.29	\$3,761.48	\$2,209.57
Units in Fund	97.5667	233.1207	325.8022	58.8482
Ending Unit Value	\$76.345995	\$21.848281	\$11.545291	\$37.547012

	Inv American Fran Misc Rollover	American Century RE Misc Rollover	SS MC Ind NL Ser Misc Rollover	Inv Eq and Inc Misc Rollover
Beginning Balance	\$1,502.25	\$1,275.20	\$919.76	\$462.84
Contributions	\$0.00	\$0.00	\$0.00	\$0.00
Net Transfers	\$0.00	\$0.00	\$0.00	\$0.00
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$47.65	\$32.75	\$56.51	\$15.06
Ending Balance	\$1,549.90	\$1,307.95	\$976.27	\$477.90
Units in Fund	69.1774	32.5664	26.0530	14.4683
Ending Unit Value	\$22.404698	\$40.162403	\$37.472518	\$33.030670

	AmCent Str-All: Cons Misc Rollover	SS DJ Tgt 2025 SL Misc Rollover	SS DJ Tgt 2035 SL Misc Rollover	SS DJ Tgt 2045 SL Misc Rollover
Beginning Balance	\$338.58	\$28,034.98	\$42,901.21	\$1,817.29
Contributions	\$0.00	\$0.00	\$0.00	\$1,800.50
Net Transfers	\$0.00	\$28,565.00(-)	\$44,098.19(-)	\$3,711.15(-)
Net Withdrawals	\$0.00	\$0.00	\$0.00	\$0.00
Plan & Contract Fees	\$0.00	\$0.00	\$0.00	\$0.00
Change in Value	\$8.83	\$530.02	\$1,196.98	\$93.36
Ending Balance	\$347.41	\$0.00	\$0.00	\$0.00
Units in Fund	30.3590	0.0000	0.0000	0.0000
Ending Unit Value	\$11.443321	\$0.000000	\$0.000000	\$0.000000

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT
Page 12 of 18
OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PLAN ACTIVITY

	Total Misc Rollover
Beginning Balance	\$1,489,736.76
Contributions	\$1,800.50
Net Transfers	\$.00
Net Withdrawals	\$14,761.35(-)
Plan & Contract Fees	\$.00
Change in Value	\$47,457.40
Ending Balance	\$1,524,233.31
Units in Fund	
Ending Unit Value	

Plan Activity Quarterly plan activity detailed by investment choice, including net conversions, contributions, transfers, withdrawals and any change in value due to market performance and reinvestment of dividends or capital gains (if applicable to your program).

PLAN SUMMARY TOTALS

	Period Summary	Historical Summary
BEGINNING BALANCE	\$34,456,047.62	
CONTRIBUTIONS	\$422,236.99	\$32,492,829.36
NET WITHDRAWALS	\$257,571.73(-)	\$15,010,476.49(-)
PLAN AND CONTRACT FEES	\$.00	
CHANGE IN VALUE	\$1,051,157.94	
ENDING BALANCE 12/31/2017	\$35,671,870.82	

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT
Page 13 of 18
OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PERFORMANCE

INVESTMENT CHOICES

FOR PERIOD ENDING DECEMBER 31, 2017

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS. Total return includes capital appreciation (depreciation), realized gains (losses), plus dividend or interest income. The investment return and principal value of an investment will fluctuate so that when units/shares are redeemed they may be worth more, or less, than the original cost. Results shown do not take into account personal income taxes or capital gains taxes. Current performance may be lower or higher than the performance data quoted. For current performance information to the most recent month-end, refer to our website at <http://retirement.massmutual.com/rsgovnp/>.

* Returns are net of total fund operating expenses and a mortality, expense risk and administrative charge (ME&A). The maximum ME&A charge for your plan is 1.25%; however, your plan's exact ME&A charge may be lower. Refer to a current fee schedule for charges applicable to your plan.

Investment options are available through group variable annuity contracts (HL-15811, HL-17402, HVL-11002, HVL-21002 series, and HL-20325 series). All contracts are issued by Hartford Life Insurance Company (Simsbury, CT). Effective January 1, 2013, contracts HVL-11002 and HVL-21002 series are underwritten by MML Distributors, LLC. Contracts are administered by Massachusetts Mutual Life Insurance Company. Total return includes capital appreciation (depreciation), realized gain (loss), plus reinvested dividend or interest income. Results shown do not take into account personal income taxes or capital gains taxes. Performance is stated after deduction for total fund operating expenses, applicable separate account charges, and all other applicable contract fees. With respect to all performance displayed, where inception of the underlying fund precedes that of the separate account, performance is given since the inception of the underlying fund (whereas the inception date for Separate Account 457 is 12/31/1998, and the inception date for Separate Account 14 is 3/15/2005). In such cases, the performance given is hypothetical and is based on the actual performance of the underlying fund.

