

Appendix 14: Modeled Gross Domestic Product Varying Development

Model Gross Domestic Product

| Modeled Gross Domestic Product | Year 0 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.5 Development | 1417925 | 1464444 | 1512368 | 1561736 | 1612590 | 1664972 | 1718927 | 1774498 | 1831734 | 1890680 |
| 0.1 Development | 86.42949 | 88.75773 | 91.14132 | 93.58151 | 96.07953 | 98.63669 | 101.2543 | 103.9337 | 106.6762 | 109.4832 |
| 0.3 Development | 49856.21 | 51322.41 | 52827.45 | 54372.32 | 55958.01 | 57585.53 | 59255.93 | 60970.27 | 62729.65 | 64535.19 |
| 0.7 Development | 14274983 | 14860143 | 15468042 | 16099531 | 16755496 | 17436852 | 18144550 | 18879575 | 19642946 | 20435723 |
| 0.9 Development | 82234784 | 87478405 | 93048866 | 98966193 | 1.05E+08 | 1.12E+08 | 1.19E+08 | 1.27E+08 | 1.35E+08 | 1.43E+08 |

| Year 10 | Year 11 | Year 12 | Year 13 | Year 14 | Year 15 | Year 16 | Year 17 | Year 18 | Year 19 | Year 20 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1951385 | 2013901 | 2078279 | 2144570 | 2212831 | 2283117 | 2355485 | 2429994 | 2506706 | 2585682 | 2666987 |

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 112.3563 | 115.2967 | 118.3061 | 121.3859 | 124.5377 | 127.763 | 131.0635 | 134.4409 | 137.8967 | 141.4329 | 145.051 |
| 66388.03 | 68289.34 | 70240.33 | 72242.23 | 74296.3 | 76403.82 | 78566.12 | 80784.55 | 83060.49 | 85395.37 | 87790.62 |
| 21259002 | 22113919 | 23001653 | 23923423 | 24880495 | 25874180 | 26905837 | 27976874 | 29088750 | 30242977 | 31441122 |
| 1.52E+08 | 1.62E+08 | 1.72E+08 | 1.83E+08 | 1.94E+08 | 2.06E+08 | 2.19E+08 | 2.33E+08 | 2.47E+08 | 2.63E+08 | 2.79E+08 |

| Year 21 | Year 22 | Year 23 | Year 24 | Year 25 | Year 26 | Year 27 | Year 28 | Year 29 | Year 30 | Year 31 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2750686 | 2836848 | 2925541 | 3016837 | 3110810 | 3207535 | 3307089 | 3409552 | 3515006 | 3623535 | 3735225 |
| 148.7529 | 152.5404 | 156.4154 | 160.3799 | 164.4357 | 168.5848 | 172.8294 | 177.1714 | 181.613 | 186.1563 | 190.8036 |
| 90247.74 | 92768.25 | 95353.71 | 98005.71 | 100725.9 | 103515.9 | 106377.4 | 109312.3 | 112322.3 | 115409.2 | 118574.9 |
| 32684809 | 33975719 | 35315597 | 36706248 | 38149544 | 39647425 | 41201899 | 42815048 | 44489029 | 46226076 | 48028504 |
| 2.97E+08 | 3.15E+08 | 3.35E+08 | 3.55E+08 | 3.77E+08 | 4.01E+08 | 4.26E+08 | 4.52E+08 | 4.8E+08 | 5.1E+08 | 5.41E+08 |

| Year 32 | Year 33 | Year 34 | Year 35 | Year 36 | Year 37 | Year 38 | Year 39 | Year 40 | Year 41 | Year 42 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3850165 | 3968445 | 4090161 | 4215406 | 4344281 | 4476887 | 4613328 | 4753710 | 4898145 | 5046745 | 5199626 |
| 195.5571 | 200.4192 | 205.3921 | 210.4783 | 215.6803 | 221.0005 | 226.4414 | 232.0058 | 237.6963 | 243.5155 | 249.4663 |
| 121821.3 | 125150.5 | 128564.3 | 132064.9 | 135654.5 | 139335 | 143108.9 | 146978.2 | 150945.5 | 155012.9 | 159183 |
| 49898713 | 51839185 | 53852496 | 55941312 | 58108395 | 60356606 | 62688911 | 65108381 | 67618194 | 70221648 | 72922154 |
| 5.75E+08 | 6.1E+08 | 6.47E+08 | 6.87E+08 | 7.3E+08 | 7.74E+08 | 8.22E+08 | 8.72E+08 | 9.26E+08 | 9.82E+08 | 1.04E+09 |

| Year 43 | Year 44 | Year 45 | Year 46 | Year 47 | Year 48 | Year 49 | Year 50 |
|---------|---------|---------|---------|---------|---------|---------|---------|
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|----------|----------|----------|----------|----------|----------|----------|----------|
| 5356907 | 5518711 | 5685163 | 5856393 | 6032532 | 6213719 | 6400092 | 6591795 |
| 255.5515 | 261.774 | 268.1368 | 274.6428 | 281.2951 | 288.097 | 295.0515 | 302.162 |
| 163458.2 | 167841.1 | 172334.2 | 176940.4 | 181662.2 | 186502.4 | 191464 | 196549.8 |
| 75723247 | 78628590 | 81641975 | 84767330 | 88008724 | 91370371 | 94856636 | 98472039 |
| 1.11E+09 | 1.17E+09 | 1.25E+09 | 1.32E+09 | 1.4E+09 | 1.49E+09 | 1.58E+09 | 1.67E+09 |

