Linear Model 2: BMI

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Loading in the data:

Crude:

##   
## Call:  
## lm(formula = bmi ~ fuel\_used\_for\_cooking\_percent\_wood\_dung +   
## percent\_public\_source + percent\_private\_toilet + percent\_employed +   
## percent\_without\_hs\_education + percent\_caste, data = total)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -3.2216 -0.9122 0.1088 0.9730 3.2519   
##   
## Coefficients:  
## Estimate Std. Error t value  
## (Intercept) 29.372806 0.871821 33.691  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 4.650046 2.907378 1.599  
## percent\_public\_source -0.014349 0.012885 -1.114  
## percent\_private\_toilet 0.006950 0.003288 2.114  
## percent\_employed -5.941757 1.773671 -3.350  
## percent\_without\_hs\_education -7.539730 0.843666 -8.937  
## percent\_caste 0.006112 0.014875 0.411  
## Pr(>|t|)   
## (Intercept) < 2e-16 \*\*\*  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 0.11222   
## percent\_public\_source 0.26752   
## percent\_private\_toilet 0.03647 \*   
## percent\_employed 0.00106 \*\*   
## percent\_without\_hs\_education 3.94e-15 \*\*\*  
## percent\_caste 0.68185   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 1.465 on 127 degrees of freedom  
## Multiple R-squared: 0.5966, Adjusted R-squared: 0.5775   
## F-statistic: 31.3 on 6 and 127 DF, p-value: < 2.2e-16

## Estimate Std. Error  
## (Intercept) 29.372805864 0.871820727  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 4.650045739 2.907378010  
## percent\_public\_source -0.014349199 0.012884605  
## percent\_private\_toilet 0.006950240 0.003287663  
## percent\_employed -5.941757261 1.773671068  
## percent\_without\_hs\_education -7.539729813 0.843665813  
## percent\_caste 0.006112094 0.014875423  
## t value Pr(>|t|)  
## (Intercept) 33.6913369 3.497712e-65  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 1.5993950 1.122177e-01  
## percent\_public\_source -1.1136701 2.675241e-01  
## percent\_private\_toilet 2.1140369 3.646757e-02  
## percent\_employed -3.3499770 1.064452e-03  
## percent\_without\_hs\_education -8.9368678 3.941916e-15  
## percent\_caste 0.4108854 6.818490e-01

## (Intercept)   
## 29.372805864   
## fuel\_used\_for\_cooking\_percent\_wood\_dung   
## 4.650045739   
## percent\_public\_source   
## -0.014349199   
## percent\_private\_toilet   
## 0.006950240   
## percent\_employed   
## -5.941757261   
## percent\_without\_hs\_education   
## -7.539729813   
## percent\_caste   
## 0.006112094

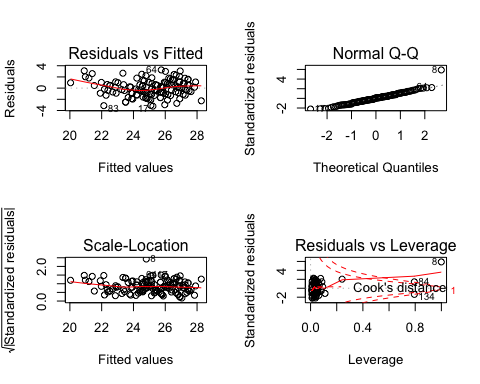
## 1 2 3 4 5 6 7 8   
## 26.65537 25.73986 24.56446 25.72230 25.31174 24.20289 22.87703 24.80557   
## 9 10 11 12 13 14 15 16   
## 23.33517 24.21287 22.86258 25.05526 24.40507 25.09293 26.91137 21.53903   
## 17 18 19 20 21 22 23 24   
## 25.22158 24.22949 22.91016 25.13495 20.90412 24.98058 23.37974 24.30462   
## 25 26 27 28 29 30 31 32   
## 24.66254 23.82928 25.96889 25.47413 21.98021 24.58968 25.08688 25.89220   
## 33 34 35 36 37 38 39 40   
## 26.33089 24.85747 25.13864 27.25716 26.90705 26.22021 26.13917 22.35177   
## 41 42 43 44 45 46 47 48   
## 28.26748 27.43980 27.42705 26.38750 26.92907 25.76182 26.52898 27.23842   
## 49 50 51 52 53 54 55 56   
## 27.40984 26.68728 26.93883 26.80945 27.62122 25.81083 25.94355 24.97843   
## 57 58 59 60 61 62 63 64   
## 25.69730 24.86552 23.49884 24.59443 21.40742 24.78364 26.90287 25.74809   
## 65 66 67 68 69 70 71 72   
## 24.59194 23.51432 23.43392 23.95520 23.76582 22.27641 26.82687 26.23397   
## 73 74 75 76 77 78 79 80   
## 27.04500 20.97455 25.78781 25.15691 22.51648 22.51790 26.01149 26.44865   
## 81 82 83 84 85 86 87 88   
## 27.90694 27.83967 22.13478 20.04340 24.76968 24.52464 22.69694 24.15274   
## 89 90 91 92 93 94 95 96   
## 23.88911 23.66849 26.90357 27.13995 24.49135 23.02033 25.16927 25.69894   
## 97 98 99 100 101 102 103 104   
## 27.12595 26.01695 22.17716 27.35730 21.19828 27.51008 26.40045 25.69912   
## 105 106 107 108 109 110 111 112   
## 26.64838 27.49875 25.48828 26.78769 25.40460 26.55673 24.68278 24.84081   
## 113 114 115 116 117 118 119 120   
## 23.84690 22.39042 25.87543 26.02150 26.32537 27.19013 26.89785 26.50012   
## 121 122 123 124 125 126 127 128   
## 25.31043 26.72489 24.60322 23.92412 27.26072 24.76091 23.27359 24.40096   
## 129 130 131 132 133 134   
## 26.13969 25.38809 25.50864 25.35756 26.16364 21.91294

## # A tibble: 1 x 11  
## r.squared adj.r.squared sigma statistic p.value df logLik AIC BIC  
## <dbl> <dbl> <dbl> <dbl> <dbl> <int> <dbl> <dbl> <dbl>  
## 1 0.597 0.577 1.46 31.3 7.12e-23 7 -238. 491. 515.  
## # … with 2 more variables: deviance <dbl>, df.residual <int>

|  |  |  |
| --- | --- | --- |
| term | estimate | p.value |
| (Intercept) | 29.373 | 0.000 |
| fuel\_used\_for\_cooking\_percent\_wood\_dung | 4.650 | 0.112 |
| percent\_public\_source | -0.014 | 0.268 |
| percent\_private\_toilet | 0.007 | 0.036 |
| percent\_employed | -5.942 | 0.001 |
| percent\_without\_hs\_education | -7.540 | 0.000 |
| percent\_caste | 0.006 | 0.682 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| bmi | fuel\_used\_for\_cooking\_percent\_wood\_dung | percent\_public\_source | percent\_private\_toilet | percent\_employed | percent\_without\_hs\_education | percent\_caste | .fitted | .se.fit | .resid | .hat | .sigma | .cooksd | .std.resid |
| 26 | 0.0000000 | 0.0270270 | 100.0000000 | 0.5405405 | 0.0270270 | 0.5675676 | 26.65537 | 0.2909517 | -0.6553739 | 0.0394593 | 1.469285 | 0.0012232 | -0.4565467 |
| 26 | 0.0000000 | 0.0789474 | 0.7368421 | 0.5789474 | 0.0263158 | 0.2368421 | 25.73986 | 0.3005860 | 0.2601368 | 0.0421158 | 1.470301 | 0.0002068 | 0.1814677 |
| 25 | 0.0277778 | 0.0555556 | 0.4722222 | 0.4444444 | 0.3055556 | 0.7500000 | 24.56446 | 0.1923059 | 0.4355446 | 0.0172382 | 1.469971 | 0.0002255 | 0.2999594 |
| 26 | 0.0000000 | 0.1538462 | 0.7692308 | 0.6153846 | 0.0000000 | 0.4615385 | 25.72230 | 0.3592425 | 0.2777004 | 0.0601566 | 1.470270 | 0.0003497 | 0.1955702 |
| 24 | 0.0277778 | 0.1944444 | 0.8333333 | 0.3888889 | 0.2500000 | 0.3888889 | 25.31174 | 0.2511128 | -1.3117366 | 0.0293931 | 1.465700 | 0.0035749 | -0.9090315 |
| 23 | 0.0000000 | 0.3076923 | 0.7435897 | 0.5128205 | 0.2820513 | 0.4871795 | 24.20289 | 0.1590767 | -1.2028911 | 0.0117956 | 1.466535 | 0.0011638 | -0.8261462 |
| 24 | 0.0000000 | 0.1351351 | 0.5405405 | 0.6486486 | 0.3513514 | 0.9189189 | 22.87703 | 0.3122101 | 1.1229669 | 0.0454362 | 1.466922 | 0.0041873 | 0.7847267 |
| 25 | 0.0526316 | 0.3947368 | 0.9473684 | 0.5789474 | 0.2631579 | 100.0000000 | 24.80557 | 1.4643192 | 0.1944293 | 0.9994924 | 1.253533 | 9763.0375380 | 5.8916068 |
| 26 | 0.0000000 | 0.2777778 | 0.3611111 | 0.4166667 | 0.4722222 | 0.0000000 | 23.33517 | 0.3003787 | 2.6648304 | 0.0420578 | 1.450349 | 0.0216729 | 1.8588909 |
| 26 | 0.0000000 | 0.1500000 | 0.8500000 | 0.4250000 | 0.3500000 | 0.0750000 | 24.21287 | 0.2255079 | 1.7871327 | 0.0237045 | 1.461637 | 0.0052892 | 1.2348669 |
| 23 | 0.0000000 | 0.1071429 | 0.9285714 | 0.6666667 | 0.3392857 | 0.6785714 | 22.86258 | 0.3384519 | 0.1374244 | 0.0533952 | 1.470438 | 0.0000749 | 0.0964347 |
| 24 | 0.0000000 | 0.0344828 | 0.9137931 | 0.4655172 | 0.2068966 | 0.4137931 | 25.05526 | 0.1611877 | -1.0552567 | 0.0121108 | 1.467447 | 0.0009202 | -0.7248664 |
| 24 | 0.0000000 | 0.3818182 | 0.8000000 | 0.4909091 | 0.2727273 | 0.8727273 | 24.40507 | 0.1551335 | -0.4050689 | 0.0112181 | 1.470044 | 0.0001254 | -0.2781202 |
| 22 | 0.0000000 | 0.1636364 | 0.8909091 | 0.4909091 | 0.1818182 | 0.6545455 | 25.09293 | 0.1602273 | -3.0929279 | 0.0119669 | 1.444128 | 0.0078089 | -2.1244085 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4545455 | 0.0606061 | 0.2121212 | 26.91137 | 0.2479961 | -1.9113743 | 0.0286680 | 1.460307 | 0.0073920 | -1.3240850 |
| 22 | 0.0263158 | 0.8684211 | 0.1315789 | 0.7368421 | 0.4736842 | 0.8157895 | 21.53903 | 0.4462411 | 0.4609729 | 0.0928212 | 1.469860 | 0.0015960 | 0.3304326 |
| 22 | 0.0000000 | 0.2702703 | 0.7837838 | 0.4594595 | 0.1891892 | 0.5945946 | 25.22158 | 0.1667952 | -3.2215775 | 0.0129681 | 1.441837 | 0.0091994 | -2.2138947 |
| 23 | 0.1025641 | 0.0256410 | 0.9487179 | 0.5897436 | 0.2820513 | 0.6923077 | 24.22949 | 0.3227934 | -1.2294873 | 0.0485688 | 1.466198 | 0.0054008 | -0.8605762 |
| 22 | 0.0000000 | 0.2105263 | 0.9473684 | 0.4210526 | 0.5263158 | 0.6315789 | 22.91016 | 0.3315732 | -0.9101583 | 0.0512468 | 1.468134 | 0.0031405 | -0.6379612 |
| 25 | 0.0000000 | 0.0263158 | 0.8947368 | 0.4473684 | 0.2105263 | 0.2894737 | 25.13495 | 0.1725573 | -0.1349501 | 0.0138795 | 1.470442 | 0.0000173 | -0.0927817 |
| 24 | 0.0540541 | 0.7837838 | 0.5675676 | 0.5405405 | 0.7297297 | 0.1621622 | 20.90412 | 0.4057243 | 3.0958768 | 0.0767309 | 1.442206 | 0.0574501 | 2.1997509 |
| 26 | 0.0000000 | 0.1500000 | 0.9000000 | 0.5500000 | 0.1500000 | 0.4250000 | 24.98058 | 0.2059082 | 1.0194196 | 0.0197631 | 1.467628 | 0.0014233 | 0.7029775 |
| 24 | 0.0000000 | 0.6923077 | 0.6666667 | 0.4871795 | 0.4102564 | 0.0256410 | 23.37974 | 0.2108525 | 0.6202627 | 0.0207236 | 1.469431 | 0.0005536 | 0.4279342 |
| 24 | 0.0000000 | 0.8461538 | 0.6923077 | 0.4615385 | 0.3076923 | 0.2307692 | 24.30462 | 0.1759630 | -0.3046201 | 0.0144328 | 1.470238 | 0.0000918 | -0.2094929 |
| 24 | 0.0000000 | 0.5365854 | 0.6585366 | 0.3902439 | 0.3170732 | 0.3658537 | 24.66254 | 0.2557704 | -0.6625388 | 0.0304936 | 1.469269 | 0.0009483 | -0.4593989 |
| 24 | 0.0769231 | 0.3333333 | 0.7179487 | 0.5384615 | 0.3589744 | 0.7435897 | 23.82928 | 0.2375443 | 0.1707240 | 0.0263025 | 1.470411 | 0.0000538 | 0.1181236 |
| 23 | 0.0000000 | 0.4102564 | 0.7179487 | 0.4102564 | 0.1282051 | 0.2051282 | 25.96889 | 0.2205326 | -2.9688867 | 0.0226701 | 1.445949 | 0.0139306 | -2.0503453 |
| 25 | 0.0000000 | 0.1538462 | 0.7948718 | 0.4615385 | 0.1538462 | 0.0512821 | 25.47413 | 0.1743619 | -0.4741283 | 0.0141713 | 1.469876 | 0.0002183 | -0.3260237 |
| 23 | 0.0000000 | 0.9250000 | 0.8250000 | 0.4500000 | 0.6250000 | 0.1750000 | 21.98021 | 0.3787117 | 1.0197855 | 0.0668537 | 1.467481 | 0.0053168 | 0.7207555 |
| 25 | 0.0000000 | 0.2307692 | 0.8974359 | 0.5128205 | 0.2307692 | 0.1538462 | 24.58968 | 0.1576913 | 0.4103204 | 0.0115911 | 1.470032 | 0.0001330 | 0.2817791 |
| 23 | 0.0000000 | 0.1750000 | 0.7750000 | 0.5000000 | 0.1750000 | 0.2500000 | 25.08688 | 0.1642235 | -2.0868779 | 0.0125713 | 1.458541 | 0.0037391 | -1.4338316 |
| 25 | 0.0000000 | 0.1025641 | 0.7948718 | 0.3589744 | 0.1794872 | 0.2564103 | 25.89220 | 0.2789479 | -0.8922026 | 0.0362705 | 1.468261 | 0.0020700 | -0.6204973 |
| 25 | 0.0000000 | 0.0270270 | 100.0000000 | 0.5945946 | 0.0270270 | 0.0270270 | 26.33089 | 0.3503664 | -1.3308940 | 0.0572207 | 1.465413 | 0.0075933 | -0.9358202 |
| 23 | 0.0263158 | 0.4736842 | 0.9210526 | 0.4473684 | 0.2631579 | 0.8157895 | 24.85747 | 0.1800326 | -1.8574722 | 0.0151081 | 1.461008 | 0.0035784 | -1.2778564 |
| 24 | 0.0256410 | 0.2307692 | 0.9743590 | 0.5384615 | 0.1538462 | 0.4102564 | 25.13864 | 0.1987809 | -1.1386398 | 0.0184186 | 1.466923 | 0.0016504 | -0.7846522 |
| 26 | 0.0000000 | 0.0188679 | 100.0000000 | 0.3773585 | 0.0754717 | 0.1320755 | 27.25716 | 0.2887047 | -1.2571576 | 0.0388522 | 1.466048 | 0.0044261 | -0.8754848 |
| 27 | 0.0000000 | 0.0526316 | 0.9473684 | 0.3157895 | 0.0789474 | 0.0000000 | 26.90705 | 0.3517531 | 0.0929511 | 0.0576745 | 1.470467 | 0.0000374 | 0.0653745 |
| 28 | 0.0000000 | 0.0000000 | 0.9750000 | 0.5000000 | 0.0250000 | 0.0000000 | 26.22021 | 0.2399390 | 1.7797895 | 0.0268355 | 1.461682 | 0.0059770 | 1.2317697 |
| 27 | 0.0000000 | 0.0769231 | 0.8846154 | 0.4230769 | 0.0961538 | 0.0192308 | 26.13917 | 0.2184379 | 0.8608265 | 0.0222415 | 1.468445 | 0.0011480 | 0.5943658 |
| 23 | 0.0000000 | 0.8285714 | 0.0285714 | 0.6000000 | 0.4571429 | 0.4000000 | 22.35177 | 0.2804787 | 0.6482280 | 0.0366697 | 1.469314 | 0.0011057 | 0.4509145 |
| 26 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3030303 | 0.0000000 | 0.0303030 | 28.26748 | 0.3680794 | -2.2674826 | 0.0631525 | 1.455606 | 0.0246349 | -1.5994236 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4000000 | 0.0333333 | 0.0000000 | 27.43980 | 0.2686215 | 1.5601974 | 0.0336348 | 1.463678 | 0.0058382 | 1.0835848 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4444444 | 0.0000000 | 0.0000000 | 27.42705 | 0.2539650 | 1.5729512 | 0.0300646 | 1.463592 | 0.0052651 | 1.0904301 |
| 26 | 0.0000000 | 0.0263158 | 100.0000000 | 0.5526316 | 0.0526316 | 0.0789474 | 26.38750 | 0.2989799 | -0.3875042 | 0.0416670 | 1.470069 | 0.0004537 | -0.2702540 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3947368 | 0.1052632 | 0.0526316 | 26.92907 | 0.2782265 | 0.0709347 | 0.0360832 | 1.470478 | 0.0000130 | 0.0493280 |
| 25 | 0.0000000 | 0.0000000 | 0.9666667 | 0.5666667 | 0.0333333 | 0.1000000 | 25.76182 | 0.2830188 | -0.7618155 | 0.0373369 | 1.468864 | 0.0015570 | -0.5301108 |
| 28 | 0.0400000 | 0.0000000 | 100.0000000 | 0.5000000 | 0.1000000 | 0.0000000 | 26.52898 | 0.2718899 | 1.4710199 | 0.0344583 | 1.464431 | 0.0053260 | 1.0220850 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4761905 | 0.0000000 | 0.0000000 | 27.23842 | 0.2566350 | 1.7615784 | 0.0307001 | 1.461827 | 0.0067521 | 1.2215939 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4473684 | 0.0000000 | 0.0263158 | 27.40984 | 0.2536902 | 0.5901639 | 0.0299996 | 1.469523 | 0.0007395 | 0.4091105 |
| 29 | 0.0000000 | 0.0000000 | 0.9855072 | 0.4347826 | 0.0144928 | 0.0434783 | 26.68728 | 0.2502119 | 2.3127230 | 0.0291826 | 1.455548 | 0.0110282 | 1.6025398 |
| 30 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4615385 | 0.0512821 | 0.0000000 | 26.93883 | 0.2481193 | 3.0611725 | 0.0286965 | 1.444222 | 0.0189804 | 2.1206271 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5483871 | 0.0000000 | 0.0000000 | 26.80945 | 0.3042528 | 0.1905532 | 0.0431496 | 1.470389 | 0.0001140 | 0.1329989 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4117647 | 0.0000000 | 0.0000000 | 27.62122 | 0.2640422 | -0.6212239 | 0.0324978 | 1.469415 | 0.0008922 | -0.4311975 |
| 26 | 0.0000000 | 0.1304348 | 0.8695652 | 0.4347826 | 0.1304348 | 0.1086957 | 25.81083 | 0.1973986 | 0.1891735 | 0.0181633 | 1.470393 | 0.0000449 | 0.1303451 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5641026 | 0.1025641 | 0.1282051 | 25.94355 | 0.3072835 | 1.0564527 | 0.0440136 | 1.467338 | 0.0035793 | 0.7376973 |
| 23 | 0.0000000 | 0.1315789 | 0.9736842 | 0.4736842 | 0.2105263 | 0.4210526 | 24.97843 | 0.1574128 | -1.9784305 | 0.0115502 | 1.459766 | 0.0030813 | -1.3586183 |
| 24 | 0.0000000 | 0.0500000 | 0.9500000 | 0.5250000 | 0.0750000 | 0.5750000 | 25.69730 | 0.2213967 | -1.6973033 | 0.0228481 | 1.462514 | 0.0045904 | -1.1722828 |
| 24 | 0.0000000 | 0.0243902 | 0.8536585 | 0.5121951 | 0.1951220 | 0.2682927 | 24.86552 | 0.1629175 | -0.8655230 | 0.0123721 | 1.468443 | 0.0006327 | -0.5946151 |
| 21 | 0.0000000 | 0.4594595 | 0.4324324 | 0.4054054 | 0.4594595 | 0.4324324 | 23.49884 | 0.3046449 | -2.4988409 | 0.0432609 | 1.452773 | 0.0196515 | -1.7441982 |
| 24 | 0.0000000 | 0.0512821 | 0.8717949 | 0.5128205 | 0.2307692 | 0.5384615 | 24.59443 | 0.1571287 | -0.5944277 | 0.0115085 | 1.469527 | 0.0002771 | -0.4081939 |
| 24 | 0.2549020 | 0.3421053 | 0.7894737 | 0.6052632 | 0.7368421 | 0.1052632 | 21.40742 | 0.7192531 | 2.5925840 | 0.2411412 | 1.446392 | 0.1874240 | 2.0319188 |
| 27 | 0.0000000 | 0.1538462 | 0.8974359 | 0.5128205 | 0.2051282 | 0.0769231 | 24.78364 | 0.1613646 | 2.2163604 | 0.0121374 | 1.457011 | 0.0040684 | 1.5224607 |
| 28 | 0.0000000 | 0.0000000 | 0.8333333 | 0.4166667 | 0.0000000 | 0.0000000 | 26.90287 | 0.2686492 | 1.0971345 | 0.0336418 | 1.467127 | 0.0028876 | 0.7619821 |
| 29 | 0.0000000 | 0.0000000 | 0.9729730 | 0.4054054 | 0.1621622 | 0.0000000 | 25.74809 | 0.2186711 | 3.2519111 | 0.0222890 | 1.441008 | 0.0164194 | 2.2453674 |
| 26 | 0.0000000 | 0.2666667 | 0.8000000 | 0.4666667 | 0.2666667 | 0.1333333 | 24.59194 | 0.1628526 | 1.4080601 | 0.0123622 | 1.465064 | 0.0016732 | 0.9673338 |
| 21 | 0.0256410 | 0.0512821 | 0.8974359 | 0.4871795 | 0.4102564 | 0.7692308 | 23.51432 | 0.2010488 | -2.5143162 | 0.0188413 | 1.453000 | 0.0082391 | -1.7330227 |
| 23 | 0.0500000 | 0.2500000 | 0.7000000 | 0.5000000 | 0.4250000 | 0.4250000 | 23.43392 | 0.2172842 | -0.4339199 | 0.0220072 | 1.469972 | 0.0002885 | -0.2995682 |
| 22 | 0.0000000 | 0.2500000 | 0.6500000 | 0.5000000 | 0.3250000 | 0.4500000 | 23.95520 | 0.1680205 | -1.9551958 | 0.0131593 | 1.460001 | 0.0034398 | -1.3437570 |
| 24 | 0.0000000 | 0.1351351 | 0.8918919 | 0.5675676 | 0.2972973 | 0.4324324 | 23.76582 | 0.2013135 | 0.2341813 | 0.0188910 | 1.470341 | 0.0000717 | 0.1614164 |
| 21 | 0.0000000 | 0.2500000 | 0.8888889 | 0.6666667 | 0.4166667 | 0.6111111 | 22.27641 | 0.3490038 | -1.2764061 | 0.0567765 | 1.465823 | 0.0069235 | -0.8972956 |
| 26 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5454545 | 0.0000000 | 0.0000000 | 26.82687 | 0.3014066 | -0.8268713 | 0.0423461 | 1.468564 | 0.0021022 | -0.5768829 |
| 27 | 0.0000000 | 0.0000000 | 0.9607843 | 0.5294118 | 0.0000000 | 0.0196078 | 26.23397 | 0.2720650 | 0.7660328 | 0.0345027 | 1.468851 | 0.0014463 | 0.5322624 |
| 27 | 0.0000000 | 0.0000000 | 0.9285714 | 0.3928571 | 0.0000000 | 0.0000000 | 27.04500 | 0.2861340 | -0.0449979 | 0.0381634 | 1.470486 | 0.0000056 | -0.0313253 |
| 23 | 0.0975610 | 0.3414634 | 0.2439024 | 0.5609756 | 0.7317073 | 0.2195122 | 20.97455 | 0.4301286 | 2.0254504 | 0.0862392 | 1.458326 | 0.0282158 | 1.4466362 |
| 26 | 0.0000000 | 0.0000000 | 0.9333333 | 0.5833333 | 0.0166667 | 0.0333333 | 25.78781 | 0.3112155 | 0.2121907 | 0.0451472 | 1.470365 | 0.0001485 | 0.1482560 |
| 27 | 0.0000000 | 0.0750000 | 0.9000000 | 0.4250000 | 0.2250000 | 0.1000000 | 25.15691 | 0.1936649 | 1.8430899 | 0.0174827 | 1.461132 | 0.0040967 | 1.2694933 |
| 23 | 0.0000000 | 0.5263158 | 0.5789474 | 0.5526316 | 0.4736842 | 0.3684211 | 22.51648 | 0.2544334 | 0.4835244 | 0.0301756 | 1.469841 | 0.0004995 | 0.3352168 |
| 23 | 0.0000000 | 0.6000000 | 0.3500000 | 0.5500000 | 0.4750000 | 0.1000000 | 22.51790 | 0.2541991 | 0.4820980 | 0.0301201 | 1.469845 | 0.0004956 | 0.3342184 |
| 29 | 0.0000000 | 0.0263158 | 0.9736842 | 0.5000000 | 0.0526316 | 0.0000000 | 26.01149 | 0.2225662 | 2.9885109 | 0.0230901 | 1.445610 | 0.0143892 | 2.0643417 |
| 28 | 0.0256410 | 0.0000000 | 100.0000000 | 0.5641026 | 0.0512821 | 0.0000000 | 26.44865 | 0.3125785 | 1.5513515 | 0.0455435 | 1.463671 | 0.0080121 | 1.0841419 |
| 29 | 0.0000000 | 0.0303030 | 100.0000000 | 0.3636364 | 0.0000000 | 0.0303030 | 27.90694 | 0.2994300 | 1.0930588 | 0.0417925 | 1.467123 | 0.0036214 | 0.7623734 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3750000 | 0.0000000 | 0.0000000 | 27.83967 | 0.2891758 | 0.1603291 | 0.0389791 | 1.470420 | 0.0000722 | 0.1116606 |
| 19 | 0.0000000 | 0.9750000 | 0.0000000 | 0.5500000 | 0.5250000 | 0.3750000 | 22.13478 | 0.2844698 | -3.1347828 | 0.0377207 | 1.442670 | 0.0266565 | -2.1817796 |
| 21 | 0.0000000 | 100.0000000 | 0.0000000 | 0.5405405 | 0.6216216 | 0.6756757 | 20.04340 | 1.3044517 | 0.9566040 | 0.7931658 | 1.458504 | 1.1297796 | 1.4360681 |
| 24 | 0.0000000 | 0.2931034 | 0.6896552 | 0.5344828 | 0.1896552 | 0.3275862 | 24.76968 | 0.1789007 | -0.7696800 | 0.0149187 | 1.468868 | 0.0006065 | -0.5294539 |
| 27 | 0.0000000 | 0.0000000 | 0.9148936 | 0.5744681 | 0.1914894 | 0.4255319 | 24.52464 | 0.2194785 | 2.4753625 | 0.0224539 | 1.453478 | 0.0095875 | 1.7093231 |
| 22 | 0.0000000 | 0.1666667 | 0.8333333 | 0.6666667 | 0.3611111 | 0.7500000 | 22.69694 | 0.3400737 | -0.6969386 | 0.0539081 | 1.469106 | 0.0019480 | -0.4891948 |
| 24 | 0.0000000 | 0.0000000 | 0.7068966 | 0.5517241 | 0.2586207 | 0.5172414 | 24.15274 | 0.1836569 | -0.1527394 | 0.0157225 | 1.470428 | 0.0000252 | -0.1051105 |
| 22 | 0.0000000 | 0.0869565 | 0.7391304 | 0.5652174 | 0.2826087 | 0.2608696 | 23.88911 | 0.1981931 | -1.8891120 | 0.0183099 | 1.460649 | 0.0045150 | -1.3017407 |
| 22 | 0.0000000 | 0.0000000 | 0.9743590 | 0.5384615 | 0.3333333 | 0.2564103 | 23.66849 | 0.1830258 | -1.6684941 | 0.0156147 | 1.462840 | 0.0029872 | -1.1481433 |
| 28 | 0.0175439 | 0.0000000 | 0.9824561 | 0.3859649 | 0.0350877 | 0.0350877 | 26.90357 | 0.2876553 | 1.0964334 | 0.0385703 | 1.467114 | 0.0033403 | 0.7634445 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4531250 | 0.0312500 | 0.0156250 | 27.13995 | 0.2493898 | 0.8600500 | 0.0289911 | 1.468435 | 0.0015145 | 0.5958900 |
| 24 | 0.0169492 | 0.1355932 | 0.7796610 | 0.4915254 | 0.2711864 | 0.2372881 | 24.49135 | 0.1514679 | -0.4913465 | 0.0106942 | 1.469833 | 0.0001757 | -0.3372691 |
| 24 | 0.0000000 | 0.2131148 | 0.9672131 | 0.5081967 | 0.4426230 | 0.1147541 | 23.02033 | 0.2265692 | 0.9796674 | 0.0239282 | 1.467836 | 0.0016051 | 0.6770048 |
| 26 | 0.0000000 | 0.0800000 | 0.9800000 | 0.4800000 | 0.1800000 | 0.0000000 | 25.16927 | 0.1616379 | 0.8307257 | 0.0121785 | 1.468605 | 0.0005735 | 0.5706534 |
| 24 | 0.0000000 | 0.0526316 | 0.8684211 | 0.5526316 | 0.0526316 | 0.2105263 | 25.69894 | 0.2576707 | -1.6989426 | 0.0309484 | 1.462432 | 0.0063345 | -1.1783091 |
| 26 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4000000 | 0.0750000 | 0.0500000 | 27.12595 | 0.2702600 | -1.1259528 | 0.0340464 | 1.466946 | 0.0030804 | -0.7821608 |
| 25 | 0.0000000 | 0.0285714 | 0.9142857 | 0.4571429 | 0.0857143 | 0.1142857 | 26.01695 | 0.2031062 | -1.0169545 | 0.0192289 | 1.467643 | 0.0013767 | -0.7010866 |
| 22 | 0.0540541 | 0.1081081 | 0.1351351 | 0.5675676 | 0.5405405 | 0.2432432 | 22.17716 | 0.2860048 | -0.1771560 | 0.0381289 | 1.470404 | 0.0000861 | -0.1233251 |
| 27 | 0.0000000 | 0.0175439 | 100.0000000 | 0.4561404 | 0.0000000 | 0.0000000 | 27.35730 | 0.2535117 | -0.3573029 | 0.0299574 | 1.470137 | 0.0002706 | -0.2476824 |
| 23 | 0.0416667 | 0.2708333 | 0.3125000 | 0.5625000 | 0.6666667 | 0.3541667 | 21.19828 | 0.3626834 | 1.8017168 | 0.0613145 | 1.461130 | 0.0150420 | 1.2696396 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3859649 | 0.0350877 | 0.0175439 | 27.51008 | 0.2788993 | 0.4899247 | 0.0362579 | 1.469820 | 0.0006240 | 0.3407241 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4871795 | 0.1025641 | 0.1025641 | 26.40045 | 0.2534252 | 0.5995511 | 0.0299369 | 1.469491 | 0.0007615 | 0.4156045 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4102564 | 0.2564103 | 0.3589744 | 25.69912 | 0.3179423 | -0.6991159 | 0.0471199 | 1.469107 | 0.0016890 | -0.4889720 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5333333 | 0.0333333 | 0.1333333 | 26.64838 | 0.2837753 | 0.3516167 | 0.0375368 | 1.470145 | 0.0003336 | 0.2446986 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4324324 | 0.0000000 | 0.0540541 | 27.49875 | 0.2562040 | -0.4987517 | 0.0305971 | 1.469799 | 0.0005393 | -0.3458487 |
| 25 | 0.0000000 | 0.0697674 | 0.9302326 | 0.4186047 | 0.1860465 | 0.0000000 | 25.48828 | 0.2013384 | -0.4882824 | 0.0188956 | 1.469836 | 0.0003117 | -0.3365639 |
| 27 | 0.0000000 | 0.0750000 | 100.0000000 | 0.4250000 | 0.1000000 | 0.0250000 | 26.78769 | 0.2584821 | 0.2123134 | 0.0311436 | 1.470366 | 0.0000996 | 0.1472657 |
| 26 | 0.0161290 | 0.1774194 | 0.7903226 | 0.4354839 | 0.1935484 | 0.1129032 | 25.40460 | 0.1878461 | 0.5953982 | 0.0164480 | 1.469519 | 0.0004014 | 0.4098858 |
| 29 | 0.0000000 | 0.0000000 | 0.9000000 | 0.4750000 | 0.0000000 | 0.0000000 | 26.55673 | 0.2512902 | 2.4432736 | 0.0294347 | 1.453799 | 0.0124212 | 1.6932212 |
| 26 | 0.0000000 | 0.1621622 | 0.6756757 | 0.3783784 | 0.3243243 | 0.1891892 | 24.68278 | 0.2746731 | 1.3172188 | 0.0351674 | 1.465631 | 0.0043648 | 0.9155581 |
| 23 | 0.0000000 | 0.0555556 | 100.0000000 | 0.5277778 | 0.2777778 | 0.6666667 | 24.84081 | 0.3159500 | -1.8408106 | 0.0465312 | 1.460870 | 0.0115494 | -1.2870928 |
| 23 | 0.0000000 | 0.1282051 | 100.0000000 | 0.4615385 | 0.4615385 | 0.5128205 | 23.84690 | 0.4163770 | -0.8468998 | 0.0808130 | 1.468385 | 0.0045682 | -0.6030927 |
| 22 | 0.0000000 | 0.6052632 | 0.7105263 | 0.4736842 | 0.5526316 | 0.4210526 | 22.39042 | 0.3114745 | -0.3904233 | 0.0452223 | 1.470061 | 0.0005035 | -0.2727964 |
| 26 | 0.0000000 | 0.0476190 | 0.9523810 | 0.4285714 | 0.1269841 | 0.0952381 | 25.87543 | 0.2032206 | 0.1245695 | 0.0192506 | 1.470449 | 0.0000207 | 0.0858789 |
| 27 | 0.0000000 | 0.0000000 | 0.9444444 | 0.3888889 | 0.1388889 | 0.0000000 | 26.02150 | 0.2420010 | 0.9784981 | 0.0272987 | 1.467833 | 0.0018396 | 0.6773673 |
| 28 | 0.0000000 | 0.0000000 | 0.9473684 | 0.4473684 | 0.0526316 | 0.1578947 | 26.32537 | 0.2235659 | 1.6746271 | 0.0232980 | 1.462723 | 0.0045608 | 1.1568873 |
| 28 | 0.0000000 | 0.0263158 | 0.9736842 | 0.3684211 | 0.0000000 | 0.0000000 | 27.19013 | 0.3091937 | 0.8098729 | 0.0445625 | 1.468638 | 0.0021321 | 0.5656785 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4358974 | 0.0769231 | 0.0000000 | 26.89785 | 0.2519201 | 2.1021461 | 0.0295824 | 1.458151 | 0.0092438 | 1.4569262 |
| 28 | 0.0000000 | 0.0000000 | 0.9000000 | 0.4000000 | 0.0666667 | 0.0666667 | 26.50012 | 0.2501544 | 1.4998830 | 0.0291692 | 1.464225 | 0.0046362 | 1.0392968 |
| 25 | 0.0000000 | 0.0810811 | 0.8918919 | 0.5135135 | 0.1351351 | 0.4324324 | 25.31043 | 0.1838950 | -0.3104293 | 0.0157633 | 1.470228 | 0.0001044 | -0.2136323 |
| 24 | 0.0500000 | 0.0250000 | 100.0000000 | 0.4750000 | 0.1000000 | 0.2000000 | 26.72489 | 0.2785765 | -2.7248881 | 0.0361740 | 1.449554 | 0.0192534 | -1.8949744 |
| 23 | 0.1724138 | 0.8275862 | 0.0000000 | 0.5862069 | 0.2758621 | 0.5862069 | 24.60322 | 0.4873485 | -1.6032211 | 0.1107101 | 1.462671 | 0.0239606 | -1.1607153 |
| 23 | 0.0000000 | 0.2162162 | 0.7297297 | 0.5405405 | 0.2972973 | 0.4324324 | 23.92412 | 0.1764180 | -0.9241162 | 0.0145075 | 1.468151 | 0.0008495 | -0.6355562 |
| 27 | 0.0270270 | 0.0000000 | 100.0000000 | 0.4594595 | 0.0270270 | 0.1621622 | 27.26072 | 0.2610324 | -0.2607249 | 0.0317612 | 1.470302 | 0.0001534 | -0.1809028 |
| 23 | 0.0000000 | 0.3333333 | 0.6944444 | 0.3888889 | 0.3055556 | 0.4166667 | 24.76091 | 0.2540737 | -1.7609063 | 0.0300904 | 1.461839 | 0.0066046 | -1.2207440 |
| 23 | 0.0256410 | 0.1538462 | 0.4102564 | 0.4615385 | 0.4615385 | 0.5128205 | 23.27359 | 0.2458215 | -0.2735912 | 0.0281675 | 1.470284 | 0.0001487 | -0.1894787 |
| 25 | 0.0000000 | 0.0000000 | 0.9487179 | 0.5128205 | 0.2564103 | 0.3076923 | 24.40096 | 0.1567362 | 0.5990387 | 0.0114511 | 1.469512 | 0.0002800 | 0.4113484 |
| 24 | 0.0000000 | 0.0000000 | 0.9117647 | 0.4705882 | 0.0588235 | 0.0294118 | 26.13969 | 0.2148136 | -2.1396880 | 0.0215096 | 1.457811 | 0.0068490 | -1.4768152 |
| 26 | 0.0000000 | 0.0263158 | 0.9210526 | 0.6052632 | 0.0526316 | 0.3947368 | 25.38809 | 0.3169431 | 0.6119122 | 0.0468242 | 1.469431 | 0.0012850 | 0.4279141 |
| 26 | 0.0000000 | 0.0000000 | 0.9714286 | 0.5428571 | 0.0857143 | 0.1428571 | 25.50864 | 0.2298713 | 0.4913572 | 0.0246307 | 1.469824 | 0.0004162 | 0.3396775 |
| 25 | 0.0000000 | 0.0000000 | 0.9090909 | 0.4848485 | 0.1515152 | 0.2727273 | 25.35756 | 0.1696772 | -0.3575559 | 0.0134201 | 1.470142 | 0.0001174 | -0.2457716 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4705882 | 0.1470588 | 0.1176471 | 26.16364 | 0.2571689 | -1.1636441 | 0.0308280 | 1.466717 | 0.0029593 | -0.8070003 |
| 21 | 0.5526316 | 100.0000000 | 0.0000000 | 0.5789474 | 0.6842105 | 0.6578947 | 21.91294 | 1.3048395 | -0.9129420 | 0.7936375 | 1.459552 | 1.0343243 | -1.3720873 |

