Hawaii Planned Comparisons

David McCullough

3/5/2021

## RQ1

Q6 COVID-19 restrictions:To what extent do the following factors limit your access to education programs?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1287 3388.831   
## 2 Hawaiian 1286 3386.496 1 vs 2 1 2.3346773 0.1265212  
## 3 Loc + Hawaiian 1283 3385.622 2 vs 3 3 0.8744455 0.8315899  
## 4 Loc \* Hawaiian 1280 3379.526 3 vs 4 3 6.0960058 0.1070316

Q6 Distance and transportation:To what extent do the following factors limit your access to education programs?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1284 3419.149   
## 2 Hawaiian 1283 3415.221 1 vs 2 1 3.928126 0.0474848349  
## 3 Loc + Hawaiian 1280 3398.817 2 vs 3 3 16.404109 0.0009369206  
## 4 Loc \* Hawaiian 1277 3396.400 3 vs 4 3 2.416386 0.4905916913

Q6 Lack of time or competing priorities:To what extent do the following factors limit your access to education programs?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1274 3440.472   
## 2 Hawaiian 1273 3433.744 1 vs 2 1 6.7281256 0.009490428  
## 3 Loc + Hawaiian 1270 3427.561 2 vs 3 3 6.1830754 0.103035095  
## 4 Loc \* Hawaiian 1267 3427.354 3 vs 4 3 0.2067071 0.976499341

##   
##   
## Hawaiians are 1.3 times more likely to answer favorably.

Q6 Program requirements (for example, application forms, time of day, required volunteer hours):To what extent do the following factors limit your access to education programs?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1235 3250.300   
## 2 Hawaiian 1234 3218.469 1 vs 2 1 31.830728 1.682104e-08  
## 3 Loc + Hawaiian 1231 3215.705 2 vs 3 3 2.764072 4.294485e-01  
## 4 Loc \* Hawaiian 1228 3212.349 3 vs 4 3 3.356254 3.398896e-01

Q6 Programs don’t meet my family’s needs:To what extent do the following factors limit your access to education programs?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1151 2881.499   
## 2 Hawaiian 1150 2881.398 1 vs 2 1 0.1008573 0.750803215  
## 3 Loc + Hawaiian 1147 2867.240 2 vs 3 3 14.1579224 0.002697887  
## 4 Loc \* Hawaiian 1144 2866.918 3 vs 4 3 0.3217478 0.955887738

Q6 Tuition or program fees:To what extent do the following factors limit your access to education programs?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1296 3545.336   
## 2 Hawaiian 1295 3513.664 1 vs 2 1 31.672246 1.825119e-08  
## 3 Loc + Hawaiian 1292 3511.131 2 vs 3 3 2.533573 4.692543e-01  
## 4 Loc \* Hawaiian 1289 3508.246 3 vs 4 3 2.884841 4.097233e-01

Q7 How connected do you feel to a spiritual or religious community?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1425 4578.442   
## 2 Hawaiian 1424 4562.591 1 vs 2 1 15.851229 6.852201e-05  
## 3 Loc + Hawaiian 1421 4555.067 2 vs 3 3 7.524533 5.693143e-02  
## 4 Loc \* Hawaiian 1418 4551.322 3 vs 4 3 3.744281 2.904340e-01

Q8 How connected do you feel to an ethnic or cultural community?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1430 4416.250   
## 2 Hawaiian 1429 4335.091 1 vs 2 1 81.159202 0.0000000  
## 3 Loc + Hawaiian 1426 4333.367 2 vs 3 3 1.723346 0.6317559  
## 4 Loc \* Hawaiian 1423 4332.110 3 vs 4 3 1.257518 0.7392447

Q9 How connected do you feel to the geographic community in which you live?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat.  
## 1 1 1432 4318.318   
## 2 Hawaiian 1431 4318.315 1 vs 2 1 0.002844071  
## 3 Loc + Hawaiian 1428 4286.142 2 vs 3 3 32.173528301  
## 4 Loc \* Hawaiian 1425 4284.722 3 vs 4 3 1.420010184  
## Pr(Chi)  
## 1   
## 2 9.574691e-01  
## 3 4.810780e-07  
## 4 7.008510e-01

Q10 How connected do you feel to your neighbors (for example, visiting with them, asking them to watch your home, offering help to them when they ask)?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1444 4524.270   
## 2 Hawaiian 1443 4524.134 1 vs 2 1 0.1357386 0.712554674  
## 3 Loc + Hawaiian 1440 4509.952 2 vs 3 3 14.1826706 0.002666762  
## 4 Loc \* Hawaiian 1437 4507.881 3 vs 4 3 2.0703035 0.557943881

