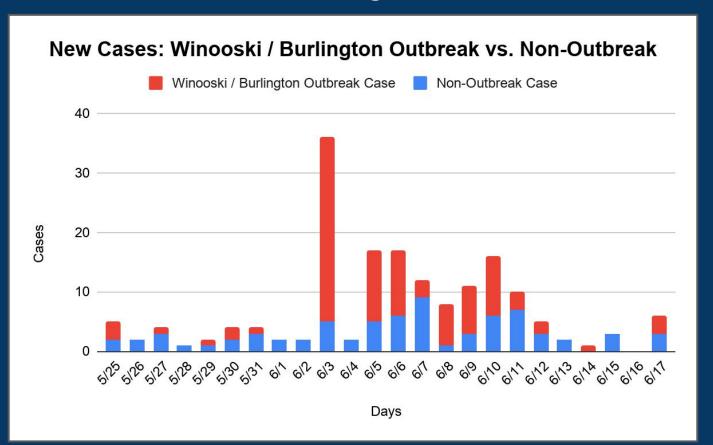
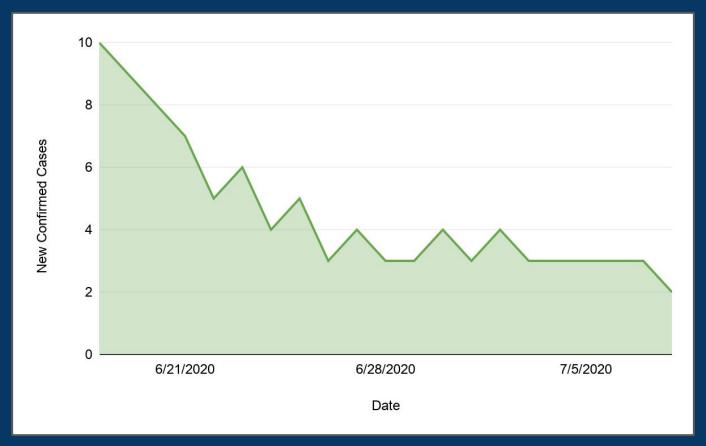
# COVID-19 Modeling June 19, 2020

Presentation available at: dfr.vermont.gov

#### Winooski / Burlington Outbreak



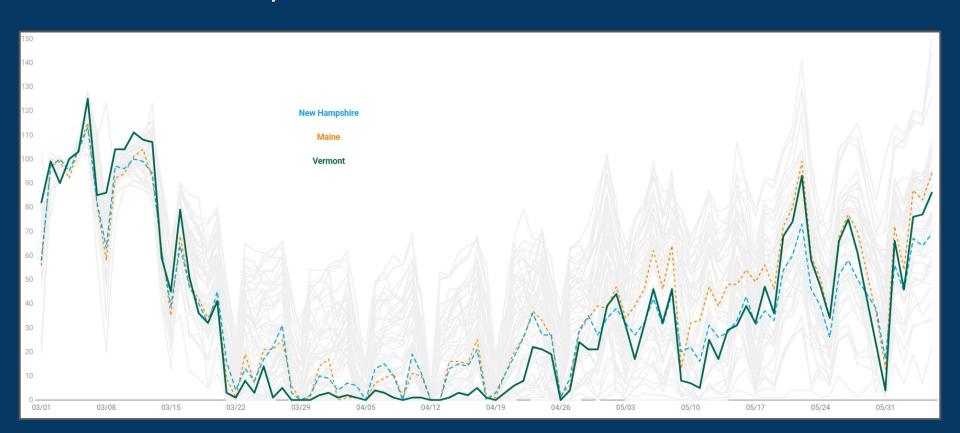
#### Vermont Forecast June 18th to July 8th