## Warning in sqrt(crit \* p \* (1 - hh)/hh): NaNs produced  
  
## Warning in sqrt(crit \* p \* (1 - hh)/hh): NaNs produced



Age as a confounder:

##   
## Call:  
## lm(formula = bmi ~ fuel\_used\_for\_cooking\_percent\_wood\_dung +   
## percent\_public\_source + percent\_private\_toilet + percent\_employed +   
## percent\_without\_hs\_education + percent\_caste + median\_age,   
## data = total)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -3.1828 -0.6472 0.0243 0.6988 3.3596   
##   
## Coefficients:  
## Estimate Std. Error t value  
## (Intercept) 19.330115 1.862418 10.379  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 3.288437 2.591229 1.269  
## percent\_public\_source -0.015332 0.011440 -1.340  
## percent\_private\_toilet 0.001925 0.003039 0.633  
## percent\_employed -1.887484 1.716676 -1.099  
## percent\_without\_hs\_education -4.956412 0.866503 -5.720  
## percent\_caste 0.009539 0.013218 0.722  
## median\_age 0.171751 0.028971 5.928  
## Pr(>|t|)   
## (Intercept) < 2e-16 \*\*\*  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 0.207   
## percent\_public\_source 0.183   
## percent\_private\_toilet 0.528   
## percent\_employed 0.274   
## percent\_without\_hs\_education 7.33e-08 \*\*\*  
## percent\_caste 0.472   
## median\_age 2.75e-08 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 1.3 on 126 degrees of freedom  
## Multiple R-squared: 0.6845, Adjusted R-squared: 0.667   
## F-statistic: 39.06 on 7 and 126 DF, p-value: < 2.2e-16

## Estimate Std. Error  
## (Intercept) 19.330115186 1.862417726  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 3.288437265 2.591228557  
## percent\_public\_source -0.015332053 0.011439532  
## percent\_private\_toilet 0.001925133 0.003039221  
## percent\_employed -1.887483664 1.716676096  
## percent\_without\_hs\_education -4.956412465 0.866503134  
## percent\_caste 0.009538560 0.013218324  
## median\_age 0.171751056 0.028970693  
## t value Pr(>|t|)  
## (Intercept) 10.3790438 1.288772e-18  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 1.2690649 2.067572e-01  
## percent\_public\_source -1.3402693 1.825696e-01  
## percent\_private\_toilet 0.6334298 5.276011e-01  
## percent\_employed -1.0994990 2.736468e-01  
## percent\_without\_hs\_education -5.7200168 7.334748e-08  
## percent\_caste 0.7216164 4.718673e-01  
## median\_age 5.9284414 2.745263e-08

## (Intercept)   
## 19.330115186   
## fuel\_used\_for\_cooking\_percent\_wood\_dung   
## 3.288437265   
## percent\_public\_source   
## -0.015332053   
## percent\_private\_toilet   
## 0.001925133   
## percent\_employed   
## -1.887483664   
## percent\_without\_hs\_education   
## -4.956412465   
## percent\_caste   
## 0.009538560   
## median\_age   
## 0.171751056

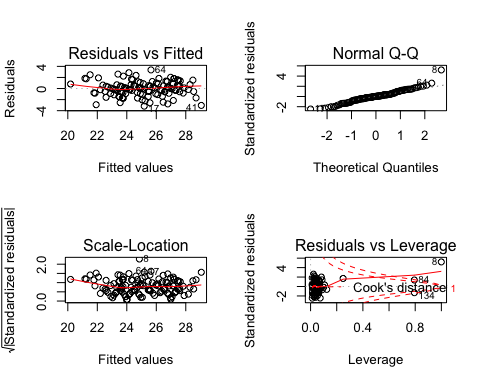
## 1 2 3 4 5 6 7 8   
## 25.77263 25.47661 24.86138 26.25762 26.46760 23.55377 23.92914 24.85347   
## 9 10 11 12 13 14 15 16   
## 24.39591 23.40136 23.26681 24.01101 23.99766 23.76268 27.15685 22.20840   
## 17 18 19 20 21 22 23 24   
## 25.18276 23.64684 23.69632 24.52429 21.51326 24.76986 23.32621 24.71934   
## 25 26 27 28 29 30 31 32   
## 24.21950 23.83267 25.57131 25.45573 22.37951 24.48003 23.92222 25.48534   
## 33 34 35 36 37 38 39 40   
## 25.53547 25.04874 25.05835 26.56466 27.24773 26.65438 26.00909 22.71944   
## 41 42 43 44 45 46 47 48   
## 29.05304 27.44188 26.97233 26.30489 27.29135 25.97007 27.15958 27.18684   
## 49 50 51 52 53 54 55 56   
## 27.59145 27.21668 28.48218 27.34105 28.69689 26.37657 26.13316 23.64730   
## 57 58 59 60 61 62 63 64   
## 24.19998 24.15283 21.84194 23.68049 22.07844 24.62518 28.17764 25.64039   
## 65 66 67 68 69 70 71 72   
## 23.76734 23.55120 23.22147 23.51419 23.58485 22.59412 26.85815 26.76217   
## 73 74 75 76 77 78 79 80   
## 26.96326 21.24637 25.57110 25.73132 22.91885 23.12650 27.62753 27.50534   
## 81 82 83 84 85 86 87 88   
## 28.28761 27.13044 21.92166 20.18684 24.00846 24.14334 23.12960 24.34520   
## 89 90 91 92 93 94 95 96   
## 23.46261 23.72537 26.74372 26.17701 23.91877 23.57896 25.59462 24.92168   
## 97 98 99 100 101 102 103 104   
## 26.58032 26.41648 22.90229 27.82447 21.16236 27.42790 26.85061 26.09921   
## 105 106 107 108 109 110 111 112   
## 27.58079 26.98812 24.29293 26.78569 24.90949 27.52092 24.32009 24.72654   
## 113 114 115 116 117 118 119 120   
## 22.59831 22.53148 25.57082 26.50185 26.73438 28.53448 27.44785 27.88802   
## 121 122 123 124 125 126 127 128   
## 24.57036 25.45410 23.74142 23.04015 27.06945 25.23524 23.31844 24.80284   
## 129 130 131 132 133 134   
## 26.78033 25.11839 25.88257 25.05365 24.94843 21.77151