Q31 How often do you spend time learning about Native Hawaiian culture?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1233 3833.070   
## 2 Hawaiian 1232 3744.796 1 vs 2 1 88.273765 0.000000e+00  
## 3 Loc + Hawaiian 1229 3713.661 2 vs 3 3 31.134645 7.963269e-07  
## 4 Loc \* Hawaiian 1226 3704.478 3 vs 4 3 9.183332 2.695013e-02

## RQ1, part 2

Q4 Worked with others in the community to achieve a common goal (for example, fundraising for the local library):In the last 12 months, which of the following community-building activities have you participated in virtually or in person? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1856.1   
## 2 1456 1837.8 1 18.2566 1.931e-05 \*\*\*  
## 3 1453 1833.6 3 4.2136 0.2393   
## 4 1450 1827.4 3 6.2463 0.1002   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q4 Participated in an event to address a community issue:In the last 12 months, which of the following community-building activities have you participated in virtually or in person? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1828.6   
## 2 1456 1802.7 1 25.9343 3.532e-07 \*\*\*  
## 3 1453 1796.8 3 5.8441 0.1194   
## 4 1450 1796.1 3 0.7466 0.8622   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q4 Organized an event to address a community issue:In the last 12 months, which of the following community-building activities have you participated in virtually or in person? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1143.5   
## 2 1456 1133.4 1 10.1582 0.0014366 \*\*   
## 3 1453 1116.2 3 17.1525 0.0006575 \*\*\*  
## 4 1450 1114.8 3 1.4033 0.7047641   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q4 Written a letter or submitted testimony about an issue that is important to you:In the last 12 months, which of the following community-building activities have you participated in virtually or in person? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1685.3   
## 2 1456 1684.8 1 0.5283 0.4673   
## 3 1453 1662.9 3 21.9023 6.836e-05 \*\*\*  
## 4 1450 1657.7 3 5.1767 0.1593   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q4 Met with a local official about an issue that is important to you:In the last 12 months, which of the following community-building activities have you participated in virtually or in person? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1017.2   
## 2 1456 1014.3 1 2.8576 0.09094 .  
## 3 1453 1009.5 3 4.8463 0.18341   
## 4 1450 1006.8 3 2.6458 0.44951   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q4 Made donations to benefit the community:In the last 12 months, which of the following community-building activities have you participated in virtually or in person? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 2018.8   
## 2 1456 2018.2 1 0.5448 0.46046   
## 3 1453 2007.9 3 10.3428 0.01587 \*   
## 4 1450 1995.0 3 12.8773 0.00491 \*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q12 With my family and friends:If leadership means serving others and improving your community, where do you act as a leader? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1361.0   
## 2 1456 1352.2 1 8.8073 0.00300 \*\*  
## 3 1453 1349.8 3 2.3756 0.49820   
## 4 1450 1343.5 3 6.2988 0.09795 .   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q34 How often do you spend time contributing to the well-being of the Native Hawaiian community?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1397 4755.429   
## 2 Hawaiian 1396 4657.910 1 vs 2 1 97.51813 0.000000e+00  
## 3 Loc + Hawaiian 1393 4634.667 2 vs 3 3 23.24293 3.593791e-05  
## 4 Loc \* Hawaiian 1390 4622.978 3 vs 4 3 11.68936 8.526675e-03

## RQ1, part 3

Q15 Do you believe in a “higher power” such as God (Ke Akua) or other deities (personal, family, or Hawaiian gods)?

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1313 798.49   
## 2 1312 786.02 1 12.4667 0.0004143 \*\*\*  
## 3 1309 777.67 3 8.3481 0.0393400 \*   
## 4 1306 773.74 3 3.9374 0.2683013   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
##   
## Hawaiians are 2.44 times more likely to answer "yes".

