

Appendix 5: Viral Load Data

| Virus | Date | Sample Name | Treatment | Plot # | Cq Mean | (ng) | (ul/ng) | (ng) x 10 | copy number | NF | Normalized Copy Number |
|-------|-------|-------------|-----------|--------|-------------|-------------|-------------|-------------|-------------|--------|------------------------|
| YDV | 15415 | Bealy | New | 6 | 23.54269324 | 6.11011E-06 | 1.52753E-06 | 1.52753E-05 | 112401.3856 | 1.4492 | 77563.38389 |
| YDV | 15415 | Bealy | New | 9 | 24.22558146 | 4.00429E-06 | 1.00107E-06 | 1.00107E-05 | 73662.72645 | 1.1984 | 61465.43583 |
| YDV | 15415 | Bealy | New | 17 | 0 | 0 | 0 | 0 | 0 | 1.9448 | 0 |
| YDV | 15415 | LP256 | New | 1 | 0 | 0 | 0 | 0 | 0 | 2.4075 | 0 |
| YDV | 15415 | LP256 | New | 21 | 24.50003865 | 3.37883E-06 | 8.44707E-07 | 8.44707E-06 | 62156.75828 | 0.3963 | 156858.2688 |
| YDV | 15415 | LP256 | New | 29 | 28.93012352 | 2.17869E-07 | 5.44673E-08 | 5.44673E-07 | 4007.911979 | 1.1129 | 3601.259483 |
| YDV | 15415 | LP258 | New | 4 | 28.1034939 | 3.63371E-07 | 9.08426E-08 | 9.08426E-07 | 6684.548253 | 1.8641 | 3585.901789 |
| YDV | 15415 | LP258 | New | 15 | 0 | 0 | 0 | 0 | 0 | 0.9835 | 0 |
| YDV | 15415 | LP258 | New | 19 | 27.99189743 | 3.89351E-07 | 9.73377E-08 | 9.73377E-07 | 7162.476876 | 1.3502 | 5304.82399 |
| YDV | 15415 | R141 | New | 11 | 0 | 0 | 0 | 0 | 0 | 1.5214 | 0 |
| YDV | 15415 | R141 | New | 24 | 0 | 0 | 0 | 0 | 0 | 0.4245 | 0 |
| YDV | 15415 | R141 | New | 27 | 0 | 0 | 0 | 0 | 0 | 1.0150 | 0 |
| YDV | 15415 | R164 | New | 2 | 0 | 0 | 0 | 0 | 0 | 1.2822 | 0 |
| YDV | 15415 | R164 | New | 23 | 0 | 0 | 0 | 0 | 0 | 0.7786 | 0 |
| YDV | 15415 | R164 | New | 30 | 0 | 0 | 0 | 0 | 0 | 0.1722 | 0 |
| YDV | 17216 | Bealy | New | 6 | 0 | 0 | 0 | 0 | 0 | 1.5373 | 0 |
| YDV | 17216 | Bealy | New | 9 | 18.16616784 | 0.000170205 | 4.25512E-05 | 0.000425512 | 3131082.477 | 1.3056 | 2398190.486 |
| YDV | 17216 | Bealy | New | 17 | 0 | 0 | 0 | 0 | 0 | 1.0079 | 0 |
| YDV | 17216 | LP256 | New | 1 | 0 | 0 | 0 | 0 | 0 | 1.1063 | 0 |
| YDV | 17216 | LP256 | New | 21 | 20.97582439 | 2.99148E-05 | 7.47871E-06 | 7.47871E-05 | 550311.8997 | 1.3675 | 402423.6162 |
| YDV | 17216 | LP256 | New | 29 | 25.85759505 | 1.45857E-06 | 3.64643E-07 | 3.64643E-06 | 26831.79391 | 0.7655 | 35050.71262 |
| YDV | 17216 | LP258 | New | 4 | 28.34020139 | 3.1386E-07 | 7.84649E-08 | 7.84649E-07 | 5773.746776 | 1.2372 | 4666.904313 |
| YDV | 17216 | LP258 | New | 15 | 0 | 0 | 0 | 0 | 0 | 0.8765 | 0 |
| YDV | 17216 | LP258 | New | 19 | 0 | 0 | 0 | 0 | 0 | 0.6743 | 0 |
| YDV | 17216 | R141 | New | 11 | 25.907595 | 1.41413E-06 | 3.53533E-07 | 3.53533E-06 | 26014.31485 | 1.4149 | 18385.62153 |
| YDV | 17216 | R141 | New | 24 | 0 | 0 | 0 | 0 | 0 | 0.6502 | 0 |
| YDV | 17216 | R141 | New | 27 | 0 | 0 | 0 | 0 | 0 | 0.6728 | 0 |