Modeled Factor of Change

| Modeled Factor of Change | Year 0 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 |
|--------------------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.5 Development | 1 | 1.032808 | 1.066607 | 1.101424 | 1.137289 | 1.174232 | 1.212284 | 1.251476 | 1.291841 | 1.333413 | 1.376227 |
| 0.1 Development | 1 | 1.026938 | 1.054516 | 1.08275 | 1.111652 | 1.141239 | 1.171525 | 1.202526 | 1.234257 | 1.266735 | 1.299976 |
| 0.3 Development | 1 | 1.029408 | 1.059596 | 1.090583 | 1.122388 | 1.155032 | 1.188537 | 1.222922 | 1.258211 | 1.294426 | 1.33159 |
| 0.7 Development | 1 | 1.040992 | 1.083577 | 1.127814 | 1.173766 | 1.221497 | 1.271073 | 1.322564 | 1.37604 | 1.431576 | 1.489249 |

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|-------------|---|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|
| 0.9 | 1 | 1.063764 | 1.131503 | 1.203459 | 1.279892 | 1.361075 | 1.447298 | 1.53887 | 1.636116 | 1.739384 | 1.849039 |
| Development | | | | | | | | | | | |

| Year 11 | Year 12 | Year 13 | Year 14 | Year 15 | Year 16 | Year 17 | Year 18 | Year 19 | Year 20 | Year 21 | Year 22 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1.420316 | 1.465719 | 1.512471 | 1.560613 | 1.610182 | 1.66122 | 1.713768 | 1.76787 | 1.823568 | 1.880909 | 1.939938 | 2.000704 |
| 1.333998 | 1.368816 | 1.40445 | 1.440916 | 1.478234 | 1.516421 | 1.555498 | 1.595483 | 1.636396 | 1.678258 | 1.721089 | 1.764911 |
| 1.369726 | 1.408858 | 1.449012 | 1.490211 | 1.532484 | 1.575854 | 1.620351 | 1.666001 | 1.712833 | 1.760876 | 1.81016 | 1.860716 |
| 1.549138 | 1.611326 | 1.675899 | 1.742944 | 1.812554 | 1.884825 | 1.959853 | 2.037743 | 2.1186 | 2.202533 | 2.289657 | 2.380088 |
| 1.965472 | 2.089095 | 2.220344 | 2.359684 | 2.507606 | 2.664631 | 2.831312 | 3.008233 | 3.196015 | 3.395316 | 3.606833 | 3.831304 |

| Year 23 | Year 24 | Year 25 | Year 26 | Year 27 | Year 28 | Year 29 | Year 30 | Year 31 | Year 32 | Year 33 | Year 34 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2.063256 | 2.127643 | 2.193918 | 2.262134 | 2.332345 | 2.404608 | 2.47898 | 2.55552 | 2.63429 | 2.715352 | 2.79877 | 2.884611 |
| 1.809746 | 1.855615 | 1.902541 | 1.950547 | 1.999657 | 2.049895 | 2.101285 | 2.153852 | 2.207622 | 2.262621 | 2.318875 | 2.376413 |
| 1.912574 | 1.965767 | 2.020327 | 2.076289 | 2.133685 | 2.192552 | 2.252924 | 2.31484 | 2.378337 | 2.443453 | 2.510228 | 2.578702 |
| 2.47395 | 2.571369 | 2.672476 | 2.777406 | 2.886301 | 2.999306 | 3.116573 | 3.238258 | 3.364523 | 3.495536 | 3.631471 | 3.772509 |
| 4.069512 | 4.322288 | 4.59051 | 4.87511 | 5.177076 | 5.497455 | 5.837354 | 6.19795 | 6.580486 | 6.986282 | 7.416736 | 7.873329 |

| Year 35 | Year 36 | Year 37 | Year 38 | Year 39 | Year 40 | Year 41 | Year 42 | Year 43 | Year 44 | Year 45 | Year 46 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2.972941 | 3.063831 | 3.157352 | 3.253577 | 3.352583 | 3.454447 | 3.559248 | 3.667068 | 3.777991 | 3.892105 | 4.009496 | 4.130257 |
| 2.435261 | 2.495448 | 2.557003 | 2.619956 | 2.684336 | 2.750176 | 2.817505 | 2.886357 | 2.956763 | 3.028758 | 3.102376 | 3.177651 |

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2.648916 | 2.720914 | 2.794738 | 2.870432 | 2.948043 | 3.027616 | 3.109199 | 3.192841 | 3.278592 | 3.366503 | 3.456625 | 3.549013 |
| 3.918836 | 4.070646 | 4.228139 | 4.391523 | 4.561013 | 4.736832 | 4.919211 | 5.108388 | 5.304612 | 5.508139 | 5.719235 | 5.938174 |
| 8.357629 | 8.871299 | 9.416099 | 9.993896 | 10.60667 | 11.2565 | 11.94562 | 12.67638 | 13.45125 | 14.27289 | 15.14408 | 16.06777 |

| Year 47 | Year 48 | Year 49 | Year 50 |
|----------|----------|----------|----------|
| 4.25448 | 4.382263 | 4.513704 | 4.648903 |
| 3.25462 | 3.333318 | 3.413783 | 3.496052 |
| 3.643722 | 3.740806 | 3.840324 | 3.942333 |
| 6.165242 | 6.400734 | 6.644956 | 6.898225 |
| 17.04711 | 18.08541 | 19.18618 | 20.35315 |