Q16 How important is your belief in a “higher power” to your well-being?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1400 3894.246   
## 2 Hawaiian 1399 3867.758 1 vs 2 1 26.487813 2.652059e-07  
## 3 Loc + Hawaiian 1396 3863.061 2 vs 3 3 4.696980 1.953788e-01  
## 4 Loc \* Hawaiian 1393 3855.413 3 vs 4 3 7.648519 5.386268e-02

##   
##   
## Hawaiians are 1.59 times as likely to indicate importance.

Q17 How important is the health of the aina (land) and kai (ocean) to your well-being?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1435 2946.323   
## 2 Hawaiian 1434 2922.338 1 vs 2 1 23.98478 9.710022e-07  
## 3 Loc + Hawaiian 1431 2911.924 2 vs 3 3 10.41378 1.535733e-02  
## 4 Loc \* Hawaiian 1428 2900.776 3 vs 4 3 11.14809 1.095148e-02

##   
##   
## Hawaiians are 2.12 times as likely to indicate importance.

Q 18 How important is your cultural heritage to your well-being?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1429 3825.277   
## 2 Hawaiian 1428 3663.094 1 vs 2 1 162.183320 0.00000000  
## 3 Loc + Hawaiian 1425 3659.325 2 vs 3 3 3.768783 0.28753809  
## 4 Loc \* Hawaiian 1422 3650.651 3 vs 4 3 8.673694 0.03395913

##   
##   
## Hawaiians are 3.21 times as likely to indicate importance.

Q 18 How important is your cultural heritage to your well-being?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1437 2297.573   
## 2 Hawaiian 1436 2270.471 1 vs 2 1 27.101382 1.930599e-07  
## 3 Loc + Hawaiian 1433 2262.918 2 vs 3 3 7.552903 5.621461e-02  
## 4 Loc \* Hawaiian 1430 2256.526 3 vs 4 3 6.391874 9.402566e-02

##   
##   
## Hawaiians are 2.35 times as likely to indicate importance.

## RQ1, part 4

Q29 How much do you care about Native Hawaiian issues such as self-determination, native land rights, and the revitalization of Hawaiian language?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1373 3727.74   
## 2 Hawaiian 1372 3594.53 1 vs 2 1 133.210473 0.000000000  
## 3 Loc + Hawaiian 1369 3578.97 2 vs 3 3 15.559368 0.001395974  
## 4 Loc \* Hawaiian 1366 3570.34 3 vs 4 3 8.630497 0.034629240

##   
##   
## Hawaiians are 4.02 times as likely to indicate importance.

Q28 How important is it for future generations to speak Olelo Hawai’i (Hawaiian language)?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1392 3614.921   
## 2 Hawaiian 1391 3550.499 1 vs 2 1 64.422190 9.992007e-16  
## 3 Loc + Hawaiian 1388 3544.010 2 vs 3 3 6.488951 9.009928e-02  
## 4 Loc \* Hawaiian 1385 3540.547 3 vs 4 3 3.462881 3.256083e-01

##   
##   
## Hawaiians are 2.63 times as likely to indicate importance.

Q27 I am currently learning Olelo Hawai’i.:Which of the following is true for you regarding learning Olelo Hawai’i (Hawaiian language)? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1176.8   
## 2 1456 1160.0 1 16.8259 4.097e-05 \*\*\*  
## 3 1453 1156.9 3 3.1003 0.3764   
## 4 1450 1153.4 3 3.4681 0.3249   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
##   
## Hawaiians are 2.52 times more likely to answer "yes".

Q27 I am fluent in Olelo Hawai’i and continuously learning.:Which of the following is true for you regarding learning Olelo Hawai’i (Hawaiian language)? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 585.33   
## 2 1456 535.27 1 50.061 1.491e-12 \*\*\*  
## 3 1453 526.55 3 8.719 0.03328 \*   
## 4 1450 525.82 3 0.727 0.86679   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
##   
## Hawaiians are 9.76 times more likely to answer "yes".

Q27 I am interested in learning Olelo Hawai’i, but cannot access learning resources due to cost, time, or other constraints.:Which of the following is true for you regarding learning Olelo Hawai’i (Hawaiian language)? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1958.2   
## 2 1456 1918.4 1 39.831 2.768e-10 \*\*\*  
## 3 1453 1912.1 3 6.315 0.09727 .   
## 4 1450 1908.8 3 3.216 0.35944   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
##   
## Hawaiians are 1.89 times more likely to answer "yes".

Q27 I am interested in learning Olelo Hawai’i, but don’t know how to do so.:Which of the following is true for you regarding learning Olelo Hawai’i (Hawaiian language)? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1775.5   
## 2 1456 1775.4 1 0.0397 0.841973   
## 3 1453 1763.2 3 12.2511 0.006571 \*\*  
## 4 1450 1760.5 3 2.6770 0.444147   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
##   
## Hawaiians are 1.04 times more likely to answer "yes".