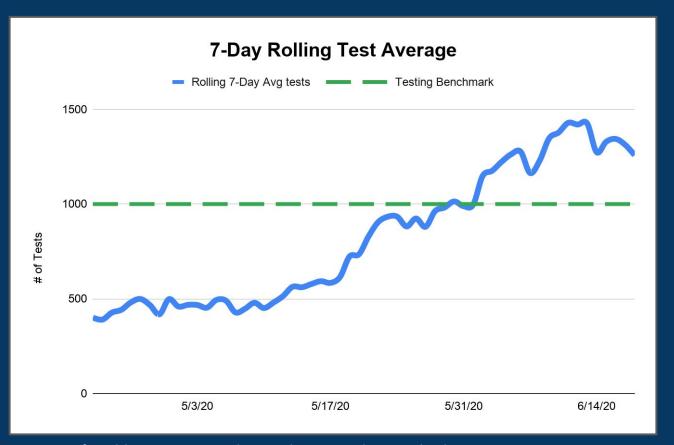
## National Forecast: Next Two Weeks



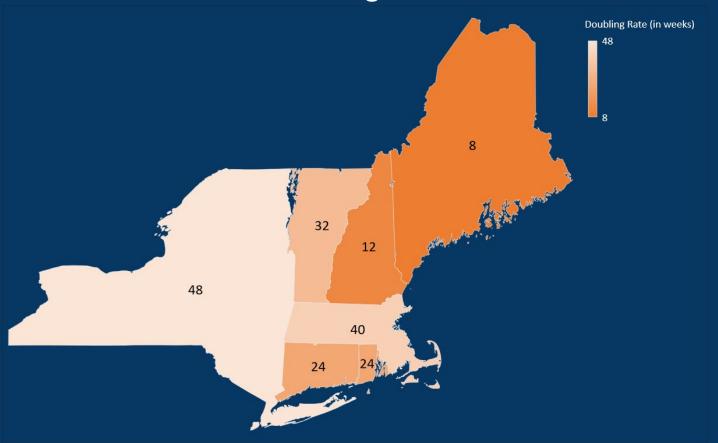
# Mobility Data: Continued Increased Movement



## Increased Vermont Testing



# Vermont's Doubling Rate: 32 Weeks



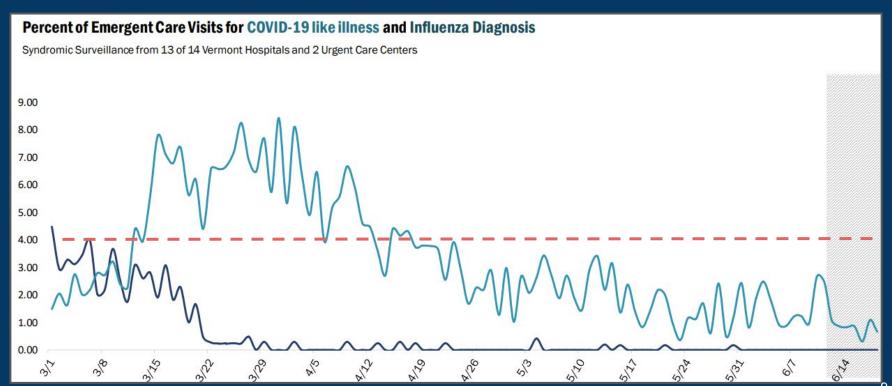
# RESTART VERMONT

# Reopening Metrics

- 1. Syndromic Surveillance
- 2. Viral Growth & Reproductive Rates
- 3. Percentage of New Positive Tests
- 4. Hospital & Critical Care Bed Capacity

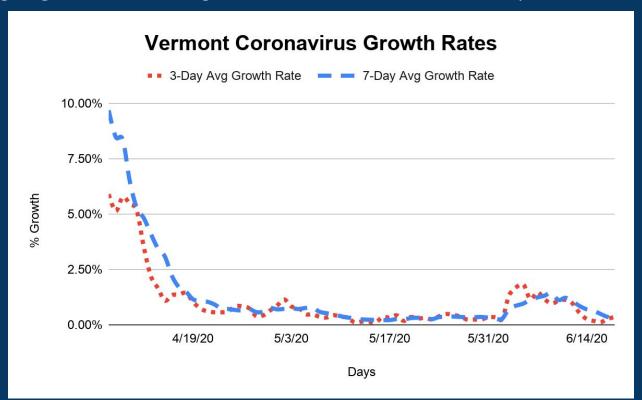
#### **Data Point 1:** Syndromic Surveillance

- Summary: Percentage of visits with COVID-19 like illness and Influenza diagnosis
- Warning Flag: Percentage of visits exceeding 4% for multiple consecutive days