## # A tibble: 1 x 11  
## r.squared adj.r.squared sigma statistic p.value df logLik AIC BIC  
## <dbl> <dbl> <dbl> <dbl> <dbl> <int> <dbl> <dbl> <dbl>  
## 1 0.685 0.667 1.30 39.1 1.09e-28 8 -221. 460. 486.  
## # … with 2 more variables: deviance <dbl>, df.residual <int>

|  |  |  |
| --- | --- | --- |
| term | estimate | p.value |
| (Intercept) | 19.330 | 0.000 |
| fuel\_used\_for\_cooking\_percent\_wood\_dung | 3.288 | 0.207 |
| percent\_public\_source | -0.015 | 0.183 |
| percent\_private\_toilet | 0.002 | 0.528 |
| percent\_employed | -1.887 | 0.274 |
| percent\_without\_hs\_education | -4.956 | 0.000 |
| percent\_caste | 0.010 | 0.472 |
| median\_age | 0.172 | 0.000 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| bmi | fuel\_used\_for\_cooking\_percent\_wood\_dung | percent\_public\_source | percent\_private\_toilet | percent\_employed | percent\_without\_hs\_education | percent\_caste | median\_age | .fitted | .se.fit | .resid | .hat | .sigma | .cooksd | .std.resid |
| 26 | 0.0000000 | 0.0270270 | 100.0000000 | 0.5405405 | 0.0270270 | 0.5675676 | 43.08108 | 25.77263 | 0.2981382 | 0.2273695 | 0.0525727 | 1.305306 | 0.0002239 | 0.1796477 |
| 26 | 0.0000000 | 0.0789474 | 0.7368421 | 0.5789474 | 0.0263158 | 0.2368421 | 42.89474 | 25.47661 | 0.2705151 | 0.5233868 | 0.0432821 | 1.304595 | 0.0009577 | 0.4115222 |
| 25 | 0.0277778 | 0.0555556 | 0.4722222 | 0.4444444 | 0.3055556 | 0.7500000 | 45.33333 | 24.86138 | 0.1779150 | 0.1386212 | 0.0187219 | 1.305413 | 0.0000276 | 0.1076208 |
| 26 | 0.0000000 | 0.1538462 | 0.7692308 | 0.6153846 | 0.0000000 | 0.4615385 | 47.07692 | 26.25762 | 0.3314550 | -0.2576226 | 0.0649792 | 1.305255 | 0.0003647 | -0.2048970 |
| 24 | 0.0277778 | 0.1944444 | 0.8333333 | 0.3888889 | 0.2500000 | 0.3888889 | 52.50000 | 26.46760 | 0.2961568 | -2.4675991 | 0.0518762 | 1.285644 | 0.0259790 | -1.9489672 |
| 23 | 0.0000000 | 0.3076923 | 0.7435897 | 0.5128205 | 0.2820513 | 0.4871795 | 38.35897 | 23.55377 | 0.1786953 | -0.5537677 | 0.0188865 | 1.304515 | 0.0004448 | -0.4299623 |
| 24 | 0.0000000 | 0.1351351 | 0.5405405 | 0.6486486 | 0.3513514 | 0.9189189 | 44.00000 | 23.92914 | 0.3291128 | 0.0708604 | 0.0640641 | 1.305456 | 0.0000271 | 0.0563304 |
| 25 | 0.0526316 | 0.3947368 | 0.9473684 | 0.5789474 | 0.2631579 | 100.0000000 | 39.57895 | 24.85347 | 1.2999770 | 0.1465283 | 0.9995310 | 1.156742 | 7212.0834614 | 5.2033202 |
| 26 | 0.0000000 | 0.2777778 | 0.3611111 | 0.4166667 | 0.4722222 | 0.0000000 | 47.72222 | 24.39591 | 0.3211269 | 1.6040861 | 0.0609928 | 1.297049 | 0.0131592 | 1.2730799 |
| 26 | 0.0000000 | 0.1500000 | 0.8500000 | 0.4250000 | 0.3500000 | 0.0750000 | 38.47500 | 23.40136 | 0.2425181 | 2.5986359 | 0.0347867 | 1.283857 | 0.0186420 | 2.0342121 |
| 23 | 0.0000000 | 0.1071429 | 0.9285714 | 0.6666667 | 0.3392857 | 0.6785714 | 40.00000 | 23.26681 | 0.3081011 | -0.2668126 | 0.0561451 | 1.305242 | 0.0003317 | -0.2112108 |
| 24 | 0.0000000 | 0.0344828 | 0.9137931 | 0.4655172 | 0.2068966 | 0.4137931 | 38.31034 | 24.01101 | 0.2269401 | -0.0110140 | 0.0304612 | 1.305472 | 0.0000003 | -0.0086025 |
| 24 | 0.0000000 | 0.3818182 | 0.8000000 | 0.4909091 | 0.2727273 | 0.8727273 | 40.41818 | 23.99766 | 0.1539136 | 0.0023405 | 0.0140113 | 1.305473 | 0.0000000 | 0.0018128 |
| 22 | 0.0000000 | 0.1636364 | 0.8909091 | 0.4909091 | 0.1818182 | 0.6545455 | 36.41818 | 23.76268 | 0.2656713 | -1.7626773 | 0.0417459 | 1.295500 | 0.0104432 | -1.3848251 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4545455 | 0.0606061 | 0.2121212 | 51.18182 | 27.15685 | 0.2240188 | -2.1568474 | 0.0296821 | 1.290699 | 0.0108428 | -1.6839331 |
| 22 | 0.0263158 | 0.8684211 | 0.1315789 | 0.7368421 | 0.4736842 | 0.8157895 | 38.05263 | 22.20840 | 0.4119275 | -0.2084010 | 0.1003613 | 1.305325 | 0.0003982 | -0.1689772 |
| 22 | 0.0000000 | 0.2702703 | 0.7837838 | 0.4594595 | 0.1891892 | 0.5945946 | 44.56757 | 25.18276 | 0.1482175 | -3.1827568 | 0.0129934 | 1.273638 | 0.0099891 | -2.4638024 |
| 23 | 0.1025641 | 0.0256410 | 0.9487179 | 0.5897436 | 0.2820513 | 0.6923077 | 37.74359 | 23.64684 | 0.3029455 | -0.6468352 | 0.0542818 | 1.304116 | 0.0018774 | -0.5115349 |
| 22 | 0.0000000 | 0.2105263 | 0.9473684 | 0.4210526 | 0.5263158 | 0.6315789 | 45.21053 | 23.69632 | 0.3228465 | -1.6963231 | 0.0616477 | 1.296043 | 0.0148949 | -1.3467534 |
| 25 | 0.0000000 | 0.0263158 | 0.8947368 | 0.4473684 | 0.2105263 | 0.2894737 | 41.21053 | 24.52429 | 0.1845985 | 0.4757091 | 0.0201549 | 1.304765 | 0.0003512 | 0.3695942 |
| 24 | 0.0540541 | 0.7837838 | 0.5675676 | 0.5405405 | 0.7297297 | 0.1621622 | 38.72973 | 21.51326 | 0.3745512 | 2.4867400 | 0.0829750 | 1.284645 | 0.0451108 | 1.9971112 |
| 26 | 0.0000000 | 0.1500000 | 0.9000000 | 0.5500000 | 0.1500000 | 0.4250000 | 42.02500 | 24.76986 | 0.1862189 | 1.2301379 | 0.0205103 | 1.300731 | 0.0023917 | 0.9559085 |
| 24 | 0.0000000 | 0.6923077 | 0.6666667 | 0.4871795 | 0.4102564 | 0.0256410 | 40.51282 | 23.32621 | 0.1874024 | 0.6737949 | 0.0207718 | 1.304051 | 0.0007271 | 0.5236586 |
| 24 | 0.0000000 | 0.8461538 | 0.6923077 | 0.4615385 | 0.3076923 | 0.2307692 | 45.38462 | 24.71934 | 0.1711593 | -0.7193352 | 0.0173271 | 1.303858 | 0.0006864 | -0.5580708 |
| 24 | 0.0000000 | 0.5365854 | 0.6585366 | 0.3902439 | 0.3170732 | 0.3658537 | 41.92683 | 24.21950 | 0.2390425 | -0.2194985 | 0.0337968 | 1.305320 | 0.0001290 | -0.1717354 |
| 24 | 0.0769231 | 0.3333333 | 0.7179487 | 0.5384615 | 0.3589744 | 0.7435897 | 41.00000 | 23.83267 | 0.2108811 | 0.1673329 | 0.0263027 | 1.305385 | 0.0000574 | 0.1304163 |
| 23 | 0.0000000 | 0.4102564 | 0.7179487 | 0.4102564 | 0.1282051 | 0.2051282 | 44.56410 | 25.57131 | 0.2069459 | -2.5713058 | 0.0253302 | 1.284520 | 0.0130336 | -2.0030299 |
| 25 | 0.0000000 | 0.1538462 | 0.7948718 | 0.4615385 | 0.1538462 | 0.0512821 | 45.17949 | 25.45573 | 0.1548212 | -0.4557291 | 0.0141770 | 1.304827 | 0.0002240 | -0.3529960 |
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| 27 | 0.0000000 | 0.0526316 | 0.9473684 | 0.3157895 | 0.0789474 | 0.0000000 | 51.84211 | 27.24773 | 0.3175128 | -0.2477252 | 0.0596276 | 1.305273 | 0.0003059 | -0.1964639 |
| 28 | 0.0000000 | 0.0000000 | 0.9750000 | 0.5000000 | 0.0250000 | 0.0000000 | 48.85000 | 26.65438 | 0.2252444 | 1.3456208 | 0.0300077 | 1.299740 | 0.0042695 | 1.0507539 |
| 27 | 0.0000000 | 0.0769231 | 0.8846154 | 0.4230769 | 0.0961538 | 0.0192308 | 46.30769 | 26.00909 | 0.1951561 | 0.9909116 | 0.0225263 | 1.302391 | 0.0017115 | 0.7708055 |
| 23 | 0.0000000 | 0.8285714 | 0.0285714 | 0.6000000 | 0.4571429 | 0.4000000 | 39.57143 | 22.71944 | 0.2566026 | 0.2805622 | 0.0389446 | 1.305222 | 0.0002454 | 0.2200986 |
| 26 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3030303 | 0.0000000 | 0.0303030 | 58.81818 | 29.05304 | 0.3526074 | -3.0530376 | 0.0735373 | 1.274273 | 0.0590407 | -2.4393867 |
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| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4761905 | 0.0000000 | 0.0000000 | 49.85714 | 27.18684 | 0.2279942 | 1.8131563 | 0.0307449 | 1.295038 | 0.0079543 | 1.4163763 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4473684 | 0.0000000 | 0.0263158 | 51.89474 | 27.59145 | 0.2272880 | 0.4085452 | 0.0305547 | 1.304945 | 0.0004012 | 0.3191104 |
| 29 | 0.0000000 | 0.0000000 | 0.9855072 | 0.4347826 | 0.0144928 | 0.0434783 | 51.10145 | 27.21668 | 0.2394038 | 1.7833221 | 0.0338990 | 1.295347 | 0.0085396 | 1.3953430 |
| 30 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4615385 | 0.0512821 | 0.0000000 | 58.71795 | 28.48218 | 0.3410128 | 1.5178231 | 0.0687806 | 1.297870 | 0.0135095 | 1.2096441 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5483871 | 0.0000000 | 0.0000000 | 51.54839 | 27.34105 | 0.2845965 | -0.3410467 | 0.0479053 | 1.305098 | 0.0004545 | -0.2688043 |
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| 26 | 0.0000000 | 0.2666667 | 0.8000000 | 0.4666667 | 0.2666667 | 0.1333333 | 38.66667 | 23.76734 | 0.2006183 | 2.2326563 | 0.0238049 | 1.289732 | 0.0092060 | 1.7378649 |
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| 27 | 0.0000000 | 0.0750000 | 0.9000000 | 0.4250000 | 0.2250000 | 0.1000000 | 48.42500 | 25.73132 | 0.1973488 | 1.2686767 | 0.0230353 | 1.300415 | 0.0028719 | 0.9871292 |
| 23 | 0.0000000 | 0.5263158 | 0.5789474 | 0.5526316 | 0.4736842 | 0.3684211 | 40.65789 | 22.91885 | 0.2358508 | 0.0811466 | 0.0329003 | 1.305452 | 0.0000171 | 0.0634596 |
| 23 | 0.0000000 | 0.6000000 | 0.3500000 | 0.5500000 | 0.4750000 | 0.1000000 | 41.90000 | 23.12650 | 0.2479185 | -0.1265009 | 0.0363532 | 1.305422 | 0.0000463 | -0.0991054 |
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| 26 | 0.0000000 | 0.0800000 | 0.9800000 | 0.4800000 | 0.1800000 | 0.0000000 | 46.94000 | 25.59462 | 0.1604316 | 0.4053766 | 0.0152231 | 1.304961 | 0.0001907 | 0.3141609 |
| 24 | 0.0000000 | 0.0526316 | 0.8684211 | 0.5526316 | 0.0526316 | 0.2105263 | 40.13158 | 24.92168 | 0.2636560 | -0.9216824 | 0.0411150 | 1.302755 | 0.0028084 | -0.7238698 |
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| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3859649 | 0.0350877 | 0.0175439 | 51.28070 | 27.42790 | 0.2479811 | 0.5721012 | 0.0363716 | 1.304432 | 0.0009478 | 0.4482089 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4871795 | 0.1025641 | 0.1025641 | 50.97436 | 26.85061 | 0.2374473 | 0.1493865 | 0.0333472 | 1.305402 | 0.0000589 | 0.1168527 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4102564 | 0.2564103 | 0.3589744 | 50.17949 | 26.09921 | 0.2902097 | -1.0992052 | 0.0498137 | 1.301571 | 0.0049286 | -0.8672351 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5333333 | 0.0333333 | 0.1333333 | 53.73333 | 27.58079 | 0.2969856 | -0.5807853 | 0.0521670 | 1.304382 | 0.0014481 | -0.4587881 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4324324 | 0.0000000 | 0.0540541 | 48.21622 | 26.98812 | 0.2432083 | 0.0118790 | 0.0349850 | 1.305472 | 0.0000004 | 0.0092998 |
| 25 | 0.0000000 | 0.0697674 | 0.9302326 | 0.4186047 | 0.1860465 | 0.0000000 | 38.86047 | 24.29293 | 0.2694480 | 0.7070704 | 0.0429413 | 1.303871 | 0.0017328 | 0.5558477 |
| 27 | 0.0000000 | 0.0750000 | 100.0000000 | 0.4250000 | 0.1000000 | 0.0250000 | 49.85000 | 26.78569 | 0.2294682 | 0.2143146 | 0.0311437 | 1.305327 | 0.0001127 | 0.1674498 |
| 26 | 0.0161290 | 0.1774194 | 0.7903226 | 0.4354839 | 0.1935484 | 0.1129032 | 42.54839 | 24.90949 | 0.1865043 | 1.0905112 | 0.0205732 | 1.301747 | 0.0018856 | 0.8474354 |
| 29 | 0.0000000 | 0.0000000 | 0.9000000 | 0.4750000 | 0.0000000 | 0.0000000 | 52.90000 | 27.52092 | 0.2760755 | 1.4790761 | 0.0450797 | 1.298434 | 0.0079958 | 1.1640440 |
| 26 | 0.0000000 | 0.1621622 | 0.6756757 | 0.3783784 | 0.3243243 | 0.1891892 | 42.56757 | 24.32009 | 0.2513989 | 1.6799092 | 0.0373811 | 1.296459 | 0.0084168 | 1.3168037 |
| 23 | 0.0000000 | 0.0555556 | 100.0000000 | 0.5277778 | 0.2777778 | 0.6666667 | 44.08333 | 24.72654 | 0.2811466 | -1.7265416 | 0.0467510 | 1.295856 | 0.0113388 | -1.3599919 |
| 23 | 0.0000000 | 0.1282051 | 100.0000000 | 0.4615385 | 0.4615385 | 0.5128205 | 36.28205 | 22.59831 | 0.4254288 | 0.4016863 | 0.1070480 | 1.304919 | 0.0016015 | 0.3269154 |
| 22 | 0.0000000 | 0.6052632 | 0.7105263 | 0.4736842 | 0.5526316 | 0.4210526 | 39.81579 | 22.53148 | 0.2775338 | -0.5314820 | 0.0455572 | 1.304566 | 0.0010444 | -0.4183850 |
| 26 | 0.0000000 | 0.0476190 | 0.9523810 | 0.4285714 | 0.1269841 | 0.0952381 | 44.69841 | 25.57082 | 0.1875836 | 0.4291807 | 0.0208120 | 1.304896 | 0.0002956 | 0.3335566 |
| 27 | 0.0000000 | 0.0000000 | 0.9444444 | 0.3888889 | 0.1388889 | 0.0000000 | 50.02778 | 26.50184 | 0.2296076 | 0.4981550 | 0.0311815 | 1.304688 | 0.0006095 | 0.3892295 |
| 28 | 0.0000000 | 0.0000000 | 0.9473684 | 0.4473684 | 0.0526316 | 0.1578947 | 49.52632 | 26.73438 | 0.2101199 | 1.2656223 | 0.0261132 | 1.300423 | 0.0032605 | 0.9863074 |
| 28 | 0.0000000 | 0.0263158 | 0.9736842 | 0.3684211 | 0.0000000 | 0.0000000 | 57.63158 | 28.53448 | 0.3560407 | -0.5344820 | 0.0749764 | 1.304526 | 0.0018506 | -0.4273849 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4358974 | 0.0769231 | 0.0000000 | 53.15385 | 27.44785 | 0.2421210 | 1.5521541 | 0.0346729 | 1.297803 | 0.0066274 | 1.2149545 |
| 28 | 0.0000000 | 0.0000000 | 0.9000000 | 0.4000000 | 0.0666667 | 0.0666667 | 56.13333 | 27.88802 | 0.3226835 | 0.1119780 | 0.0615855 | 1.305432 | 0.0000648 | 0.0888992 |
| 25 | 0.0000000 | 0.0810811 | 0.8918919 | 0.5135135 | 0.1351351 | 0.4324324 | 40.02703 | 24.57036 | 0.2055112 | 0.4296358 | 0.0249802 | 1.304893 | 0.0003586 | 0.3346233 |
| 24 | 0.0500000 | 0.0250000 | 100.0000000 | 0.4750000 | 0.1000000 | 0.2000000 | 41.67500 | 25.45410 | 0.3272739 | -1.4541040 | 0.0633502 | 1.298537 | 0.0112881 | -1.1554983 |
| 23 | 0.1724138 | 0.8275862 | 0.0000000 | 0.5862069 | 0.2758621 | 0.5862069 | 36.82759 | 23.74142 | 0.4564128 | -0.7414248 | 0.1232084 | 1.303550 | 0.0065135 | -0.6089496 |
| 23 | 0.0000000 | 0.2162162 | 0.7297297 | 0.5405405 | 0.2972973 | 0.4324324 | 36.10811 | 23.04015 | 0.2162433 | -0.0401460 | 0.0276573 | 1.305468 | 0.0000035 | -0.0313109 |
| 27 | 0.0270270 | 0.0000000 | 100.0000000 | 0.4594595 | 0.0270270 | 0.1621622 | 49.24324 | 27.06945 | 0.2339672 | -0.0694517 | 0.0323769 | 1.305457 | 0.0000123 | -0.0542990 |
| 23 | 0.0000000 | 0.3333333 | 0.6944444 | 0.3888889 | 0.3055556 | 0.4166667 | 47.47222 | 25.23524 | 0.2393247 | -2.2352393 | 0.0338766 | 1.289530 | 0.0134066 | -1.7489210 |
| 23 | 0.0256410 | 0.1538462 | 0.4102564 | 0.4615385 | 0.4615385 | 0.5128205 | 41.10256 | 23.31844 | 0.2183596 | -0.3184442 | 0.0282013 | 1.305153 | 0.0002239 | -0.2484321 |
| 25 | 0.0000000 | 0.0000000 | 0.9487179 | 0.5128205 | 0.2564103 | 0.3076923 | 44.87179 | 24.80284 | 0.1547771 | 0.1971606 | 0.0141690 | 1.305352 | 0.0000419 | 0.1527149 |
| 24 | 0.0000000 | 0.0000000 | 0.9117647 | 0.4705882 | 0.0588235 | 0.0294118 | 50.23529 | 26.78033 | 0.2191908 | -2.7803346 | 0.0284164 | 1.280862 | 0.0172043 | -2.1692991 |
| 26 | 0.0000000 | 0.0263158 | 0.9210526 | 0.6052632 | 0.0526316 | 0.3947368 | 41.84211 | 25.11839 | 0.2850208 | 0.8816123 | 0.0480483 | 1.302969 | 0.0030468 | 0.6949165 |
| 26 | 0.0000000 | 0.0000000 | 0.9714286 | 0.5428571 | 0.0857143 | 0.1428571 | 46.57143 | 25.88257 | 0.2135937 | 0.1174293 | 0.0269837 | 1.305429 | 0.0000291 | 0.0915543 |
| 25 | 0.0000000 | 0.0000000 | 0.9090909 | 0.4848485 | 0.1515152 | 0.2727273 | 43.00000 | 25.05365 | 0.1591152 | -0.0536470 | 0.0149744 | 1.305464 | 0.0000033 | -0.0415704 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4705882 | 0.1470588 | 0.1176471 | 41.00000 | 24.94843 | 0.3068203 | 0.0515678 | 0.0556792 | 1.305464 | 0.0000123 | 0.0408114 |
| 21 | 0.5526316 | 100.0000000 | 0.0000000 | 0.5789474 | 0.6842105 | 0.6578947 | 38.63158 | 21.77151 | 1.1586192 | -0.7715107 | 0.7939741 | 1.296590 | 0.8231546 | -1.3072043 |

## Warning in sqrt(crit \* p \* (1 - hh)/hh): NaNs produced  
  
## Warning in sqrt(crit \* p \* (1 - hh)/hh): NaNs produced



Gender as a confounder:

##   
## Call:  
## lm(formula = bmi ~ fuel\_used\_for\_cooking\_percent\_wood\_dung +   
## percent\_public\_source + percent\_private\_toilet + percent\_employed +   
## percent\_without\_hs\_education + percent\_caste + percent\_female,   
## data = total)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -3.2001 -0.9070 0.0894 0.9371 3.2809   
##   
## Coefficients:  
## Estimate Std. Error t value  
## (Intercept) 29.145781 0.888526 32.802  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 4.610442 2.901037 1.589  
## percent\_public\_source -0.014479 0.012856 -1.126  
## percent\_private\_toilet 0.007369 0.003297 2.235  
## percent\_employed -6.011034 1.770560 -3.395  
## percent\_without\_hs\_education -7.397433 0.849397 -8.709  
## percent\_caste 0.006399 0.014844 0.431  
## percent\_female 0.309527 0.246955 1.253  
## Pr(>|t|)   
## (Intercept) < 2e-16 \*\*\*  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 0.114512   
## percent\_public\_source 0.262207   
## percent\_private\_toilet 0.027180 \*   
## percent\_employed 0.000918 \*\*\*  
## percent\_without\_hs\_education 1.46e-14 \*\*\*  
## percent\_caste 0.667146   
## percent\_female 0.212390   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 1.461 on 126 degrees of freedom  
## Multiple R-squared: 0.6015, Adjusted R-squared: 0.5794   
## F-statistic: 27.17 on 7 and 126 DF, p-value: < 2.2e-16

## Estimate Std. Error  
## (Intercept) 29.145780821 0.888525821  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 4.610442300 2.901036774  
## percent\_public\_source -0.014479049 0.012856157  
## percent\_private\_toilet 0.007369429 0.003297303  
## percent\_employed -6.011033551 1.770560486  
## percent\_without\_hs\_education -7.397433052 0.849397272  
## percent\_caste 0.006398898 0.014843861  
## percent\_female 0.309527127 0.246955074  
## t value Pr(>|t|)  
## (Intercept) 32.8024016 1.458685e-63  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 1.5892395 1.145124e-01  
## percent\_public\_source -1.1262346 2.622067e-01  
## percent\_private\_toilet 2.2349871 2.717975e-02  
## percent\_employed -3.3949891 9.182688e-04  
## percent\_without\_hs\_education -8.7090379 1.461708e-14  
## percent\_caste 0.4310804 6.671465e-01  
## percent\_female 1.2533742 2.123903e-01