Appendix 5: Viral Load Data

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|-----|-------|--------|-----|----|-------------|-------------|-------------|-------------|-------------|--------|-------------|
| YDV | 17216 | R164 | New | 2 | 0 | 0 | 0 | 0 | 0 | 1.4538 | 0 |
| YDV | 17216 | R164 | New | 23 | 0 | 0 | 0 | 0 | 0 | 1.1924 | 0 |
| YDV | 17216 | R164 | New | 30 | 0 | 0 | 0 | 0 | 0 | 0.5440 | 0 |
| YDV | 18915 | Bealy | New | 6 | 24.63921123 | 3.10002E-06 | 7.75004E-07 | 7.75004E-06 | 57027.74502 | 0.8247 | 69147.9606 |
| YDV | 18915 | Bealy | New | 9 | 25.19255416 | 2.20118E-06 | 5.50294E-07 | 5.50294E-06 | 40492.74114 | 1.1112 | 36442.17132 |
| YDV | 18915 | Bealy | New | 17 | 0 | 0 | 0 | 0 | 0 | 1.4012 | 0 |
| YDV | 18915 | LP256 | New | 1 | 0 | 0 | 0 | 0 | 0 | 1.5799 | 0 |
| YDV | 18915 | LP256 | New | 21 | 25.65774956 | 1.65057E-06 | 4.12644E-07 | 4.12644E-06 | 30363.89652 | 0.6203 | 48947.35963 |
| YDV | 18915 | LP256 | New | 29 | 0 | 0 | 0 | 0 | 0 | 0.7652 | 0 |
| YDV | 18915 | LP258 | New | 4 | 28.9513778 | 2.15022E-07 | 5.37556E-08 | 5.37556E-07 | 3955.543433 | 1.5977 | 2475.717581 |
| YDV | 18915 | LP258 | New | 15 | 28.3321541 | 3.15426E-07 | 7.88566E-08 | 7.88566E-07 | 5802.57034 | 1.6611 | 3493.199847 |
| YDV | 18915 | LP258 | New | 19 | 0 | 0 | 0 | 0 | 0 | 0.8658 | 0 |
| YDV | 18915 | R141 | New | 11 | 0 | 0 | 0 | 0 | 0 | 1.4082 | 0 |
| YDV | 18915 | R141 | New | 24 | 0 | 0 | 0 | 0 | 0 | 1.0806 | 0 |
| YDV | 18915 | R141 | New | 27 | 0 | 0 | 0 | 0 | 0 | 0.5928 | 0 |
| YDV | 18915 | R164 | New | 2 | 0 | 0 | 0 | 0 | 0 | 0.5873 | 0 |
| YDV | 18915 | R164 | New | 23 | 0 | 0 | 0 | 0 | 0 | 0.7799 | 0 |
| YDV | 18915 | R164 | New | 30 | 0 | 0 | 0 | 0 | 0 | 1.0936 | 0 |
| YDV | 15415 | Bealey | Old | 16 | 20.3803505 | 4.32432E-05 | 1.08108E-05 | 0.000108108 | 795500.5387 | 1.0001 | 795420.9966 |
| YDV | 15415 | Bealey | Old | 20 | 25.08990711 | 2.34553E-06 | 5.86382E-07 | 5.86382E-06 | 43148.25338 | 0.6295 | 68543.69083 |
| YDV | 15415 | Bealey | Old | 28 | 21.17662494 | 2.64193E-05 | 6.60484E-06 | 6.60484E-05 | 486009.1451 | 1.3042 | 372649.2448 |
| YDV | 15415 | LP256 | Old | 5 | 20.38703324 | 4.30648E-05 | 1.07662E-05 | 0.000107662 | 792217.6495 | 1.042 | 760285.6522 |
| YDV | 15415 | LP256 | Old | 8 | 18.75850058 | 0.000117974 | 2.94934E-05 | 0.000294934 | 2170236.721 | 1.4288 | 1518922.677 |
| YDV | 15415 | LP256 | Old | 25 | 17.73477815 | 0.000222283 | 5.55708E-05 | 0.000555708 | 4089112.07 | 1.2572 | 3252554.939 |
| YDV | 15415 | LP258 | Old | 12 | 20.64542164 | 3.67013E-05 | 9.17532E-06 | 9.17532E-05 | 675155.0397 | 1.5619 | 432265.2153 |
| YDV | 15415 | LP258 | Old | 13 | 20.83815852 | 3.2575E-05 | 8.14374E-06 | 8.14374E-05 | 599247.3711 | 1.1516 | 520360.6905 |
| YDV | 15415 | LP258 | Old | 22 | 27.67495098 | 4.73717E-07 | 1.18429E-07 | 1.18429E-06 | 8714.480602 | 0.3618 | 24086.45827 |
