Table 1: Bunya Data - RNA viruses (Hunter): E-values for each group

| group | median | Q1 | Q3 | mean | sd | max | min |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Hepeviridae | 70.0227338 | 70.0227338 | 70.0227338 | 70.0227338 | NA | 70.022733788 | 70.0227338 |
| Hantaviridae | 45.9001018 | 34.9741394 | 56.8260643 | 45.9001018 | 30.9032885 | 24.048176965 | 67.7520267 |
| Astroviridae | 40.7216136 | 22.3803256 | 128.9890206 | 71.5412695 | 62.8988530 | 11.866461092 | 172.7904850 |
| Discoviridae | 26.3555614 | 20.0957574 | 36.6167564 | 28.0174003 | 13.0701829 | 5.688246139 | 50.6363880 |
| Picornaviridae | 26.2580374 | 5.5353077 | 38.9402161 | 26.2432924 | 18.4246542 | 0.207608311 | 68.5734887 |
| Nodaviridae | 25.3809067 | 22.5301780 | 58.7121983 | 34.9716720 | 22.4813245 | 9.522878745 | 58.7121983 |
| Phasmaviridae | 24.0433514 | 15.2588484 | 29.2189631 | 26.3881433 | 20.8445921 | 2.397940009 | 82.1938200 |
| unclassified Kitrinoviricota | 23.9564502 | 19.4982277 | 28.4146727 | 23.9564502 | 12.6097575 | 15.040005162 | 32.8728952 |
| Picobirnaviridae | 23.0798767 | 17.3460552 | 30.2825256 | 23.0932585 | 7.9885784 | 8.832682665 | 41.6234230 |
| Barnaviridae | 22.7042618 | 15.0628113 | 30.3457123 | 22.7042618 | 21.6132859 | 7.421360790 | 37.9871628 |
| Tobaniviridae | 22.1480278 | 17.0708928 | 28.2485286 | 21.2331071 | 13.4392326 | 0.698970004 | 41.6363880 |
| unclassified Pisuviricota | 22.0746879 | 8.8326827 | 29.9788107 | 20.0084476 | 11.5681792 | 0.619788758 | 39.1549020 |
| Sedoreoviridae | 21.3861582 | 14.6145519 | 26.5775192 | 20.9321302 | 13.2868402 | 1.292429824 | 41.4621809 |
| Bromoviridae | 21.0017407 | 12.0076801 | 26.2011524 | 19.1161955 | 11.2442284 | 3.634512015 | 32.7594508 |
| Virgaviridae | 20.6946486 | 6.9030900 | 24.2814983 | 24.1119331 | 27.3809447 | 1.004364805 | 99.0467237 |
| Paramyxoviridae | 20.5575202 | 17.0890566 | 28.7879947 | 22.6082721 | 13.0163150 | 1.244125144 | 50.0793550 |
| Dicistroviridae | 20.3685562 | 13.5816987 | 23.5171264 | 18.7388057 | 9.8394724 | 0.420216403 | 33.0856568 |
| Chrysoviridae | 19.7985685 | 17.9014532 | 22.7787184 | 20.8816031 | 5.0314065 | 16.141462802 | 27.7878124 |
| Lispiviridae | 17.7986029 | 16.4202164 | 18.7644716 | 17.9393907 | 6.3522919 | 9.467245621 | 27.2464169 |
| Totiviridae | 17.2471836 | 11.1091568 | 20.0747792 | 15.7733773 | 8.0916902 | 0.481486060 | 42.9100949 |
| Mymonaviridae | 16.6258788 | 15.4529807 | 21.9394811 | 17.0752313 | 7.8121192 | 1.107905397 | 26.8996295 |
| Orthomyxoviridae | 16.2041116 | 10.7465743 | 21.6616490 | 16.2041116 | 15.4362468 | 5.289036881 | 27.1191864 |
| Rhabdoviridae | 15.9775029 | 7.6914671 | 20.0412226 | 20.5411887 | 30.6611422 | 0.004364805 | 131.7351822 |
| Chuviridae | 15.7985771 | 12.3474850 | 18.8984392 | 14.0280123 | 7.0574794 | 1.346787486 | 20.0952845 |
| Botourmiaviridae | 15.0593533 | 11.2099822 | 20.3953617 | 15.3721239 | 6.5351578 | 0.886056648 | 26.2298847 |
| Iflaviridae | 14.5083402 | 10.4537881 | 16.6948280 | 14.6109793 | 5.8855939 | 7.220403509 | 26.3269791 |
| Hypoviridae | 14.1433560 | 7.6958606 | 21.2443288 | 14.4322802 | 8.5886727 | 4.143271110 | 25.0056828 |
| Alphaflexiviridae | 13.0376307 | 1.3372422 | 25.0856568 | 19.1943333 | 24.7603438 | 1.301029996 | 78.0665127 |
| Tombusviridae | 12.1643691 | 7.2094576 | 17.3501074 | 17.9692261 | 19.6936392 | 2.301029996 | 72.3027707 |
| Phenuiviridae | 11.4798254 | 6.6252517 | 20.9713566 | 17.7903328 | 17.2153140 | 0.004364805 | 72.7144427 |
| Tymoviridae | 10.2125395 | 7.1781158 | 12.6950972 | 18.6122778 | 27.1953164 | 0.823908741 | 79.5030704 |
