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| Critical Values for the Durbin-Watson Statistic (d) | | | | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Level of Significance $\alpha = .05$ | | | | | | | | | | |
| <i>n</i> | <i>k</i> = 1 | | <i>k</i> = 2 | | <i>k</i> = 3 | | <i>k</i> = 4 | | <i>k</i> = 5 | |
| | <i>d</i> _L | <i>d</i> _U | <i>d</i> _L | <i>d</i> _U | <i>d</i> _L | <i>d</i> _U | <i>d</i> _L | <i>d</i> _U | <i>d</i> _L | <i>d</i> _U |
| 6 | 0.61 | 1.40 | | | | | | | | |
| 7 | 0.70 | 1.36 | 0.47 | 1.90 | | | | | | |
| 8 | 0.76 | 1.33 | 0.56 | 1.78 | 0.37 | 2.29 | | | | |
| 9 | 0.82 | 1.32 | 0.63 | 1.70 | 0.46 | 2.13 | 0.30 | 2.59 | | |
| 10 | 0.88 | 1.32 | 0.70 | 1.64 | 0.53 | 2.02 | 0.38 | 2.41 | 0.24 | 2.82 |
| 11 | 0.93 | 1.32 | 0.66 | 1.60 | 0.60 | 1.93 | 0.44 | 2.28 | 0.32 | 2.65 |
| 12 | 0.97 | 1.33 | 0.81 | 1.58 | 0.66 | 1.86 | 0.51 | 2.18 | 0.38 | 2.51 |
| 13 | 1.01 | 1.34 | 0.86 | 1.56 | 0.72 | 1.82 | 0.57 | 2.09 | 0.45 | 2.39 |
| 14 | 1.05 | 1.35 | 0.91 | 1.55 | 0.77 | 1.78 | 0.63 | 2.03 | 0.51 | 2.30 |
| 15 | 1.08 | 1.36 | 0.95 | 1.54 | 0.82 | 1.75 | 0.69 | 1.97 | 0.56 | 2.21 |
| 16 | 1.10 | 1.37 | 0.98 | 1.54 | 0.86 | 1.73 | 0.74 | 1.93 | 0.62 | 2.15 |
| 17 | 1.13 | 1.38 | 1.02 | 1.54 | 0.90 | 1.71 | 0.78 | 1.90 | 0.67 | 2.10 |
| 18 | 1.16 | 1.39 | 1.05 | 1.53 | 0.93 | 1.69 | 0.92 | 1.87 | 0.71 | 2.06 |
| 19 | 1.18 | 1.4 | 1.08 | 1.53 | 0.97 | 1.68 | 0.86 | 1.85 | 0.75 | 2.02 |
| 20 | 1.20 | 1.41 | 1.10 | 1.54 | 1.00 | 1.68 | 0.90 | 1.83 | 0.79 | 1.99 |
| 21 | 1.22 | 1.42 | 1.13 | 1.54 | 1.03 | 1.67 | 0.93 | 1.81 | 0.83 | 1.96 |
| 22 | 1.24 | 1.43 | 1.15 | 1.54 | 1.05 | 1.66 | 0.96 | 1.80 | 0.96 | 1.94 |
| 23 | 1.26 | 1.44 | 1.17 | 1.54 | 1.08 | 1.66 | 0.99 | 1.79 | 0.90 | 1.92 |
| 24 | 1.27 | 1.45 | 1.19 | 1.55 | 1.10 | 1.66 | 1.01 | 1.78 | 0.93 | 1.90 |
| 25 | 1.29 | 1.45 | 1.21 | 1.55 | 1.12 | 1.66 | 1.04 | 1.77 | 0.95 | 1.89 |
| 26 | 1.30 | 1.46 | 1.22 | 1.55 | 1.14 | 1.65 | 1.06 | 1.76 | 0.98 | 1.88 |
| 27 | 1.32 | 1.47 | 1.24 | 1.56 | 1.16 | 1.65 | 1.08 | 1.76 | 1.01 | 1.86 |
