



# **TimeFrame Model Rolldown 2023**

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Clackamas County Plans

**Clackamas County TimeFrame Portfolios - 2023 Asset Allocations**

Asset Class	Fund Ticker	Expense Ratio	Income	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
<b>U.S. Large Cap</b>			18%	20%	21%	22%	23%	25%	28%	29%	30%	31%	31%	31%	31%	31%
JPMorgan Equity Income R6	OIEJX	0.45%	4%	4%	4%	4%	5%	5%	6%	6%	6%	6%	6%	6%	6%	6%
Parnassus Core Equity Institutional	PRILX	0.61%	2%	3%	3%	3%	3%	3%	4%	4%	4%	4%	4%	4%	4%	4%
Vanguard Institutional Index I	VINIX	0.04%	12%	13%	14%	15%	15%	17%	18%	19%	20%	21%	21%	21%	21%	21%
<b>U.S. Mid Cap</b>			4%	5%	6%	7%	8%	9%	12%	14%	16%	17%	19%	20%	20%	20%
T. Rowe Price Mid-Cap Growth I	RPTIX	0.61%	2%	2%	2%	3%	3%	4%	5%	6%	6%	7%	8%	8%	8%	8%
Vanguard Mid Cap Index Institutional	VMCIX	0.04%	2%	3%	4%	4%	5%	5%	7%	8%	10%	10%	11%	12%	12%	12%
<b>U.S. Small Cap</b>			1%	2%	3%	3%	4%	5%	7%	10%	12%	14%	15%	16%	18%	18%
JPMorgan Small Cap Equity R6	VSENX	0.75%	1%	2%	2%	2%	3%	3%	5%	6%	8%	9%	9%	10%	11%	11%
Vanguard Small Cap Index I	VSCIX	0.04%	0%	0%	1%	1%	1%	2%	2%	4%	4%	5%	6%	6%	7%	7%
<b>International Equity</b>			8%	10%	11%	12%	13%	15%	18%	21%	22%	23%	24%	25%	25%	26%
Vanguard Developed Markets Index In	VTMNX	0.05%	4%	5%	6%	6%	6%	7%	9%	10%	10%	10%	11%	12%	12%	13%
Trillium ESG Global Equity Fund Instl	PORIX	1.01%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dodge & Cox International Stock I	DODFX	0.62%	1%	2%	2%	2%	3%	3%	3%	4%	4%	5%	5%	5%	5%	5%
American Funds Europacific Growth R	RERGX	0.46%	2%	2%	2%	3%	3%	3%	4%	4%	5%	5%	5%	5%	5%	5%
Invesco Developing Markets R6	ODVIX	0.81%	1%	1%	1%	1%	1%	2%	2%	3%	3%	3%	3%	3%	3%	3%
<b>Intermediate Duration Fixed Income</b>			34%	34%	34%	33%	31%	31%	26%	21%	16%	12%	9%	6%	5%	4%
Loomis Sayles Investment Grade Bond	LGBNX	0.45%	17%	17%	17%	17%	16%	16%	13%	11%	8%	6%	5%	3%	3%	2%
Calvert Bond I	CBDIX	0.01	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vanguard Total Bond Market Index Ad	VBTLX	0.05%	17%	17%	17%	16%	15%	15%	13%	10%	8%	6%	4%	3%	2%	2%
Lord Abbett High Yield R6	LHYVX	0.59%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Global Hedged</b>			8%	8%	8%	8%	8%	8%	7%	5%	4%	3%	2%	2%	1%	1%
Vanguard Total Intl Bd Idx Admiral™	VTABX	0.11%	8%	8%	8%	8%	8%	8%	7%	5%	4%	3%	2%	2%	1%	1%
<b>Liquid Assets</b>			27%	21%	17%	15%	13%	7%	2%	0%	0%	0%	0%	0%	0%	0%
Voya Stable Value 35	VOYASV35	0.35%	27%	21%	17%	15%	13%	7%	2%	0%	0%	0%	0%	0%	0%	0%