Q27 I am not interested in learning Olelo Hawai’i.:Which of the following is true for you regarding learning Olelo Hawai’i (Hawaiian language)? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1526.9   
## 2 1456 1403.0 1 123.849 < 2.2e-16 \*\*\*  
## 3 1453 1389.7 3 13.308 0.004015 \*\*   
## 4 1450 1386.0 3 3.774 0.286914   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
##   
## Hawaiians are 5.41 times less likely to answer "yes".

Q26 I can converse at a beginner level with other Olelo Hawai’i speakers.:Which of the following is true for you regarding using Olelo Hawai’i (Hawaiian language)? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1471.3   
## 2 1456 1397.5 1 73.753 < 2.2e-16 \*\*\*  
## 3 1453 1388.7 3 8.849 0.0313632 \*   
## 4 1450 1367.6 3 21.092 0.0001007 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
##   
## Hawaiians are 6.05 times more likely to answer "yes".

Q26 I can converse at an advanced level with other Olelo Hawai’i speakers.:Which of the following is true for you regarding using Olelo Hawai’i (Hawaiian language)? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 352.19   
## 2 1456 322.08 1 30.1154 4.071e-08 \*\*\*  
## 3 1453 310.13 3 11.9462 0.00757 \*\*   
## 4 1450 306.44 3 3.6891 0.29705   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
##   
## Hawaiians are 11.93 times more likely to answer "yes".

Q26 I can converse at an intermediate level with other Olelo Hawai’i speakers.:Which of the following is true for you regarding using Olelo Hawai’i (Hawaiian language)? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 829.20   
## 2 1456 789.95 1 39.254 3.721e-10 \*\*\*  
## 3 1453 778.33 3 11.611 0.00884 \*\*   
## 4 1450 776.38 3 1.958 0.58127   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
##   
## Hawaiians are 3.63 times more likely to answer "yes".

Q26 I can read Olelo Hawai’i.:Which of the following is true for you regarding using Olelo Hawai’i (Hawaiian language)? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1482.2   
## 2 1456 1351.0 1 131.210 <2e-16 \*\*\*  
## 3 1453 1346.0 3 4.974 0.1737   
## 4 1450 1345.7 3 0.274 0.9649   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
##   
## Hawaiians are 1.33 times more likely to answer "yes".

Q26 I can understand common words and phrases in Olelo Hawai’i.:Which of the following is true for you regarding using Olelo Hawai’i (Hawaiian language)? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1888.8   
## 2 1456 1826.5 1 62.313 2.931e-15 \*\*\*  
## 3 1453 1821.8 3 4.686 0.1962879   
## 4 1450 1805.2 3 16.628 0.0008426 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q26 I can write Olelo Hawai’i.:Which of the following is true for you regarding using Olelo Hawai’i (Hawaiian language)? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model 1: Current\_Q ~ 1  
## Model 2: Current\_Q ~ Hawaiian  
## Model 3: Current\_Q ~ Loc + Hawaiian  
## Model 4: Current\_Q ~ Loc \* Hawaiian  
## Resid. Df Resid. Dev Df Deviance Pr(>Chi)   
## 1 1457 1336.1   
## 2 1456 1242.7 1 93.435 < 2e-16 \*\*\*  
## 3 1453 1233.9 3 8.780 0.03236 \*   
## 4 1450 1232.6 3 1.289 0.73167   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

## RQ1, part 5

Q35 How important are Native Hawaiian culture and values to solving the challenges facing Hawai’i today?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1327 3652.542   
## 2 Hawaiian 1326 3566.111 1 vs 2 1 86.431074 0.0000000000  
## 3 Loc + Hawaiian 1323 3547.804 2 vs 3 3 18.306428 0.0003802599  
## 4 Loc \* Hawaiian 1320 3543.156 3 vs 4 3 4.648469 0.1994234007

## RQ2, part 1

Q21 How satisfied are you with your overall quality of life

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1430 3463.659   
## 2 Hawaiian 1429 3452.806 1 vs 2 1 10.852962 0.0009863784  
## 3 Loc + Hawaiian 1426 3451.669 2 vs 3 3 1.136731 0.7682152066  
## 4 Loc \* Hawaiian 1423 3445.994 3 vs 4 3 5.674761 0.1285517104

## RQ2, part 2

Q23 Overall, how hopeful are you about Hawai’i’s future?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1401 4256.965   
## 2 Hawaiian 1400 4251.934 1 vs 2 1 5.030333 0.0249071024  
## 3 Loc + Hawaiian 1397 4234.227 2 vs 3 3 17.707335 0.0005054058  
## 4 Loc \* Hawaiian 1394 4233.009 3 vs 4 3 1.218228 0.7486357984

