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

| group | median | Q1 | Q3 | mean | sd | max | min |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Pneumoviridae | 75.9898525 | 64.8709396 | 87.1087654 | 75.9898525 | 31.449034816 | 53.752026734 | 98.2276783 |
| Paramyxoviridae | 32.0236500 | 1.1487417 | 48.4841262 | 26.6670585 | 24.443344844 | 1.013228266 | 50.6655462 |
| Virgaviridae | 25.1101383 | 7.5615160 | 30.5582715 | 26.4420305 | 28.127204474 | 0.795880017 | 179.9586073 |
| Discoviridae | 21.6615435 | 19.7115680 | 24.1532601 | 20.2906572 | 6.546496670 | 5.688246139 | 28.2580609 |
| Bromoviridae | 21.0017407 | 4.9706162 | 27.7304871 | 25.8314549 | 41.494112156 | 0.823908741 | 179.9586073 |
| Chuviridae | 19.5443466 | 19.1544091 | 19.9342841 | 19.5443466 | 1.102909876 | 18.764471553 | 20.3242217 |
| Marnaviridae | 19.4461170 | 13.1101383 | 23.9871628 | 21.6281713 | 13.157139830 | 4.420216403 | 59.2013494 |
| Chrysoviridae | 18.4881166 | 10.0054977 | 23.1379645 | 15.9329359 | 13.317597241 | 1.522878745 | 27.7878124 |
| Picobirnaviridae | 18.3947498 | 15.8646108 | 24.0683830 | 20.2562016 | 8.211146503 | 4.417936637 | 41.6234230 |
| Mymonaviridae | 16.6258788 | 15.4529807 | 21.9394811 | 17.9892702 | 5.861185760 | 8.420216403 | 26.8996295 |
| Totiviridae | 14.9913998 | 7.8664611 | 18.9430951 | 14.4318969 | 8.133110194 | 0.481486060 | 39.3251389 |
| Hepeviridae | 14.8459794 | 7.0787918 | 43.3668340 | 27.3876800 | 28.171591679 | 0.318758763 | 139.9100949 |
| Tombusviridae | 14.0963137 | 8.9706162 | 20.1879924 | 16.6757839 | 12.263502554 | 0.958607315 | 75.0245682 |
| Hypoviridae | 13.4657531 | 6.5893112 | 18.9805639 | 13.0742834 | 7.735081093 | 4.143271110 | 22.2549252 |
| Dicistroviridae | 13.3851028 | 6.5058454 | 23.3506651 | 15.0740163 | 10.254224202 | 0.420216403 | 39.2644011 |
| Tobaniviridae | 12.6694725 | 2.5993238 | 26.8607535 | 16.7906049 | 19.137026175 | 0.187086643 | 41.6363880 |
| unclassified Pisuviricota | 12.2856702 | 8.1751016 | 22.5034043 | 16.4106195 | 11.828845081 | 2.698970004 | 64.3027707 |
| unclassified | 10.6161846 | 5.7351822 | 18.2549252 | 16.0219768 | 20.266949278 | 0.091514981 | 179.9586073 |
| Iflaviridae | 10.1169066 | 5.6615435 | 18.4111683 | 21.6114052 | 25.722668493 | 0.327902142 | 92.0114410 |
| Endornaviridae | 9.9473676 | 3.7849491 | 19.6723194 | 12.3501501 | 10.466982972 | 0.283996656 | 37.0000000 |
| Solemoviridae | 9.7986029 | 6.4075266 | 13.3580826 | 12.0506230 | 9.397580620 | 1.148741651 | 59.1958606 |
| Lispiviridae | 9.7495800 | 7.1018235 | 17.7986029 | 12.7438318 | 10.874944243 | 0.387216143 | 28.6819367 |
| Barnaviridae | 9.7033348 | 7.4633168 | 23.8452488 | 17.6379321 | 17.764742368 | 5.223298816 | 37.9871628 |