## (Intercept)   
## 29.145780821   
## fuel\_used\_for\_cooking\_percent\_wood\_dung   
## 4.610442300   
## percent\_public\_source   
## -0.014479049   
## percent\_private\_toilet   
## 0.007369429   
## percent\_employed   
## -6.011033551   
## percent\_without\_hs\_education   
## -7.397433052   
## percent\_caste   
## 0.006398898   
## percent\_female   
## 0.309527127

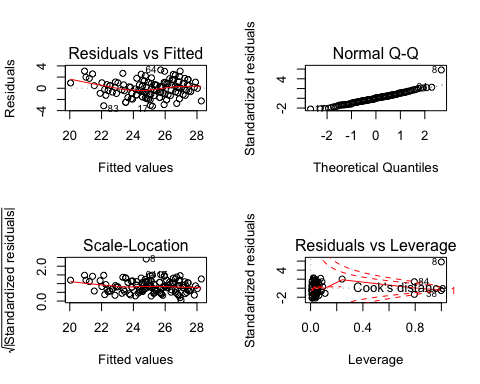
## 1 2 3 4 5 6 7 8   
## 26.65404 25.68319 24.57052 25.66975 25.30654 24.18368 22.87275 24.80918   
## 9 10 11 12 13 14 15 16   
## 23.33707 24.21291 22.84457 25.03227 24.38721 25.06714 26.89692 21.54096   
## 17 18 19 20 21 22 23 24   
## 25.20014 24.20107 22.93576 25.12081 20.92946 24.94363 23.38739 24.29950   
## 25 26 27 28 29 30 31 32   
## 24.66359 23.82330 25.93478 25.44720 22.01758 24.56315 25.05684 25.86904   
## 33 34 35 36 37 38 39 40   
## 26.32566 24.84989 25.09848 27.26562 26.87612 28.02603 26.10324 22.34246   
## 41 42 43 44 45 46 47 48   
## 28.27187 27.44705 27.42254 26.37060 26.94507 25.70706 26.52823 27.23313   
## 49 50 51 52 53 54 55 56   
## 27.39273 26.64096 26.93889 26.78822 27.60569 25.77897 25.93679 24.95541   
## 57 58 59 60 61 62 63 64   
## 25.66480 24.84739 23.51939 24.57508 21.43251 24.75345 26.85368 25.71906   
## 65 66 67 68 69 70 71 72   
## 24.58619 23.51429 23.43749 23.94650 23.74486 22.26935 26.80398 26.17431   
## 73 74 75 76 77 78 79 80   
## 26.99750 21.01872 25.73403 25.13921 22.51783 22.52681 25.96407 26.44059   
## 81 82 83 84 85 86 87 88   
## 27.90713 27.83494 22.13646 20.04948 24.73451 24.48897 22.68201 24.12629   
## 89 90 91 92 93 94 95 96   
## 23.86987 23.65487 26.85845 27.13426 24.47257 23.03009 25.13578 25.64052   
## 97 98 99 100 101 102 103 104   
## 27.13017 25.98111 22.19574 27.34935 21.23205 27.51198 26.40607 25.72497   
## 105 106 107 108 109 110 111 112   
## 26.63746 27.49374 25.46864 26.80048 25.38539 26.51029 24.68605 24.84933   
## 113 114 115 116 117 118 119 120   
## 23.90547 22.40854 25.84573 26.00155 26.28164 27.14434 26.90335 26.47059   
## 121 122 123 124 125 126 127 128   
## 25.27758 26.72553 24.56963 23.90495 27.25665 24.74935 23.28235 24.37818   
## 129 130 131 132 133 134   
## 26.08692 25.32610 25.45904 25.32110 26.18119 21.90747

## # A tibble: 1 x 11  
## r.squared adj.r.squared sigma statistic p.value df logLik AIC BIC  
## <dbl> <dbl> <dbl> <dbl> <dbl> <int> <dbl> <dbl> <dbl>  
## 1 0.602 0.579 1.46 27.2 1.96e-22 8 -237. 492. 518.  
## # … with 2 more variables: deviance <dbl>, df.residual <int>

|  |  |  |
| --- | --- | --- |
| term | estimate | p.value |
| (Intercept) | 29.146 | 0.000 |
| fuel\_used\_for\_cooking\_percent\_wood\_dung | 4.610 | 0.115 |
| percent\_public\_source | -0.014 | 0.262 |
| percent\_private\_toilet | 0.007 | 0.027 |
| percent\_employed | -6.011 | 0.001 |
| percent\_without\_hs\_education | -7.397 | 0.000 |
| percent\_caste | 0.006 | 0.667 |
| percent\_female | 0.310 | 0.212 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| bmi | fuel\_used\_for\_cooking\_percent\_wood\_dung | percent\_public\_source | percent\_private\_toilet | percent\_employed | percent\_without\_hs\_education | percent\_caste | percent\_female | .fitted | .se.fit | .resid | .hat | .sigma | .cooksd | .std.resid |
| 26 | 0.0000000 | 0.0270270 | 100.0000000 | 0.5405405 | 0.0270270 | 0.5675676 | 0.7017544 | 26.65404 | 0.2903019 | -0.6540383 | 0.0394599 | 1.466029 | 0.0010708 | -0.4566395 |
| 26 | 0.0000000 | 0.0789474 | 0.7368421 | 0.5789474 | 0.0263158 | 0.2368421 | 0.6666667 | 25.68319 | 0.3033016 | 0.3168066 | 0.0430730 | 1.466958 | 0.0002763 | 0.2216066 |
| 25 | 0.0277778 | 0.0555556 | 0.4722222 | 0.4444444 | 0.3055556 | 0.7500000 | 0.7142857 | 24.57052 | 0.1919360 | 0.4294830 | 0.0172492 | 1.466732 | 0.0001928 | 0.2964506 |
| 26 | 0.0000000 | 0.1538462 | 0.7692308 | 0.6153846 | 0.0000000 | 0.4615385 | 0.7000000 | 25.66975 | 0.3608817 | 0.3302532 | 0.0609798 | 1.466927 | 0.0004415 | 0.2332048 |
| 24 | 0.0277778 | 0.1944444 | 0.8333333 | 0.3888889 | 0.2500000 | 0.3888889 | 0.6909091 | 25.30654 | 0.2505846 | -1.3065356 | 0.0294012 | 1.462441 | 0.0031181 | -0.9074640 |
| 23 | 0.0000000 | 0.3076923 | 0.7435897 | 0.5128205 | 0.2820513 | 0.4871795 | 0.6551724 | 24.18368 | 0.1594587 | -1.1836798 | 0.0119056 | 1.463373 | 0.0010000 | -0.8148226 |
| 24 | 0.0000000 | 0.1351351 | 0.5405405 | 0.6486486 | 0.3513514 | 0.9189189 | 0.7017544 | 22.87275 | 0.3115294 | 1.1272471 | 0.0454417 | 1.463610 | 0.0037090 | 0.7894887 |
| 25 | 0.0526316 | 0.3947368 | 0.9473684 | 0.5789474 | 0.2631579 | 100.0000000 | 0.6666667 | 24.80918 | 1.4610415 | 0.1908219 | 0.9994962 | 1.254814 | 8393.3945400 | 5.8175447 |
| 26 | 0.0000000 | 0.2777778 | 0.3611111 | 0.4166667 | 0.4722222 | 0.0000000 | 0.6153846 | 23.33707 | 0.2997096 | 2.6629313 | 0.0420588 | 1.446922 | 0.0190224 | 1.8617380 |
| 26 | 0.0000000 | 0.1500000 | 0.8500000 | 0.4250000 | 0.3500000 | 0.0750000 | 0.6666667 | 24.21291 | 0.2250027 | 1.7870865 | 0.0237045 | 1.458298 | 0.0046486 | 1.2376076 |
| 23 | 0.0000000 | 0.1071429 | 0.9285714 | 0.6666667 | 0.3392857 | 0.6785714 | 0.6666667 | 22.84457 | 0.3379992 | 0.1554330 | 0.0534918 | 1.467174 | 0.0000844 | 0.1093224 |
| 24 | 0.0000000 | 0.0344828 | 0.9137931 | 0.4655172 | 0.2068966 | 0.4137931 | 0.6666667 | 25.03227 | 0.1618687 | -1.0322718 | 0.0122682 | 1.464300 | 0.0007843 | -0.7107266 |
| 24 | 0.0000000 | 0.3818182 | 0.8000000 | 0.4909091 | 0.2727273 | 0.8727273 | 0.6585366 | 24.38721 | 0.1554401 | -0.3872147 | 0.0113131 | 1.466830 | 0.0001016 | -0.2664713 |
| 22 | 0.0000000 | 0.1636364 | 0.8909091 | 0.4909091 | 0.1818182 | 0.6545455 | 0.6746988 | 25.06714 | 0.1611864 | -3.0671441 | 0.0121650 | 1.441048 | 0.0068640 | -2.1116406 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4545455 | 0.0606061 | 0.2121212 | 0.6250000 | 26.89692 | 0.2477092 | -1.8969183 | 0.0287303 | 1.457109 | 0.0064139 | -1.3170635 |
| 22 | 0.0263158 | 0.8684211 | 0.1315789 | 0.7368421 | 0.4736842 | 0.8157895 | 0.6896552 | 21.54096 | 0.4452440 | 0.4590387 | 0.0928223 | 1.466610 | 0.0013910 | 0.3297852 |
| 22 | 0.0000000 | 0.2702703 | 0.7837838 | 0.4594595 | 0.1891892 | 0.5945946 | 0.6785714 | 25.20014 | 0.1672978 | -3.2001440 | 0.0131050 | 1.438676 | 0.0080649 | -2.2042562 |
| 23 | 0.1025641 | 0.0256410 | 0.9487179 | 0.5897436 | 0.2820513 | 0.6923077 | 0.6551724 | 24.20107 | 0.3228675 | -1.2010666 | 0.0488095 | 1.463103 | 0.0045548 | -0.8426774 |
| 22 | 0.0000000 | 0.2105263 | 0.9473684 | 0.4210526 | 0.5263158 | 0.6315789 | 0.6666667 | 22.93576 | 0.3314604 | -0.9357597 | 0.0514422 | 1.464725 | 0.0029301 | -0.6574465 |
| 25 | 0.0000000 | 0.0263158 | 0.8947368 | 0.4473684 | 0.2105263 | 0.2894737 | 0.6896552 | 25.12081 | 0.1725398 | -0.1208119 | 0.0139391 | 1.467203 | 0.0000122 | -0.0832503 |
| 24 | 0.0540541 | 0.7837838 | 0.5675676 | 0.5405405 | 0.7297297 | 0.1621622 | 0.6071429 | 20.92946 | 0.4053198 | 3.0705412 | 0.0769222 | 1.439129 | 0.0498162 | 2.1868741 |
| 26 | 0.0000000 | 0.1500000 | 0.9000000 | 0.5500000 | 0.1500000 | 0.4250000 | 0.6666667 | 24.94363 | 0.2075514 | 1.0563710 | 0.0201701 | 1.464136 | 0.0013722 | 0.7302459 |
| 24 | 0.0000000 | 0.6923077 | 0.6666667 | 0.4871795 | 0.4102564 | 0.0256410 | 0.6779661 | 23.38739 | 0.2104687 | 0.6126138 | 0.0207411 | 1.466198 | 0.0004751 | 0.4236098 |
| 24 | 0.0000000 | 0.8461538 | 0.6923077 | 0.4615385 | 0.3076923 | 0.2307692 | 0.6779661 | 24.29950 | 0.1756163 | -0.2995004 | 0.0144406 | 1.466995 | 0.0000781 | -0.2064353 |
| 24 | 0.0000000 | 0.5365854 | 0.6585366 | 0.3902439 | 0.3170732 | 0.3658537 | 0.6774194 | 24.66359 | 0.2551988 | -0.6635886 | 0.0304939 | 1.466005 | 0.0008361 | -0.4611600 |
| 24 | 0.0769231 | 0.3333333 | 0.7179487 | 0.5384615 | 0.3589744 | 0.7435897 | 0.6779661 | 23.82330 | 0.2370600 | 0.1766974 | 0.0263131 | 1.467156 | 0.0000507 | 0.1225317 |
| 23 | 0.0000000 | 0.4102564 | 0.7179487 | 0.4102564 | 0.1282051 | 0.2051282 | 0.6551724 | 25.93478 | 0.2217144 | -2.9347839 | 0.0230167 | 1.443010 | 0.0121559 | -2.0317047 |
| 25 | 0.0000000 | 0.1538462 | 0.7948718 | 0.4615385 | 0.1538462 | 0.0512821 | 0.6779661 | 25.44720 | 0.1752931 | -0.4471983 | 0.0143875 | 1.466690 | 0.0001734 | -0.3082301 |
| 23 | 0.0000000 | 0.9250000 | 0.8250000 | 0.4500000 | 0.6250000 | 0.1750000 | 0.6666667 | 22.01758 | 0.3790373 | 0.9824221 | 0.0672698 | 1.464420 | 0.0043679 | 0.6960623 |
| 25 | 0.0000000 | 0.2307692 | 0.8974359 | 0.5128205 | 0.2307692 | 0.1538462 | 0.6551724 | 24.56315 | 0.1587554 | 0.4368501 | 0.0118008 | 1.466717 | 0.0001350 | 0.3007033 |
| 23 | 0.0000000 | 0.1750000 | 0.7750000 | 0.5000000 | 0.1750000 | 0.2500000 | 0.6666667 | 25.05684 | 0.1655987 | -2.0568419 | 0.0128402 | 1.455513 | 0.0032626 | -1.4165607 |
| 25 | 0.0000000 | 0.1025641 | 0.7948718 | 0.3589744 | 0.1794872 | 0.2564103 | 0.6551724 | 25.86904 | 0.2789360 | -0.8690366 | 0.0364305 | 1.465105 | 0.0017344 | -0.6057934 |
| 25 | 0.0000000 | 0.0270270 | 100.0000000 | 0.5945946 | 0.0270270 | 0.0270270 | 0.7017544 | 26.32566 | 0.3496065 | -1.3256587 | 0.0572288 | 1.462153 | 0.0066227 | -0.9342360 |
| 23 | 0.0263158 | 0.4736842 | 0.9210526 | 0.4473684 | 0.2631579 | 0.8157895 | 0.6896552 | 24.84989 | 0.1797312 | -1.8498850 | 0.0151253 | 1.457740 | 0.0031232 | -1.2755053 |
| 24 | 0.0256410 | 0.2307692 | 0.9743590 | 0.5384615 | 0.1538462 | 0.4102564 | 0.6551724 | 25.09848 | 0.2009073 | -1.0984783 | 0.0188994 | 1.463887 | 0.0013867 | -0.7588618 |
| 26 | 0.0000000 | 0.0188679 | 100.0000000 | 0.3773585 | 0.0754717 | 0.1320755 | 0.6750000 | 27.26562 | 0.2881369 | -1.2656151 | 0.0388735 | 1.462693 | 0.0039451 | -0.8833634 |
| 27 | 0.0000000 | 0.0526316 | 0.9473684 | 0.3157895 | 0.0789474 | 0.0000000 | 0.6666667 | 26.87612 | 0.3518314 | 0.1238772 | 0.0579596 | 1.467199 | 0.0000587 | 0.0873343 |
| 28 | 0.0000000 | 0.0000000 | 0.9750000 | 0.5000000 | 0.0250000 | 0.0000000 | 6.6666667 | 28.02603 | 1.4605189 | -0.0260276 | 0.9987813 | 1.465728 | 26.6623261 | -0.5101647 |
| 27 | 0.0000000 | 0.0769231 | 0.8846154 | 0.4230769 | 0.0961538 | 0.0192308 | 0.6666667 | 26.10324 | 0.2198261 | 0.8967606 | 0.0226264 | 1.464999 | 0.0011148 | 0.6206892 |
| 23 | 0.0000000 | 0.8285714 | 0.0285714 | 0.6000000 | 0.4571429 | 0.4000000 | 0.6274510 | 22.34246 | 0.2799489 | 0.6575367 | 0.0366956 | 1.466020 | 0.0010007 | 0.4584228 |
| 26 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3030303 | 0.0000000 | 0.0303030 | 0.6800000 | 28.27187 | 0.3672714 | -2.2718708 | 0.0631583 | 1.452146 | 0.0217386 | -1.6061220 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4000000 | 0.0333333 | 0.0000000 | 0.6956522 | 27.44705 | 0.2680821 | 1.5529476 | 0.0336505 | 1.460424 | 0.0050863 | 1.0809801 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4444444 | 0.0000000 | 0.0000000 | 0.6829268 | 27.42254 | 0.2534216 | 1.5774623 | 0.0300707 | 1.460233 | 0.0046553 | 1.0960162 |
| 26 | 0.0000000 | 0.0263158 | 100.0000000 | 0.5526316 | 0.0526316 | 0.0789474 | 0.6428571 | 26.37060 | 0.2986146 | -0.3706041 | 0.0417521 | 1.466853 | 0.0003655 | -0.2590593 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3947368 | 0.1052632 | 0.0526316 | 0.6896552 | 26.94507 | 0.2778969 | 0.0549261 | 0.0361596 | 1.467235 | 0.0000069 | 0.0382828 |
| 25 | 0.0000000 | 0.0000000 | 0.9666667 | 0.5666667 | 0.0333333 | 0.1000000 | 0.6666667 | 25.70706 | 0.2857438 | -0.7070625 | 0.0382305 | 1.465826 | 0.0012093 | -0.4933445 |
| 28 | 0.0400000 | 0.0000000 | 100.0000000 | 0.5000000 | 0.1000000 | 0.0000000 | 0.6666667 | 26.52823 | 0.2712814 | 1.4717672 | 0.0344585 | 1.461115 | 0.0046860 | 1.0249004 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4761905 | 0.0000000 | 0.0000000 | 0.6875000 | 27.23313 | 0.2560949 | 1.7668733 | 0.0307084 | 1.458437 | 0.0059721 | 1.2280222 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4473684 | 0.0000000 | 0.0263158 | 0.6428571 | 27.39273 | 0.2534897 | 0.6072727 | 0.0300868 | 1.466207 | 0.0006903 | 0.4219348 |
| 29 | 0.0000000 | 0.0000000 | 0.9855072 | 0.4347826 | 0.0144928 | 0.0434783 | 0.6730769 | 26.64096 | 0.2523720 | 2.3590448 | 0.0298221 | 1.451521 | 0.0103199 | 1.6388474 |
| 30 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4615385 | 0.0512821 | 0.0000000 | 0.6779661 | 26.93889 | 0.2475635 | 3.0611061 | 0.0286965 | 1.440703 | 0.0166818 | 2.1253425 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5483871 | 0.0000000 | 0.0000000 | 0.6521739 | 26.78822 | 0.3040434 | 0.2117840 | 0.0432840 | 1.467116 | 0.0001241 | 0.1481595 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4117647 | 0.0000000 | 0.0000000 | 0.6400000 | 27.60569 | 0.2637420 | -0.6056896 | 0.0325698 | 1.466209 | 0.0007472 | -0.4213746 |
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| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5641026 | 0.1025641 | 0.1282051 | 0.6551724 | 25.93679 | 0.3066425 | 1.0632128 | 0.0440272 | 1.464017 | 0.0031874 | 0.7440899 |
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| 24 | 0.0000000 | 0.0512821 | 0.8717949 | 0.5128205 | 0.2307692 | 0.5384615 | 0.6779661 | 24.57508 | 0.1575351 | -0.5750762 | 0.0116201 | 1.466331 | 0.0002302 | -0.3958143 |
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| 27 | 0.0000000 | 0.1538462 | 0.8974359 | 0.5128205 | 0.2051282 | 0.0769231 | 0.6551724 | 24.75345 | 0.1627950 | 2.2465507 | 0.0124090 | 1.453245 | 0.0037582 | 1.5468767 |
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| 23 | 0.0500000 | 0.2500000 | 0.7000000 | 0.5000000 | 0.4250000 | 0.4250000 | 0.6666667 | 23.43749 | 0.2168161 | -0.4374869 | 0.0220110 | 1.466710 | 0.0002578 | -0.3027095 |
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| 27 | 0.0000000 | 0.0000000 | 0.9285714 | 0.3928571 | 0.0000000 | 0.0000000 | 0.6666667 | 26.99750 | 0.2879974 | 0.0025022 | 0.0388359 | 1.467244 | 0.0000000 | 0.0017464 |
| 23 | 0.0975610 | 0.3414634 | 0.2439024 | 0.5609756 | 0.7317073 | 0.2195122 | 0.6774194 | 21.01872 | 0.4306094 | 1.9812814 | 0.0868206 | 1.455477 | 0.0239204 | 1.4187182 |
| 26 | 0.0000000 | 0.0000000 | 0.9333333 | 0.5833333 | 0.0166667 | 0.0333333 | 0.6813187 | 25.73403 | 0.3134685 | 0.2659679 | 0.0460091 | 1.467042 | 0.0002093 | 0.1863310 |
| 27 | 0.0000000 | 0.0750000 | 0.9000000 | 0.4250000 | 0.2250000 | 0.1000000 | 0.6666667 | 25.13921 | 0.1937465 | 1.8607930 | 0.0175762 | 1.457604 | 0.0036905 | 1.2846258 |
| 23 | 0.0000000 | 0.5263158 | 0.5789474 | 0.5526316 | 0.4736842 | 0.3684211 | 0.6428571 | 22.51783 | 0.2538657 | 0.4821682 | 0.0301762 | 1.466590 | 0.0004366 | 0.3350273 |
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| 28 | 0.0256410 | 0.0000000 | 100.0000000 | 0.5641026 | 0.0512821 | 0.0000000 | 0.6779661 | 26.44059 | 0.3119445 | 1.5594059 | 0.0455628 | 1.460281 | 0.0071187 | 1.0922285 |
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| 26 | 0.0000000 | 0.0800000 | 0.9800000 | 0.4800000 | 0.1800000 | 0.0000000 | 0.6486486 | 25.13578 | 0.1634742 | 0.8642152 | 0.0125128 | 1.465180 | 0.0005609 | 0.5950921 |
| 24 | 0.0000000 | 0.0526316 | 0.8684211 | 0.5526316 | 0.0526316 | 0.2105263 | 0.6428571 | 25.64052 | 0.2612845 | -1.6405219 | 0.0319656 | 1.459645 | 0.0053732 | -1.1409448 |
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| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4102564 | 0.2564103 | 0.3589744 | 0.6551724 | 25.72497 | 0.3179001 | -0.7249717 | 0.0473192 | 1.465739 | 0.0016038 | -0.5082476 |
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| 26 | 0.0000000 | 0.1621622 | 0.6756757 | 0.3783784 | 0.3243243 | 0.1891892 | 0.6785714 | 24.68605 | 0.2740701 | 1.3139535 | 0.0351706 | 1.462357 | 0.0038177 | 0.9153406 |
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| 28 | 0.0000000 | 0.0000000 | 0.9473684 | 0.4473684 | 0.0526316 | 0.1578947 | 0.6666667 | 26.28164 | 0.2257776 | 1.7183610 | 0.0238681 | 1.458974 | 0.0043291 | 1.1901129 |
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| 25 | 0.0000000 | 0.0000000 | 0.9487179 | 0.5128205 | 0.2564103 | 0.3076923 | 0.6551724 | 24.37818 | 0.1574382 | 0.6218242 | 0.0116058 | 1.466177 | 0.0002689 | 0.4279869 |
| 24 | 0.0000000 | 0.0000000 | 0.9117647 | 0.4705882 | 0.0588235 | 0.0294118 | 0.6400000 | 26.08692 | 0.2184280 | -2.0869208 | 0.0223395 | 1.455048 | 0.0059576 | -1.4442419 |
| 26 | 0.0000000 | 0.0263158 | 0.9210526 | 0.6052632 | 0.0526316 | 0.3947368 | 0.6428571 | 25.32610 | 0.3200772 | 0.6739007 | 0.0479695 | 1.465943 | 0.0014068 | 0.4726052 |
| 26 | 0.0000000 | 0.0000000 | 0.9714286 | 0.5428571 | 0.0857143 | 0.1428571 | 0.6538462 | 25.45904 | 0.2327458 | 0.5409612 | 0.0253641 | 1.466425 | 0.0004573 | 0.3749497 |
| 25 | 0.0000000 | 0.0000000 | 0.9090909 | 0.4848485 | 0.1515152 | 0.2727273 | 0.6530612 | 25.32110 | 0.1717772 | -0.3211019 | 0.0138162 | 1.466959 | 0.0000857 | -0.2212544 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4705882 | 0.1470588 | 0.1176471 | 0.6923077 | 26.18119 | 0.2569742 | -1.1811851 | 0.0309197 | 1.463313 | 0.0026885 | -0.8210433 |
| 21 | 0.5526316 | 100.0000000 | 0.0000000 | 0.5789474 | 0.6842105 | 0.6578947 | 0.6428571 | 21.90747 | 1.3019236 | -0.9074698 | 0.7936464 | 1.456324 | 0.8983245 | -1.3669548 |