| Marnaviridae | 9.9355420 | 5.1097693 | 20.5195079 | 13.7743375 | 15.7642731 | 0.283996656 | 31.1034738 |
| Solemoviridae | 9.5231805 | 3.6672586 | 15.1654465 | 9.5600737 | 6.9005187 | 0.327902142 | 19.0390538 |
| Deltaflexiviridae | 9.5214335 | 9.5214335 | 9.5214335 | 9.5214335 | NA | 9.521433504 | 9.5214335 |
| Fiersviridae | 9.4420218 | 7.2123632 | 12.5245845 | 10.5377647 | 5.2047440 | 5.005243055 | 19.3160529 |
| Mesoniviridae | 9.0393545 | 7.8323031 | 10.2464059 | 9.0393545 | 3.4140570 | 6.625251654 | 11.4534573 |
| Nairoviridae | 9.0200026 | 6.0100013 | 12.0300039 | 9.0200026 | 8.5135693 | 3.000000000 | 15.0400052 |
| Kitaviridae | 9.0105502 | 8.3716892 | 11.1978265 | 10.0428271 | 2.9641607 | 7.732828272 | 13.3851028 |
| unclassified | 8.0056831 | 4.1584168 | 14.1071176 | 11.7078642 | 12.5415834 | 0.045757491 | 103.7798919 |
| Xinmoviridae | 7.5917600 | 7.5917600 | 7.5917600 | 7.5917600 | NA | 7.591760035 | 7.5917600 |
| Mitoviridae | 7.3360142 | 5.4884348 | 8.9361162 | 7.7394293 | 4.3457979 | 1.387216143 | 20.2328441 |
| Partitiviridae | 7.1079054 | 4.8544155 | 12.4882976 | 9.8213379 | 7.4664982 | 1.431798276 | 37.8096683 |
| Betaflexiviridae | 6.0741724 | 2.5228787 | 10.5003129 | 9.4389091 | 11.0347228 | 0.187086643 | 27.9100949 |
| Permutotetraviridae | 5.5199931 | 5.5199931 | 5.5199931 | 5.5199931 | NA | 5.519993057 | 5.5199931 |
| Narnaviridae | 5.4267422 | 4.8750243 | 5.9784601 | 5.4267422 | 1.5604939 | 4.323306390 | 6.5301780 |
| Endornaviridae | 5.3851028 | 1.7958800 | 11.0649968 | 7.9788287 | 7.3983302 | 0.552841969 | 21.1034738 |
| Amalgaviridae | 5.2480910 | 1.0842361 | 11.5547173 | 7.3908624 | 8.1208122 | 1.013228266 | 18.0540393 |
| Retroviridae | 4.7670039 | 4.7670039 | 4.7670039 | 4.7670039 | NA | 4.767003890 | 4.7670039 |
| Tospoviridae | 3.7354774 | 1.9451897 | 5.5257651 | 3.7354774 | 5.0636984 | 0.154901960 | 7.3160529 |
| Qinviridae | 3.5917600 | 3.5917600 | 3.5917600 | 3.5917600 | NA | 3.591760035 | 3.5917600 |
| Fimoviridae | 3.3160529 | 3.3160529 | 3.3160529 | 3.3160529 | NA | 3.316052869 | 3.3160529 |
| Caliciviridae | 3.3142583 | 1.4518927 | 11.1948456 | 7.9857378 | 9.4756448 | 0.602059991 | 26.6903698 |
| Togaviridae | 3.0000000 | 3.0000000 | 3.0000000 | 3.0000000 | NA | 3.000000000 | 3.0000000 |
| Potyviridae | 2.9633241 | 1.6663866 | 11.1083975 | 7.4217068 | 8.6978798 | 0.318758763 | 22.6270880 |
| Secoviridae | 2.3729436 | 1.1075329 | 4.0054789 | 2.7400682 | 2.3038777 | 0.552841969 | 5.6615435 |
| Mayoviridae | 2.0969100 | 2.0969100 | 2.0969100 | 2.0969100 | NA | 2.096910013 | 2.0969100 |
| Closteroviridae | 1.8860566 | 1.6575773 | 2.6989700 | 2.3256208 | 1.6551734 | 0.346787486 | 6.2564902 |
| Polycipiviridae | 1.7695511 | 1.7695511 | 1.7695511 | 1.7695511 | NA | 1.769551079 | 1.7695511 |
| Peribunyaviridae | 1.6782737 | 0.8240096 | 2.7699692 | 1.9157051 | 1.5564231 | 0.420216403 | 3.8860566 |
| Birnaviridae | 1.2441251 | 1.2441251 | 1.2441251 | 1.2441251 | NA | 1.244125144 | 1.2441251 |
| Flaviviridae | 1.1003297 | 0.7229857 | 1.7073055 | 1.3299615 | 0.9933276 | 0.420216403 | 2.6989700 |
| Caulimoviridae | 0.7640609 | 0.5240288 | 1.0040930 | 0.7640609 | 0.6789134 | 0.283996656 | 1.2441251 |
| Coronaviridae | 0.6989700 | 0.6292816 | 0.9163866 | 0.8466982 | 0.4989083 | 0.420216403 | 1.5686362 |
| Spinareoviridae | 0.6989700 | 0.5774510 | 14.0079615 | 9.4906183 | 15.4385369 | 0.455931956 | 27.3169530 |
| Yadokariviridae | 0.6382722 | 0.6382722 | 0.6382722 | 0.6382722 | NA | 0.638272164 | 0.6382722 |