|  |  |  |  |
| --- | --- | --- | --- |
| Desired column names | Base | **Done** |  |
| Strain | Yes |  |  |
| Country | Yes |  |  |
| Province | Yes |  |  |
| City | Yes |  |  |
| Latitude | Yes |  |  |
| Longitude | Yes |  |  |
| Day | Yes |  |  |
| Month | Yes |  |  |
| Year | Yes |  |  |
| TP1 (0 or 1) | Yes |  |  |
| TP1 cluster | tp1\_cl |  |  |
| TP1 cluster size (2) | TP1\_T0\_Size |  |  |
| TP1\_T0\_ECC\_0.1.0 | Yes |  |  |
| TP1\_T0\_ECC\_0.0.1 | Yes |  |  |
| TP2 | Yes |  |  |
| TP2 cluster | tp2\_cl |  |  |
| TP2 cluster size (2) | TP2\_T0\_Size |  |  |
| TP2\_T0\_ECC\_0.1.0 | Yes |  |  |
| TP2\_T0\_ECC\_0.0.1 | Yes |  |  |
| delta\_ECC\_0.1.0 | Yes |  |  |
| delta\_ECC\_0.0.1 | Yes |  |  |
| Average TP1 date | tp1\_avg\_date |  |  |
| TP1 temp average cluster distance (days) | TP1\_T0\_avg\_temp\_dist |  |  |
| Average TP1 latitude | tp1\_avg\_lat |  |  |
| Average TP1 longitude | tp1\_avg\_long |  |  |
| TP1 geo average cluster distance (km) | TP1\_T0\_avg\_geog\_dist |  |  |
| Average TP2 date | tp2\_avg\_date |  |  |
| TP2 temp average cluster distance (days) | TP2\_T0\_avg\_temp\_dist |  |  |
| Average TP2 latitude | tp2\_avg\_lat |  |  |
| Average TP2 longitude | tp2\_avg\_long |  |  |
| TP2 geo average cluster distance (km) | TP2\_T0\_avg\_geog\_dist |  |  |
| First time this cluster was seen in TP1 | first\_tp1\_flag |  |  |
| Last time this cluster was seen in TP1 | last\_tp1\_flag |  |  |
| First time this cluster was seen in TP2 | first\_tp2\_flag |  |  |
| Last time this cluster was seen in TP2 | last\_tp2\_flag |  |  |
| TP1 cluster size | tp1\_cl\_size (with +1) |  |  |
| TP2 cluster size | tp2\_cl\_size (with +1) |  |  |
| Actual cluster size (TP2 size – TP1 size) | actual\_size\_change |  |  |
| Number of additional TP1 strains in the TP2 match | add\_TP1 |  |  |
| Number of novels in the TP2 match | num\_novs |  |  |
| Actual growth rate = (TP2 size – TP1 size) / (TP1 size) | actual\_growth\_rate |  |  |
| Novel growth = (TP2 size) / (TP2 size – number of novels) | new\_growth |  |  |
| Type (1,2,3,4) |  |  |  |