| YDV | 15415 | R141 | Old | 3 | 23.33420238 | 6.95153E-06 | 1.73788E-06 | 1.73788E-05 | 127880.0722 | 1.1331 | 112858.5934 |
| YDV | 15415 | R141 | Old | 7 | 23.43876905 | 6.51596E-06 | 1.62899E-06 | 1.62899E-05 | 119867.3587 | 1.2869 | 93144.26813 |

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|-----|-------|--------|-----|----|-------------|-------------|-------------|-------------|-------------|---------------|-------------|
| YDV | 15415 | R141 | Old | 14 | 20.27114038 | 4.62666E-05 | 1.15667E-05 | 0.000115667 | 851119.0768 | 1.1616 | 732712.7039 |
| YDV | 15415 | R164 | Old | 10 | 0 | 0 | 0 | 0 | 0 | 1.2902 | 0 |
| YDV | 15415 | R164 | Old | 18 | 28.89874491 | 2.22141E-07 | 5.55352E-08 | 5.55352E-07 | 4086.495915 | 1.0996 | 3716.347685 |
| YDV | 15415 | R164 | Old | 26 | 29.26400966 | 1.77201E-07 | 4.43001E-08 | 4.43001E-07 | 3259.773411 | 0.4161 | 7834.110576 |
| YDV | 17216 | Bealey | Old | 16 | 0 | 0 | 0 | 0 | 0 | 1.9245 | 0 |
| YDV | 17216 | Bealey | Old | 20 | 22.84614723 | 9.40251E-06 | 2.35063E-06 | 2.35063E-05 | 172968.1045 | 1.1435 | 151267.8013 |
| YDV | 17216 | Bealey | Old | 28 | 21.2954042 | 2.45471E-05 | 6.13678E-06 | 6.13678E-05 | 451567.7535 | 0.7347 | 614660.2057 |
| YDV | 17216 | LP256 | Old | 5 | 20.94334244 | 3.05222E-05 | 7.63055E-06 | 7.63055E-05 | 561485.2043 | 0.8139 | 689875.5163 |
| YDV | 17216 | LP256 | Old | 8 | 24.10147028 | 4.32394E-06 | 1.08099E-06 | 1.08099E-05 | 79543.0509 | 1.2479 | 63739.93634 |
| YDV | 17216 | LP256 | Old | 25 | 20.80734911 | 3.3202E-05 | 8.30049E-06 | 8.30049E-05 | 610781.761 | 1.2254 | 498449.4032 |
| YDV | 17216 | LP258 | Old | 12 | 22.72482959 | 1.01356E-05 | 2.53389E-06 | 2.53389E-05 | 186453.1521 | 1.5637 | 119239.5153 |
| YDV | 17216 | LP258 | Old | 13 | 0 | 0 | 0 | 0 | 0 | 0.7124 | 0 |
| YDV | 17216 | LP258 | Old | 22 | 26.29595237 | 1.11204E-06 | 2.7801E-07 | 2.7801E-06 | 20457.03442 | 1.2299 | 16633.71061 |
| YDV | 17216 | R141 | Old | 3 | 24.97810677 | 2.51355E-06 | 6.28386E-07 | 6.28386E-06 | 46239.07949 | 1.4262 | 32421.28662 |
| YDV | 17216 | R141 | Old | 7 | 24.18446741 | 4.10747E-06 | 1.02687E-06 | 1.02687E-05 | 75560.88722 | 0.8195 | 92208.44502 |
| YDV | 17216 | R141 | Old | 14 | 0 | 0 | 0 | 0 | 0 | 1.3964 | 0 |
| YDV | 17216 | R164 | Old | 10 | 0 | 0 | 0 | 0 | 0 | 0.6666 | 0 |
| YDV | 17216 | R164 | Old | 18 | 25.77380093 | 1.5362E-06 | 3.84049E-07 | 3.84049E-06 | 28259.8005 | 0.6478 | 43622.01792 |
| YDV | 17216 | R164 | Old | 26 | 0 | 0 | 0 | 0 | 0 | 0.0000 | 0 |
| YDV | 18915 | Bealey | Old | 16 | 21.48502559 | 2.18293E-05 | 5.45733E-06 | 5.45733E-05 | 401571.4412 | 2.5880 | 155167.6487 |
| YDV | 18915 | Bealey | Old | 20 | 21.61685377 | 2.01193E-05 | 5.02982E-06 | 5.02982E-05 | 370113.092 | 0.9275 | 399041.1487 |