## RQ2, part 3

Q44 and 46 are word clouds

Q47 What is your highest level of education?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1349 3712.053   
## 2 Hawaiian 1348 3676.852 1 vs 2 1 35.2010288 2.973664e-09  
## 3 Loc + Hawaiian 1345 3663.513 2 vs 3 3 13.3392171 3.957607e-03  
## 4 Loc \* Hawaiian 1342 3662.605 3 vs 4 3 0.9082792 8.234294e-01

## RQ2, part 4

Determine good analysis approach

## RQ2, part 5

Q40 Before the COVID-19 crisis, how would you have described your household’s financial situation?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1396 4072.572   
## 2 Hawaiian 1395 4029.893 1 vs 2 1 42.678756 6.450906e-11  
## 3 Loc + Hawaiian 1392 4017.332 2 vs 3 3 12.561860 5.686601e-03  
## 4 Loc \* Hawaiian 1389 4009.314 3 vs 4 3 8.017091 4.565981e-02

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1394 4322.980   
## 2 Hawaiian 1393 4264.802 1 vs 2 1 58.17831 2.398082e-14  
## 3 Loc + Hawaiian 1390 4250.389 2 vs 3 3 14.41312 2.393500e-03  
## 4 Loc \* Hawaiian 1387 4242.747 3 vs 4 3 7.64196 5.402093e-02

## RQ3, part 1

Q37 When it comes to strengthening Native Hawaiian communities, which statement best represents you?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1194 3563.627   
## 2 Hawaiian 1193 3445.287 1 vs 2 1 118.339867 0.00000000  
## 3 Loc + Hawaiian 1190 3436.313 2 vs 3 3 8.974134 0.02963678  
## 4 Loc \* Hawaiian 1187 3430.177 3 vs 4 3 6.135328 0.10520869

## RQ3, part 2

Q33 When making a difficult decision or taking on a challenging task, how often do you draw upon your cultural heritage?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1355 4031.678   
## 2 Hawaiian 1354 3941.798 1 vs 2 1 89.879268 0.0000000  
## 3 Loc + Hawaiian 1351 3938.438 2 vs 3 3 3.360295 0.3393385  
## 4 Loc \* Hawaiian 1348 3934.651 3 vs 4 3 3.787250 0.2853727

## RQ3, part 3

See question 4 results

## RQ3, part 4

Q30 No:Do you interact with the aina (land) or kai (ocean) for cultural, spiritual, subsistence, health, or recreational reasons? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 814.65   
## Loc 3 20.0458 1454 794.60 0.0001661 \*\*\*  
## Hawaiian 1 20.5670 1453 774.04 5.758e-06 \*\*\*  
## Loc:Hawaiian 3 2.9978 1450 771.04 0.3919630   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q30 Yes, for cultural reasons.:Do you interact with the aina (land) or kai (ocean) for cultural, spiritual, subsistence, health, or recreational reasons? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1967.1   
## Hawaiian 1 157.350 1456 1809.8 <2e-16 \*\*\*  
## Loc 3 3.339 1453 1806.4 0.3423   
## Hawaiian:Loc 3 1.026 1450 1805.4 0.7949   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q30 Yes, for health reasons.:Do you interact with the aina (land) or kai (ocean) for cultural, spiritual, subsistence, health, or recreational reasons? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 2016.4   
## Hawaiian 1 3.0942 1456 2013.3 0.078573 .   
## Loc 3 11.4653 1453 2001.8 0.009458 \*\*  
## Hawaiian:Loc 3 3.3732 1450 1998.4 0.337586   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q30 Yes, for recreational reasons.:Do you interact with the aina (land) or kai (ocean) for cultural, spiritual, subsistence, health, or recreational reasons? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1902.0   
## Hawaiian 1 1.2698 1456 1900.8 0.2598   
## Loc 3 6.8131 1453 1894.0 0.0781 .  
## Hawaiian:Loc 3 2.9645 1450 1891.0 0.3971   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q30 Yes, for spiritual or religious reasons. :Do you interact with the aina (land) or kai (ocean) for cultural, spiritual, subsistence, health, or recreational reasons? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1927.3   
## Hawaiian 1 39.492 1456 1887.8 3.294e-10 \*\*\*  
## Loc 3 13.712 1453 1874.1 0.003324 \*\*   
## Hawaiian:Loc 3 0.096 1450 1874.0 0.992359   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q30 Yes, for subsistence reasons.:Do you interact with the aina (land) or kai (ocean) for cultural, spiritual, subsistence, health, or recreational reasons? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1843.3   
## Hawaiian 1 26.588 1456 1816.8 2.518e-07 \*\*\*  
## Loc 3 39.208 1453 1777.5 1.568e-08 \*\*\*  
## Hawaiian:Loc 3 0.257 1450 1777.3 0.968   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