| 28 | 1.33 | 1.48 | 1.26 | 1.56 | 1.18 | 1.65 | 1.10 | 1.75 | 1.03 | 1.85 |
| 29 | 1.34 | 1.48 | 1.27 | 1.56 | 1.20 | 1.65 | 1.12 | 1.74 | 1.05 | 1.84 |
| 30 | 1.35 | 1.49 | 1.28 | 1.57 | 1.21 | 1.65 | 1.14 | 1.74 | 1.07 | 1.83 |
| | | | | | | | | | | |

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|------------|------|------|------|------|------|------|------|------|------|------|
| 31 | 1.36 | 1.50 | 1.30 | 1.57 | 1.23 | 1.65 | 1.16 | 1.74 | 1.09 | 1.83 |
| 32 | 1.37 | 1.50 | 1.31 | 1.57 | 1.24 | 1.65 | 1.18 | 1.73 | 1.11 | 1.82 |
| 33 | 1.38 | 1.51 | 1.32 | 1.58 | 1.26 | 1.65 | 1.19 | 1.73 | 1.13 | 1.81 |
| 34 | 1.39 | 1.51 | 1.33 | 1.58 | 1.27 | 1.65 | 1.21 | 1.73 | 1.15 | 1.81 |
| 35 | 1.40 | 1.52 | 1.34 | 1.58 | 1.28 | 1.65 | 1.22 | 1.73 | 1.16 | 1.80 |
| 36 | 1.41 | 1.52 | 1.35 | 1.59 | 1.29 | 1.65 | 1.24 | 1.73 | 1.18 | 1.80 |
| 37 | 1.42 | 1.53 | 1.36 | 1.59 | 1.31 | 1.66 | 1.25 | 1.72 | 1.19 | 1.80 |
| 38 | 1.43 | 1.54 | 1.37 | 1.59 | 1.32 | 1.66 | 1.26 | 1.72 | 1.21 | 1.79 |
| 39 | 1.43 | 1.54 | 1.38 | 1.60 | 1.33 | 1.66 | 1.27 | 1.72 | 1.22 | 1.79 |
| 40 | 1.44 | 1.54 | 1.39 | 1.60 | 1.34 | 1.66 | 1.29 | 1.72 | 1.23 | 1.79 |
| 45 | 1.48 | 1.57 | 1.43 | 1.62 | 1.38 | 1.67 | 1.34 | 1.72 | 1.29 | 1.78 |
| 50 | 1.50 | 1.59 | 1.46 | 1.63 | 1.42 | 1.67 | 1.38 | 1.72 | 1.34 | 1.77 |
| 55 | 1.53 | 1.60 | 1.49 | 1.64 | 1.45 | 1.68 | 1.41 | 1.72 | 1.38 | 1.77 |
| 60 | 1.55 | 1.62 | 1.51 | 1.65 | 1.48 | 1.69 | 1.44 | 1.73 | 1.41 | 1.77 |
| 65 | 1.57 | 1.63 | 1.54 | 1.66 | 1.50 | 1.70 | 1.47 | 1.73 | 1.44 | 1.77 |
| 70 | 1.58 | 1.64 | 1.55 | 1.67 | 1.52 | 1.70 | 1.49 | 1.74 | 1.46 | 1.77 |
| 75 | 1.60 | 1.65 | 1.57 | 1.68 | 1.54 | 1.71 | 1.51 | 1.74 | 1.49 | 1.77 |
| 80 | 1.61 | 1.66 | 1.59 | 1.69 | 1.56 | 1.72 | 1.53 | 1.74 | 1.51 | 1.77 |
| 85 | 1.62 | 1.67 | 1.60 | 1.70 | 1.57 | 1.72 | 1.55 | 1.75 | 1.52 | 1.77 |
| 90 | 1.63 | 1.68 | 1.61 | 1.70 | 1.59 | 1.73 | 1.57 | 1.75 | 1.54 | 1.78 |
| 95 | 1.64 | 1.69 | 1.62 | 1.71 | 1.60 | 1.73 | 1.58 | 1.75 | 1.56 | 1.78 |
| 100 | 1.65 | 1.69 | 1.63 | 1.72 | 1.61 | 1.74 | 1.59 | 1.76 | 1.57 | 1.78 |
| 150 | 1.72 | 1.75 | 1.71 | 1.76 | 1.69 | 1.77 | 1.68 | 1.79 | 1.66 | 1.80 |