| YDV | 18915 | Bealey | Old | 28 | 22.16592021 | 1.43236E-05 | 3.5809E-06 | 3.5809E-05 | 263496.4183 | 0.4166 | 632489.2113 |
| YDV | 18915 | LP256 | Old | 5 | 20.979944 | 2.98387E-05 | 7.45967E-06 | 7.45967E-05 | 548910.7949 | 0.7918 | 693202.5088 |
| YDV | 18915 | LP256 | Old | 8 | 19.9850497 | 5.52273E-05 | 1.38068E-05 | 0.000138068 | 1015959.084 | 0.4991 | 2035410.772 |
| YDV | 18915 | LP256 | Old | 25 | 18.13362077 | 0.000173668 | 4.34169E-05 | 0.000434169 | 3194783.417 | 1.4035 | 2276310.464 |
| YDV | 18915 | LP258 | Old | 12 | 21.49302533 | 2.17215E-05 | 5.43038E-06 | 5.43038E-05 | 399588.4409 | 1.8657 | 214171.6897 |
| YDV | 18915 | LP258 | Old | 13 | 21.82314111 | 1.77081E-05 | 4.42704E-06 | 4.42704E-05 | 325758.2533 | 1.2279 | 265298.0909 |
| YDV | 18915 | LP258 | Old | 22 | 29.13346125 | 1.9211E-07 | 4.80274E-08 | 4.80274E-07 | 3534.043192 | 0.7869 | 4491.172453 |
| YDV | 18915 | R141 | Old | 3 | 23.81574974 | 5.1602E-06 | 1.29005E-06 | 1.29005E-05 | 94926.76109 | 1.2114 | 78364.16992 |

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|-------|-------|-------------|-----------|--------|-------------|-------------|-------------|-------------|-------------|---------------|------------------------|
| YDV | 18915 | R141 | Old | 7 | 24.24478715 | 3.95698E-06 | 9.89245E-07 | 9.89245E-06 | 72792.44782 | 0.6960 | 104584.6102 |
| YDV | 18915 | R141 | Old | 14 | 20.88210498 | 3.1701E-05 | 7.92526E-06 | 7.92526E-05 | 583170.6736 | 1.1861 | 491683.1701 |
| YDV | 18915 | R164 | Old | 10 | 0 | 0 | 0 | 0 | 0 | 0.0000 | 0 |
| YDV | 18915 | R164 | Old | 18 | 29.75536909 | 1.30742E-07 | 3.26854E-08 | 3.26854E-07 | 2405.117207 | 0.7020 | 3425.905508 |
| YDV | 18915 | R164 | Old | 26 | 0 | 0 | 0 | 0 | 0 | 1.4830 | 0 |
| Virus | Date | Sample Name | Treatment | Plot # | Cq Mean | (ng) | (ul/ng) | (ng) x 10 | Copy number | NF | Normalised Copy Number |
| RGMV | 10415 | Bealy | New | 6 | 19.00704856 | 0.000101155 | 2.52888E-05 | 0.000252888 | 1602396.095 | 1.4492 | 1105744.941 |
| RGMV | 10415 | Bealy | New | 9 | 19.19807645 | 8.98773E-05 | 2.24693E-05 | 0.000224693 | 1423743.605 | 1.1984 | 1187995.957 |
| RGMV | 10415 | Bealy | New | 17 | 21.60812931 | 2.02282E-05 | 5.05704E-06 | 5.05704E-05 | 320433.7925 | 1.9448 | 164767.8051 |
| RGMV | 10415 | LP256 | New | 1 | 20.66661631 | 3.62231E-05 | 9.05577E-06 | 9.05577E-05 | 573808.1521 | 2.4075 | 238340.3545 |
| RGMV | 10415 | LP256 | New | 21 | 18.62988433 | 0.000127747 | 3.19367E-05 | 0.000319367 | 2023631.711 | 0.3963 | 5106819.847 |
| RGMV | 10415 | LP256 | New | 29 | 19.01611083 | 0.00010059 | 2.51474E-05 | 0.000251474 | 1593435.263 | 1.1129 | 1431761.447 |
| RGMV | 10415 | LP258 | New | 4 | 17.50291682 | 0.000256578 | 6.41444E-05 | 0.000641444 | 4064434.676 | 1.8641 | 2180351.315 |
