

Variant Surveillance– Cumulative Summary

| Lineage (<i>WHO Classification</i>) | Proportion of Variant Sequenced from Dec 20, 2020 (%) | Proportion of Variant Sequenced in last 4 weeks (%) |
|---|---|---|
| Variant of Concern | | |
| BA.1.1.529 (Omicron)[#] | 6.5% | 0.0% |
| BA.1.1 (Omicron) | 3.9% | 0.0% |
| BA.2 (Omicron) | 13.3% | 0.5% |
| BA.2.12.1 (Omicron) | 11.7% | 0.0% |
| BA.4 (Omicron) | 1.5% | 1.8% |
| BA.4.6 (Omicron) | 1.0% | 13.8% |
| BA.5 (Omicron) | 12.2% | 80.7% |
| BA.2.75 (Omicron) | 0.1% | 0.9% |
| BA.2.75.2 (Omicron) | 0.0% | 0.7% |
| BF.7 (Omicron) | 0.1% | 1.4% |
| Variants Being Monitored (VBM)[*] | | |
| B.1.617.2 (Delta)[§] | 28.3% | 0.0% |
| B.1.1.7 (Alpha) | 8.2% | 0.0% |
| B.1.351 (Beta) | 0.0% | 0.0% |
| P.1 (Gamma) | 0.5% | 0.0% |
| B.1.427, B.1.429 (Epsilon) | 0.3% | 0.0% |
| P.2 (Zeta) | 0.0% | 0.0% |
| B.1.525 (Eta) | 0.1% | 0.0% |
| B.1.526 (Iota) | 5.1% | 0.0% |
| B.1.526.1 | 0.7% | 0.0% |
| B.1.617.1 (Kappa) | 0.0% | 0.0% |
| B.1.621, B.1.621.1 (Mu) | 0.2% | 0.0% |
| Other Lineages | 6.2% | 0.2% |
| Total Number of Specimens Sequenced** | 68880 | 2146 |

Omicron B.1.1.529 includes BA.1, BA.3 and all their sublineages (except BA.1.1 and its sublineages); Omicron BA.2 includes all sublineages except BA.2.12.1, BA.2.75 and BA.2.75.2; Omicron BA.4 includes all sublineages except BA.4.6; Omicron BA.5 includes all sublineages and aliases (BE.x and BF.x) except BF.7

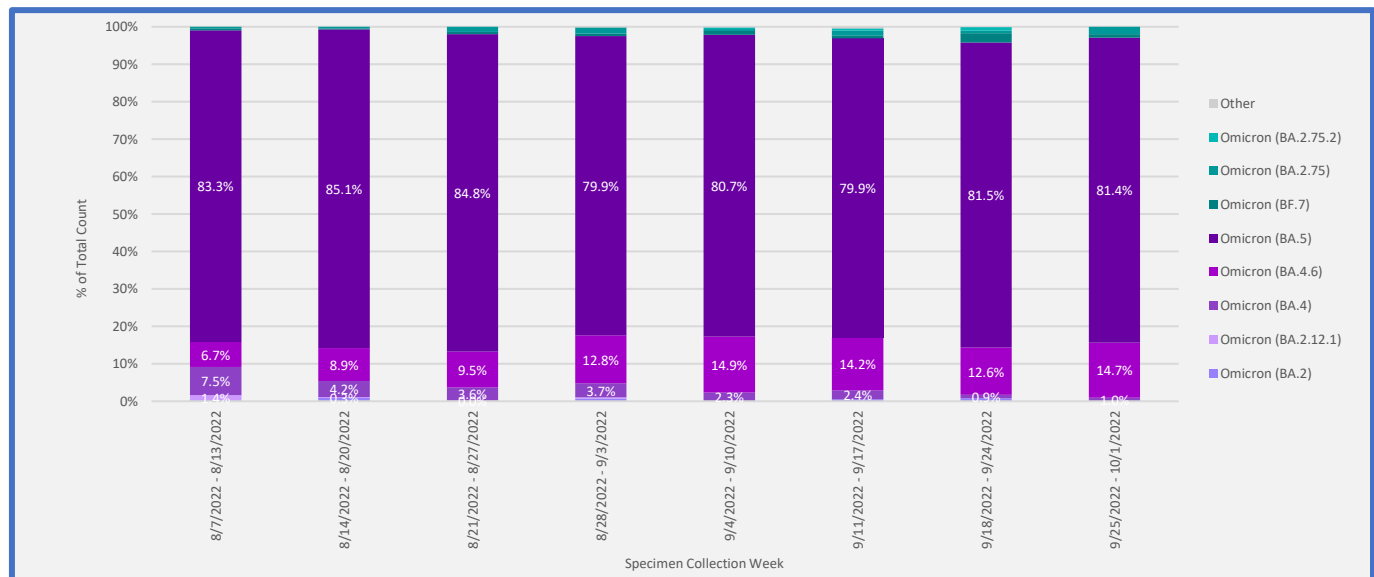
§ Delta includes B.1.617.2 and all AY variants.