This material must be preceded or accompanied by currently effective disclosure documents. Investors should consider an investment's objectives, risks, charges and expenses carefully before investing. Read this information carefully before you invest or send money. Questions should be directed to your local Financial Professional, or call the number listed on the front page of your quarterly Statement of Account.

1 The fund's investments are concentrated in a specific industry or sector, and are subject to greater risk than traditional diversified equity funds.

2 Investments in foreign securities may involve different and additional risks associated with foreign currencies, investment disclosure, accounting, securities regulation, commissions, taxes, political or social instability, war or expropriation.

3 Small Cap stocks generally have higher risk and return characteristics than large-company stocks.

4 The State Street Global Advisers index funds are commingled trust investment vehicles for which State Street Global Advisers serves as trustee.

5 Mid Cap stocks generally have higher risk and return characteristics than large-company stocks.

009926 8/10



COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 14 of 18

OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PERFORMANCE

INVESTMENT CHOICES

FOR PERIOD ENDING DECEMBER 31, 2017

	Month	Total Return 3 Mo.	YTD	1 Yr.	Average Annual Total Return*	5 Yr.	10 Yr.	Since Incept.	Inception Date
SPECIALTY									
368 American Century RE ¹	0.34%	2.57%	5.18%	5.18%	4.52%	8.44%	6.21%	N/A	09/21/1995
101 Htfd HC HLS ^{2,1}	-0.40%	-1.45%	22.26%	22.26%	8.24%	19.66%	12.13%	12.33%	05/01/2000
116 MFS Utilities ¹	-1.04%	0.20%	14.68%	14.68%	2.88%	8.05%	5.31%	N/A	02/14/1992
INTERNATIONAL/GLOBAL									
416 Artisan Internat'l ²	0.33%	3.95%	31.02%	31.02%	4.40%	7.12%	2.56%	9.21%	12/28/1995
179 Htfd Global Grw HLS ²	0.50%	5.80%	32.73%	32.73%	13.49%	16.30%	5.24%	N/A	09/30/1998
265 MFS Intl New Disc ²	2.64%	6.60%	31.75%	31.75%	10.61%	9.44%	5.89%	N/A	10/01/1997
118 Oppen Global ²	1.07%	7.12%	36.24%	36.24%	12.34%	12.90%	6.74%	N/A	12/22/1969
083 Templeton Foreign ²	2.42%	2.68%	17.08%	17.08%	6.69%	6.61%	2.24%	N/A	10/06/1982
SMALL CAP									
483 AmCent SC Value ³	0.22%	2.70%	10.26%	10.26%	10.59%	13.75%	9.96%	11.73%	07/31/1998
479 Baron Small Cap ³	0.93%	5.18%	27.13%	27.13%	9.82%	13.16%	7.96%	10.05%	10/01/1997
82 Htfd Sml Company HLS ³	0.79%	6.30%	26.36%	26.36%	5.78%	12.84%	6.90%	9.16%	08/09/1996
601 SS SC Ind Sec Lend ^{3,4}	-0.43%	3.31%	14.48%	14.48%	9.79%	13.94%	8.56%	7.85%	07/01/1997
MID CAP									
478 Artisan Mid Cap ⁵	-0.10%	2.94%	20.48%	20.48%	6.86%	12.12%	8.64%	13.17%	06/27/1997
473 Hotchkis Wiley MCVa ⁵	2.48%	4.54%	7.53%	7.53%	4.23%	12.50%	9.83%	12.12%	01/02/1997
103 Htfd MidCap HLS ⁵	0.72%	7.42%	24.47%	24.47%	12.29%	17.13%	9.75%	13.70%	07/14/1997
600 SS MC Ind NL Ser ^{5,4}	0.18%	6.14%	15.79%	15.79%	10.69%	14.54%	9.54%	10.09%	10/01/1997
LARGE CAP									
100 AF Growth Fund Amer	1.18%	6.84%	25.71%	25.71%	12.60%	15.72%	8.00%	N/A	12/01/1973
085 AmCent Equity Income	0.73%	3.70%	13.33%	13.33%	10.86%	12.85%	7.95%	10.87%	08/01/1994
272 Calvert Eqty	0.48%	6.97%	25.79%	25.79%	10.09%	14.08%	8.21%	N/A	08/24/1987
012 Htfd Cap App HLS	0.82%	4.98%	22.14%	22.14%	9.19%	14.21%	6.52%	13.09%	04/02/1984
1123 Inv American Fran	-0.01%	3.17%	27.10%	27.10%	10.81%	15.54%	9.53%	5.06%	06/23/2005
163 Invesco Comstock	2.34%	7.45%	17.77%	17.77%	9.29%	14.01%	7.98%	N/A	10/07/1968
115 MA Inv Grwth Stck	1.55%	7.54%	28.69%	28.69%	10.95%	14.67%	9.03%	N/A	01/02/1935
599 SS S&P 500 Ind SL ⁴	1.09%	6.56%	21.42%	21.42%	11.03%	15.40%	8.17%	8.46%	03/01/1996
ASSET ALLOCATION/BALANCED									
476 AmCent Str-All: Agg ¹	0.90%	4.36%	19.24%	19.24%	7.81%	9.94%	5.72%	7.82%	02/15/1996
474 AmCent Str-All: Cons ¹	0.57%	2.61%	10.83%	10.83%	4.71%	6.03%	4.86%	6.02%	02/15/1996
475 AmCent Str-All: Mod ¹	0.80%	3.56%	15.13%	15.13%	6.33%	8.20%	5.45%	7.21%	02/15/1996
165 Inv Eq and Inc	1.09%	3.25%	10.88%	10.88%	7.53%	11.13%	7.03%	N/A	08/03/1960
921 JPM SmrtRetire 2020	0.85%	3.16%	13.50%	13.50%	5.84%	7.49%	5.50%	N/A	05/15/2006
922 JPM SmrtRetire 2025	0.90%	3.71%	15.79%	15.79%	6.57%	8.66%	5.90%	5.91%	07/31/2007
923 JPM SmrtRetire 2030	0.99%	4.44%	18.45%	18.45%	7.26%	9.67%	6.12%	N/A	05/15/2006
924 JPM SmrtRetire 2035	1.05%	4.81%	19.89%	19.89%	7.74%	10.38%	6.46%	6.43%	07/31/2007
925 JPM SmrtRetire 2040	1.13%	5.15%	21.35%	21.35%	8.23%	10.86%	6.66%	N/A	05/15/2006
926 JPM SmrtRetire 2045	1.12%	5.22%	21.59%	21.59%	8.32%	10.90%	6.88%	6.79%	07/31/2007
927 JPM SmrtRetire 2050	1.14%	5.24%	21.53%	21.53%	8.30%	10.88%	6.87%	6.80%	07/31/2007
1147 JPM SmrtRetire 2055	1.10%	5.22%	21.50%	21.50%	8.29%	10.91%	N/A	11.15%	01/31/2012

