|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Correlations** | | | | | | | | | |
|  | | Swimming | Coastline (Km) (2018) | Temperature (1901-2016 [C]) | GDP (US Billion Dollar) | Elevation (Feet) | Status of Women | Democracy Index | Population |
| Pearson Correlation | Swimming | 1.000 | .358 | -.440 | .785 | -.134 | .403 | .318 | .438 |
| Coastline (Km) (2018) | .358 | 1.000 | -.371 | .169 | -.041 | .236 | .245 | .087 |
| Temperature (1901-2016 [C]) | -.440 | -.371 | 1.000 | -.254 | -.227 | -.619 | -.446 | -.114 |
| GDP (US Billion Dollar) | .785 | .169 | -.254 | 1.000 | .032 | .197 | .105 | .685 |
| Elevation (Feet) | -.134 | -.041 | -.227 | .032 | 1.000 | -.142 | -.258 | .209 |
| Status of Women | .403 | .236 | -.619 | .197 | -.142 | 1.000 | .751 | -.054 |
| Democracy Index | .318 | .245 | -.446 | .105 | -.258 | .751 | 1.000 | -.144 |
| Population | .438 | .087 | -.114 | .685 | .209 | -.054 | -.144 | 1.000 |
| Sig. (1-tailed) | Swimming | . | .000 | .000 | .000 | .071 | .000 | .000 | .000 |
| Coastline (Km) (2018) | .000 | . | .000 | .032 | .329 | .005 | .003 | .170 |
| Temperature (1901-2016 [C]) | .000 | .000 | . | .002 | .006 | .000 | .000 | .107 |
| GDP (US Billion Dollar) | .000 | .032 | .002 | . | .365 | .015 | .126 | .000 |
| Elevation (Feet) | .071 | .329 | .006 | .365 | . | .061 | .002 | .011 |
| Status of Women | .000 | .005 | .000 | .015 | .061 | . | .000 | .280 |
| Democracy Index | .000 | .003 | .000 | .126 | .002 | .000 | . | .058 |
| Population | .000 | .170 | .107 | .000 | .011 | .280 | .058 | . |
| N | Swimming | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 |
| Coastline (Km) (2018) | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 |
| Temperature (1901-2016 [C]) | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 |
| GDP (US Billion Dollar) | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 |
| Elevation (Feet) | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 |
| Status of Women | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 |
| Democracy Index | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 |
| Population | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 |

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| **Model Summaryg** | | | | | |
| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | Durbin-Watson |
| 1 | .785a | .616 | .613 | 89.559368044578180 |  |
| 2 | .825b | .680 | .674 | 82.107709804022220 |  |
| 3 | .844c | .712 | .705 | 78.178084928832450 |  |
| 4 | .852d | .727 | .717 | 76.537564968445800 |  |
| 5 | .863e | .745 | .734 | 74.172587157439000 |  |
| 6 | .861f | .742 | .733 | 74.336763292436500 | 2.057 |
| a. Predictors: (Constant), GDP (US Billion Dollar) | | | | | |
| b. Predictors: (Constant), GDP (US Billion Dollar), Status of Women | | | | | |
| c. Predictors: (Constant), GDP (US Billion Dollar), Status of Women, Coastline (Km) (2018) | | | | | |
| d. Predictors: (Constant), GDP (US Billion Dollar), Status of Women, Coastline (Km) (2018), Elevation (Feet) | | | | | |
| e. Predictors: (Constant), GDP (US Billion Dollar), Status of Women, Coastline (Km) (2018), Elevation (Feet), Temperature (1901-2016 [C]) | | | | | |
| f. Predictors: (Constant), GDP (US Billion Dollar), Coastline (Km) (2018), Elevation (Feet), Temperature (1901-2016 [C]) | | | | | |
| g. Dependent Variable: Swimming | | | | | |