| 200 | 1.76 | 1.78 | 1.75 | 1.79 | 1.74 | 1.80 | 1.73 | 1.81 | 1.72 | 1.82 |

Where n = number of observations and k = number of independent variables

| Critical Values for the Durbin-Watson Statistic (d) | | | | | | | | | | |
|---|---------|-------|---------|-------|---------|-------|---------|-------|----------|-------|
| Level of Significance $\alpha = .05$ | | | | | | | | | | |
| n | $k = 6$ | | $k = 7$ | | $k = 8$ | | $k = 9$ | | $k = 10$ | |
| | d_L | d_U | d_L | d_U | d_L | d_U | d_L | d_U | d_L | d_U |
| | | | | | | | | | | |

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|-----------|------|------|------|------|------|------|------|------|------|------|
| 11 | 0.20 | 3.01 | | | | | | | | |
| 12 | 0.27 | 2.83 | 0.17 | 3.15 | | | | | | |
| 13 | 0.33 | 2.70 | 0.23 | 2.99 | 0.15 | 3.27 | | | | |
| 14 | 0.39 | 2.57 | 0.29 | 2.85 | 0.20 | 3.11 | 0.13 | 3.36 | | |
| 15 | 0.45 | 2.47 | 0.34 | 2.73 | 0.25 | 2.98 | 0.18 | 3.22 | 0.11 | 3.44 |
| 16 | 0.50 | 2.39 | 0.40 | 2.62 | 0.30 | 2.86 | 0.22 | 3.09 | 0.16 | 3.30 |
| 17 | 0.55 | 2.32 | 0.45 | 2.54 | 0.36 | 2.76 | 0.27 | 2.98 | 0.20 | 3.18 |
| 18 | 0.60 | 2.26 | 0.50 | 2.47 | 0.41 | 2.67 | 0.32 | 2.87 | 0.24 | 3.07 |
| 19 | 0.65 | 2.21 | 0.55 | 2.40 | 0.46 | 2.59 | 0.37 | 2.78 | 0.29 | 2.97 |
| 20 | 0.69 | 2.16 | 0.60 | 2.34 | 0.50 | 2.52 | 0.42 | 2.70 | 0.34 | 2.89 |
| 21 | 0.73 | 2.12 | 0.64 | 2.30 | 0.55 | 2.46 | 0.46 | 2.63 | 0.38 | 2.81 |
| 22 | 0.77 | 2.09 | 0.68 | 2.25 | 0.59 | 2.41 | 0.51 | 2.57 | 0.42 | 2.73 |
| 23 | 0.80 | 2.06 | 0.72 | 2.21 | 0.63 | 2.36 | 0.55 | 2.51 | 0.47 | 2.67 |
| 24 | 0.84 | 2.04 | 0.75 | 2.17 | 0.67 | 2.32 | 0.58 | 2.46 | 0.51 | 2.61 |
| 25 | 0.87 | 2.01 | 0.78 | 2.14 | 0.70 | 2.28 | 0.62 | 2.42 | 0.54 | 2.56 |
| 26 | 0.90 | 1.99 | 0.82 | 2.12 | 0.74 | 2.24 | 0.66 | 2.38 | 0.58 | 2.51 |
| 27 | 0.93 | 1.97 | 0.85 | 2.09 | 0.77 | 2.22 | 0.69 | 2.34 | 0.62 | 2.47 |
| 28 | 0.95 | 1.96 | 0.87 | 2.07 | 0.80 | 2.19 | 0.72 | 2.31 | 0.65 | 2.43 |
| 29 | 0.98 | 1.94 | 0.90 | 2.05 | 0.83 | 2.16 | 0.75 | 2.28 | 0.68 | 2.40 |