| RGMV | 10415 | LP258 | New | 15 | 17.55805287 | 0.000247971 | 6.19928E-05 | 0.000619928 | 3928099.893 | 0.9835 | 3993995.209 |
| RGMV | 10415 | LP258 | New | 19 | 15.50607144 | 0.000882803 | 0.000220701 | 0.002207008 | 13984454.31 | 1.3502 | 10357460.13 |
| RGMV | 10415 | R141 | New | 11 | 17.84997045 | 0.00020699 | 5.17475E-05 | 0.000517475 | 3278918.867 | 1.5214 | 2155230.584 |
| RGMV | 10415 | R141 | New | 24 | 18.04128918 | 0.000183879 | 4.59698E-05 | 0.000459698 | 2912825.139 | 0.4245 | 6862123.889 |
| RGMV | 10415 | R141 | New | 27 | 19.18082287 | 9.08421E-05 | 2.27105E-05 | 0.000227105 | 1439025.95 | 1.0150 | 1417778.96 |
| RGMV | 10415 | R164 | New | 2 | 19.48425686 | 7.52905E-05 | 1.88226E-05 | 0.000188226 | 1192674.068 | 1.2822 | 930141.8591 |
| RGMV | 10415 | R164 | New | 23 | 18.87148138 | 0.000110007 | 2.75018E-05 | 0.000275018 | 1742621.612 | 0.7786 | 2238203.251 |
| RGMV | 10415 | R164 | New | 30 | 23.89391603 | 4.91654E-06 | 1.22913E-06 | 1.22913E-05 | 77882.68827 | 0.1722 | 452399.8141 |
| RGMV | 17216 | Bealy | New | 6 | 17.01393867 | 0.00034724 | 8.681E-05 | 0.0008681 | 5500616.358 | 1.5373 | 3578141.255 |
| RGMV | 17216 | Bealy | New | 9 | 12.85335754 | 0.004557973 | 0.001139493 | 0.011394933 | 72202681.4 | 1.3056 | 55302210.93 |
| RGMV | 17216 | Bealy | New | 17 | 20.05211552 | 5.29822E-05 | 1.32456E-05 | 0.000132456 | 839289.3272 | 1.0079 | 832735.1268 |
| RGMV | 17216 | LP256 | New | 1 | 18.49703213 | 0.000138693 | 3.46732E-05 | 0.000346732 | 2197025.268 | 1.1063 | 1985867.147 |
| RGMV | 17216 | LP256 | New | 21 | 15.09047359 | 0.001141707 | 0.000285427 | 0.002854266 | 18085729.41 | 1.3675 | 13225453.85 |
| RGMV | 17216 | LP256 | New | 29 | 18.65297129 | 0.000125935 | 3.14837E-05 | 0.000314837 | 1994926.673 | 0.7655 | 2605998.008 |
| RGMV | 17216 | LP258 | New | 4 | 17.13316131 | 0.000322544 | 8.0636E-05 | 0.00080636 | 5109409.128 | 1.2372 | 4129921.941 |
| RGMV | 17216 | LP258 | New | 15 | 15.82693121 | 0.000723826 | 0.000180956 | 0.001809564 | 11466095.59 | 0.8765 | 13081137.11 |

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|------|-------|--------|-----|----|-------------|-------------|-------------|-------------|-------------|---------------|-------------|
| RGMV | 17216 | LP258 | New | 19 | 20.12554866 | 5.06285E-05 | 1.26571E-05 | 0.000126571 | 802004.4853 | 0.6743 | 1189370.365 |
| RGMV | 17216 | R141 | New | 11 | 14.74409421 | 0.00141463 | 0.000353657 | 0.003536574 | 22409094.26 | 1.4149 | 15837631.25 |
| RGMV | 17216 | R141 | New | 24 | 16.87355609 | 0.000378754 | 9.46885E-05 | 0.000946885 | 5999826.54 | 0.6502 | 9227454.264 |
| RGMV | 17216 | R141 | New | 27 | 17.33368221 | 0.000284905 | 7.12262E-05 | 0.000712262 | 4513166.658 | 0.6728 | 6708340.379 |
| RGMV | 17216 | R164 | New | 2 | 19.61181165 | 6.95761E-05 | 1.7394E-05 | 0.00017394 | 1102152.941 | 1.4538 | 758095.8562 |