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| --- | --- | --- | --- | --- | --- | --- |
| **ANOVAa** | | | | | | |
| Model | | Sum of Squares | df | Mean Square | F | Sig. |
| 1 | Regression | 1530693.509 | 1 | 1530693.509 | 190.839 | .000b |
| Residual | 954484.768 | 119 | 8020.880 |  |  |
| Total | 2485178.277 | 120 |  |  |  |
| 2 | Regression | 1689660.508 | 2 | 844830.254 | 125.315 | .000c |
| Residual | 795517.769 | 118 | 6741.676 |  |  |
| Total | 2485178.277 | 120 |  |  |  |
| 3 | Regression | 1770096.160 | 3 | 590032.053 | 96.540 | .000d |
| Residual | 715082.117 | 117 | 6111.813 |  |  |
| Total | 2485178.277 | 120 |  |  |  |
| 4 | Regression | 1805650.410 | 4 | 451412.603 | 77.059 | .000e |
| Residual | 679527.867 | 116 | 5857.999 |  |  |
| Total | 2485178.277 | 120 |  |  |  |
| 5 | Regression | 1852497.418 | 5 | 370499.484 | 67.344 | .000f |
| Residual | 632680.859 | 115 | 5501.573 |  |  |
| Total | 2485178.277 | 120 |  |  |  |
| 6 | Regression | 1844167.569 | 4 | 461041.892 | 83.432 | .000g |
| Residual | 641010.708 | 116 | 5525.954 |  |  |
| Total | 2485178.277 | 120 |  |  |  |
| a. Dependent Variable: Swimming | | | | | | |
| b. Predictors: (Constant), GDP (US Billion Dollar) | | | | | | |
| c. Predictors: (Constant), GDP (US Billion Dollar), Status of Women | | | | | | |
| d. Predictors: (Constant), GDP (US Billion Dollar), Status of Women, Coastline (Km) (2018) | | | | | | |
| e. Predictors: (Constant), GDP (US Billion Dollar), Status of Women, Coastline (Km) (2018), Elevation (Feet) | | | | | | |
| f. Predictors: (Constant), GDP (US Billion Dollar), Status of Women, Coastline (Km) (2018), Elevation (Feet), Temperature (1901-2016 [C]) | | | | | | |
| g. Predictors: (Constant), GDP (US Billion Dollar), Coastline (Km) (2018), Elevation (Feet), Temperature (1901-2016 [C]) | | | | | | |

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| **Coefficientsa** | | | | | | | | |
| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. | Collinearity Statistics | |
| B | Std. Error | Beta | Tolerance | VIF |
| 1 | (Constant) | 41.951 | 8.443 |  | 4.969 | .000 |  |  |
| GDP (US Billion Dollar) | .047 | .003 | .785 | 13.814 | .000 | 1.000 | 1.000 |
| 2 | (Constant) | -220.654 | 54.631 |  | -4.039 | .000 |  |  |
| GDP (US Billion Dollar) | .044 | .003 | .734 | 13.816 | .000 | .961 | 1.040 |
| Status of Women | 363.256 | 74.807 | .258 | 4.856 | .000 | .961 | 1.040 |
| 3 | (Constant) | -186.248 | 52.874 |  | -3.522 | .001 |  |  |
| GDP (US Billion Dollar) | .042 | .003 | .710 | 13.922 | .000 | .945 | 1.058 |
| Status of Women | 307.810 | 72.848 | .219 | 4.225 | .000 | .919 | 1.088 |
| Coastline (Km) (2018) | .001 | .000 | .187 | 3.628 | .000 | .929 | 1.077 |
| 4 | (Constant) | -147.973 | 54.045 |  | -2.738 | .007 |  |  |
| GDP (US Billion Dollar) | .043 | .003 | .718 | 14.347 | .000 | .941 | 1.062 |
| Status of Women | 282.175 | 72.075 | .200 | 3.915 | .000 | .900 | 1.111 |
| Coastline (Km) (2018) | .001 | .000 | .185 | 3.667 | .000 | .928 | 1.077 |
| Elevation (Feet) | -.011 | .004 | -.121 | -2.464 | .015 | .976 | 1.025 |
| 5 | (Constant) | 50.108 | 85.738 |  | .584 | .560 |  |  |
| GDP (US Billion Dollar) | .042 | .003 | .700 | 14.318 | .000 | .926 | 1.079 |
| Status of Women | 111.972 | 90.999 | .080 | 1.230 | .221 | .530 | 1.887 |
| Coastline (Km) (2018) | .001 | .000 | .138 | 2.687 | .008 | .838 | 1.193 |
| Elevation (Feet) | -.016 | .005 | -.186 | -3.537 | .001 | .802 | 1.247 |
| Temperature (1901-2016 [C]) | -3.494 | 1.197 | -.204 | -2.918 | .004 | .453 | 2.206 |
| 6 | (Constant) | 152.104 | 21.958 |  | 6.927 | .000 |  |  |
| GDP (US Billion Dollar) | .042 | .003 | .703 | 14.365 | .000 | .929 | 1.077 |
| Coastline (Km) (2018) | .001 | .000 | .135 | 2.624 | .010 | .841 | 1.190 |
| Elevation (Feet) | -.019 | .004 | -.210 | -4.292 | .000 | .930 | 1.075 |
| Temperature (1901-2016 [C]) | -4.439 | .921 | -.259 | -4.819 | .000 | .770 | 1.300 |
| a. Dependent Variable: Swimming | | | | | | | | |