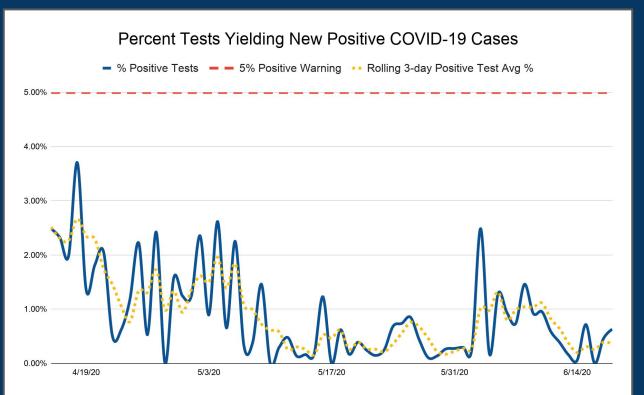
#### Data Point 2: Viral Growth and Reproductive Rates

- Summary: Case growth measured by daily, 3-day, 7-day, and effective reproductive rate  $(R_t)$
- Warning Flags: Sustained viral growth that would lead to <30% of open ICU beds



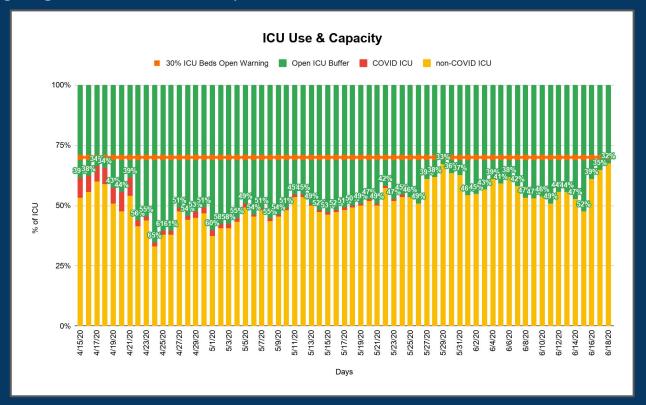
#### **Data Point 3:** Percentage of New Positive Tests

- Summary: Percent of tests resulting in a new positive case
- Warning Flags: New positives represent >5% of daily results



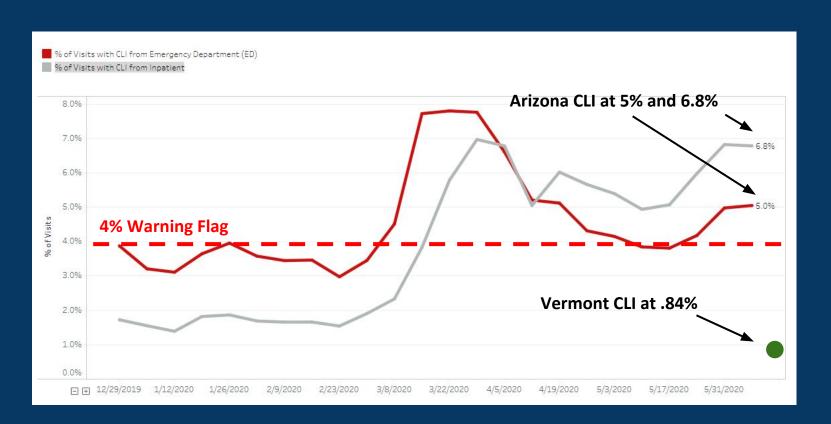
#### **Data Point 4:** Hospital & Critical Care Beds

- **Summary:** Number of occupied and unoccupied medical surgical and ICU beds
- Warning Flags: Reduction in ICU open beds to less than 30%