| 30 | 1.00 | 1.93 | 0.93 | 2.03 | 0.85 | 2.14 | 0.78 | 2.25 | 0.71 | 2.36 |
| 31 | 1.02 | 1.92 | 0.95 | 2.02 | 0.88 | 2.12 | 0.81 | 2.23 | 0.74 | 2.33 |
| 32 | 1.04 | 1.91 | 0.97 | 2.00 | 0.90 | 2.10 | 0.84 | 2.20 | 0.77 | 2.31 |
| 33 | 1.06 | 1.90 | 0.99 | 1.99 | 0.93 | 2.09 | 0.86 | 2.18 | 0.80 | 2.28 |
| 34 | 1.08 | 1.89 | 1.02 | 1.98 | 0.95 | 2.07 | 0.89 | 2.16 | 0.82 | 2.26 |
| 35 | 1.10 | 1.88 | 1.03 | 1.97 | 0.97 | 2.05 | 0.91 | 2.14 | 0.85 | 2.24 |
| 36 | 1.11 | 1.88 | 1.05 | 1.96 | 0.99 | 2.04 | 0.93 | 2.13 | 0.87 | 2.22 |
| 37 | 1.13 | 1.87 | 1.07 | 1.95 | 1.01 | 2.03 | 0.95 | 2.11 | 0.89 | 2.20 |
| 38 | 1.50 | 1.86 | 1.09 | 1.94 | 1.03 | 2.02 | 0.97 | 2.10 | 0.91 | 2.18 |
| 39 | 1.16 | 1.86 | 1.10 | 1.93 | 1.05 | 2.01 | 0.99 | 2.09 | 0.93 | 2.16 |
| 40 | 1.18 | 1.85 | 1.12 | 1.92 | 1.06 | 2.00 | 1.01 | 2.07 | 0.95 | 2.15 |
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| | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|
| 45 | 1.24 | 1.84 | 1.19 | 1.90 | 1.14 | 1.96 | 1.09 | 2.02 | 1.04 | 2.09 |
| 50 | 1.29 | 1.82 | 1.25 | 1.88 | 1.20 | 1.93 | 1.16 | 1.99 | 1.11 | 2.04 |
| 55 | 1.33 | 1.81 | 1.29 | 1.86 | 1.25 | 1.91 | 1.21 | 1.96 | 1.17 | 2.01 |
| 60 | 1.37 | 1.81 | 1.34 | 1.85 | 1.30 | 1.89 | 1.26 | 1.94 | 1.22 | 1.98 |
| 65 | 1.40 | 1.81 | 1.37 | 1.84 | 1.34 | 1.88 | 1.30 | 1.92 | 1.27 | 1.96 |
| 70 | 1.43 | 1.80 | 1.40 | 1.84 | 1.37 | 1.87 | 1.34 | 1.91 | 1.31 | 1.95 |
| 75 | 1.46 | 1.80 | 1.43 | 1.83 | 1.40 | 1.87 | 1.37 | 1.90 | 1.34 | 1.94 |
| 80 | 1.48 | 1.80 | 1.45 | 1.83 | 1.43 | 1.86 | 1.40 | 1.89 | 1.37 | 1.93 |
| 85 | 1.50 | 1.80 | 1.47 | 1.83 | 1.49 | 1.86 | 1.42 | 1.89 | 1.40 | 1.92 |
| 90 | 1.52 | 1.80 | 1.49 | 1.83 | 1.47 | 1.85 | 1.45 | 1.88 | 1.42 | 1.91 |
| 95 | 1.54 | 1.80 | 1.51 | 1.83 | 1.49 | 1.85 | 1.46 | 1.88 | 1.44 | 1.90 |
| 100 | 1.55 | 1.80 | 1.53 | 1.83 | 1.50 | 1.85 | 1.48 | 1.87 | 1.46 | 1.90 |
| 150 | 1.65 | 1.82 | 1.64 | 1.83 | 1.62 | 1.85 | 1.60 | 1.86 | 1.59 | 1.88 |
| 200 | 1.71 | 1.83 | 1.70 | 1.84 | 1.69 | 1.85 | 1.68 | 1.86 | 1.67 | 1.87 |

Where n = number of observations and k = number of independent variables