| Tymoviridae | 9.6615435 | 5.4021055 | 21.6452378 | 14.8110477 | 16.844209470 | 1.142667504 | 33.6289321 |
| Sedoreoviridae | 9.1402614 | 5.2163456 | 25.3012212 | 17.2982907 | 21.291249537 | 1.292429824 | 41.4621809 |
| Astroviridae | 9.0604807 | 4.8268137 | 39.9100949 | 34.4877980 | 51.257127228 | 0.744727495 | 179.9586073 |
| Flaviviridae | 8.7854713 | 1.7166153 | 30.9917556 | 26.2520433 | 43.116355659 | 0.283996656 | 170.9172146 |
| Birnaviridae | 8.1153778 | 5.9903721 | 8.9732749 | 7.8210189 | 4.144368736 | 2.397940009 | 15.7304871 |
| Nodaviridae | 7.9606991 | 5.1848140 | 24.8806460 | 15.2920322 | 14.750859305 | 0.552841969 | 58.7121983 |
| Fiersviridae | 7.9366097 | 5.3759615 | 9.4704812 | 9.0189454 | 5.478286194 | 4.420216403 | 19.3160529 |
| Narnaviridae | 7.5917600 | 6.3685562 | 12.4449056 | 23.2918473 | 33.941366525 | 6.215382707 | 83.8386320 |
| Tospoviridae | 7.3160529 | 7.3160529 | 7.3160529 | 7.3160529 | NA | 7.316052869 | 7.3160529 |
| unclassified Kitrinoviricota | 7.2644055 | 3.7489197 | 25.2807427 | 13.8936493 | 14.121811903 | 2.096910013 | 32.8728952 |
| Botourmiaviridae | 6.0830200 | 4.2790143 | 9.9393022 | 7.9278290 | 5.915210475 | 0.886056648 | 23.5934598 |
| Partitiviridae | 6.0705811 | 3.0915150 | 11.7399286 | 8.4820378 | 7.513229107 | 0.004364805 | 40.0315171 |
| Mitoviridae | 5.8577170 | 2.1404040 | 8.9361162 | 6.5521617 | 4.523415449 | 0.958607315 | 17.2479516 |
| Kitaviridae | 5.4726092 | 4.8082424 | 6.1369761 | 5.4726092 | 1.879113189 | 4.143875556 | 6.8013429 |
| Picornaviridae | 5.0213631 | 2.3723637 | 25.3198737 | 15.2328688 | 19.402239685 | 0.142667504 | 85.8664611 |
| Benyviridae | 4.9208188 | 3.3098944 | 10.7415341 | 7.7273461 | 7.818997093 | 1.698970004 | 16.5622494 |
| Sinhaliviridae | 4.8543511 | 2.6237125 | 7.8569482 | 7.3629757 | 7.344873347 | 1.522878745 | 22.7447275 |
| Alphaflexiviridae | 4.5575202 | 2.5394691 | 23.1664202 | 12.2138545 | 12.029122348 | 1.337242168 | 28.1904403 |
| Potyviridae | 4.4404133 | 2.9247425 | 7.0658594 | 15.4106284 | 31.167820664 | 0.148741651 | 179.9586073 |
| Hantaviridae | 4.1857524 | 4.1857524 | 4.1857524 | 4.1857524 | NA | 4.185752404 | 4.1857524 |
| Amalgaviridae | 4.1045775 | 3.6058451 | 4.6367016 | 4.1266441 | 0.642554866 | 3.357535480 | 4.9393022 |
| Noraviridae | 3.9100949 | 3.9100949 | 3.9100949 | 3.9100949 | NA | 3.910094889 | 3.9100949 |
| Phenuiviridae | 3.9100949 | 1.6197888 | 15.1780290 | 8.4446780 | 9.345057067 | 0.004364805 | 29.1830962 |
| Betaflexiviridae | 3.8696662 | 2.0713338 | 14.6239335 | 9.3968320 | 10.952721230 | 0.387216143 | 31.9586073 |