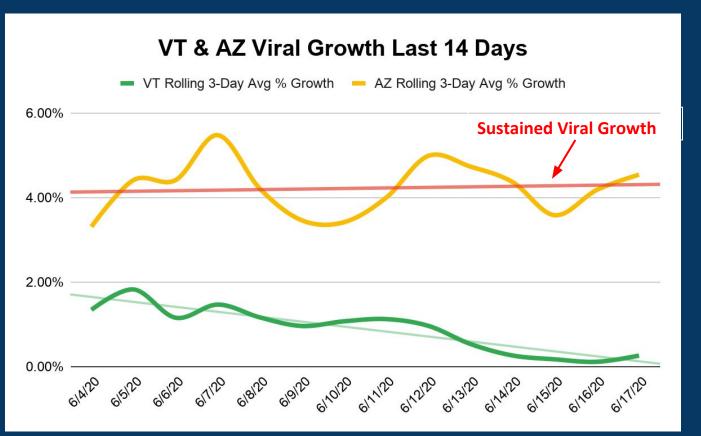


# Restart Metrics: Arizona & Vermont

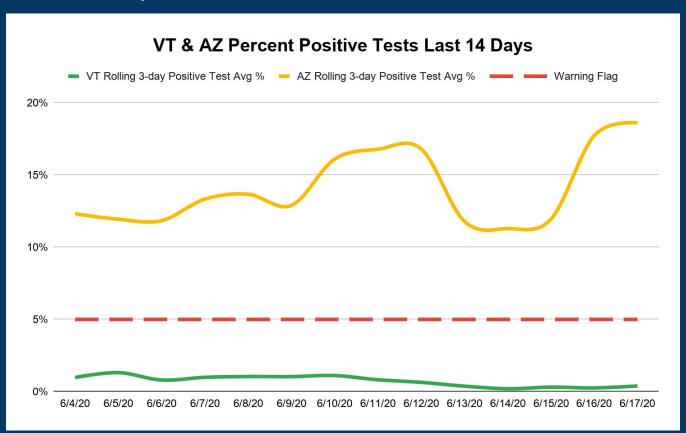
# Comparison: Syndromic Surveillance



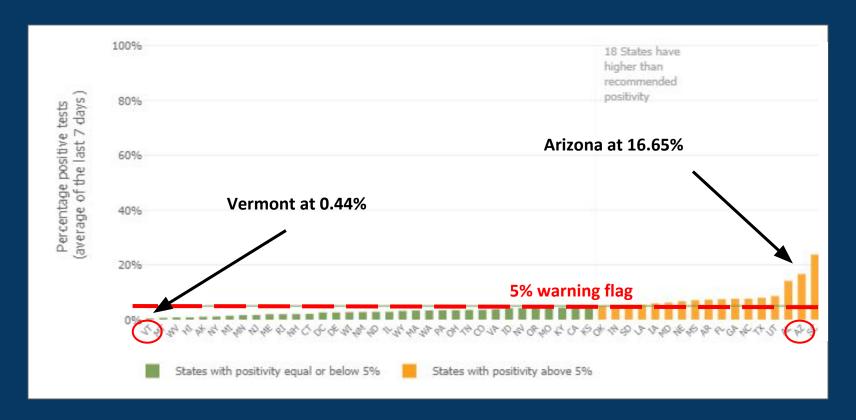
# Comparison: Viral Growth Rate



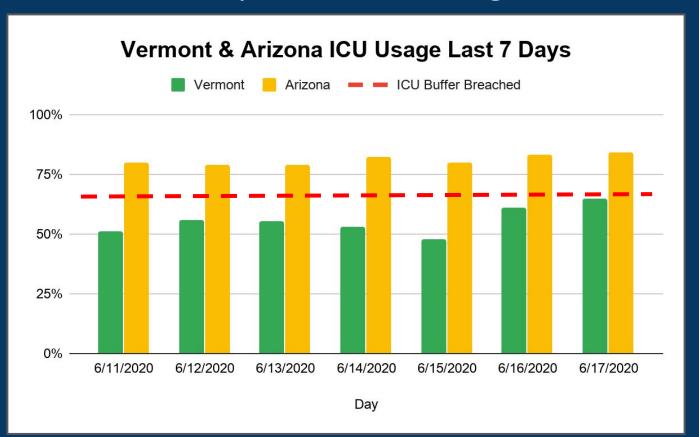
# Comparison: Percent Positive Tests



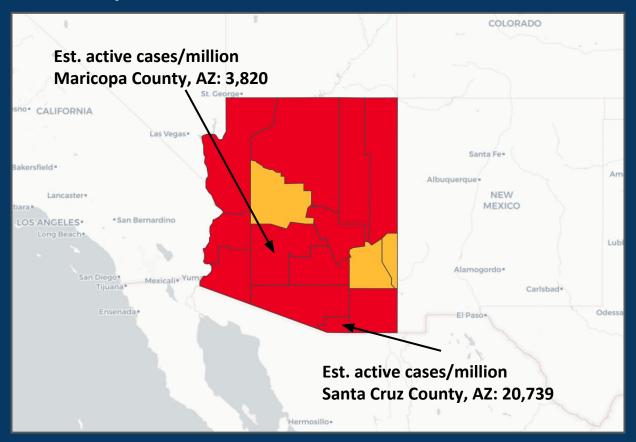
# Comparison: Percent Positive Tests Last 7 Days