## Warning in sqrt(crit \* p \* (1 - hh)/hh): NaNs produced  
  
## Warning in sqrt(crit \* p \* (1 - hh)/hh): NaNs produced



Marital status as a confounder:

##   
## Call:  
## lm(formula = bmi ~ fuel\_used\_for\_cooking\_percent\_wood\_dung +   
## percent\_public\_source + percent\_private\_toilet + percent\_employed +   
## percent\_without\_hs\_education + percent\_caste + percent\_marital\_status,   
## data = total)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -3.2086 -0.9110 0.0259 0.9358 3.2602   
##   
## Coefficients:  
## Estimate Std. Error t value  
## (Intercept) 29.403753 0.875240 33.595  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 4.640155 2.914284 1.592  
## percent\_public\_source -0.014564 0.012919 -1.127  
## percent\_private\_toilet 0.007059 0.003300 2.139  
## percent\_employed -6.094334 1.794056 -3.397  
## percent\_without\_hs\_education -7.428263 0.863722 -8.600  
## percent\_caste 0.006360 0.014916 0.426  
## percent\_marital\_status 0.005634 0.008882 0.634  
## Pr(>|t|)   
## (Intercept) < 2e-16 \*\*\*  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 0.113843   
## percent\_public\_source 0.261755   
## percent\_private\_toilet 0.034353 \*   
## percent\_employed 0.000912 \*\*\*  
## percent\_without\_hs\_education 2.66e-14 \*\*\*  
## percent\_caste 0.670568   
## percent\_marital\_status 0.527010   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 1.468 on 126 degrees of freedom  
## Multiple R-squared: 0.5978, Adjusted R-squared: 0.5755   
## F-statistic: 26.76 on 7 and 126 DF, p-value: < 2.2e-16

## Estimate Std. Error  
## (Intercept) 29.403753282 0.875240008  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 4.640155087 2.914284482  
## percent\_public\_source -0.014564219 0.012919475  
## percent\_private\_toilet 0.007058910 0.003299875  
## percent\_employed -6.094333961 1.794055941  
## percent\_without\_hs\_education -7.428262867 0.863721758  
## percent\_caste 0.006359546 0.014915648  
## percent\_marital\_status 0.005634217 0.008882040  
## t value Pr(>|t|)  
## (Intercept) 33.5950745 9.780827e-65  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 1.5922108 1.138431e-01  
## percent\_public\_source -1.1273074 2.617547e-01  
## percent\_private\_toilet 2.1391446 3.435280e-02  
## percent\_employed -3.3969587 9.122401e-04  
## percent\_without\_hs\_education -8.6002961 2.657572e-14  
## percent\_caste 0.4263674 6.705677e-01  
## percent\_marital\_status 0.6343381 5.270102e-01

## (Intercept)   
## 29.403753282   
## fuel\_used\_for\_cooking\_percent\_wood\_dung   
## 4.640155087   
## percent\_public\_source   
## -0.014564219   
## percent\_private\_toilet   
## 0.007058910   
## percent\_employed   
## -6.094333961   
## percent\_without\_hs\_education   
## -7.428262867   
## percent\_caste   
## 0.006359546   
## percent\_marital\_status   
## 0.005634217

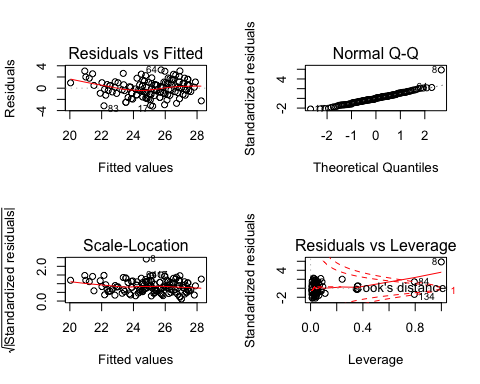
## 1 2 3 4 5 6 7 8   
## 26.62243 25.68983 24.56664 26.22294 25.31625 24.19136 22.85285 24.80636   
## 9 10 11 12 13 14 15 16   
## 23.35970 24.22257 22.83500 25.04348 24.39676 25.07448 26.89525 21.51531   
## 17 18 19 20 21 22 23 24   
## 25.20856 24.20649 22.94049 25.12631 20.93882 24.94971 23.38664 24.30460   
## 25 26 27 28 29 30 31 32   
## 24.67469 23.82286 25.95706 25.45722 22.01746 24.57281 25.06622 25.89386   
## 33 34 35 36 37 38 39 40   
## 26.28942 24.85403 25.10968 27.25537 26.90360 26.18269 26.12168 22.34737   
## 41 42 43 44 45 46 47 48   
## 28.26751 27.42937 27.40648 26.35607 26.92744 25.71484 26.51033 27.21268   
## 49 50 51 52 53 54 55 56   
## 27.38844 26.65836 26.92099 27.33101 27.60552 25.79546 25.91552 24.96535   
## 57 58 59 60 61 62 63 64   
## 25.66139 24.84476 23.52468 24.57769 21.43100 24.76464 27.43375 25.73978   
## 65 66 67 68 69 70 71 72   
## 24.58673 23.52189 23.44108 23.95100 23.74881 22.25760 26.79058 26.18933   
## 73 74 75 76 77 78 79 80   
## 27.02073 21.00491 25.73698 25.15355 22.52143 22.52288 25.97686 26.41448   
## 81 82 83 84 85 86 87 88   
## 27.89737 27.82920 22.14571 20.04515 24.74575 24.49428 22.67073 24.13359   
## 89 90 91 92 93 94 95 96   
## 23.87047 23.66010 26.88452 27.12122 24.48225 23.02815 25.15187 25.65691   
## 97 98 99 100 101 102 103 104   
## 27.12046 25.99314 22.18600 27.33485 21.22230 27.50196 26.38416 25.71163   
## 105 106 107 108 109 110 111 112   
## 26.61783 27.47902 25.48156 26.78115 25.39532 26.51995 24.69665 24.83822   
## 113 114 115 116 117 118 119 120   
## 23.87446 22.41564 25.86018 26.01371 26.29956 27.17030 26.88650 26.48134   
## 121 122 123 124 125 126 127 128   
## 25.28376 26.70957 24.57918 23.91120 27.24070 24.77185 23.29022 24.38791   
## 129 130 131 132 133 134   
## 26.11027 25.33823 25.47161 25.33636 26.15505 21.91021

## # A tibble: 1 x 11  
## r.squared adj.r.squared sigma statistic p.value df logLik AIC BIC  
## <dbl> <dbl> <dbl> <dbl> <dbl> <int> <dbl> <dbl> <dbl>  
## 1 0.598 0.575 1.47 26.8 3.44e-22 8 -237. 493. 519.  
## # … with 2 more variables: deviance <dbl>, df.residual <int>