**Model Summary Statistics**

Equity:	31%	37%	41%	44%	48%	54%	65%	74%	80%	85%	89%	92%	94%	95%
Fixed Income:	69%	63%	59%	56%	52%	46%	35%	26%	20%	15%	11%	8%	6%	5%
% Active	57%	54%	50%	50%	50%	46%	44%	44%	44%	45%	45%	44%	45%	44%
% Passive	43%	46%	50%	50%	50%	54%	56%	56%	56%	55%	55%	56%	55%	56%
Expense:	0.27%	0.27%	0.26%	0.26%	0.27%	0.26%	0.27%	0.28%	0.28%	0.29%	0.29%	0.29%	0.30%	0.29%

**Clackamas County TimeFrame Portfolios - 2022 Asset Allocations**

Asset Class	Fund Ticker	Expense Ratio	Income	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
<b>U.S. Large Cap</b>			19%	20%	21%	22%	23%	25%	28%	30%	30%	31%	31%	31%	31%	31%
JPMorgan Equity Income R6	OIEJX	0.45%	4%	4%	4%	4%	5%	5%	6%	6%	6%	6%	6%	6%	6%	6%
Parnassus Core Equity Institutional	PRILX	0.61%	2%	3%	3%	3%	3%	3%	4%	4%	4%	4%	4%	4%	4%	4%
Vanguard Institutional Index I	VINIX	0.04%	13%	13%	14%	15%	15%	17%	18%	20%	20%	21%	21%	21%	21%	21%
<b>U.S. Mid Cap</b>			4%	5%	6%	7%	8%	10%	12%	15%	17%	18%	19%	20%	20%	19%
T. Rowe Price Mid-Cap Growth I	RPTIX	0.61%	2%	2%	2%	3%	3%	4%	5%	6%	7%	7%	8%	8%	8%	8%
Vanguard Mid Cap Index Institutional	VMCIX	0.04%	2%	3%	4%	4%	5%	6%	7%	9%	10%	11%	11%	12%	12%	11%
<b>U.S. Small Cap</b>			2%	2%	3%	4%	4%	6%	8%	10%	12%	14%	16%	17%	18%	18%
JPMorgan Small Cap Equity R6	VSENX	0.75%	2%	2%	2%	3%	3%	4%	5%	6%	8%	9%	10%	11%	11%	11%
Vanguard Small Cap Index I	VSCIX	0.04%	0%	0%	1%	1%	1%	2%	3%	4%	4%	5%	6%	6%	7%	7%
<b>International Equity</b>			8%	10%	11%	12%	13%	15%	19%	21%	22%	23%	24%	25%	26%	27%
Vanguard Developed Markets Index In	VTMNX	0.05%	4%	5%	6%	6%	6%	7%	9%	10%	10%	10%	11%	12%	13%	13%
Trillium ESG Global Equity Fund Instl	PORIX	1.01%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dodge & Cox International Stock I	DODFX	0.62%	1%	2%	2%	2%	3%	3%	4%	4%	4%	5%	5%	5%	5%	5%
American Funds Europacific Growth R	RERGX	0.46%	2%	2%	2%	3%	3%	3%	4%	4%	5%	5%	5%	5%	5%	5%
Invesco Developing Markets R6	ODVIX	0.81%	1%	1%	1%	1%	1%	2%	2%	3%	3%	3%	3%	3%	3%	4%
<b>Intermediate Duration Fixed Income</b>			34%	34%	34%	33%	31%	30%	26%	19%	15%	11%	8%	6%	4%	4%
Loomis Sayles Investment Grade Bonr	LGBNX	0.45%	17%	17%	17%	17%	16%	15%	13%	10%	8%	6%	4%	3%	2%	2%
Calvert Bond I	CBDIX	0.01	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vanguard Total Bond Market Index Ad	VBTLX	0.05%	17%	17%	17%	16%	15%	15%	13%	9%	7%	5%	4%	3%	2%	2%
Lord Abbett High Yield R6	LHYVX	0.59%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Global Hedged</b>			8%	8%	8%	8%	8%	8%	6%	5%	4%	3%	2%	1%	1%	1%
Vanguard Total Intl Bd Idx Admiral™	VTABX	0.11%	8%	8%	8%	8%	8%	8%	6%	5%	4%	3%	2%	1%	1%	1%
<b>Liquid Assets</b>			25%	21%	17%	14%	13%	6%	1%	0%	0%	0%	0%	0%	0%	0%
Voya Stable Value 35	VOYASV35	0.35%	25%	21%	17%	14%	13%	6%	1%	0%	0%	0%	0%	0%	0%	0%