## RQ4, part 1

See output for Q17 and 19 above

## RQ4, part 2

Q39 Caregiving for children:What, if anything, are you worried about in light of the COVID-19 crisis for you or your family? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1647.4   
## Hawaiian 1 25.2572 1456 1622.2 5.017e-07 \*\*\*  
## Loc 3 5.5954 1453 1616.6 0.1330   
## Hawaiian:Loc 3 4.8854 1450 1611.7 0.1804   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q39 Caregiving for dependent adults:What, if anything, are you worried about in light of the COVID-19 crisis for you or your family? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)  
## NULL 1457 1547.1   
## Hawaiian 1 0.94235 1456 1546.2 0.3317  
## Loc 3 2.69470 1453 1543.5 0.4411  
## Hawaiian:Loc 3 1.84678 1450 1541.6 0.6048

Q39 Getting laid off or being on unemployment:What, if anything, are you worried about in light of the COVID-19 crisis for you or your family? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 2003.2   
## Hawaiian 1 42.257 1456 1960.9 8.001e-11 \*\*\*  
## Loc 3 1.618 1453 1959.3 0.6553   
## Hawaiian:Loc 3 3.187 1450 1956.1 0.3637   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q39 Health/getting sick:What, if anything, are you worried about in light of the COVID-19 crisis for you or your family? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1593.2   
## Hawaiian 1 4.4722 1456 1588.7 0.034451 \*   
## Loc 3 12.0860 1453 1576.6 0.007094 \*\*  
## Hawaiian:Loc 3 0.7384 1450 1575.9 0.864148   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q39 Losing health insurance:What, if anything, are you worried about in light of the COVID-19 crisis for you or your family? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1752.6   
## Hawaiian 1 17.4353 1456 1735.2 2.972e-05 \*\*\*  
## Loc 3 0.5036 1453 1734.7 0.9181   
## Hawaiian:Loc 3 6.2019 1450 1728.5 0.1022   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q39 Loss of services in my community:What, if anything, are you worried about in light of the COVID-19 crisis for you or your family? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 2009.6   
## Hawaiian 1 1.3797 1456 2008.2 0.240160   
## Loc 3 12.4678 1453 1995.8 0.005941 \*\*  
## Hawaiian:Loc 3 8.9058 1450 1986.9 0.030571 \*   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q39 Loss of small businesses in my community:What, if anything, are you worried about in light of the COVID-19 crisis for you or your family? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1995.9   
## Hawaiian 1 0.0357 1456 1995.8 0.850034   
## Loc 3 16.0295 1453 1979.8 0.001118 \*\*  
## Hawaiian:Loc 3 9.3708 1450 1970.4 0.024746 \*   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q39 Mental and emotional well-being:What, if anything, are you worried about in light of the COVID-19 crisis for you or your family? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1921.0   
## Hawaiian 1 9.9950 1456 1911.0 0.00157 \*\*  
## Loc 3 4.4394 1453 1906.6 0.21776   
## Hawaiian:Loc 3 10.3981 1450 1896.2 0.01547 \*   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q39 My children falling behind in school:What, if anything, are you worried about in light of the COVID-19 crisis for you or your family? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1881.3   
## Hawaiian 1 16.2294 1456 1865.1 5.612e-05 \*\*\*  
## Loc 3 0.8301 1453 1864.2 0.84227   
## Hawaiian:Loc 3 8.9582 1450 1855.3 0.02985 \*   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q39 Not being able to find work:What, if anything, are you worried about in light of the COVID-19 crisis for you or your family? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1839.0   
## Hawaiian 1 15.0102 1456 1824.0 0.0001069 \*\*\*  
## Loc 3 7.5098 1453 1816.5 0.0573068 .   
## Hawaiian:Loc 3 2.5163 1450 1814.0 0.4723460   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