|  |  |  |
| --- | --- | --- |
| term | estimate | p.value |
| (Intercept) | 29.404 | 0.000 |
| fuel\_used\_for\_cooking\_percent\_wood\_dung | 4.640 | 0.114 |
| percent\_public\_source | -0.015 | 0.262 |
| percent\_private\_toilet | 0.007 | 0.034 |
| percent\_employed | -6.094 | 0.001 |
| percent\_without\_hs\_education | -7.428 | 0.000 |
| percent\_caste | 0.006 | 0.671 |
| percent\_marital\_status | 0.006 | 0.527 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| bmi | fuel\_used\_for\_cooking\_percent\_wood\_dung | percent\_public\_source | percent\_private\_toilet | percent\_employed | percent\_without\_hs\_education | percent\_caste | percent\_marital\_status | .fitted | .se.fit | .resid | .hat | .sigma | .cooksd | .std.resid |
| 26 | 0.0000000 | 0.0270270 | 100.0000000 | 0.5405405 | 0.0270270 | 0.5675676 | 0.8108108 | 26.62243 | 0.2962268 | -0.6224300 | 0.0407107 | 1.472914 | 0.0009939 | -0.4328580 |
| 26 | 0.0000000 | 0.0789474 | 0.7368421 | 0.5789474 | 0.0263158 | 0.2368421 | 0.7631579 | 25.68983 | 0.3114481 | 0.3101684 | 0.0450019 | 1.473737 | 0.0002753 | 0.2161853 |
| 25 | 0.0277778 | 0.0555556 | 0.4722222 | 0.4444444 | 0.3055556 | 0.7500000 | 0.8947368 | 24.56664 | 0.1927908 | 0.4333583 | 0.0172438 | 1.473492 | 0.0001944 | 0.2977515 |
| 26 | 0.0000000 | 0.1538462 | 0.7692308 | 0.6153846 | 0.0000000 | 0.4615385 | 100.0000000 | 26.22294 | 0.8674985 | -0.2229400 | 0.3491379 | 1.473803 | 0.0023756 | -0.1882233 |
| 24 | 0.0277778 | 0.1944444 | 0.8333333 | 0.3888889 | 0.2500000 | 0.3888889 | 0.9166667 | 25.31625 | 0.2518063 | -1.3162503 | 0.0294166 | 1.469158 | 0.0031374 | -0.9100219 |
| 23 | 0.0000000 | 0.3076923 | 0.7435897 | 0.5128205 | 0.2820513 | 0.4871795 | 0.7435897 | 24.19136 | 0.1604855 | -1.1913582 | 0.0119490 | 1.470107 | 0.0010075 | -0.8163613 |
| 24 | 0.0000000 | 0.1351351 | 0.5405405 | 0.6486486 | 0.3513514 | 0.9189189 | 0.7837838 | 22.85285 | 0.3152610 | 1.1471510 | 0.0461105 | 1.470262 | 0.0038674 | 0.8000209 |
| 25 | 0.0526316 | 0.3947368 | 0.9473684 | 0.5789474 | 0.2631579 | 100.0000000 | 0.8157895 | 24.80636 | 1.4677772 | 0.1936434 | 0.9994931 | 1.257359 | 8457.5789130 | 5.8580795 |
| 26 | 0.0000000 | 0.2777778 | 0.3611111 | 0.4166667 | 0.4722222 | 0.0000000 | 0.8055556 | 23.35970 | 0.3035609 | 2.6403012 | 0.0427515 | 1.454114 | 0.0188616 | 1.8381074 |
| 26 | 0.0000000 | 0.1500000 | 0.8500000 | 0.4250000 | 0.3500000 | 0.0750000 | 0.8000000 | 24.22257 | 0.2265571 | 1.7774309 | 0.0238131 | 1.465202 | 0.0045783 | 1.2253382 |
| 23 | 0.0000000 | 0.1071429 | 0.9285714 | 0.6666667 | 0.3392857 | 0.6785714 | 0.9107143 | 22.83500 | 0.3420246 | 0.1649987 | 0.0542718 | 1.473932 | 0.0000958 | 0.1155652 |
| 24 | 0.0000000 | 0.0344828 | 0.9137931 | 0.4655172 | 0.2068966 | 0.4137931 | 0.8965517 | 25.04348 | 0.1626306 | -1.0434848 | 0.0122705 | 1.471016 | 0.0007942 | -0.7151496 |
| 24 | 0.0000000 | 0.3818182 | 0.8000000 | 0.4909091 | 0.2727273 | 0.8727273 | 0.8909091 | 24.39676 | 0.1560511 | -0.3967554 | 0.0112978 | 1.473578 | 0.0001055 | -0.2717815 |
| 22 | 0.0000000 | 0.1636364 | 0.8909091 | 0.4909091 | 0.1818182 | 0.6545455 | 0.8909091 | 25.07448 | 0.1632163 | -3.0744839 | 0.0123591 | 1.447805 | 0.0069455 | -2.1071839 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4545455 | 0.0606061 | 0.2121212 | 0.8181818 | 26.89525 | 0.2498773 | -1.8952535 | 0.0289677 | 1.463937 | 0.0063996 | -1.3100269 |
| 22 | 0.0263158 | 0.8684211 | 0.1315789 | 0.7368421 | 0.4736842 | 0.8157895 | 0.9210526 | 21.51531 | 0.4488548 | 0.4846917 | 0.0934698 | 1.473307 | 0.0015496 | 0.3467402 |
| 22 | 0.0000000 | 0.2702703 | 0.7837838 | 0.4594595 | 0.1891892 | 0.5945946 | 0.8648649 | 25.20856 | 0.1684443 | -3.2085574 | 0.0131635 | 1.445423 | 0.0080699 | -2.1999711 |
| 23 | 0.1025641 | 0.0256410 | 0.9487179 | 0.5897436 | 0.2820513 | 0.6923077 | 0.9487179 | 24.20649 | 0.3255799 | -1.2064927 | 0.0491784 | 1.469850 | 0.0045919 | -0.8427620 |
| 22 | 0.0000000 | 0.2105263 | 0.9473684 | 0.4210526 | 0.5263158 | 0.6315789 | 0.8421053 | 22.94049 | 0.3357778 | -0.9404883 | 0.0523074 | 1.471475 | 0.0029875 | -0.6580356 |
| 25 | 0.0000000 | 0.0263158 | 0.8947368 | 0.4473684 | 0.2105263 | 0.2894737 | 0.8947368 | 25.12631 | 0.1735001 | -0.1263106 | 0.0139656 | 1.473966 | 0.0000133 | -0.0866410 |
| 24 | 0.0540541 | 0.7837838 | 0.5675676 | 0.5405405 | 0.7297297 | 0.1621622 | 0.9729730 | 20.93882 | 0.4103438 | 3.0611819 | 0.0781187 | 1.446163 | 0.0499520 | 2.1716079 |
| 26 | 0.0000000 | 0.1500000 | 0.9000000 | 0.5500000 | 0.1500000 | 0.4250000 | 0.9250000 | 24.94971 | 0.2120531 | 1.0502870 | 0.0208617 | 1.470950 | 0.0013920 | 0.7229624 |
| 24 | 0.0000000 | 0.6923077 | 0.6666667 | 0.4871795 | 0.4102564 | 0.0256410 | 0.8205128 | 23.38664 | 0.2116300 | 0.6133646 | 0.0207785 | 1.472967 | 0.0004728 | 0.4221901 |
| 24 | 0.0000000 | 0.8461538 | 0.6923077 | 0.4615385 | 0.3076923 | 0.2307692 | 0.9230769 | 24.30460 | 0.1763785 | -0.3045962 | 0.0144328 | 1.473755 | 0.0000799 | -0.2089831 |
| 24 | 0.0000000 | 0.5365854 | 0.6585366 | 0.3902439 | 0.3170732 | 0.3658537 | 0.9512195 | 24.67469 | 0.2570894 | -0.6746934 | 0.0306639 | 1.472735 | 0.0008615 | -0.4667658 |
| 24 | 0.0769231 | 0.3333333 | 0.7179487 | 0.5384615 | 0.3589744 | 0.7435897 | 0.9487179 | 23.82286 | 0.2383202 | 0.1771447 | 0.0263500 | 1.473923 | 0.0000506 | 0.1222803 |
| 23 | 0.0000000 | 0.4102564 | 0.7179487 | 0.4102564 | 0.1282051 | 0.2051282 | 0.9743590 | 25.95706 | 0.2218382 | -2.9570595 | 0.0228314 | 1.449523 | 0.0121250 | -2.0375349 |
| 25 | 0.0000000 | 0.1538462 | 0.7948718 | 0.4615385 | 0.1538462 | 0.0512821 | 0.9487179 | 25.45722 | 0.1767955 | -0.4572158 | 0.0145011 | 1.473434 | 0.0001810 | -0.3137061 |
| 23 | 0.0000000 | 0.9250000 | 0.8250000 | 0.4500000 | 0.6250000 | 0.1750000 | 0.9500000 | 22.01746 | 0.3841189 | 0.9825442 | 0.0684528 | 1.471195 | 0.0044163 | 0.6933929 |
| 25 | 0.0000000 | 0.2307692 | 0.8974359 | 0.5128205 | 0.2307692 | 0.1538462 | 0.8205128 | 24.57281 | 0.1602840 | 0.4271854 | 0.0119190 | 1.473509 | 0.0001292 | 0.2927183 |
| 23 | 0.0000000 | 0.1750000 | 0.7750000 | 0.5000000 | 0.1750000 | 0.2500000 | 0.9000000 | 25.06622 | 0.1678008 | -2.0662229 | 0.0130631 | 1.462224 | 0.0033204 | -1.4166490 |
| 25 | 0.0000000 | 0.1025641 | 0.7948718 | 0.3589744 | 0.1794872 | 0.2564103 | 0.9487179 | 25.89386 | 0.2796187 | -0.8938588 | 0.0362737 | 1.471759 | 0.0018096 | -0.6201858 |
| 25 | 0.0000000 | 0.0270270 | 100.0000000 | 0.5945946 | 0.0270270 | 0.0270270 | 0.7837838 | 26.28942 | 0.3572288 | -1.2894166 | 0.0592042 | 1.469207 | 0.0064494 | -0.9054727 |
| 23 | 0.0263158 | 0.4736842 | 0.9210526 | 0.4473684 | 0.2631579 | 0.8157895 | 0.8157895 | 24.85403 | 0.1805392 | -1.8540312 | 0.0151218 | 1.464508 | 0.0031077 | -1.2724934 |
| 24 | 0.0256410 | 0.2307692 | 0.9743590 | 0.5384615 | 0.1538462 | 0.4102564 | 0.9230769 | 25.10968 | 0.2044121 | -1.1096843 | 0.0193853 | 1.470599 | 0.0014396 | -0.7632732 |
| 26 | 0.0000000 | 0.0188679 | 100.0000000 | 0.3773585 | 0.0754717 | 0.1320755 | 0.9811321 | 27.25537 | 0.2894002 | -1.2553651 | 0.0388559 | 1.469554 | 0.0038441 | -0.8721788 |
| 27 | 0.0000000 | 0.0526316 | 0.9473684 | 0.3157895 | 0.0789474 | 0.0000000 | 0.8684211 | 26.90360 | 0.3526256 | 0.0964013 | 0.0576882 | 1.473983 | 0.0000350 | 0.0676418 |
| 28 | 0.0000000 | 0.0000000 | 0.9750000 | 0.5000000 | 0.0250000 | 0.0000000 | 0.8750000 | 26.18269 | 0.2476714 | 1.8173079 | 0.0284585 | 1.464756 | 0.0057745 | 1.2558205 |
| 27 | 0.0000000 | 0.0769231 | 0.8846154 | 0.4230769 | 0.0961538 | 0.0192308 | 0.9423077 | 26.12168 | 0.2206834 | 0.8783193 | 0.0225943 | 1.471867 | 0.0010581 | 0.6051245 |
| 23 | 0.0000000 | 0.8285714 | 0.0285714 | 0.6000000 | 0.4571429 | 0.4000000 | 0.9428571 | 22.34737 | 0.2812267 | 0.6526341 | 0.0366921 | 1.472810 | 0.0009767 | 0.4529153 |
| 26 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3030303 | 0.0000000 | 0.0303030 | 0.7878788 | 28.26751 | 0.3689484 | -2.2675082 | 0.0631526 | 1.459041 | 0.0214546 | -1.5956741 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4000000 | 0.0333333 | 0.0000000 | 0.9000000 | 27.42937 | 0.2697573 | 1.5706273 | 0.0337603 | 1.467066 | 0.0051731 | 1.0883296 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4444444 | 0.0000000 | 0.0000000 | 0.9629630 | 27.40648 | 0.2566221 | 1.5935230 | 0.0305526 | 1.466885 | 0.0047872 | 1.1023664 |
| 26 | 0.0000000 | 0.0263158 | 100.0000000 | 0.5526316 | 0.0526316 | 0.0789474 | 0.9210526 | 26.35607 | 0.3037552 | -0.3560699 | 0.0428062 | 1.473651 | 0.0003435 | -0.2478935 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3947368 | 0.1052632 | 0.0526316 | 0.8947368 | 26.92744 | 0.2788952 | 0.0725604 | 0.0360862 | 1.473995 | 0.0000119 | 0.0503397 |
| 25 | 0.0000000 | 0.0000000 | 0.9666667 | 0.5666667 | 0.0333333 | 0.1000000 | 0.8333333 | 25.71484 | 0.2931921 | -0.7148434 | 0.0398808 | 1.472565 | 0.0012821 | -0.4969104 |
| 28 | 0.0400000 | 0.0000000 | 100.0000000 | 0.5000000 | 0.1000000 | 0.0000000 | 0.9000000 | 26.51033 | 0.2741135 | 1.4896720 | 0.0348594 | 1.467758 | 0.0048160 | 1.0328212 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4761905 | 0.0000000 | 0.0000000 | 0.9047619 | 27.21268 | 0.2604225 | 1.7873219 | 0.0314642 | 1.465032 | 0.0062138 | 1.2370142 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4473684 | 0.0000000 | 0.0263158 | 0.8947368 | 27.38844 | 0.2565164 | 0.6115598 | 0.0305274 | 1.472963 | 0.0007045 | 0.4230590 |
| 29 | 0.0000000 | 0.0000000 | 0.9855072 | 0.4347826 | 0.0144928 | 0.0434783 | 0.8405797 | 26.65836 | 0.2549130 | 2.3416440 | 0.0301470 | 1.458587 | 0.0101916 | 1.6195623 |
| 30 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4615385 | 0.0512821 | 0.0000000 | 0.8974359 | 26.92099 | 0.2502890 | 3.0790054 | 0.0290632 | 1.447271 | 0.0169493 | 2.1283583 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5483871 | 0.0000000 | 0.0000000 | 100.0000000 | 27.33101 | 0.8769560 | -0.3310118 | 0.3567920 | 1.473548 | 0.0054799 | -0.2811238 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4117647 | 0.0000000 | 0.0000000 | 0.9411765 | 27.60552 | 0.2658216 | -0.6055154 | 0.0327823 | 1.472981 | 0.0007451 | -0.4193657 |
| 26 | 0.0000000 | 0.1304348 | 0.8695652 | 0.4347826 | 0.1304348 | 0.1086957 | 0.9565217 | 25.79546 | 0.1993424 | 0.2045420 | 0.0184357 | 1.473895 | 0.0000464 | 0.1406219 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5641026 | 0.1025641 | 0.1282051 | 0.8461538 | 25.91552 | 0.3111609 | 1.0844755 | 0.0449190 | 1.470665 | 0.0033586 | 0.7558392 |
| 23 | 0.0000000 | 0.1315789 | 0.9736842 | 0.4736842 | 0.2105263 | 0.4210526 | 0.8157895 | 24.96535 | 0.1591263 | -1.9653495 | 0.0117474 | 1.463365 | 0.0026944 | -1.3465906 |
| 24 | 0.0000000 | 0.0500000 | 0.9500000 | 0.5250000 | 0.0750000 | 0.5750000 | 0.8250000 | 25.66139 | 0.2290270 | -1.6613910 | 0.0243351 | 1.466313 | 0.0040921 | -1.1456482 |
| 24 | 0.0000000 | 0.0243902 | 0.8536585 | 0.5121951 | 0.1951220 | 0.2682927 | 0.8048780 | 24.84476 | 0.1665502 | -0.8447598 | 0.0128692 | 1.472047 | 0.0005466 | -0.5791294 |
| 21 | 0.0000000 | 0.4594595 | 0.4324324 | 0.4054054 | 0.4594595 | 0.4324324 | 0.9729730 | 23.52468 | 0.3080701 | -2.5246846 | 0.0440310 | 1.455804 | 0.0178096 | -1.7587940 |
| 24 | 0.0000000 | 0.0512821 | 0.8717949 | 0.5128205 | 0.2307692 | 0.5384615 | 0.8205128 | 24.57769 | 0.1596937 | -0.5776937 | 0.0118314 | 1.473094 | 0.0002345 | -0.3958328 |
| 24 | 0.2549020 | 0.3421053 | 0.7894737 | 0.6052632 | 0.7368421 | 0.1052632 | 0.9473684 | 21.43100 | 0.7219096 | 2.5689973 | 0.2417827 | 1.450197 | 0.1609662 | 2.0095395 |
| 27 | 0.0000000 | 0.1538462 | 0.8974359 | 0.5128205 | 0.2051282 | 0.0769231 | 0.9487179 | 24.76464 | 0.1644965 | 2.2353637 | 0.0125537 | 1.460213 | 0.0037309 | 1.5322203 |
| 28 | 0.0000000 | 0.0000000 | 0.8333333 | 0.4166667 | 0.0000000 | 0.0000000 | 100.0000000 | 27.43375 | 0.8791686 | 0.5662485 | 0.3585947 | 1.472653 | 0.0162077 | 0.4815823 |
| 29 | 0.0000000 | 0.0000000 | 0.9729730 | 0.4054054 | 0.1621622 | 0.0000000 | 0.7837838 | 25.73978 | 0.2195786 | 3.2602217 | 0.0223686 | 1.444205 | 0.0144262 | 2.2458944 |
| 26 | 0.0000000 | 0.2666667 | 0.8000000 | 0.4666667 | 0.2666667 | 0.1333333 | 0.9333333 | 24.58673 | 0.1634436 | 1.4132695 | 0.0123935 | 1.468512 | 0.0014718 | 0.9686408 |
| 21 | 0.0256410 | 0.0512821 | 0.8974359 | 0.4871795 | 0.4102564 | 0.7692308 | 0.9230769 | 23.52189 | 0.2018764 | -2.5218855 | 0.0189074 | 1.456313 | 0.0072449 | -1.7342037 |
| 23 | 0.0500000 | 0.2500000 | 0.7000000 | 0.5000000 | 0.4250000 | 0.4250000 | 0.9750000 | 23.44108 | 0.2180894 | -0.4410787 | 0.0220663 | 1.473470 | 0.0002603 | -0.3038023 |
| 22 | 0.0000000 | 0.2500000 | 0.6500000 | 0.5000000 | 0.3250000 | 0.4500000 | 0.8500000 | 23.95100 | 0.1685471 | -1.9509990 | 0.0131796 | 1.463505 | 0.0029875 | -1.3377278 |
| 24 | 0.0000000 | 0.1351351 | 0.8918919 | 0.5675676 | 0.2972973 | 0.4324324 | 0.9459459 | 23.74881 | 0.2035621 | 0.2511881 | 0.0192244 | 1.473836 | 0.0000731 | 0.1727603 |
| 21 | 0.0000000 | 0.2500000 | 0.8888889 | 0.6666667 | 0.4166667 | 0.6111111 | 0.9444444 | 22.25760 | 0.3510824 | -1.2575956 | 0.0571844 | 1.469451 | 0.0059003 | -0.8821804 |
| 26 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5454545 | 0.0000000 | 0.0000000 | 0.9090909 | 26.79058 | 0.3074863 | -0.7905841 | 0.0438643 | 1.472235 | 0.0017392 | -0.5507038 |
| 27 | 0.0000000 | 0.0000000 | 0.9607843 | 0.5294118 | 0.0000000 | 0.0196078 | 0.9019608 | 26.18933 | 0.2816399 | 0.8106702 | 0.0368000 | 1.472158 | 0.0015117 | 0.5626207 |
| 27 | 0.0000000 | 0.0000000 | 0.9285714 | 0.3928571 | 0.0000000 | 0.0000000 | 0.8214286 | 27.02073 | 0.2893492 | -0.0207335 | 0.0388422 | 1.474009 | 0.0000010 | -0.0144047 |
| 23 | 0.0975610 | 0.3414634 | 0.2439024 | 0.5609756 | 0.7317073 | 0.2195122 | 0.7804878 | 21.00491 | 0.4337920 | 1.9950937 | 0.0873017 | 1.462128 | 0.0241916 | 1.4224252 |
| 26 | 0.0000000 | 0.0000000 | 0.9333333 | 0.5833333 | 0.0166667 | 0.0333333 | 0.9333333 | 25.73698 | 0.3220774 | 0.2630203 | 0.0481260 | 1.473813 | 0.0002131 | 0.1836240 |
| 27 | 0.0000000 | 0.0750000 | 0.9000000 | 0.4250000 | 0.2250000 | 0.1000000 | 0.9500000 | 25.15355 | 0.1941943 | 1.8464486 | 0.0174958 | 1.464563 | 0.0035835 | 1.2688193 |
| 23 | 0.0000000 | 0.5263158 | 0.5789474 | 0.5526316 | 0.4736842 | 0.3684211 | 0.9736842 | 22.52143 | 0.2551538 | 0.4785687 | 0.0302039 | 1.473369 | 0.0004265 | 0.3310044 |
| 23 | 0.0000000 | 0.6000000 | 0.3500000 | 0.5500000 | 0.4750000 | 0.1000000 | 0.9000000 | 22.52288 | 0.2549203 | 0.4771164 | 0.0301487 | 1.473373 | 0.0004231 | 0.3299906 |
| 29 | 0.0000000 | 0.0263158 | 0.9736842 | 0.5000000 | 0.0526316 | 0.0000000 | 0.8421053 | 25.97686 | 0.2296740 | 3.0231404 | 0.0244728 | 1.448364 | 0.0136298 | 2.0848191 |
| 28 | 0.0256410 | 0.0000000 | 100.0000000 | 0.5641026 | 0.0512821 | 0.0000000 | 0.8205128 | 26.41448 | 0.3179131 | 1.5855204 | 0.0468896 | 1.466835 | 0.0075249 | 1.1061907 |
| 29 | 0.0000000 | 0.0303030 | 100.0000000 | 0.3636364 | 0.0000000 | 0.0303030 | 0.7272727 | 27.89737 | 0.3005159 | 1.1026282 | 0.0418981 | 1.470563 | 0.0032181 | 0.7672784 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3750000 | 0.0000000 | 0.0000000 | 0.8750000 | 27.82920 | 0.2903283 | 0.1708010 | 0.0391055 | 1.473928 | 0.0000717 | 0.1186813 |
| 19 | 0.0000000 | 0.9750000 | 0.0000000 | 0.5500000 | 0.5250000 | 0.3750000 | 0.9750000 | 22.14571 | 0.2856613 | -3.1457097 | 0.0378584 | 1.445831 | 0.0234688 | -2.1843836 |
| 21 | 0.0000000 | 100.0000000 | 0.0000000 | 0.5405405 | 0.6216216 | 0.6756757 | 0.9459459 | 20.04515 | 1.3075347 | 0.9548454 | 0.7931694 | 1.461999 | 0.9803294 | 1.4300638 |
| 24 | 0.0000000 | 0.2931034 | 0.6896552 | 0.5344828 | 0.1896552 | 0.3275862 | 0.9655172 | 24.74575 | 0.1832479 | -0.7457510 | 0.0155789 | 1.472476 | 0.0005185 | -0.5119566 |
| 27 | 0.0000000 | 0.0000000 | 0.9148936 | 0.5744681 | 0.1914894 | 0.4255319 | 0.8510638 | 24.49428 | 0.2251422 | 2.5057210 | 0.0235165 | 1.456457 | 0.0089800 | 1.7271499 |
| 22 | 0.0000000 | 0.1666667 | 0.8333333 | 0.6666667 | 0.3611111 | 0.7500000 | 0.7222222 | 22.67073 | 0.3433716 | -0.6707296 | 0.0547001 | 1.472718 | 0.0015970 | -0.4698859 |
| 24 | 0.0000000 | 0.0000000 | 0.7068966 | 0.5517241 | 0.2586207 | 0.5172414 | 0.8965517 | 24.13359 | 0.1865492 | -0.1335904 | 0.0161453 | 1.473961 | 0.0000173 | -0.0917359 |
| 22 | 0.0000000 | 0.0869565 | 0.7391304 | 0.5652174 | 0.2826087 | 0.2608696 | 0.8913043 | 23.87047 | 0.2008230 | -1.8704699 | 0.0187105 | 1.464303 | 0.0039424 | -1.2861212 |
| 22 | 0.0000000 | 0.0000000 | 0.9743590 | 0.5384615 | 0.3333333 | 0.2564103 | 0.9743590 | 23.66010 | 0.1839346 | -1.6600995 | 0.0156959 | 1.466393 | 0.0025892 | -1.1397228 |
| 28 | 0.0175439 | 0.0000000 | 0.9824561 | 0.3859649 | 0.0350877 | 0.0350877 | 0.8947368 | 26.88452 | 0.2898938 | 1.1154810 | 0.0389886 | 1.470492 | 0.0030463 | 0.7750463 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4531250 | 0.0312500 | 0.0156250 | 0.9062500 | 27.12122 | 0.2517162 | 0.8787786 | 0.0293956 | 1.471850 | 0.0013974 | 0.6075585 |
| 24 | 0.0169492 | 0.1355932 | 0.7796610 | 0.4915254 | 0.2711864 | 0.2372881 | 0.8474576 | 24.48225 | 0.1525015 | -0.4822483 | 0.0107897 | 1.473372 | 0.0001487 | -0.3302601 |
| 24 | 0.0000000 | 0.2131148 | 0.9672131 | 0.5081967 | 0.4426230 | 0.1147541 | 0.8852459 | 23.02815 | 0.2274386 | 0.9718458 | 0.0239987 | 1.471382 | 0.0013799 | 0.6700419 |
| 26 | 0.0000000 | 0.0800000 | 0.9800000 | 0.4800000 | 0.1800000 | 0.0000000 | 0.8400000 | 25.15187 | 0.1643260 | 0.8481290 | 0.0125277 | 1.472032 | 0.0005359 | 0.5813387 |
| 24 | 0.0000000 | 0.0526316 | 0.8684211 | 0.5526316 | 0.0526316 | 0.2105263 | 0.9473684 | 25.65691 | 0.2666432 | -1.6569108 | 0.0329853 | 1.466286 | 0.0056159 | -1.1476576 |
| 26 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4000000 | 0.0750000 | 0.0500000 | 0.9500000 | 27.12046 | 0.2710364 | -1.1204615 | 0.0340812 | 1.470479 | 0.0026595 | -0.7765267 |
| 25 | 0.0000000 | 0.0285714 | 0.9142857 | 0.4571429 | 0.0857143 | 0.1142857 | 0.9428571 | 25.99314 | 0.2070182 | -0.9931406 | 0.0198827 | 1.471277 | 0.0011839 | -0.6832844 |
| 22 | 0.0540541 | 0.1081081 | 0.1351351 | 0.5675676 | 0.5405405 | 0.2432432 | 0.8378378 | 22.18600 | 0.2870186 | -0.1859958 | 0.0382190 | 1.473913 | 0.0000829 | -0.1291799 |
| 27 | 0.0000000 | 0.0175439 | 100.0000000 | 0.4561404 | 0.0000000 | 0.0000000 | 0.9473684 | 27.33485 | 0.2565626 | -0.3348548 | 0.0305384 | 1.473696 | 0.0002113 | -0.2316440 |
| 23 | 0.0416667 | 0.2708333 | 0.3125000 | 0.5625000 | 0.6666667 | 0.3541667 | 0.8750000 | 21.22230 | 0.3655058 | 1.7777013 | 0.0619795 | 1.464839 | 0.0129095 | 1.2502083 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3859649 | 0.0350877 | 0.0175439 | 0.8947368 | 27.50196 | 0.2798506 | 0.4980429 | 0.0363339 | 1.473312 | 0.0005628 | 0.3455678 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4871795 | 0.1025641 | 0.1025641 | 0.8461538 | 26.38416 | 0.2553187 | 0.6158437 | 0.0302430 | 1.472949 | 0.0007073 | 0.4259599 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4102564 | 0.2564103 | 0.3589744 | 0.8205128 | 25.71163 | 0.3193028 | -0.7116278 | 0.0473004 | 1.472567 | 0.0015305 | -0.4965977 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5333333 | 0.0333333 | 0.1333333 | 0.9333333 | 26.61783 | 0.2884943 | 0.3821694 | 0.0386131 | 1.473598 | 0.0003538 | 0.2654829 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4324324 | 0.0000000 | 0.0540541 | 0.7837838 | 27.47902 | 0.2586866 | -0.4790164 | 0.0310461 | 1.473367 | 0.0004400 | -0.3314581 |
| 25 | 0.0000000 | 0.0697674 | 0.9302326 | 0.4186047 | 0.1860465 | 0.0000000 | 0.9534884 | 25.48156 | 0.2020921 | -0.4815568 | 0.0189478 | 1.473369 | 0.0002648 | -0.3311549 |
| 27 | 0.0000000 | 0.0750000 | 100.0000000 | 0.4250000 | 0.1000000 | 0.0250000 | 0.9500000 | 26.78115 | 0.2592975 | 0.2188548 | 0.0311929 | 1.473876 | 0.0000923 | 0.1514492 |
| 26 | 0.0161290 | 0.1774194 | 0.7903226 | 0.4354839 | 0.1935484 | 0.1129032 | 0.8387097 | 25.39532 | 0.1888573 | 0.6046796 | 0.0165473 | 1.473001 | 0.0003628 | 0.4153157 |
| 29 | 0.0000000 | 0.0000000 | 0.9000000 | 0.4750000 | 0.0000000 | 0.0000000 | 0.8250000 | 26.51995 | 0.2584710 | 2.4800541 | 0.0309944 | 1.456684 | 0.0117740 | 1.7160414 |
| 26 | 0.0000000 | 0.1621622 | 0.6756757 | 0.3783784 | 0.3243243 | 0.1891892 | 0.7837838 | 24.69665 | 0.2761883 | 1.3033503 | 0.0353891 | 1.469224 | 0.0037468 | 0.9038885 |
| 23 | 0.0000000 | 0.0555556 | 100.0000000 | 0.5277778 | 0.2777778 | 0.6666667 | 0.8888889 | 24.83822 | 0.3167223 | -1.8382227 | 0.0465390 | 1.464361 | 0.0100317 | -1.2822609 |
| 23 | 0.0000000 | 0.1282051 | 100.0000000 | 0.4615385 | 0.4615385 | 0.5128205 | 0.8205128 | 23.87446 | 0.4196159 | -0.8744628 | 0.0816890 | 1.471749 | 0.0042957 | -0.6215502 |
| 22 | 0.0000000 | 0.6052632 | 0.7105263 | 0.4736842 | 0.5526316 | 0.4210526 | 0.8684211 | 22.41564 | 0.3147309 | -0.4156418 | 0.0459556 | 1.473519 | 0.0005058 | -0.2898442 |
| 26 | 0.0000000 | 0.0476190 | 0.9523810 | 0.4285714 | 0.1269841 | 0.0952381 | 0.8730159 | 25.86018 | 0.2051146 | 0.1398219 | 0.0195188 | 1.473956 | 0.0000230 | 0.0961801 |
| 27 | 0.0000000 | 0.0000000 | 0.9444444 | 0.3888889 | 0.1388889 | 0.0000000 | 0.8888889 | 26.01371 | 0.2428835 | 0.9862937 | 0.0273688 | 1.471294 | 0.0016321 | 0.6811801 |
| 28 | 0.0000000 | 0.0000000 | 0.9473684 | 0.4473684 | 0.0526316 | 0.1578947 | 0.9736842 | 26.29956 | 0.2277593 | 1.7004430 | 0.0240664 | 1.465948 | 0.0042371 | 1.1724159 |
| 28 | 0.0000000 | 0.0263158 | 0.9736842 | 0.3684211 | 0.0000000 | 0.0000000 | 0.9473684 | 27.17030 | 0.3114960 | 0.8297001 | 0.0450157 | 1.472053 | 0.0019705 | 0.5782995 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4358974 | 0.0769231 | 0.0000000 | 0.8461538 | 26.88650 | 0.2531482 | 2.1134977 | 0.0297310 | 1.461464 | 0.0081808 | 1.4614550 |
| 28 | 0.0000000 | 0.0000000 | 0.9000000 | 0.4000000 | 0.0666667 | 0.0666667 | 0.6666667 | 26.48134 | 0.2524871 | 1.5186647 | 0.0295759 | 1.467547 | 0.0042006 | 1.0500522 |
| 25 | 0.0000000 | 0.0810811 | 0.8918919 | 0.5135135 | 0.1351351 | 0.4324324 | 0.9729730 | 25.28376 | 0.1890638 | -0.2837580 | 0.0165835 | 1.473788 | 0.0000801 | -0.1948988 |
| 24 | 0.0500000 | 0.0250000 | 100.0000000 | 0.4750000 | 0.1000000 | 0.2000000 | 0.8250000 | 26.70957 | 0.2802761 | -2.7095732 | 0.0364445 | 1.453186 | 0.0167128 | -1.8801490 |
| 23 | 0.1724138 | 0.8275862 | 0.0000000 | 0.5862069 | 0.2758621 | 0.5862069 | 0.9655172 | 24.57918 | 0.4899674 | -1.5791783 | 0.1113766 | 1.466375 | 0.0203981 | -1.1410431 |
| 23 | 0.0000000 | 0.2162162 | 0.7297297 | 0.5405405 | 0.2972973 | 0.4324324 | 0.9459459 | 23.91120 | 0.1780033 | -0.9111980 | 0.0146999 | 1.471722 | 0.0007291 | -0.6252566 |
| 27 | 0.0270270 | 0.0000000 | 100.0000000 | 0.4594595 | 0.0270270 | 0.1621622 | 0.9729730 | 27.24070 | 0.2635455 | -0.2407038 | 0.0322233 | 1.473848 | 0.0001156 | -0.1666576 |
| 23 | 0.0000000 | 0.3333333 | 0.6944444 | 0.3888889 | 0.3055556 | 0.4166667 | 0.9166667 | 24.77185 | 0.2552572 | -1.7718493 | 0.0302284 | 1.465199 | 0.0058519 | -1.2255240 |
| 23 | 0.0256410 | 0.1538462 | 0.4102564 | 0.4615385 | 0.4615385 | 0.5128205 | 0.8461538 | 23.29022 | 0.2477920 | -0.2902171 | 0.0284862 | 1.473775 | 0.0001474 | -0.2005526 |
| 25 | 0.0000000 | 0.0000000 | 0.9487179 | 0.5128205 | 0.2564103 | 0.3076923 | 0.9743590 | 24.38791 | 0.1584468 | 0.6120855 | 0.0116473 | 1.472981 | 0.0002591 | 0.4193589 |
| 24 | 0.0000000 | 0.0000000 | 0.9117647 | 0.4705882 | 0.0588235 | 0.0294118 | 0.8461538 | 26.11027 | 0.2202600 | -2.1102653 | 0.0225077 | 1.461595 | 0.0060834 | -1.4538183 |
| 26 | 0.0000000 | 0.0263158 | 0.9210526 | 0.6052632 | 0.0526316 | 0.3947368 | 0.9736842 | 25.33823 | 0.3272695 | 0.6617691 | 0.0496902 | 1.472759 | 0.0013974 | 0.4623849 |
| 26 | 0.0000000 | 0.0000000 | 0.9714286 | 0.5428571 | 0.0857143 | 0.1428571 | 0.9142857 | 25.47161 | 0.2376951 | 0.5283907 | 0.0262120 | 1.473232 | 0.0004476 | 0.3647142 |
| 25 | 0.0000000 | 0.0000000 | 0.9090909 | 0.4848485 | 0.1515152 | 0.2727273 | 0.8484848 | 25.33636 | 0.1733283 | -0.3363625 | 0.0139379 | 1.473699 | 0.0000941 | -0.2307200 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4705882 | 0.1470588 | 0.1176471 | 0.8823529 | 26.15505 | 0.2581319 | -1.1550504 | 0.0309131 | 1.470270 | 0.0025468 | -0.7991887 |
| 21 | 0.5526316 | 100.0000000 | 0.0000000 | 0.5789474 | 0.6842105 | 0.6578947 | 0.9210526 | 21.91021 | 1.3079275 | -0.9102066 | 0.7936461 | 1.463075 | 0.8954698 | -1.3647823 |

## Warning in sqrt(crit \* p \* (1 - hh)/hh): NaNs produced  
  
## Warning in sqrt(crit \* p \* (1 - hh)/hh): NaNs produced



Full model:

##   
## Call:  
## lm(formula = bmi ~ fuel\_used\_for\_cooking\_percent\_wood\_dung +   
## percent\_public\_source + percent\_private\_toilet + percent\_employed +   
## percent\_without\_hs\_education + percent\_caste + median\_age +   
## percent\_female + percent\_marital\_status, data = total)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -3.1721 -0.6354 0.0234 0.6553 3.3782   
##   
## Coefficients:  
## Estimate Std. Error t value  
## (Intercept) 19.141890 1.902471 10.062  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 3.262409 2.598781 1.255  
## percent\_public\_source -0.015336 0.011476 -1.336  
## percent\_private\_toilet 0.002198 0.003085 0.713  
## percent\_employed -1.872661 1.758649 -1.065  
## percent\_without\_hs\_education -4.896708 0.876314 -5.588  
## percent\_caste 0.009649 0.013259 0.728  
## median\_age 0.171759 0.029602 5.802  
## percent\_female 0.237280 0.220952 1.074  
## percent\_marital\_status -0.002502 0.008033 -0.311  
## Pr(>|t|)   
## (Intercept) < 2e-16 \*\*\*  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 0.212   
## percent\_public\_source 0.184   
## percent\_private\_toilet 0.477   
## percent\_employed 0.289   
## percent\_without\_hs\_education 1.39e-07 \*\*\*  
## percent\_caste 0.468   
## median\_age 5.13e-08 \*\*\*  
## percent\_female 0.285   
## percent\_marital\_status 0.756   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 1.304 on 124 degrees of freedom  
## Multiple R-squared: 0.6878, Adjusted R-squared: 0.6651   
## F-statistic: 30.35 on 9 and 124 DF, p-value: < 2.2e-16