**Model Summary Statistics**

Equity:	33%	37%	41%	45%	48%	56%	67%	76%	81%	86%	90%	93%	95%	95%
Fixed Income:	67%	63%	59%	55%	52%	44%	33%	24%	19%	14%	10%	7%	5%	5%
% Active	56%	54%	50%	50%	50%	50%	45%	44%	43%	45%	45%	45%	44%	45%
% Passive	44%	46%	50%	50%	50%	55%	56%	57%	55%	55%	55%	55%	56%	55%
Expense:	0.27%	0.27%	0.26%	0.26%	0.27%	0.26%	0.27%	0.27%	0.27%	0.29%	0.29%	0.30%	0.30%	0.29%

Clackamas County TimeFrame Portfolios - Change Asset Allocations

Asset Class	Fund Ticker	Expense Ratio	Income	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
U.S. Large Cap			-1%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
JPMorgan Equity Income R6	OIEJX	0.45%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Parnassus Core Equity Institutional	PRILX	0.61%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vanguard Institutional Index I	VINIX	0.04%	-1%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
U.S. Mid Cap			0%	0%	0%	0%	0%	-1%	0%	-1%	-1%	-1%	0%	0%	0%	1%
T. Rowe Price Mid-Cap Growth I	RPTIX	0.61%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%
Vanguard Mid Cap Index Institutional	VMCIX	0.04%	0%	0%	0%	0%	0%	-1%	0%	-1%	0%	-1%	0%	0%	0%	1%
U.S. Small Cap			-1%	0%	0%	-1%	0%	-1%	-1%	0%	0%	0%	-1%	-1%	0%	0%
JPMorgan Small Cap Equity R6	VSENX	0.75%	-1%	0%	0%	-1%	0%	-1%	0%	0%	0%	0%	-1%	-1%	0%	0%
Vanguard Small Cap Index I	VSCIX	0.04%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
International Equity			0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	-1%	-1%
Vanguard Developed Markets Index In	VTMNX	0.05%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%
Trillium ESG Global Equity Fund Instl	PORIX	1.01%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dodge & Cox International Stock I	DODFX	0.62%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
American Funds Europacific Growth R	RERGX	0.46%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Invesco Developing Markets R6	ODVIX	0.81%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%
Intermediate Duration Fixed Income			0%	0%	0%	0%	0%	1%	0%	2%	1%	1%	1%	0%	1%	0%
Loomis Sayles Investment Grade Bon	LGBNX	0.45%	0%	0%	0%	0%	0%	1%	0%	1%	0%	0%	1%	0%	1%	0%
Calvert Bond I	CBDIX	0.53%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vanguard Total Bond Market Index Ad	VBTLX	0.05%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	0%	0%	0%	0%
Lord Abbett High Yield R6	LHYVX	0.59%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Global Hedged			0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	1%	0%
Vanguard Total Intl Bd Idx Admiral™	VTABX	0.11%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	1%	0%	0%
Liquid Assets			2%	0%	0%	1%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%
Voya Stable Value 35	VOYASV35	0.35%	2%	0%	0%	1%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%

Model Summary Statistics

Equity:	-2%	0%	0%	-1%	0%	-2%	-2%	-2%	-1%	-1%	-1%	-1%	-1%	-1%	0%
Fixed Income:	2%	0%	0%	1%	0%	2%	2%	2%	1%	1%	1%	1%	1%	1%	0%
% Active	1%	0%	0%	0%	0%	1%	0%	1%	-1%	0%	0%	0%	-1%	1%	-1%
% Passive	-1%	0%	0%	0%	0%	-1%	0%	-1%	1%	0%	0%	0%	1%	-1%	1%