* Variant of Interest or Concern were downgraded to this list with significant reduction in its proportions and evidence the variant does not pose a significant public health risk.

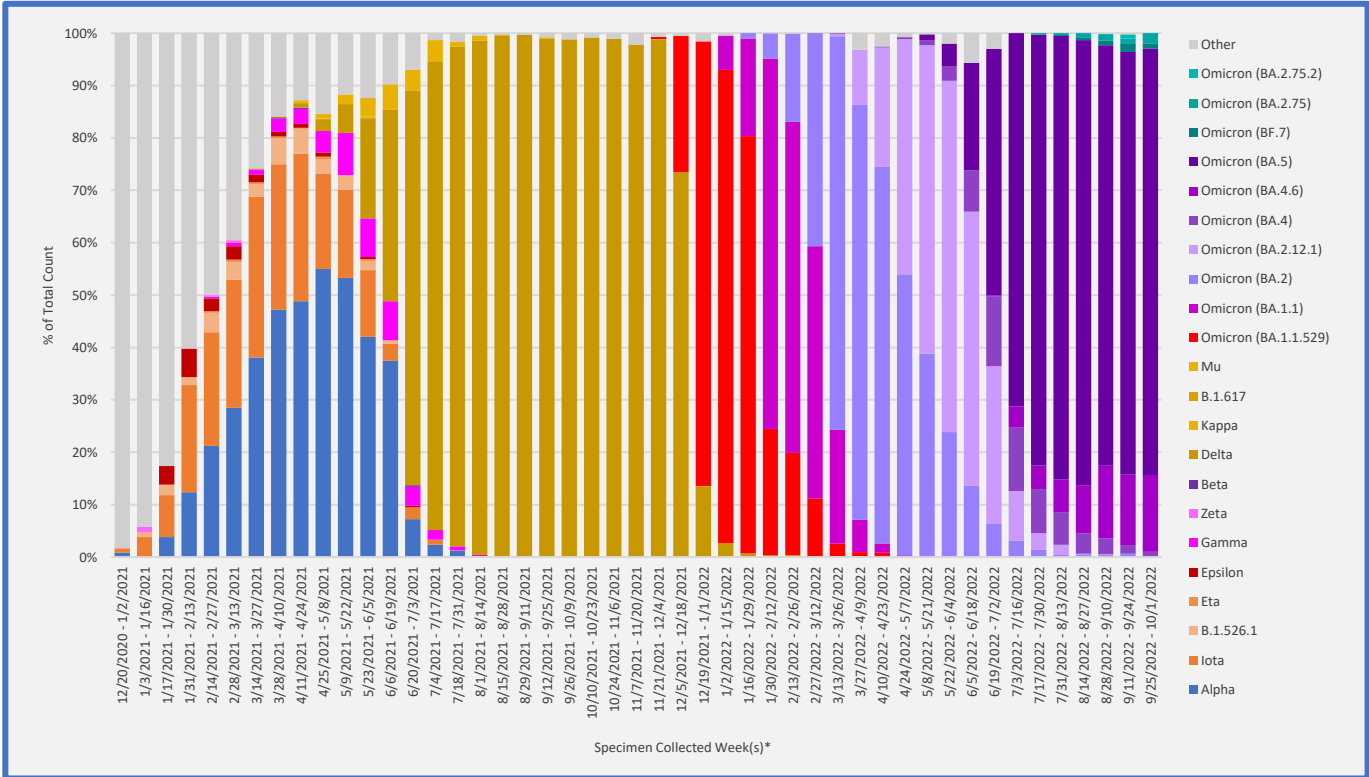
**Includes sequencing results reported by Commercial Labs (LabCorp, Aegis Sciences Corporation, Helix, Infinity Biologix and Quest Diagnostics) and the State Public Health Lab that have been submitted for surveillance purposes.