## Estimate Std. Error  
## (Intercept) 19.141890064 1.902470572  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 3.262408550 2.598780939  
## percent\_public\_source -0.015336165 0.011475728  
## percent\_private\_toilet 0.002198002 0.003084910  
## percent\_employed -1.872661013 1.758648602  
## percent\_without\_hs\_education -4.896707983 0.876313792  
## percent\_caste 0.009648699 0.013259422  
## median\_age 0.171758736 0.029601712  
## percent\_female 0.237279776 0.220951619  
## percent\_marital\_status -0.002501728 0.008032938  
## t value Pr(>|t|)  
## (Intercept) 10.0615959 8.964268e-18  
## fuel\_used\_for\_cooking\_percent\_wood\_dung 1.2553611 2.117083e-01  
## percent\_public\_source -1.3364002 1.838656e-01  
## percent\_private\_toilet 0.7125011 4.774931e-01  
## percent\_employed -1.0648296 2.890222e-01  
## percent\_without\_hs\_education -5.5878477 1.388398e-07  
## percent\_caste 0.7276862 4.681775e-01  
## median\_age 5.8023244 5.128032e-08  
## percent\_female 1.0738992 2.849532e-01  
## percent\_marital\_status -0.3114338 7.559939e-01

## (Intercept)   
## 19.141890064   
## fuel\_used\_for\_cooking\_percent\_wood\_dung   
## 3.262408550   
## percent\_public\_source   
## -0.015336165   
## percent\_private\_toilet   
## 0.002198002   
## percent\_employed   
## -1.872661013   
## percent\_without\_hs\_education   
## -4.896707983   
## percent\_caste   
## 0.009648699   
## median\_age   
## 0.171758736   
## percent\_female   
## 0.237279776   
## percent\_marital\_status   
## -0.002501728

## 1 2 3 4 5 6 7 8   
## 25.78620 25.45537 24.86507 25.99506 26.46166 23.54413 23.93664 24.85589   
## 9 10 11 12 13 14 15 16   
## 24.38653 23.39706 23.26527 23.99857 23.98765 23.75104 27.15293 22.22045   
## 17 18 19 20 21 22 23 24   
## 25.17211 23.63523 23.70252 24.51726 21.51730 24.75523 23.32900 24.71544   
## 25 26 27 28 29 30 31 32   
## 24.21489 23.83094 25.55040 25.44259 22.39163 24.46718 23.90831 25.46683   
## 33 34 35 36 37 38 39 40   
## 25.54984 25.04446 25.04042 26.57191 27.22556 28.05538 25.98930 22.71427   
## 41 42 43 44 45 46 47 48   
## 29.05643 27.45206 26.97798 26.30589 27.30436 25.94896 27.16732 27.19421   
## 49 50 51 52 53 54 55 56   
## 27.58785 27.19403 28.49022 27.09321 28.69200 26.35900 26.14043 23.63540   
## 57 58 59 60 61 62 63 64   
## 24.19094 24.14811 21.84615 23.67305 22.08723 24.61047 27.90426 25.62182   
## 65 66 67 68 69 70 71 72   
## 23.76522 23.54782 23.22101 23.50936 23.57633 22.59708 26.85671 26.73628   
## 73 74 75 76 77 78 79 80   
## 26.93761 21.26676 25.55243 25.71927 22.91771 23.13115 27.60662 27.51439   
## 81 82 83 84 85 86 87 88   
## 28.29202 27.13143 21.91809 20.19073 23.99209 24.12947 23.12981 24.33344   
## 89 90 91 92 93 94 95 96   
## 23.45612 23.71866 26.71759 26.18092 23.90839 23.58299 25.57670 24.89553   
## 97 98 99 100 101 102 103 104   
## 26.58597 26.39960 22.91264 27.82836 21.17758 27.43296 26.86217 26.11349   
## 105 106 107 108 109 110 111 112   
## 27.58602 26.99302 24.28080 26.79840 24.89886 27.50170 24.31642 24.73422   
## 113 114 115 116 117 118 119 120   
## 22.63092 22.53418 25.55481 26.49003 26.71233 28.50824 27.45712 27.87379   
## 121 122 123 124 125 126 127 128   
## 24.55699 25.46134 23.72631 23.03115 27.07521 25.22154 23.31777 24.79118   
## 129 130 131 132 133 134   
## 26.75298 25.09299 25.86101 25.03510 24.96564 21.76852

## # A tibble: 1 x 11  
## r.squared adj.r.squared sigma statistic p.value df logLik AIC BIC  
## <dbl> <dbl> <dbl> <dbl> <dbl> <int> <dbl> <dbl> <dbl>  
## 1 0.688 0.665 1.30 30.4 2.29e-27 10 -221. 463. 495.  
## # … with 2 more variables: deviance <dbl>, df.residual <int>