| RGMV | 17216 | R164 | New | 23 | 15.00079269 | 0.001206857 | 0.000301714 | 0.003017143 | 19117780.18 | 1.1924 | 16032948.52 |
| RGMV | 17216 | R164 | New | 30 | 18.14279557 | 0.000172685 | 4.31711E-05 | 0.000431711 | 2735488.659 | 0.5440 | 5028345.852 |
| RGMV | 18915 | Bealy | New | 6 | 19.13358497 | 9.35367E-05 | 2.33842E-05 | 0.000233842 | 1481711.498 | 0.8247 | 1796622.473 |
| RGMV | 18915 | Bealy | New | 9 | 18.62984691 | 0.00012775 | 3.19374E-05 | 0.000319374 | 2023678.582 | 1.1112 | 1821245.969 |
| RGMV | 18915 | Bealy | New | 17 | 21.70685123 | 1.90294E-05 | 4.75736E-06 | 4.75736E-05 | 301444.3367 | 1.4012 | 215125.5419 |
| RGMV | 18915 | LP256 | New | 1 | 20.34823347 | 4.41113E-05 | 1.10278E-05 | 0.000110278 | 698764.7923 | 1.5799 | 442277.7196 |
| RGMV | 18915 | LP256 | New | 21 | 18.87957515 | 0.000109458 | 2.73644E-05 | 0.000273644 | 1733915.469 | 0.6203 | 2795115.047 |
| RGMV | 18915 | LP256 | New | 29 | 18.95067854 | 0.000104746 | 2.61865E-05 | 0.000261865 | 1659277.9 | 0.7652 | 2168458.496 |
| RGMV | 18915 | LP258 | New | 4 | 16.79697153 | 0.000397136 | 9.92839E-05 | 0.000992839 | 6291012.31 | 1.5977 | 3937453.865 |
| RGMV | 18915 | LP258 | New | 15 | 17.71025881 | 0.000225682 | 5.64204E-05 | 0.000564204 | 3575013.585 | 1.6611 | 2152190.525 |
| RGMV | 18915 | LP258 | New | 19 | 19.24543282 | 8.72817E-05 | 2.18204E-05 | 0.000218204 | 1382626.646 | 0.8658 | 1596909.017 |
| RGMV | 18915 | R141 | New | 11 | 17.53525835 | 0.000251494 | 6.28734E-05 | 0.000628734 | 3983900.405 | 1.4082 | 2829083.106 |
| RGMV | 18915 | R141 | New | 24 | 18.25497475 | 0.000161104 | 4.02759E-05 | 0.000402759 | 2552038.058 | 1.0806 | 2361596.492 |
| RGMV | 18915 | R141 | New | 27 | 18.79920977 | 0.000115039 | 2.87597E-05 | 0.000287597 | 1822325.045 | 0.5928 | 3074152.016 |
| RGMV | 18915 | R164 | New | 2 | 19.39891348 | 7.93736E-05 | 1.98434E-05 | 0.000198434 | 1257353.861 | 0.5873 | 2140895.279 |
| RGMV | 18915 | R164 | New | 23 | 18.37430919 | 0.000149636 | 3.74089E-05 | 0.000374089 | 2370371.544 | 0.7799 | 3039142.786 |
| RGMV | 18915 | R164 | New | 30 | 20.11476792 | 5.09674E-05 | 1.27419E-05 | 0.000127419 | 807372.7407 | 1.0936 | 738244.3227 |
| RGMV | 10415 | Bealey | Old | 16 | 16.42741083 | 0.00049918 | 0.000124795 | 0.00124795 | 7907491.049 | 1.0001 | 7906700.378 |
| RGMV | 10415 | Bealey | Old | 20 | 18.52470829 | 0.000136338 | 3.40844E-05 | 0.000340844 | 2159718.647 | 0.6295 | 3430847.731 |
| RGMV | 10415 | Bealey | Old | 28 | 16.65975237 | 0.000432331 | 0.000108083 | 0.001080827 | 6848535.539 | 1.3042 | 5251139.042 |
| RGMV | 10415 | LP256 | Old | 5 | 17.17991897 | 0.000313345 | 7.83363E-05 | 0.000783363 | 4963690.755 | 1.042 | 4763618.767 |
| RGMV | 10415 | LP256 | Old | 8 | 16.73576481 | 0.000412466 | 0.000103116 | 0.001031165 | 6533857.095 | 1.4288 | 4572968.291 |