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT

Page 15 of 18
OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

PERFORMANCE

INVESTMENT CHOICES

FOR PERIOD ENDING DECEMBER 31, 2017

	Month	Total Return			Average Annual Total Return*			Since Incept.	Inception Date
		3 Mo.	YTD	1 Yr.	3 Yr.	5 Yr.	10 Yr.		
ASSET ALLOCATION/BALANCED									
1278 JPM SmrtRetire 2060	1.19%	5.20%	21.43%	21.43%	N/A	N/A	N/A	17.29%	08/31/2016
928 JPM SmrtRetire Inc	0.73%	2.53%	10.67%	10.67%	4.64%	5.29%	4.84%	N/A	05/15/2006
661 Oakmark Eq & Inc	0.77%	4.14%	14.15%	14.15%	6.29%	9.65%	6.53%	N/A	07/12/2000
BOND									
18 Htfd TotRet Bond HLS	0.53%	0.62%	5.16%	5.16%	2.99%	2.67%	4.13%	N/A	08/31/1977
743 Loomis Sayles Bd	0.37%	-0.08%	6.92%	6.92%	2.34%	3.30%	5.22%	N/A	05/16/1991
300 PIMCO Total Return	0.56%	0.02%	4.74%	4.74%	2.41%	1.82%	4.81%	N/A	05/11/1987
1178 Prem Barings HYld	0.14%	0.04%	7.22%	7.22%	6.76%	6.48%	7.29%	6.92%	04/01/2014

General (Declared Rate) Account Information:

1st Q 2018: 2.00%

The Declared Rate set forth above is credited through the close of the calendar year on contributions received during the designated calendar quarter. For contributions received prior to January 1, 2018, the Declared Rate is 2.00%. Rates quoted are effective annual yields.

BENCHMARK INDICES

FOR PERIOD ENDING DECEMBER 31, 2017

	Month	Total Return			Average Annual Total Return		
		3 Mo.	YTD	1 Yr.	3 Yr.	5 Yr.	10 Yr.
S&P 500 Index ¹	1.11%	6.64%	21.83%	21.83%	11.41%	15.79%	8.50%
BarCap Gov/Corp Indx ²	0.52%	0.49%	4.00%	4.00%	2.38%	2.13%	4.08%
NASDAQ ³	0.43%	6.27%	28.24%	28.24%	13.38%	17.98%	10.04%

Market indices have been provided for comparison purposes only. The indices represented are not illustrative of the performance of any investment option offered through these retirement programs. These indices are unmanaged and are not available for direct investment.