For CDC definitions of variant of concern and variant of interest visit: <https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-surveillance/variant-info.html#Concern>

COVID-19 Variant Surveillance by Week of Specimen Collection - Previous 8 Week Summary



COVID-19 Variant Surveillance by Specimen Collected Week- Cumulative Summary



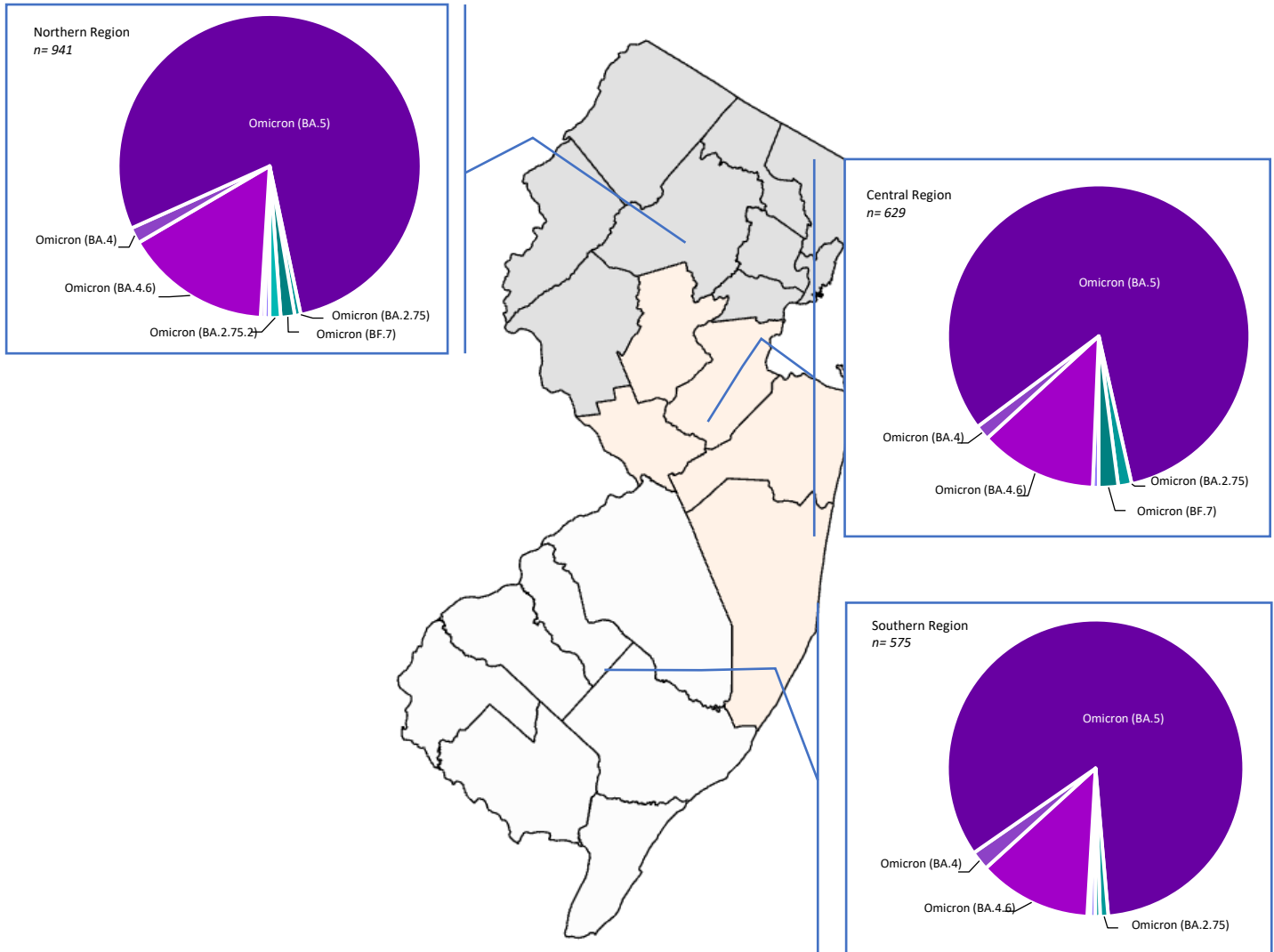
Percentages represent the proportion found in the specified variant lineage. "Other" represents 173 additional and unassigned lineages not classified as variants of concern or variants of interest.