## RQ4, part 3

Q43 Members of my household depend on community spaces like libraries and public “hot spots” for internet access.:Which of the following is true for you regarding digital connectivity? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 881.18   
## Hawaiian 1 0.3367 1456 880.85 0.56172   
## Loc 3 10.2892 1453 870.56 0.01626 \*  
## Hawaiian:Loc 3 2.0360 1450 868.52 0.56497   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q43 My household has enough internet-capable devices for everyone to be online at the same time, if needed.:Which of the following is true for you regarding digital connectivity? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)  
## NULL 1457 1976.0   
## Hawaiian 1 0.6869 1456 1975.3 0.4072  
## Loc 3 4.4276 1453 1970.9 0.2188  
## Hawaiian:Loc 3 1.7682 1450 1969.2 0.6219

Q43 My household has internet access at a speed and quality that meets our needs.:Which of the following is true for you regarding digital connectivity? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 2004.9   
## Hawaiian 1 0.0767 1456 2004.8 0.78185   
## Loc 3 7.4695 1453 1997.4 0.05835 .  
## Hawaiian:Loc 3 1.7935 1450 1995.6 0.61636   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q43 My household plans to keep our internet subscription at the same level.:Which of the following is true for you regarding digital connectivity? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1902.0   
## Hawaiian 1 2.80038 1456 1899.2 0.09424 .  
## Loc 3 0.13543 1453 1899.1 0.98727   
## Hawaiian:Loc 3 1.42256 1450 1897.7 0.70026   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q43 The internet-capable devices in my household are easy to use for essential purposes like school or work.:Which of the following is true for you regarding digital connectivity? (Select all that apply)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)  
## NULL 1457 1891.3   
## Hawaiian 1 0.34511 1456 1890.9 0.5569  
## Loc 3 1.10426 1453 1889.8 0.7760  
## Hawaiian:Loc 3 1.90496 1450 1887.9 0.5924

## RQ4, part 4

Q20 Connecting with the aina (land) or kai (ocean):Which of the following strategies help you cope with loss or other difficult times? (Choose your top three)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1808.5   
## Hawaiian 1 7.3406 1456 1801.2 0.0067415 \*\*   
## Loc 3 18.7297 1453 1782.5 0.0003109 \*\*\*  
## Hawaiian:Loc 3 5.5308 1450 1776.9 0.1368097   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q20 Expressing myself through art, music, writing, dance, cooking, etc.:Which of the following strategies help you cope with loss or other difficult times? (Choose your top three)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)  
## NULL 1457 1339.3   
## Hawaiian 1 0.07524 1456 1339.2 0.7839  
## Loc 3 0.27398 1453 1338.9 0.9648  
## Hawaiian:Loc 3 0.27946 1450 1338.7 0.9638

Q20 Living a healthy lifestyle (for example, nutrition, exercise, support from health professionals, etc.):Which of the following strategies help you cope with loss or other difficult times? (Choose your top three)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 2011.3   
## Hawaiian 1 13.1296 1456 1998.2 0.0002907 \*\*\*  
## Loc 3 0.8096 1453 1997.4 0.8471596   
## Hawaiian:Loc 3 3.6254 1450 1993.8 0.3048637   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q20 Living a healthy lifestyle (for example, nutrition, exercise, support from health professionals, etc.):Which of the following strategies help you cope with loss or other difficult times? (Choose your top three)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 2011.3   
## Hawaiian 1 13.1296 1456 1998.2 0.0002907 \*\*\*  
## Loc 3 0.8096 1453 1997.4 0.8471596   
## Hawaiian:Loc 3 3.6254 1450 1993.8 0.3048637   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q20 Prayer, meditation or mindfulness:Which of the following strategies help you cope with loss or other difficult times? (Choose your top three)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 2021.2   
## Hawaiian 1 13.0709 1456 2008.1 0.0002999 \*\*\*  
## Loc 3 0.7805 1453 2007.3 0.8541196   
## Hawaiian:Loc 3 4.8957 1450 2002.5 0.1795924   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q20 Setting daily goals, routines, or priorities:Which of the following strategies help you cope with loss or other difficult times? (Choose your top three)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)  
## NULL 1457 2005.8   
## Hawaiian 1 0.2089 1456 2005.5 0.6476  
## Loc 3 0.4550 1453 2005.1 0.9287  
## Hawaiian:Loc 3 6.0503 1450 1999.0 0.1092

Q20 Stress reducing substances such as tobacco, alcohol, non-prescribed medications, etc.:Which of the following strategies help you cope with loss or other difficult times? (Choose your top three)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 991.99   
## Hawaiian 1 3.3420 1456 988.65 0.06753 .  
## Loc 3 8.8520 1453 979.79 0.03132 \*  
## Hawaiian:Loc 3 3.8251 1450 975.97 0.28098   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Q20 Support from ’ohana or friends:Which of the following strategies help you cope with loss or other difficult times? (Choose your top three)