1 S&P is an index which measures broad-based changes in stock market conditions based on the average performance of 500 widely held common stocks.

2 The Barclay's Capital Government/Corporate Bond Index, an unmanaged list of U.S. Treasury/Agency and investment grade corporate debt securities, is used as a general measure of performance of fixed income securities.

3 NASDAQ is a computerized system that provides brokers and dealers with price quotations for securities traded over the counter as well as for many NYSE listed securities.

COUNTY OF CATTARAUGUS
DEFERRED COMPENSATION PLAN
PLAN SUMMARY STATEMENT
Page 16 of 18
OCTOBER 1, 2017 - DECEMBER 31, 2017



GROUP NUMBER: 0030042

NEW AND NOTEWORTHY

Manage your account online! Our interactive retirement planning website, www.massmutual.com/serve, allows you to manage your retirement account anytime, anywhere. Log in today to:

- View your statement of account (and/or previous statements) and individual account information
- Get information how to read your statement of account
- Check investment option performance history
- Change your investment elections/transfer assets between investment options
- View your Disbursement information for a rolling 27 month period
- Access interactive retirement planning calculators, educational articles and other resources to help you prepare for a more secure retirement

2018 Holiday Schedule

The New York Stock Exchange will observe the following holidays this year:

Monday	January 1, 2018	New Year's Day
Monday	January 15, 2018	Martin Luther King, Jr.'s Birthday
Monday	February 19, 2018	President's Day
Friday	March 30, 2018	Good Friday
Monday	May 28, 2018	Memorial Day
Wednesday	July 4, 2018	Independence Day
Monday	September 3, 2018	Labor Day
Thursday	November 22, 2018	Thanksgiving Day
Tuesday	December 25, 2018	Christmas Day
Tuesday	January 1, 2019	New Year's Day

The hours of operations for the Retirement Plans Contact Center will be from 8:00 AM to 6:00 PM (Eastern Time) on the following day: November 23, 2018

Contracts are issued by Hartford Life Insurance Company. Contracts are administered by Massachusetts Mutual Life Insurance Company.

Privacy Notice

At MassMutual Retirement Services, we recognize that our relationships with you are based on integrity and trust. As part of that trust relationship, we want you to be aware of how we protect, collect, and share personal information about you. This Privacy Notice describes our policies and practices about how we protect, collect, and share personal information about you in connection with our Retirement Service business, which includes the products and services we provide to employment based retirement plans, such as group annuity contracts, recordkeeping services, mutual fund platforms, funding agreements, defined benefit and defined contribution plans, and similar group products issued or administered by MassMutual Retirement Services.

We Protect Your Personal Information By:

- Maintaining physical, electronic and procedural safeguards to protect your personal information;
- Restricting access to your personal information to employees with a business need to know;
- Requiring that any MassMutual business partners with whom we share your personal information protect it and use it exclusively for the purpose for which it was shared; and
- Ensuring personal information is only shared with third parties as necessary for standard business purposes or as authorized by you.

We May Collect Personal Information About You From:

- Our interactions with you, including applications and other forms, interviews, communications, and visits to our web site;
- Your transactions with us or our affiliated companies; and
- Information we obtain from third parties such as consumer or other reporting agencies and medical or health care providers.

We May Share All of the Personal Information We Collect, as Described Above, With:

- Agents, brokers and others who provide our products and services to you;
- Our affiliated companies, such as insurance or investment companies, insurance agencies or broker-dealers that market our products and services to you;
- Companies that perform marketing or administrative services for us;
- Nonaffiliated companies in order to perform standard business functions on our behalf including those related to processing transactions you request or authorize, or maintaining your account or policy;
- Courts and government agencies in response to court orders or legal investigations;
- Credit bureaus; and
- Other financial institutions with whom we may jointly market products, if permitted in your state.



Please note that any personal information consisting of medical or health information is only shared with third parties to perform business, professional or insurance functions on our behalf or as authorized by you.

Consistent with our commitments stated above, please know that if any sharing of your personal information will require us to give you the option to opt-out of or opt-in to the information sharing, we will provide you with this option.

This Privacy Notice is being provided on behalf of the following insurance companies: Massachusetts Mutual Life Insurance Company (MassMutual) and its Retirement Services business.

For more information regarding MassMutual's privacy and security practices, including the Privacy Notices for other than MassMutual's Retirement Services business, please visit www.MassMutual.com.



This Privacy Notice is being provided on behalf of the following insurance companies: Massachusetts Mutual Life Insurance Company (MassMutual), C.M. Life Insurance Company, and Bay State Life Insurance Company.