| Polycipiviridae | 3.8696662 | 3.4758179 | 4.2135932 | 3.8363854 | 0.738338053 | 3.081969663 | 4.5575202 |
| Qinviridae | 3.5900702 | 3.5892252 | 3.5909151 | 3.5900702 | 0.002389838 | 3.588380294 | 3.5917600 |
| Rhabdoviridae | 3.4534573 | 0.8860566 | 20.0754402 | 11.3165647 | 12.533784545 | 0.602059991 | 38.3080349 |
| Gammaflexiviridae | 3.4034029 | 3.3408133 | 3.4630685 | 3.4004789 | 0.199670322 | 3.153044675 | 3.6420652 |
| Alvernaviridae | 3.0000000 | 3.0000000 | 3.0000000 | 3.0000000 | NA | 3.000000000 | 3.0000000 |
| Togaviridae | 3.0000000 | 3.0000000 | 3.0000000 | 3.0000000 | NA | 3.000000000 | 3.0000000 |
| Nairoviridae | 2.8766769 | 1.0049892 | 7.1056942 | 5.2340066 | 6.787562791 | 0.142667504 | 15.0400052 |
| Secoviridae | 2.8506826 | 1.8103780 | 6.2032105 | 8.4919313 | 17.171761955 | 0.602059991 | 79.1475200 |
| Arenaviridae | 2.4876751 | 1.3151713 | 3.6601789 | 2.4876751 | 3.316341525 | 0.142667504 | 4.8326827 |
| Fusariviridae | 2.3979400 | 1.7529227 | 2.5484550 | 2.0682718 | 0.845211506 | 1.107905397 | 2.6989700 |
| Phasmaviridae | 2.3979400 | 1.8925781 | 10.2798604 | 7.3156456 | 9.406613429 | 1.387216143 | 18.1617808 |
| Mayoviridae | 2.0969100 | 2.0969100 | 2.0969100 | 2.0969100 | NA | 2.096910013 | 2.0969100 |
| Arteriviridae | 1.5528420 | 1.1259060 | 1.8538720 | 1.4689046 | 0.731586339 | 0.698970004 | 2.1549020 |
| Spinareoviridae | 1.4317983 | 0.9586073 | 2.6989700 | 2.9369084 | 3.418959149 | 0.698970004 | 8.8961963 |
| Deltaflexiviridae | 1.3382708 | 1.2230881 | 1.4534535 | 1.3382708 | 0.325785900 | 1.107905397 | 1.5686362 |
| Caliciviridae | 1.2716652 | 1.1478306 | 2.8046247 | 5.3154917 | 9.451991585 | 0.420216403 | 24.5072396 |
| Caulimoviridae | 1.2441251 | 1.2441251 | 1.2441251 | 1.2441251 | NA | 1.244125144 | 1.2441251 |
| Closteroviridae | 1.1739252 | 0.8278039 | 2.0277587 | 1.8763322 | 1.718889506 | 0.283996656 | 6.2564902 |
| Polymycoviridae | 1.1079054 | 1.1079054 | 1.1079054 | 1.1079054 | NA | 1.107905397 | 1.1079054 |
| Retroviridae | 1.0122841 | 0.4239245 | 1.7007047 | 1.1123451 | 0.860968183 | 0.327902142 | 2.0969100 |
| Peribunyaviridae | 0.7447275 | 0.3933740 | 1.9529392 | 1.3426479 | 1.494806429 | 0.091514981 | 3.8696662 |
| Coronaviridae | 0.6989700 | 0.6020600 | 0.9121282 | 9.1753588 | 31.479653653 | 0.142667504 | 118.5376020 |
| Roniviridae | 0.6020600 | 0.3032124 | 0.9894054 | 0.6610585 | 0.688092571 | 0.004364805 | 1.3767507 |
| Wupedeviridae | 0.5228787 | 0.5228787 | 0.5228787 | 0.5228787 | NA | 0.522878745 | 0.5228787 |
| Filoviridae | 0.5200026 | 0.3971378 | 0.9890691 | 0.8662043 | 0.829464001 | 0.327902142 | 2.0969100 |
| unclassified Duplornaviricota | 0.4559320 | 0.4559320 | 0.4559320 | 0.4559320 | NA | 0.455931956 | 0.4559320 |