# Comparison: ICU Usage

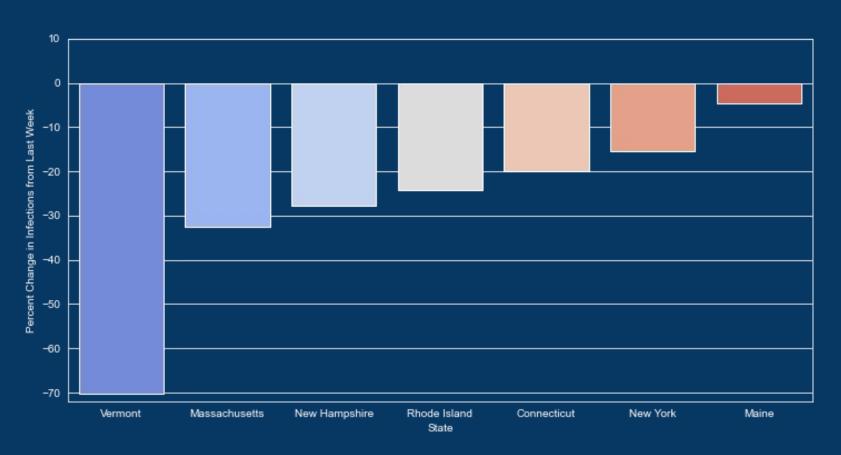


# Comparison: Estimated Active Cases

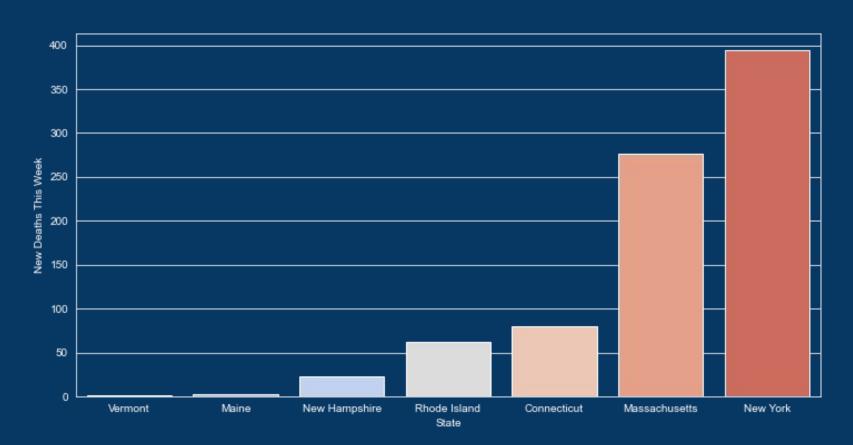


# Regional Data

#### Weekly Percent Change: Infections



# Weekly Total: Deaths

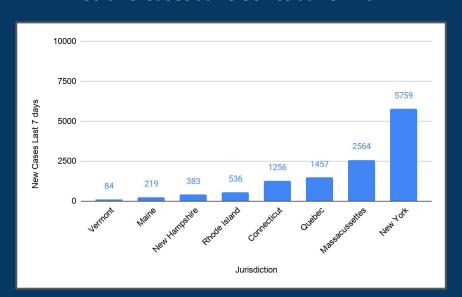


Source: Johns Hopkins University

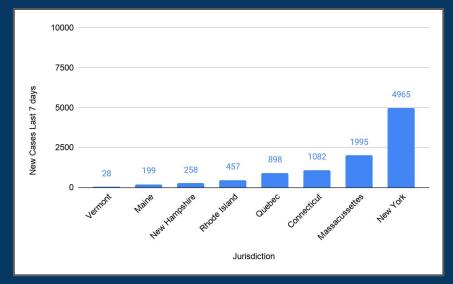
#### Regional Monitoring: New Cases Last 7 Days