|  |  |  |
| --- | --- | --- |
| term | estimate | p.value |
| (Intercept) | 19.142 | 0.000 |
| fuel\_used\_for\_cooking\_percent\_wood\_dung | 3.262 | 0.212 |
| percent\_public\_source | -0.015 | 0.184 |
| percent\_private\_toilet | 0.002 | 0.477 |
| percent\_employed | -1.873 | 0.289 |
| percent\_without\_hs\_education | -4.897 | 0.000 |
| percent\_caste | 0.010 | 0.468 |
| median\_age | 0.172 | 0.000 |
| percent\_female | 0.237 | 0.285 |
| percent\_marital\_status | -0.003 | 0.756 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| bmi | fuel\_used\_for\_cooking\_percent\_wood\_dung | percent\_public\_source | percent\_private\_toilet | percent\_employed | percent\_without\_hs\_education | percent\_caste | median\_age | percent\_female | percent\_marital\_status | .fitted | .se.fit | .resid | .hat | .sigma | .cooksd | .std.resid |
| 26 | 0.0000000 | 0.0270270 | 100.0000000 | 0.5405405 | 0.0270270 | 0.5675676 | 43.08108 | 0.7017544 | 0.8108108 | 25.78620 | 0.2996677 | 0.2138049 | 0.0528132 | 1.309113 | 0.0001583 | 0.1684734 |
| 26 | 0.0000000 | 0.0789474 | 0.7368421 | 0.5789474 | 0.0263158 | 0.2368421 | 42.89474 | 0.6666667 | 0.7631579 | 25.45537 | 0.2815477 | 0.5446257 | 0.0466194 | 1.308297 | 0.0008947 | 0.4277562 |
| 25 | 0.0277778 | 0.0555556 | 0.4722222 | 0.4444444 | 0.3055556 | 0.7500000 | 45.33333 | 0.7142857 | 0.8947368 | 24.86507 | 0.1785317 | 0.1349319 | 0.0187453 | 1.309205 | 0.0000208 | 0.1044613 |
| 26 | 0.0000000 | 0.1538462 | 0.7692308 | 0.6153846 | 0.0000000 | 0.4615385 | 47.07692 | 0.7000000 | 100.0000000 | 25.99506 | 0.7714329 | 0.0049363 | 0.3499928 | 1.309263 | 0.0000012 | 0.0046954 |
| 24 | 0.0277778 | 0.1944444 | 0.8333333 | 0.3888889 | 0.2500000 | 0.3888889 | 52.50000 | 0.6909091 | 0.9166667 | 26.46166 | 0.2988924 | -2.4616595 | 0.0525403 | 1.289252 | 0.0208588 | -1.9394518 |
| 23 | 0.0000000 | 0.3076923 | 0.7435897 | 0.5128205 | 0.2820513 | 0.4871795 | 38.35897 | 0.6551724 | 0.7435897 | 23.54413 | 0.1794076 | -0.5441324 | 0.0189297 | 1.308326 | 0.0003425 | -0.4212946 |
| 24 | 0.0000000 | 0.1351351 | 0.5405405 | 0.6486486 | 0.3513514 | 0.9189189 | 44.00000 | 0.7017544 | 0.7837838 | 23.93664 | 0.3372265 | 0.0633562 | 0.0668815 | 1.309250 | 0.0000181 | 0.0502982 |
| 25 | 0.0526316 | 0.3947368 | 0.9473684 | 0.5789474 | 0.2631579 | 100.0000000 | 39.57895 | 0.6666667 | 0.8157895 | 24.85589 | 1.3036690 | 0.1441097 | 0.9995337 | 1.162791 | 5614.5145571 | 5.1178905 |
| 26 | 0.0000000 | 0.2777778 | 0.3611111 | 0.4166667 | 0.4722222 | 0.0000000 | 47.72222 | 0.6153846 | 0.8055556 | 24.38653 | 0.3221462 | 1.6134744 | 0.0610336 | 1.300626 | 0.0105988 | 1.2769339 |
| 26 | 0.0000000 | 0.1500000 | 0.8500000 | 0.4250000 | 0.3500000 | 0.0750000 | 38.47500 | 0.6666667 | 0.8000000 | 23.39706 | 0.2465224 | 2.6029446 | 0.0357417 | 1.287262 | 0.0153173 | 2.0328233 |
| 23 | 0.0000000 | 0.1071429 | 0.9285714 | 0.6666667 | 0.3392857 | 0.6785714 | 40.00000 | 0.6666667 | 0.9107143 | 23.26527 | 0.3138904 | -0.2652691 | 0.0579454 | 1.309031 | 0.0002702 | -0.2095946 |
| 24 | 0.0000000 | 0.0344828 | 0.9137931 | 0.4655172 | 0.2068966 | 0.4137931 | 38.31034 | 0.6666667 | 0.8965517 | 23.99857 | 0.2282218 | 0.0014257 | 0.0306321 | 1.309263 | 0.0000000 | 0.0011105 |
| 24 | 0.0000000 | 0.3818182 | 0.8000000 | 0.4909091 | 0.2727273 | 0.8727273 | 40.41818 | 0.6585366 | 0.8909091 | 23.98765 | 0.1546163 | 0.0123542 | 0.0140596 | 1.309262 | 0.0000001 | 0.0095416 |
| 22 | 0.0000000 | 0.1636364 | 0.8909091 | 0.4909091 | 0.1818182 | 0.6545455 | 36.41818 | 0.6746988 | 0.8909091 | 23.75104 | 0.2669254 | -1.7510418 | 0.0419027 | 1.299289 | 0.0082315 | -1.3719021 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4545455 | 0.0606061 | 0.2121212 | 51.18182 | 0.6250000 | 0.8181818 | 27.15293 | 0.2271714 | -2.1529346 | 0.0303508 | 1.294336 | 0.0087997 | -1.6766982 |
| 22 | 0.0263158 | 0.8684211 | 0.1315789 | 0.7368421 | 0.4736842 | 0.8157895 | 38.05263 | 0.6896552 | 0.9210526 | 22.22045 | 0.4167704 | -0.2204454 | 0.1021542 | 1.309095 | 0.0003622 | -0.1784150 |
| 22 | 0.0000000 | 0.2702703 | 0.7837838 | 0.4594595 | 0.1891892 | 0.5945946 | 44.56757 | 0.6785714 | 0.8648649 | 25.17211 | 0.1504798 | -3.1721056 | 0.0133174 | 1.277207 | 0.0080951 | -2.4490085 |
| 23 | 0.1025641 | 0.0256410 | 0.9487179 | 0.5897436 | 0.2820513 | 0.6923077 | 37.74359 | 0.6551724 | 0.9487179 | 23.63523 | 0.3045604 | -0.6352324 | 0.0545519 | 1.307937 | 0.0014483 | -0.5010086 |
| 22 | 0.0000000 | 0.2105263 | 0.9473684 | 0.4210526 | 0.5263158 | 0.6315789 | 45.21053 | 0.6666667 | 0.8421053 | 23.70252 | 0.3245231 | -1.7025167 | 0.0619375 | 1.299634 | 0.0119987 | -1.3480528 |
| 25 | 0.0000000 | 0.0263158 | 0.8947368 | 0.4473684 | 0.2105263 | 0.2894737 | 41.21053 | 0.6896552 | 0.8947368 | 24.51726 | 0.1852954 | 0.4827384 | 0.0201926 | 1.308524 | 0.0002883 | 0.3740011 |
| 24 | 0.0540541 | 0.7837838 | 0.5675676 | 0.5405405 | 0.7297297 | 0.1621622 | 38.72973 | 0.6071429 | 0.9729730 | 21.51730 | 0.3771035 | 2.4826962 | 0.0836342 | 1.288210 | 0.0361041 | 1.9889347 |
| 26 | 0.0000000 | 0.1500000 | 0.9000000 | 0.5500000 | 0.1500000 | 0.4250000 | 42.02500 | 0.6666667 | 0.9250000 | 24.75523 | 0.1922665 | 1.2447679 | 0.0217405 | 1.304336 | 0.0020701 | 0.9651454 |
| 24 | 0.0000000 | 0.6923077 | 0.6666667 | 0.4871795 | 0.4102564 | 0.0256410 | 40.51282 | 0.6779661 | 0.8205128 | 23.32900 | 0.1883989 | 0.6709966 | 0.0208747 | 1.307835 | 0.0005766 | 0.5200350 |
| 24 | 0.0000000 | 0.8461538 | 0.6923077 | 0.4615385 | 0.3076923 | 0.2307692 | 45.38462 | 0.6779661 | 0.9230769 | 24.71544 | 0.1723260 | -0.7154397 | 0.0174648 | 1.307645 | 0.0005446 | -0.5535162 |
| 24 | 0.0000000 | 0.5365854 | 0.6585366 | 0.3902439 | 0.3170732 | 0.3658537 | 41.92683 | 0.6774194 | 0.9512195 | 24.21489 | 0.2418213 | -0.2148865 | 0.0343916 | 1.309114 | 0.0001002 | -0.1677027 |
| 24 | 0.0769231 | 0.3333333 | 0.7179487 | 0.5384615 | 0.3589744 | 0.7435897 | 41.00000 | 0.6779661 | 0.9487179 | 23.83094 | 0.2117356 | 0.1690609 | 0.0263664 | 1.309172 | 0.0000468 | 0.1313944 |
| 23 | 0.0000000 | 0.4102564 | 0.7179487 | 0.4102564 | 0.1282051 | 0.2051282 | 44.56410 | 0.6551724 | 0.9743590 | 25.55040 | 0.2086371 | -2.5503968 | 0.0256003 | 1.288370 | 0.0103145 | -1.9813928 |
| 25 | 0.0000000 | 0.1538462 | 0.7948718 | 0.4615385 | 0.1538462 | 0.0512821 | 45.17949 | 0.6779661 | 0.9487179 | 25.44259 | 0.1583312 | -0.4425936 | 0.0147433 | 1.308646 | 0.0001750 | -0.3419494 |
| 23 | 0.0000000 | 0.9250000 | 0.8250000 | 0.4500000 | 0.6250000 | 0.1750000 | 40.80000 | 0.6666667 | 0.9500000 | 22.39163 | 0.3471477 | 0.6083677 | 0.0708747 | 1.308026 | 0.0017871 | 0.4840167 |
| 25 | 0.0000000 | 0.2307692 | 0.8974359 | 0.5128205 | 0.2307692 | 0.1538462 | 42.28205 | 0.6551724 | 0.8205128 | 24.46718 | 0.1443519 | 0.5328224 | 0.0122548 | 1.308370 | 0.0002097 | 0.4111416 |
| 23 | 0.0000000 | 0.1750000 | 0.7750000 | 0.5000000 | 0.1750000 | 0.2500000 | 37.27500 | 0.6666667 | 0.9000000 | 23.90831 | 0.2456612 | -0.9083093 | 0.0354925 | 1.306604 | 0.0018512 | -0.7092712 |
| 25 | 0.0000000 | 0.1025641 | 0.7948718 | 0.3589744 | 0.1794872 | 0.2564103 | 44.94872 | 0.6551724 | 0.9487179 | 25.46683 | 0.2584238 | -0.4668254 | 0.0392760 | 1.308558 | 0.0005454 | -0.3652469 |
| 25 | 0.0000000 | 0.0270270 | 100.0000000 | 0.5945946 | 0.0270270 | 0.0270270 | 42.32432 | 0.7017544 | 0.7837838 | 25.54984 | 0.3414239 | -0.5498427 | 0.0685568 | 1.308255 | 0.0014050 | -0.4369097 |
| 23 | 0.0263158 | 0.4736842 | 0.9210526 | 0.4473684 | 0.2631579 | 0.8157895 | 45.28947 | 0.6896552 | 0.8157895 | 25.04446 | 0.1640534 | -2.0444605 | 0.0158283 | 1.296010 | 0.0040171 | -1.5804279 |
| 24 | 0.0256410 | 0.2307692 | 0.9743590 | 0.5384615 | 0.1538462 | 0.4102564 | 43.20513 | 0.6551724 | 0.9230769 | 25.04041 | 0.1841107 | -1.0404150 | 0.0199352 | 1.305829 | 0.0013213 | -0.8059546 |
| 26 | 0.0000000 | 0.0188679 | 100.0000000 | 0.3773585 | 0.0754717 | 0.1320755 | 47.32075 | 0.6750000 | 0.9811321 | 26.57191 | 0.2834171 | -0.5719102 | 0.0472405 | 1.308197 | 0.0010011 | -0.4493322 |
| 27 | 0.0000000 | 0.0526316 | 0.9473684 | 0.3157895 | 0.0789474 | 0.0000000 | 51.84211 | 0.6666667 | 0.8684211 | 27.22556 | 0.3198489 | -0.2255648 | 0.0601662 | 1.309095 | 0.0002038 | -0.1784338 |
| 28 | 0.0000000 | 0.0000000 | 0.9750000 | 0.5000000 | 0.0250000 | 0.0000000 | 48.85000 | 6.6666667 | 0.8750000 | 28.05538 | 1.3031885 | -0.0553753 | 0.9987971 | 1.301324 | 124.4802531 | -1.2244179 |
| 27 | 0.0000000 | 0.0769231 | 0.8846154 | 0.4230769 | 0.0961538 | 0.0192308 | 46.30769 | 0.6666667 | 0.9423077 | 25.98930 | 0.1984665 | 1.0106968 | 0.0231653 | 1.306012 | 0.0014585 | 0.7842269 |
| 23 | 0.0000000 | 0.8285714 | 0.0285714 | 0.6000000 | 0.4571429 | 0.4000000 | 39.57143 | 0.6274510 | 0.9428571 | 22.71427 | 0.2581731 | 0.2857252 | 0.0391999 | 1.308999 | 0.0002039 | 0.2235442 |
| 26 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3030303 | 0.0000000 | 0.0303030 | 58.81818 | 0.6800000 | 0.7878788 | 29.05643 | 0.3544967 | -3.0564253 | 0.0739073 | 1.277560 | 0.0473444 | -2.4356672 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4000000 | 0.0333333 | 0.0000000 | 51.46667 | 0.6956522 | 0.9000000 | 27.45206 | 0.2396514 | 1.5479355 | 0.0337771 | 1.301541 | 0.0050984 | 1.2076625 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4444444 | 0.0000000 | 0.0000000 | 48.25926 | 0.6829268 | 0.9629630 | 26.97798 | 0.2392990 | 2.0220185 | 0.0336779 | 1.296060 | 0.0086723 | 1.5774498 |
| 26 | 0.0000000 | 0.0263158 | 100.0000000 | 0.5526316 | 0.0526316 | 0.0789474 | 47.07895 | 0.6428571 | 0.9210526 | 26.30589 | 0.2701920 | -0.3058886 | 0.0429346 | 1.308959 | 0.0002579 | -0.2397860 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3947368 | 0.1052632 | 0.0526316 | 52.60526 | 0.6896552 | 0.8947368 | 27.30436 | 0.2556391 | -0.3043632 | 0.0384342 | 1.308964 | 0.0002265 | -0.2380312 |
| 25 | 0.0000000 | 0.0000000 | 0.9666667 | 0.5666667 | 0.0333333 | 0.1000000 | 45.83333 | 0.6666667 | 0.8333333 | 25.94896 | 0.2685384 | -0.9489586 | 0.0424107 | 1.306340 | 0.0024495 | -0.7436850 |
| 28 | 0.0400000 | 0.0000000 | 100.0000000 | 0.5000000 | 0.1000000 | 0.0000000 | 52.08000 | 0.6666667 | 0.9000000 | 27.16732 | 0.2686732 | 0.8326848 | 0.0424533 | 1.307013 | 0.0018881 | 0.6525774 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4761905 | 0.0000000 | 0.0000000 | 49.85714 | 0.6875000 | 0.9047619 | 27.19421 | 0.2313675 | 1.8057869 | 0.0314824 | 1.298767 | 0.0064365 | 1.4071621 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4473684 | 0.0000000 | 0.0263158 | 51.89474 | 0.6428571 | 0.8947368 | 27.58785 | 0.2313147 | 0.4121522 | 0.0314680 | 1.308718 | 0.0003351 | 0.3211679 |
| 29 | 0.0000000 | 0.0000000 | 0.9855072 | 0.4347826 | 0.0144928 | 0.0434783 | 51.10145 | 0.6730769 | 0.8405797 | 27.19403 | 0.2502761 | 1.8059665 | 0.0368385 | 1.298707 | 0.0076170 | 1.4112096 |
| 30 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4615385 | 0.0512821 | 0.0000000 | 58.71795 | 0.6779661 | 0.8974359 | 28.49022 | 0.3502692 | 1.5097849 | 0.0721550 | 1.301613 | 0.0112359 | 1.2020119 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5483871 | 0.0000000 | 0.0000000 | 51.54839 | 0.6521739 | 100.0000000 | 27.09321 | 0.7802949 | -0.0932078 | 0.3580802 | 1.309221 | 0.0004440 | -0.0892161 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4117647 | 0.0000000 | 0.0000000 | 57.94118 | 0.6400000 | 0.9411765 | 28.69200 | 0.3034186 | -1.6920022 | 0.0541436 | 1.299832 | 0.0101897 | -1.3341963 |
| 26 | 0.0000000 | 0.1304348 | 0.8695652 | 0.4347826 | 0.1304348 | 0.1086957 | 49.56522 | 0.6666667 | 0.9565217 | 26.35900 | 0.2061579 | -0.3590009 | 0.0249956 | 1.308852 | 0.0001993 | -0.2788198 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5641026 | 0.1025641 | 0.1282051 | 47.64103 | 0.6551724 | 0.8461538 | 26.14043 | 0.2793679 | 0.8595674 | 0.0459003 | 1.306856 | 0.0021910 | 0.6748612 |
| 23 | 0.0000000 | 0.1315789 | 0.9736842 | 0.4736842 | 0.2105263 | 0.4210526 | 36.39474 | 0.6666667 | 0.8157895 | 23.63540 | 0.2662345 | -0.6353987 | 0.0416861 | 1.307954 | 0.0010778 | -0.4977644 |
| 24 | 0.0000000 | 0.0500000 | 0.9500000 | 0.5250000 | 0.0750000 | 0.5750000 | 36.25000 | 0.7096774 | 0.8250000 | 24.19094 | 0.3211206 | -0.1909416 | 0.0606456 | 1.309143 | 0.0001474 | -0.1510835 |
| 24 | 0.0000000 | 0.0243902 | 0.8536585 | 0.5121951 | 0.1951220 | 0.2682927 | 39.31707 | 0.6984127 | 0.8048780 | 24.14811 | 0.1888680 | -0.1481144 | 0.0209788 | 1.309193 | 0.0000282 | -0.1147975 |
| 21 | 0.0000000 | 0.4594595 | 0.4324324 | 0.4054054 | 0.4594595 | 0.4324324 | 32.35135 | 0.6785714 | 0.9729730 | 21.84615 | 0.4014152 | -0.8461453 | 0.0947655 | 1.306805 | 0.0048695 | -0.6820179 |
| 24 | 0.0000000 | 0.0512821 | 0.8717949 | 0.5128205 | 0.2307692 | 0.5384615 | 37.58974 | 0.6779661 | 0.8205128 | 23.67305 | 0.2086143 | 0.3269515 | 0.0255948 | 1.308922 | 0.0001695 | 0.2540065 |
| 24 | 0.2549020 | 0.3421053 | 0.7894737 | 0.6052632 | 0.7368421 | 0.1052632 | 39.05263 | 0.6428571 | 0.9473684 | 22.08723 | 0.6505554 | 1.9127670 | 0.2489037 | 1.294051 | 0.0949351 | 1.6925661 |
| 27 | 0.0000000 | 0.1538462 | 0.8974359 | 0.5128205 | 0.2051282 | 0.0769231 | 42.38462 | 0.6551724 | 0.9487179 | 24.61047 | 0.1493190 | 2.3895328 | 0.0131127 | 1.291174 | 0.0045211 | 1.8446357 |
| 28 | 0.0000000 | 0.0000000 | 0.8333333 | 0.4166667 | 0.0000000 | 0.0000000 | 56.08333 | 0.6666667 | 100.0000000 | 27.90426 | 0.7851997 | 0.0957375 | 0.3625960 | 1.309218 | 0.0004811 | 0.0919615 |
| 29 | 0.0000000 | 0.0000000 | 0.9729730 | 0.4054054 | 0.1621622 | 0.0000000 | 45.86486 | 0.6545455 | 0.7837838 | 25.62182 | 0.1967480 | 3.3781782 | 0.0227658 | 1.272488 | 0.0159998 | 2.6206838 |
| 26 | 0.0000000 | 0.2666667 | 0.8000000 | 0.4666667 | 0.2666667 | 0.1333333 | 38.66667 | 0.6956522 | 0.9333333 | 23.76522 | 0.2020704 | 2.2347849 | 0.0240142 | 1.293278 | 0.0074048 | 1.7347838 |
| 21 | 0.0256410 | 0.0512821 | 0.8974359 | 0.4871795 | 0.4102564 | 0.7692308 | 41.23077 | 0.6551724 | 0.9230769 | 23.54782 | 0.1793552 | -2.5478166 | 0.0189187 | 1.288556 | 0.0075038 | -1.9726364 |
| 23 | 0.0500000 | 0.2500000 | 0.7000000 | 0.5000000 | 0.4250000 | 0.4250000 | 39.45000 | 0.6666667 | 0.9750000 | 23.22101 | 0.1975429 | -0.2210138 | 0.0229502 | 1.309108 | 0.0000691 | -0.1714717 |
| 22 | 0.0000000 | 0.2500000 | 0.6500000 | 0.5000000 | 0.3250000 | 0.4500000 | 39.22500 | 0.6666667 | 0.8500000 | 23.50936 | 0.1673468 | -1.5093625 | 0.0164701 | 1.302051 | 0.0022812 | -1.1671621 |
| 24 | 0.0000000 | 0.1351351 | 0.8918919 | 0.5675676 | 0.2972973 | 0.4324324 | 39.56757 | 0.6545455 | 0.9459459 | 23.57633 | 0.1833201 | 0.4236700 | 0.0197644 | 1.308694 | 0.0002171 | 0.3281662 |
| 21 | 0.0000000 | 0.2500000 | 0.8888889 | 0.6666667 | 0.4166667 | 0.6111111 | 38.33333 | 0.6666667 | 0.9444444 | 22.59708 | 0.3176035 | -1.5970792 | 0.0593244 | 1.300817 | 0.0100570 | -1.2628097 |
| 26 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5454545 | 0.0000000 | 0.0000000 | 48.70455 | 0.6461538 | 0.9090909 | 26.85671 | 0.2741817 | -0.8567149 | 0.0442120 | 1.306877 | 0.0020891 | -0.6720273 |
| 27 | 0.0000000 | 0.0000000 | 0.9607843 | 0.5294118 | 0.0000000 | 0.0196078 | 49.07843 | 0.6578947 | 0.9019608 | 26.73628 | 0.2751526 | 0.2637197 | 0.0445256 | 1.309037 | 0.0001995 | 0.2069019 |
| 27 | 0.0000000 | 0.0000000 | 0.9285714 | 0.3928571 | 0.0000000 | 0.0000000 | 48.75000 | 0.6666667 | 0.8214286 | 26.93761 | 0.2594549 | 0.0623873 | 0.0395901 | 1.309250 | 0.0000098 | 0.0488201 |
| 23 | 0.0975610 | 0.3414634 | 0.2439024 | 0.5609756 | 0.7317073 | 0.2195122 | 36.58537 | 0.6774194 | 0.7804878 | 21.26676 | 0.3884683 | 1.7332415 | 0.0887512 | 1.298987 | 0.0188834 | 1.3924255 |
| 26 | 0.0000000 | 0.0000000 | 0.9333333 | 0.5833333 | 0.0166667 | 0.0333333 | 43.21667 | 0.6813187 | 0.9333333 | 25.55243 | 0.2898188 | 0.4475660 | 0.0493987 | 1.308609 | 0.0006440 | 0.3520378 |
| 27 | 0.0000000 | 0.0750000 | 0.9000000 | 0.4250000 | 0.2250000 | 0.1000000 | 48.42500 | 0.6666667 | 0.9500000 | 25.71927 | 0.2001150 | 1.2807306 | 0.0235517 | 1.304037 | 0.0023829 | 0.9939500 |
| 23 | 0.0000000 | 0.5263158 | 0.5789474 | 0.5526316 | 0.4736842 | 0.3684211 | 40.65789 | 0.6428571 | 0.9736842 | 22.91771 | 0.2366033 | 0.0822894 | 0.0329234 | 1.309241 | 0.0000140 | 0.0641719 |
| 23 | 0.0000000 | 0.6000000 | 0.3500000 | 0.5500000 | 0.4750000 | 0.1000000 | 41.90000 | 0.6666667 | 0.9000000 | 23.13115 | 0.2489089 | -0.1311487 | 0.0364371 | 1.309208 | 0.0000397 | -0.1024602 |
| 29 | 0.0000000 | 0.0263158 | 0.9736842 | 0.5000000 | 0.0526316 | 0.0000000 | 55.31579 | 0.6666667 | 0.8421053 | 27.60662 | 0.3561277 | 1.3933755 | 0.0745889 | 1.302733 | 0.0099450 | 1.1107906 |
| 28 | 0.0256410 | 0.0000000 | 100.0000000 | 0.5641026 | 0.0512821 | 0.0000000 | 53.66667 | 0.6779661 | 0.8205128 | 27.51439 | 0.3412396 | 0.4856106 | 0.0684828 | 1.308477 | 0.0010946 | 0.3858550 |
| 29 | 0.0000000 | 0.0303030 | 100.0000000 | 0.3636364 | 0.0000000 | 0.0303030 | 55.03030 | 0.6800000 | 0.7272727 | 28.29202 | 0.2754655 | 0.7079837 | 0.0446269 | 1.307633 | 0.0014413 | 0.5554796 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3750000 | 0.0000000 | 0.0000000 | 48.41667 | 0.6666667 | 0.8750000 | 27.13143 | 0.2841404 | 0.8685747 | 0.0474820 | 1.306802 | 0.0023220 | 0.6824989 |
| 19 | 0.0000000 | 0.9750000 | 0.0000000 | 0.5500000 | 0.5250000 | 0.3750000 | 36.35000 | 0.6206897 | 0.9750000 | 21.91809 | 0.2568074 | -2.9180883 | 0.0387862 | 1.281463 | 0.0210231 | -2.2825475 |
| 21 | 0.0000000 | 100.0000000 | 0.0000000 | 0.5405405 | 0.6216216 | 0.6756757 | 37.75676 | 0.6296296 | 0.9459459 | 20.19073 | 1.1615754 | 0.8092711 | 0.7935195 | 1.299378 | 0.7168865 | 1.3657962 |
| 24 | 0.0000000 | 0.2931034 | 0.6896552 | 0.5344828 | 0.1896552 | 0.3275862 | 38.58621 | 0.6511628 | 0.9655172 | 23.99209 | 0.2059236 | 0.0079090 | 0.0249388 | 1.309263 | 0.0000001 | 0.0061424 |
| 27 | 0.0000000 | 0.0000000 | 0.9148936 | 0.5744681 | 0.1914894 | 0.4255319 | 39.82979 | 0.6571429 | 0.8510638 | 24.12947 | 0.2094678 | 2.8705331 | 0.0258046 | 1.282733 | 0.0131763 | 2.2303392 |
| 22 | 0.0000000 | 0.1666667 | 0.8333333 | 0.6666667 | 0.3611111 | 0.7500000 | 39.83333 | 0.6666667 | 0.7222222 | 23.12981 | 0.3160682 | -1.1298086 | 0.0587522 | 1.305046 | 0.0049784 | -0.8930675 |
| 24 | 0.0000000 | 0.0000000 | 0.7068966 | 0.5517241 | 0.2586207 | 0.5172414 | 42.68966 | 0.6511628 | 0.8965517 | 24.33344 | 0.1714633 | -0.3334383 | 0.0172904 | 1.308912 | 0.0001171 | -0.2579493 |
| 22 | 0.0000000 | 0.0869565 | 0.7391304 | 0.5652174 | 0.2826087 | 0.2608696 | 38.41304 | 0.6666667 | 0.8913043 | 23.45612 | 0.1913737 | -1.4561178 | 0.0215391 | 1.302518 | 0.0028054 | -1.1289018 |
| 22 | 0.0000000 | 0.0000000 | 0.9743590 | 0.5384615 | 0.3333333 | 0.2564103 | 41.10256 | 0.6551724 | 0.9743590 | 23.71866 | 0.1641678 | -1.7186599 | 0.0158503 | 1.299911 | 0.0028429 | -1.3285893 |
| 28 | 0.0175439 | 0.0000000 | 0.9824561 | 0.3859649 | 0.0350877 | 0.0350877 | 48.07018 | 0.6588235 | 0.8947368 | 26.71759 | 0.2604235 | 1.2824128 | 0.0398862 | 1.303934 | 0.0041850 | 1.0036860 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4531250 | 0.0312500 | 0.0156250 | 44.62500 | 0.6666667 | 0.9062500 | 26.18092 | 0.2754313 | 1.8190777 | 0.0446159 | 1.298465 | 0.0095126 | 1.4272289 |
| 24 | 0.0169492 | 0.1355932 | 0.7796610 | 0.4915254 | 0.2711864 | 0.2372881 | 39.61017 | 0.6590909 | 0.8474576 | 23.90839 | 0.1662920 | 0.0916110 | 0.0162632 | 1.309236 | 0.0000083 | 0.0708336 |
| 24 | 0.0000000 | 0.2131148 | 0.9672131 | 0.5081967 | 0.4426230 | 0.1147541 | 43.09836 | 0.6739130 | 0.8852459 | 23.58299 | 0.2228413 | 0.4170094 | 0.0292048 | 1.308707 | 0.0003169 | 0.3245738 |
| 26 | 0.0000000 | 0.0800000 | 0.9800000 | 0.4800000 | 0.1800000 | 0.0000000 | 46.94000 | 0.6486486 | 0.8400000 | 25.57670 | 0.1679783 | 0.4233027 | 0.0165947 | 1.308697 | 0.0001808 | 0.3273529 |
| 24 | 0.0000000 | 0.0526316 | 0.8684211 | 0.5526316 | 0.0526316 | 0.2105263 | 40.13158 | 0.6428571 | 0.9473684 | 24.89553 | 0.2692664 | -0.8955261 | 0.0426410 | 1.306660 | 0.0021943 | -0.7018951 |
| 26 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4000000 | 0.0750000 | 0.0500000 | 47.65000 | 0.6666667 | 0.9500000 | 26.58597 | 0.2580038 | -0.5859688 | 0.0391485 | 1.308153 | 0.0008563 | -0.4584350 |
| 25 | 0.0000000 | 0.0285714 | 0.9142857 | 0.4571429 | 0.0857143 | 0.1142857 | 48.74286 | 0.6792453 | 0.9428571 | 26.39960 | 0.2010291 | -1.3995967 | 0.0237673 | 1.303018 | 0.0028730 | -1.0863196 |
| 22 | 0.0540541 | 0.1081081 | 0.1351351 | 0.5675676 | 0.5405405 | 0.2432432 | 41.59459 | 0.6785714 | 0.8378378 | 22.91264 | 0.2828754 | -0.9126419 | 0.0470601 | 1.306546 | 0.0025385 | -0.7169668 |
| 27 | 0.0000000 | 0.0175439 | 100.0000000 | 0.4561404 | 0.0000000 | 0.0000000 | 53.35088 | 0.6744186 | 0.9473684 | 27.82836 | 0.2439320 | -0.8283600 | 0.0349945 | 1.307053 | 0.0015165 | -0.6466743 |
| 23 | 0.0416667 | 0.2708333 | 0.3125000 | 0.5625000 | 0.6666667 | 0.3541667 | 35.29167 | 0.6666667 | 0.8750000 | 21.17758 | 0.3259271 | 1.8224199 | 0.0624746 | 1.298218 | 0.0138834 | 1.4434054 |
| 28 | 0.0000000 | 0.0000000 | 100.0000000 | 0.3859649 | 0.0350877 | 0.0175439 | 51.28070 | 0.6744186 | 0.8947368 | 27.43296 | 0.2488529 | 0.5670402 | 0.0364207 | 1.308227 | 0.0007418 | 0.4429978 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4871795 | 0.1025641 | 0.1025641 | 50.97436 | 0.6779661 | 0.8461538 | 26.86217 | 0.2410295 | 0.1378264 | 0.0341667 | 1.309202 | 0.0000409 | 0.1075506 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4102564 | 0.2564103 | 0.3589744 | 50.17949 | 0.6551724 | 0.8205128 | 26.11349 | 0.2914737 | -1.1134883 | 0.0499645 | 1.305205 | 0.0040366 | -0.8760868 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.5333333 | 0.0333333 | 0.1333333 | 53.73333 | 0.6666667 | 0.9333333 | 27.58602 | 0.3072121 | -0.5860216 | 0.0555059 | 1.308134 | 0.0012567 | -0.4624293 |
| 27 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4324324 | 0.0000000 | 0.0540541 | 48.21622 | 0.6785714 | 0.7837838 | 26.99302 | 0.2442005 | 0.0069808 | 0.0350716 | 1.309263 | 0.0000001 | 0.0054499 |
| 25 | 0.0000000 | 0.0697674 | 0.9302326 | 0.4186047 | 0.1860465 | 0.0000000 | 38.86047 | 0.6769231 | 0.9534884 | 24.28080 | 0.2716458 | 0.7191961 | 0.0433979 | 1.307583 | 0.0014427 | 0.5639142 |
| 27 | 0.0000000 | 0.0750000 | 100.0000000 | 0.4250000 | 0.1000000 | 0.0250000 | 49.85000 | 0.6885246 | 0.9500000 | 26.79840 | 0.2304689 | 0.2016012 | 0.0312383 | 1.309133 | 0.0000796 | 0.1570782 |
| 26 | 0.0161290 | 0.1774194 | 0.7903226 | 0.4354839 | 0.1935484 | 0.1129032 | 42.54839 | 0.6808511 | 0.8387097 | 24.89886 | 0.1872697 | 1.1011373 | 0.0206252 | 1.305414 | 0.0015334 | 0.8532934 |
| 29 | 0.0000000 | 0.0000000 | 0.9000000 | 0.4750000 | 0.0000000 | 0.0000000 | 52.90000 | 0.6885246 | 0.8250000 | 27.50170 | 0.2925484 | 1.4982995 | 0.0503336 | 1.301903 | 0.0073685 | 1.1790833 |
| 26 | 0.0000000 | 0.1621622 | 0.6756757 | 0.3783784 | 0.3243243 | 0.1891892 | 42.56757 | 0.6785714 | 0.7837838 | 24.31642 | 0.2541242 | 1.6835802 | 0.0379800 | 1.300083 | 0.0068410 | 1.3163553 |
| 23 | 0.0000000 | 0.0555556 | 100.0000000 | 0.5277778 | 0.2777778 | 0.6666667 | 44.08333 | 0.6153846 | 0.8888889 | 24.73422 | 0.2820344 | -1.7342173 | 0.0467807 | 1.299430 | 0.0091065 | -1.3621925 |
| 23 | 0.0000000 | 0.1282051 | 100.0000000 | 0.4615385 | 0.4615385 | 0.5128205 | 36.28205 | 0.6779661 | 0.8205128 | 22.63092 | 0.4375028 | 0.3690778 | 0.1125705 | 1.308786 | 0.0011451 | 0.3004571 |
| 22 | 0.0000000 | 0.6052632 | 0.7105263 | 0.4736842 | 0.5526316 | 0.4210526 | 39.81579 | 0.6428571 | 0.8684211 | 22.53418 | 0.2804122 | -0.5341807 | 0.0462441 | 1.308334 | 0.0008531 | -0.4194701 |
| 26 | 0.0000000 | 0.0476190 | 0.9523810 | 0.4285714 | 0.1269841 | 0.0952381 | 44.69841 | 0.6736842 | 0.8730159 | 25.55481 | 0.1894729 | 0.4451907 | 0.0211133 | 1.308634 | 0.0002568 | 0.3450732 |
| 27 | 0.0000000 | 0.0000000 | 0.9444444 | 0.3888889 | 0.1388889 | 0.0000000 | 50.02778 | 0.6909091 | 0.8888889 | 26.49003 | 0.2325908 | 0.5099666 | 0.0318162 | 1.308429 | 0.0005191 | 0.3974607 |
| 28 | 0.0000000 | 0.0000000 | 0.9473684 | 0.4473684 | 0.0526316 | 0.1578947 | 49.52632 | 0.6666667 | 0.9736842 | 26.71233 | 0.2196788 | 1.2876670 | 0.0283817 | 1.303954 | 0.0029317 | 1.0018140 |
| 28 | 0.0000000 | 0.0263158 | 0.9736842 | 0.3684211 | 0.0000000 | 0.0000000 | 57.63158 | 0.6666667 | 0.9473684 | 28.50824 | 0.3671097 | -0.5082425 | 0.0792601 | 1.308392 | 0.0014203 | -0.4061944 |
| 29 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4358974 | 0.0769231 | 0.0000000 | 53.15385 | 0.6779661 | 0.8461538 | 27.45712 | 0.2451053 | 1.5428795 | 0.0353320 | 1.301579 | 0.0053154 | 1.2046877 |
| 28 | 0.0000000 | 0.0000000 | 0.9000000 | 0.4000000 | 0.0666667 | 0.0666667 | 56.13333 | 0.6956522 | 0.6666667 | 27.87379 | 0.3331992 | 0.1262133 | 0.0652936 | 1.309210 | 0.0000700 | 0.1001150 |
| 25 | 0.0000000 | 0.0810811 | 0.8918919 | 0.5135135 | 0.1351351 | 0.4324324 | 40.02703 | 0.6785714 | 0.9729730 | 24.55699 | 0.2073685 | 0.4430059 | 0.0252900 | 1.308638 | 0.0003072 | 0.3441147 |
| 24 | 0.0500000 | 0.0250000 | 100.0000000 | 0.4750000 | 0.1000000 | 0.2000000 | 41.67500 | 0.6666667 | 0.8250000 | 25.46134 | 0.3289442 | -1.4613401 | 0.0636366 | 1.302163 | 0.0091156 | -1.1581385 |
| 23 | 0.1724138 | 0.8275862 | 0.0000000 | 0.5862069 | 0.2758621 | 0.5862069 | 36.82759 | 0.6511628 | 0.9655172 | 23.72631 | 0.4580659 | -0.7263076 | 0.1234010 | 1.307393 | 0.0049822 | -0.5949103 |
| 23 | 0.0000000 | 0.2162162 | 0.7297297 | 0.5405405 | 0.2972973 | 0.4324324 | 36.10811 | 0.6545455 | 0.9459459 | 23.03115 | 0.2171172 | -0.0311502 | 0.0277237 | 1.309260 | 0.0000017 | -0.0242268 |
| 27 | 0.0270270 | 0.0000000 | 100.0000000 | 0.4594595 | 0.0270270 | 0.1621622 | 49.24324 | 0.6785714 | 0.9729730 | 27.07521 | 0.2357217 | -0.0752072 | 0.0326785 | 1.309245 | 0.0000116 | -0.0586415 |
| 23 | 0.0000000 | 0.3333333 | 0.6944444 | 0.3888889 | 0.3055556 | 0.4166667 | 47.47222 | 0.6415094 | 0.9166667 | 25.22154 | 0.2403304 | -2.2215442 | 0.0339688 | 1.293304 | 0.0105650 | -1.7333679 |
| 23 | 0.0256410 | 0.1538462 | 0.4102564 | 0.4615385 | 0.4615385 | 0.5128205 | 41.10256 | 0.6551724 | 0.8461538 | 23.31777 | 0.2202197 | -0.3177746 | 0.0285217 | 1.308940 | 0.0001795 | -0.2472487 |
| 25 | 0.0000000 | 0.0000000 | 0.9487179 | 0.5128205 | 0.2564103 | 0.3076923 | 44.87179 | 0.6551724 | 0.9743590 | 24.79118 | 0.1597621 | 0.2088166 | 0.0150110 | 1.309126 | 0.0000397 | 0.1613544 |
| 24 | 0.0000000 | 0.0000000 | 0.9117647 | 0.4705882 | 0.0588235 | 0.0294118 | 50.23529 | 0.6400000 | 0.8461538 | 26.75298 | 0.2330804 | -2.7529769 | 0.0319503 | 1.284725 | 0.0151966 | -2.1457796 |
| 26 | 0.0000000 | 0.0263158 | 0.9210526 | 0.6052632 | 0.0526316 | 0.3947368 | 41.84211 | 0.6428571 | 0.9736842 | 25.09299 | 0.2960361 | 0.9070063 | 0.0515409 | 1.306567 | 0.0027720 | 0.7142206 |
| 26 | 0.0000000 | 0.0000000 | 0.9714286 | 0.5428571 | 0.0857143 | 0.1428571 | 46.57143 | 0.6538462 | 0.9142857 | 25.86101 | 0.2276024 | 0.1389947 | 0.0304661 | 1.309201 | 0.0000368 | 0.1082550 |
| 25 | 0.0000000 | 0.0000000 | 0.9090909 | 0.4848485 | 0.1515152 | 0.2727273 | 43.00000 | 0.6530612 | 0.8484848 | 25.03510 | 0.1627295 | -0.0350986 | 0.0155738 | 1.309259 | 0.0000012 | -0.0271287 |
| 25 | 0.0000000 | 0.0000000 | 100.0000000 | 0.4705882 | 0.1470588 | 0.1176471 | 41.00000 | 0.6923077 | 0.8823529 | 24.96564 | 0.3097645 | 0.0343596 | 0.0564321 | 1.309259 | 0.0000044 | 0.0271264 |
| 21 | 0.5526316 | 100.0000000 | 0.0000000 | 0.5789474 | 0.6842105 | 0.6578947 | 38.63158 | 0.6428571 | 0.9210526 | 21.76852 | 1.1619111 | -0.7685240 | 0.7939782 | 1.300331 | 0.6497705 | -1.2984710 |

## Warning in sqrt(crit \* p \* (1 - hh)/hh): NaNs produced  
  
## Warning in sqrt(crit \* p \* (1 - hh)/hh): NaNs produced