| RGMV | 10415 | LP256 | Old | 25 | 17.44718015 | 0.000265581 | 6.63953E-05 | 0.000663953 | 4207064.675 | 1.2572 | 3346376.611 |
| RGMV | 10415 | LP258 | Old | 12 | 16.11128321 | 0.000607037 | 0.000151759 | 0.001517593 | 9616054.793 | 1.5619 | 6156639.217 |

Appendix 5: Viral Load Data

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|------|-------|--------|-----|----|-------------|-------------|-------------|-------------|-------------|---------------|-------------|
| RGMV | 10415 | LP258 | Old | 13 | 16.37180638 | 0.000516655 | 0.000129164 | 0.001291638 | 8184312.755 | 1.1516 | 7106905.831 |
| RGMV | 10415 | LP258 | Old | 22 | 16.37457072 | 0.000515772 | 0.000128943 | 0.00128943 | 8170324.579 | 0.3618 | 22582433.88 |
| RGMV | 10415 | R141 | Old | 3 | 16.15636835 | 0.000590336 | 0.000147584 | 0.001475839 | 9351482.194 | 1.1331 | 8253006.967 |
| RGMV | 10415 | R141 | Old | 7 | 15.85898141 | 0.000709611 | 0.000177403 | 0.001774029 | 11240928.26 | 1.2869 | 8734888.693 |
| RGMV | 10415 | R141 | Old | 14 | 15.1984202 | 0.001067933 | 0.000266983 | 0.002669834 | 16917093.36 | 1.1616 | 14563613.43 |
| RGMV | 10415 | R164 | Old | 10 | 15.01723295 | 0.001194642 | 0.00029866 | 0.002986604 | 18924272.8 | 1.2902 | 14667704.85 |
| RGMV | 10415 | R164 | Old | 18 | 15.56369908 | 0.000851877 | 0.000212969 | 0.002129692 | 13494546.48 | 1.0996 | 12272232.16 |
| RGMV | 10415 | R164 | Old | 26 | 15.89002412 | 0.00069611 | 0.000174028 | 0.001740276 | 11027055.34 | 0.4161 | 26500974.15 |
| RGMV | 17216 | LP256 | Old | 25 | 17.10267742 | 0.000328686 | 8.21716E-05 | 0.000821716 | 5206706.776 | 1.9245 | 2705523.135 |
| RGMV | 17216 | LP256 | Old | 5 | 15.84851704 | 0.000714221 | 0.000178555 | 0.001785554 | 11313954.8 | 1.1435 | 9894524.032 |
| RGMV | 17216 | LP256 | Old | 8 | 16.03745844 | 0.000635412 | 0.000158853 | 0.00158853 | 10065540.1 | 0.7347 | 13700905.13 |
| RGMV | 17216 | Bealey | Old | 16 | 16.95488082 | 0.000360165 | 9.00412E-05 | 0.000900412 | 5705358.67 | 0.8139 | 7009957.214 |
| RGMV | 17216 | Bealey | Old | 20 | 16.62005171 | 0.000443084 | 0.000110771 | 0.001107709 | 7018868.915 | 1.2479 | 5624404.052 |
| RGMV | 17216 | Bealey | Old | 28 | 14.93417489 | 0.001257648 | 0.000314412 | 0.003144121 | 19922359.32 | 1.2254 | 16258324.57 |
| RGMV | 17216 | LP258 | Old | 12 | 15.6770361 | 0.000794178 | 0.000198544 | 0.001985445 | 12580542.12 | 1.5637 | 8045440.52 |
| RGMV | 17216 | LP258 | Old | 13 | 20.5450409 | 3.90533E-05 | 9.76333E-06 | 9.76333E-05 | 618642.4095 | 0.7124 | 868353.3038 |
| RGMV | 17216 | LP258 | Old | 22 | 14.95517812 | 0.001241408 | 0.000310352 | 0.003103521 | 19665102.87 | 1.2299 | 15989787.35 |
| RGMV | 17216 | R141 | Old | 3 | 14.13591539 | 0.002061051 | 0.000515263 | 0.005152628 | 32649030.11 | 1.4262 | 22892401.29 |