* Specimens collected 9/25/2022 – 10/1/2022 reflects data for 1 week with a total of 102 specimens.

Variant Details

| WHO Label | Pango Lineage | First Detected | CDC Variant Classification | CDC Date of Designation |
|-----------|--|----------------|---------------------------------|-------------------------|
| Alpha | B.1.1.7 | United Kingdom | Variants Being Monitored (VBM) | September 12, 2021 |
| Beta | B.1.351 | South Africa | Variants Being Monitored (VBM) | September 12, 2021 |
| Delta | B.1.617.2, AY.1 – AY.122 | India | Variants Being Monitored (VBM) | April, 2022 |
| Gamma | P.1 | Brazil | Variants Being Monitored (VBM) | September 12, 2021 |
| Epsilon | B.1.427, B.1.429 | USA-California | Variants Being Monitored (VBM) | September 12, 2021 |
| Eta | B.1.525 | USA-New York | Variants Being Monitored (VBM) | September 12, 2021 |
| Iota | B.1.526 | USA-New York | Variants Being Monitored (VBM) | September 12, 2021 |
| N/A | B.1.526.1 | USA-New York | Variants Being Monitored (VBM) | September 12, 2021 |
| Zeta | P.2 | Brazil | Variants Being Monitored (VBM) | September 12, 2021 |
| N/A | B.1.617 | India | Variants Being Monitored (VBM) | September 12, 2021 |
| Kappa | B.1.617.1 | India | Variants Being Monitored (VBM) | September 12, 2021 |
| Mu | B.1.621, B.1.621.1 | Columbia | Variants Being Monitored (VBM) | September 12, 2021 |
| Omicron | B.1.1.529, BA.1, BA.1.1, BA.2-BA.5, BF.7 | South Africa | Variant of Concern (VOC) | November, 2021 |

COVID-19 Variant Surveillance by State Region- Previous 4 weeks Summary*



*Each regional chart represents the proportion of the specified variant lineage and is based on sequencing results from the 4 weeks prior to the week of October 1, 2022. There is an approximately 14-24-day time lag between specimen collection and report of sequencing results to NJDOH. "Other" represents additional lineages which include other COVID-19 variants not classified as variants of concern or variants of interest.

Includes all sequencing results reported by Commercial Labs (including LabCorp, Aegis Sciences Corporation, Helix, Infinity Biologix and Quest Diagnostics) and the State Public Health Lab that have been submitted for surveillance purposes.

Data reported is based on a subset of sampled specimens from NJ residents sequenced for COVID-19 variant surveillance.