Key assumptions: Initial \$10,000. 7% real return rate (very close to actual expected return rate). Tax cost of 18%: that's what I pay from 15% cap gains rate + 3% state tax rate. I ignore the effect of inflation. I do not display results for a retirement account. No taxes on growth (Roth or Traditional). After-tax return = pre-tax return = 7% for all years.

| | 1 | 2 | 3 | 4 | <u>5</u> | <u>6</u> | 7 | <u>8</u> | <u>9</u> | 10 |
|---|------------------------|--------------------|--------------------|---------------|------------------------|--------------------|------------------------|----------------------|------------------------|------------------|
| Invested at Beginning of Year | 10,000 | 10,700 | 11,449 | 12,250 | 13,108 | 14,026 | 15,007 | 16,058 | 17,182 | 18,3 |
| Dividends, Taxed in year | | | - | | | , | | - | | |
| Tax paid in year | - | _ | _ | - | _ | - | - | - | - | - |
| Gain from price appreciation | 700 | 749 | 801 | 858 | 918 | 982 | 1,051 | 1,124 | 1,203 | 1,2 |
| Net increase in value | 700 | 749 | 801 | 858 | 918 | 982 | 1,051 | 1,124 | 1,203 | 1,2 |
| Rate of increase | 7.00% | 7.00% | 7.00% | 7.00% | 7.00% | 7.00% | 7.00% | 7.00% | 7.00% | 7.0 |
| Invested end of year | 10,700 | 11,449 | 12,250 | 13,108 | 14,026 | 15,007 | 16,058 | 17,182 | 18,385 | 19,6 |
| Cumluative Gain not taxed | 700 | 1,449 | 2,250 | 3,108 | 4,026 | 5,007 | 6,058 | 7,182 | 8,385 | 9,6 |
| Tax if sold at year end | 126 | 261 | 405 | 559 | 725 | 901 | 1,090 | 1,293 | 1,509 | 1,7 |
| Proceeds after tax | 10,574 | 11,188 | 11,845 | 12,549 | 13,301 | 14,106 | 14,967 | 15,889 | 16,875 | 17,9 |
| CAGR: | 5.74% | 5.77% | 5.81% | 5.84% | 5.87% | 5.90% | 5.93% | 5.96% | 5.99% | 6. |
| | | | | | | | | | | |
| Base Case 2. The 7% return is 2% dividend | is and 5% pric | | n. <u>3</u> | 4 | <u>5</u> | <u>6</u> | 7 | <u>8</u> | <u>9</u> | 10 |
| Invested at Beginning of Year | <u> </u> | <u>2</u> 10,664 | <u>5</u> 11,372 | 4 12,127 | <u>5</u> 12,932 | <u>0</u> 13,791 | <u>/</u> 14.707 | <u>o</u> 15,683 | <u>9</u> 16,725 | <u>10</u> 17, |
| Dividends, Taxed in year | 200 | 213 | 227 | 243 | 259 | 276 | 294 | 314 | 334 | 17, |
| Tax paid in year | 36 | 38 | 41 | 243 44 | 233 47 | 50 | 53 | 56 | 554 60 | |
| Gain from price appreciation | 500 | 533 | 569 | 606 | 647 | 690 | 735 | 784 | 836 | |
| Net Increase in value | 664 | 708 | 755 | 805 | 859 | 916 | 977 | 1,041 | 1,111 | 1, |
| Rate of increase | 6.64% | 6.64% | 6.64% | 6.64% | 6.64% | 6.64% | 6.64% | 6.64% | 6.64% | - , |
| Invested end of year; proceeds if sold | 10,664 | 11,372 | 12,127 | 12,932 | 13,791 | 14,707 | 15,683 | 16,725 | 17,835 | 19, |
| | , | - | | | | | , | | | |
| Cumulative gain not taxed | 500 90 | 1,033 186 | 1,602 288 | 2,208 | 2,855 514 | 3,544 638 | 4,280 770 | 5,064 911 | 5,900 | |
| Added tax if sold at year end Proceeds after tax | 90 10,574 | 186 | 288 11,839 | 397 12,535 | 13,277 | 14,069 | 14,913 | 15,813 | 1,062 16,773 | 1, 17, |
| CAGR: | 10,574 5.74% | 5.76% | 5.79% | 5.81% | 5.83% | 5.85% | 14,915 5.88% | 5.90% | 5.92% | 17, 5. |
| CAGIN. | J.74/8 | 5.7078 | 3.7378 | J.01/6 | 3.03/0 | J.03/8 | 5.0078 | 3.3078 | J.J2/8 | |
| Case 3. The 7% return is 2% dividends and | 5% price app | | | - | | | | | | |
| | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | <u>8</u> | <u>9</u> | <u>10</u> |
| Invested at Beginning of Year | 10,000 | 10,592 | 11,219 | 11,883 | 12,587 | 13,332 | 14,121 | 14,957 | 15,843 | 16, |
| Dividends, Taxed in year | 200 | 212 | 224 | 238 | 252 | 267 | 282 | 299 | 317 | |
| Tax paid in year | 36 | 38 | 40 | 43 | 45 | 48 | 51 | 54 | 57 | |
| Cap Gains Distributed | 400 | 424 | 449 | 475 | 503 | 533 | 565 | 598 | 634 | |
| Added tax paid on Cap Gains Dist | 72 | 76 | 81 | 86 | 91 | 96 | 102 | 108 | 114 | |
| Price appreciation | 500 592 | 530 627 | 561 664 | 594 703 | 629 745 | 667 789 | 706 | 748 885 | 792 938 | |
| | 592 5.92% | | | | | | 836 | | | |
| | 5 97% | 5.92% | 5.92% | 5.92% | 5.92% 13,332 | 5.92% | 5.92% | 5.92% | 5.92% | 5 17 |
| Rate of increase | | 11 210 | 11 000 | | 13 33/ | 14,121 | 14,957 | 15,843 | 16,780 | 17, |
| Rate of increase Invested end of year; proceeds if sold | 10,592 | 11,219 | 11,883 | 12,587 | - | | | | | |
| Rate of increase Invested end of year; proceeds if sold Cumulative gain not taxed | 10,592 100 | 206 | 318 | 437 | 563 | 696 | 837 | 987 | 1,145 | 1, |
| Rate of increase Invested end of year; proceeds if sold | 10,592 | - | - | | - | | 837 151 14,806 | 987 178 15,665 | 1,145 206 16,574 | 1, 17, |

2/28/20