## Analysis of Deviance Table  
##   
## Model: binomial, link: logit  
##   
## Response: Current\_Q  
##   
## Terms added sequentially (first to last)  
##   
##   
## Df Deviance Resid. Df Resid. Dev Pr(>Chi)   
## NULL 1457 1787.3   
## Hawaiian 1 1.1413 1456 1786.2 0.285377   
## Loc 3 13.7506 1453 1772.5 0.003265 \*\*  
## Hawaiian:Loc 3 1.9147 1450 1770.5 0.590295   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

## RQ5, part 1

See output for Q4 above

## RQ5, part 2

See output for Q6 above

Q5 Charter schools:How satisfied are you with the quality of the following education programs in your community?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 899 2473.470   
## 2 Hawaiian 898 2473.469 1 vs 2 1 0.0007385622 0.9783190  
## 3 Loc + Hawaiian 895 2471.526 2 vs 3 3 1.9432009682 0.5842788  
## 4 Loc \* Hawaiian 892 2470.746 3 vs 4 3 0.7800690528 0.8542281

Q5 Colleges, community colleges, and universities:How satisfied are you with the quality of the following education programs in your community?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1252 3399.963   
## 2 Hawaiian 1251 3399.346 1 vs 2 1 0.6170894 0.4321309  
## 3 Loc + Hawaiian 1248 3396.588 2 vs 3 3 2.7581886 0.4304291  
## 4 Loc \* Hawaiian 1245 3396.414 3 vs 4 3 0.1737980 0.9817041

Q5 Native Hawaiian-focused education programs:How satisfied are you with the quality of the following education programs in your community

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1112 3179.603   
## 2 Hawaiian 1111 3178.949 1 vs 2 1 0.6542432 0.41859969  
## 3 Loc + Hawaiian 1108 3176.612 2 vs 3 3 2.3368358 0.50550090  
## 4 Loc \* Hawaiian 1105 3166.629 3 vs 4 3 9.9829823 0.01871135

Q5 Out-of-school programs (for example, summer or intercession programs):How satisfied are you with the quality of the following education programs in your community?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1109 3172.545   
## 2 Hawaiian 1108 3170.153 1 vs 2 1 2.3923825 0.12192768  
## 3 Loc + Hawaiian 1105 3163.219 2 vs 3 3 6.9345178 0.07401446  
## 4 Loc \* Hawaiian 1102 3162.686 3 vs 4 3 0.5322767 0.91174525

Q5 Preschools:How satisfied are you with the quality of the following education programs in your community?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1129 3199.802   
## 2 Hawaiian 1128 3199.801 1 vs 2 1 0.0009647504 0.9752213  
## 3 Loc + Hawaiian 1125 3199.313 2 vs 3 3 0.4876839930 0.9215887  
## 4 Loc \* Hawaiian 1122 3196.565 3 vs 4 3 2.7479447906 0.4321410

Q5 Private K-12 schools:How satisfied are you with the quality of the following education programs in your community?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1121 3141.662   
## 2 Hawaiian 1120 3139.244 1 vs 2 1 2.418323 0.11992328  
## 3 Loc + Hawaiian 1117 3136.115 2 vs 3 3 3.129185 0.37213311  
## 4 Loc \* Hawaiian 1114 3125.862 3 vs 4 3 10.253449 0.01653015

Q5 Public K-12 schools:How satisfied are you with the quality of the following education programs in your community?

## Likelihood ratio tests of ordinal regression models  
##   
## Response: Current\_Q  
## Model Resid. df Resid. Dev Test Df LR stat. Pr(Chi)  
## 1 1 1283 3797.677   
## 2 Hawaiian 1282 3794.138 1 vs 2 1 3.53989870 0.05990912  
## 3 Loc + Hawaiian 1279 3792.847 2 vs 3 3 1.29028211 0.73144197  
## 4 Loc \* Hawaiian 1276 3792.792 3 vs 4 3 0.05573877 0.99655805

## RQ5, part 3

See Q9 output above

## RQ5, part 4

See Q10 output above

## RQ5, part 5

See Q12 output above

## RQ5, part 6

See Q17 output above

## RQ5, part 7

See Q19 output above

## RQ5, part 8

See Q22 and 23 output above

## RQ5, part 9

See Q43 output above

## RQ5, part 9

See Q8 output above

## RQ5, part 9

See Q7 output above