| RGMV | 17216 | R141 | Old | 7 | 15.03270479 | 0.001183259 | 0.000295815 | 0.002958146 | 18743953.34 | 0.8195 | 22873616.96 |
| RGMV | 17216 | R141 | Old | 14 | 16.5174275 | 0.000472134 | 0.000118034 | 0.001180336 | 7479060.361 | 1.3964 | 5355856.056 |
| RGMV | 17216 | R164 | Old | 10 | 18.33011189 | 0.000153785 | 3.84461E-05 | 0.000384461 | 2436095.438 | 0.6666 | 3654636.849 |
| RGMV | 17216 | R164 | Old | 18 | 15.19632193 | 0.001069321 | 0.00026733 | 0.002673303 | 16939073.32 | 0.6478 | 26147267.39 |
| RGMV | 17216 | R164 | Old | 26 | 14.82432618 | 0.00134611 | 0.000336528 | 0.003365276 | 21323683.92 | 0.5147 | 41427408.79 |
| RGMV | 18915 | LP256 | Old | 25 | 16.64308032 | 0.000436814 | 0.000109204 | 0.001092035 | 6919556.672 | 2.5880 | 2673724.345 |
| RGMV | 18915 | LP256 | Old | 5 | 16.37728052 | 0.000514908 | 0.000128727 | 0.00128727 | 8156635.596 | 0.9275 | 8794158.619 |
| RGMV | 18915 | LP256 | Old | 8 | 16.98070837 | 0.000354454 | 8.86136E-05 | 0.000886136 | 5614898.173 | 0.4166 | 13477839.81 |
| RGMV | 18915 | Bealey | Old | 16 | 16.55844247 | 0.000460302 | 0.000115075 | 0.001150755 | 7291626.315 | 0.7918 | 9208369.925 |
| RGMV | 18915 | Bealey | Old | 20 | 16.12325743 | 0.000602556 | 0.000150639 | 0.00150639 | 9545065.156 | 0.4991 | 19122943.77 |
| RGMV | 18915 | Bealey | Old | 28 | 16.52841057 | 0.000468936 | 0.000117234 | 0.001172341 | 7428401.594 | 1.4035 | 5292799.564 |

Appendix 5: Viral Load Data

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|------|-------|-------|-----|----|-------------|-------------|-------------|-------------|-------------|---------------|-------------|
| RGMV | 18915 | LP258 | Old | 12 | 15.6923596 | 0.000786683 | 0.000196671 | 0.001966707 | 12461812.64 | 1.8657 | 6679290.983 |
| RGMV | 18915 | LP258 | Old | 13 | 16.44750932 | 0.00049301 | 0.000123253 | 0.001232525 | 7809753.209 | 1.2279 | 6360276.665 |
| RGMV | 18915 | LP258 | Old | 22 | 17.0264147 | 0.00034457 | 8.61424E-05 | 0.000861424 | 5458313.379 | 0.7869 | 6936595.099 |
| RGMV | 18915 | R141 | Old | 3 | 15.50137651 | 0.000885372 | 0.000221343 | 0.00221343 | 14025142.12 | 1.2114 | 11578069.32 |
| RGMV | 18915 | R141 | Old | 7 | 15.86673252 | 0.000706216 | 0.000176554 | 0.00176554 | 11187140.5 | 0.6960 | 16073133.46 |
| RGMV | 18915 | R141 | Old | 14 | 14.93329434 | 0.001258334 | 0.000314583 | 0.003145835 | 19933217.87 | 1.1861 | 16806105.31 |
| RGMV | 18915 | R164 | Old | 10 | 15.65575871 | 0.000804704 | 0.000201176 | 0.002011759 | 12747281.66 | 0.9605 | 13271335.61 |
| RGMV | 18915 | R164 | Old | 18 | 15.19632193 | 0.001069321 | 0.00026733 | 0.002673303 | 16939073.32 | 0.7020 | 24128414.38 |
| RGMV | 18915 | R164 | Old | 26 | 15.67214013 | 0.000796588 | 0.000199147 | 0.001991469 | 12618714.98 | 1.4830 | 8509008.274 |