#### 19% Reduction in New Confirmed Cases

Positive Cases June 5th to June 11th

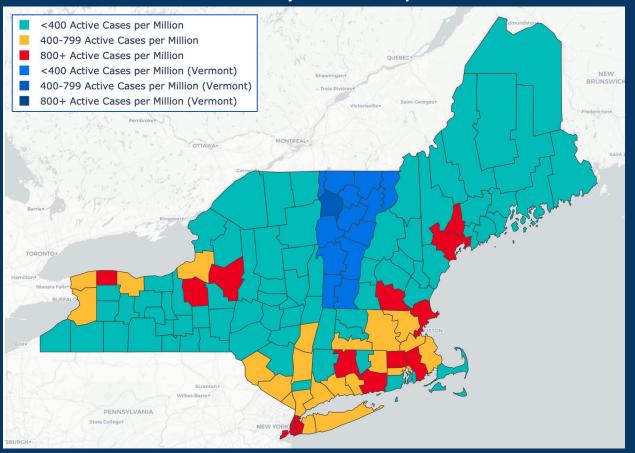


Positive Cases June 12th to June 18th

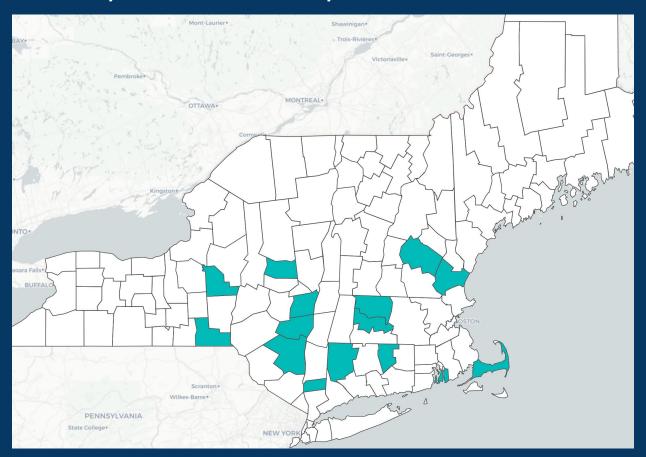


# **Travel Policy**

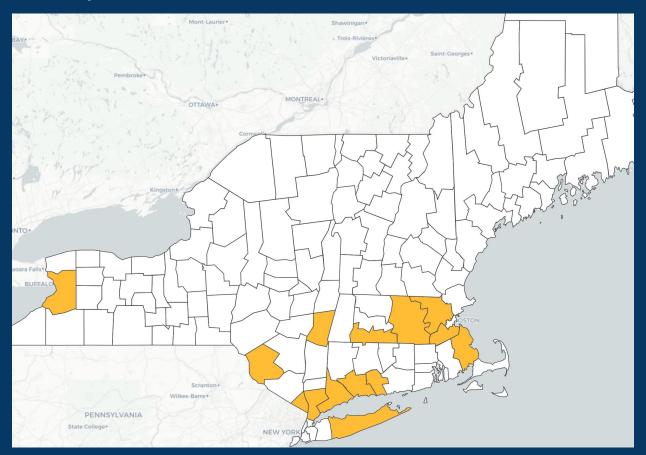
#### Travel Policy: Data Updates



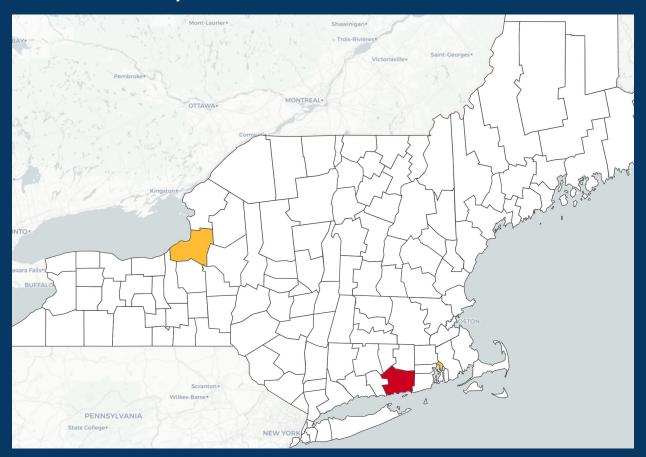
#### Travel Policy: Counties Newly Below 400-Case Threshold



#### Travel Policy: Counties Now Below 800 Active Cases/Million



## Travel Policy: Counties Worse Than Last Week



# Travel Policy: Step 1 Updates

