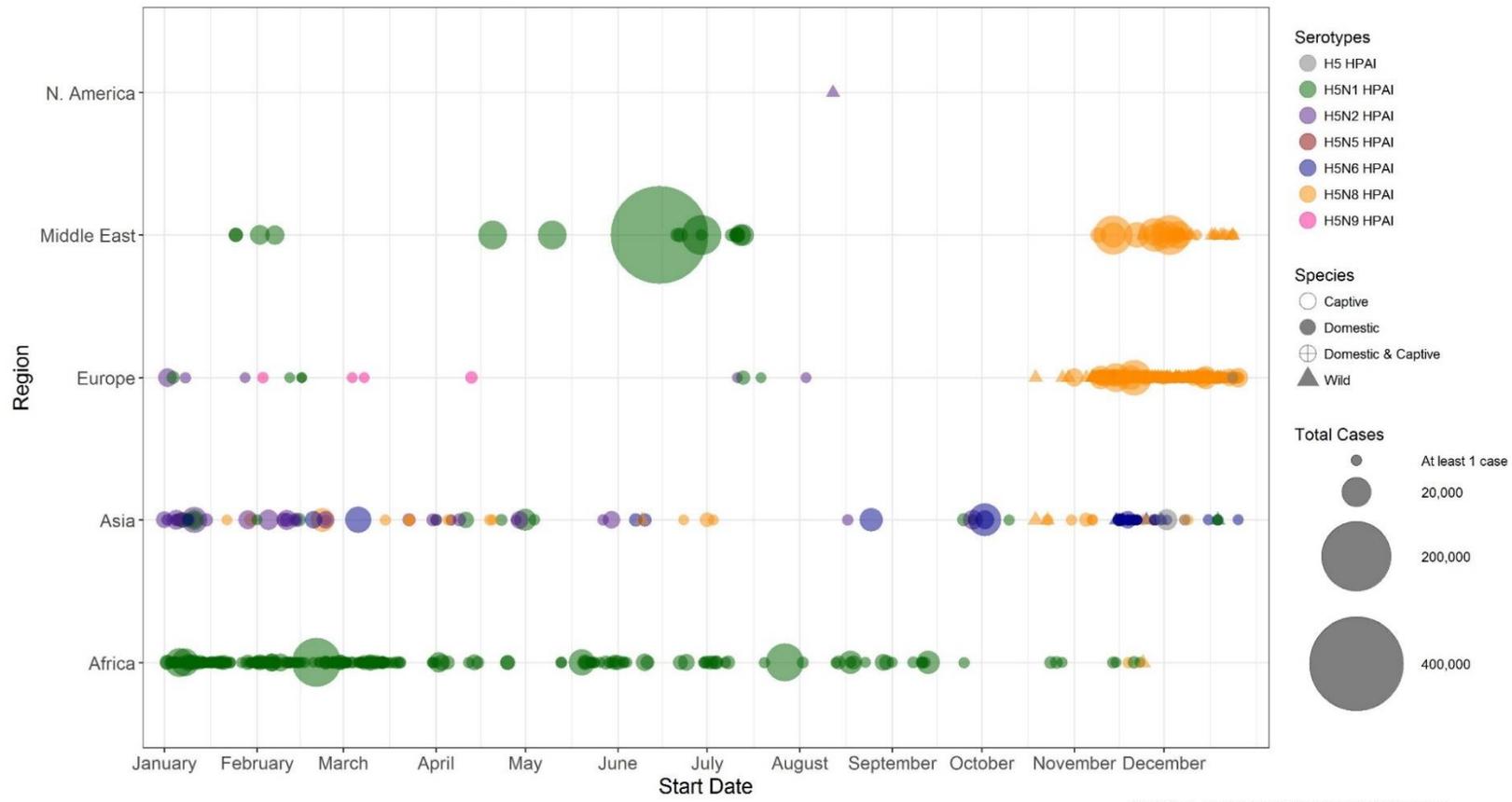




The World Organization for Animal Health (OIE) maintains reports on highly pathogenic avian influenza (HPAI) in animals in OIE-member countries.¹ This Ready Reference Guide presents visualizations of H5 HPAI data from these reports dated 01/01/2016 – 12/29/2016. The first figure gives an overview of H5 HPAI by global region and subsequent figures provide country-level details for each region. If a country or region did not report H5 HPAI in 2016, it is not illustrated in these figures.

H5 HPAI Reports by Global Region, 2016

Five regions (y-axis) reported H5 HPAI outbreaks with start dates in 2016 (x-axis); these event start dates are as listed on the OIE reports. Data reported to other sources (e.g., in the news or to FAO) are not included here. Six specific serotypes of H5 HPAI were reported, indicated by color in the following figures. An H5 HPAI means that full subtyping was not specified at the time of report. Infected animals were wild, domestic, and/or captive birds, expressed by point shape, and the number of cases (if reported, not always available) are indicated by the size of the point.

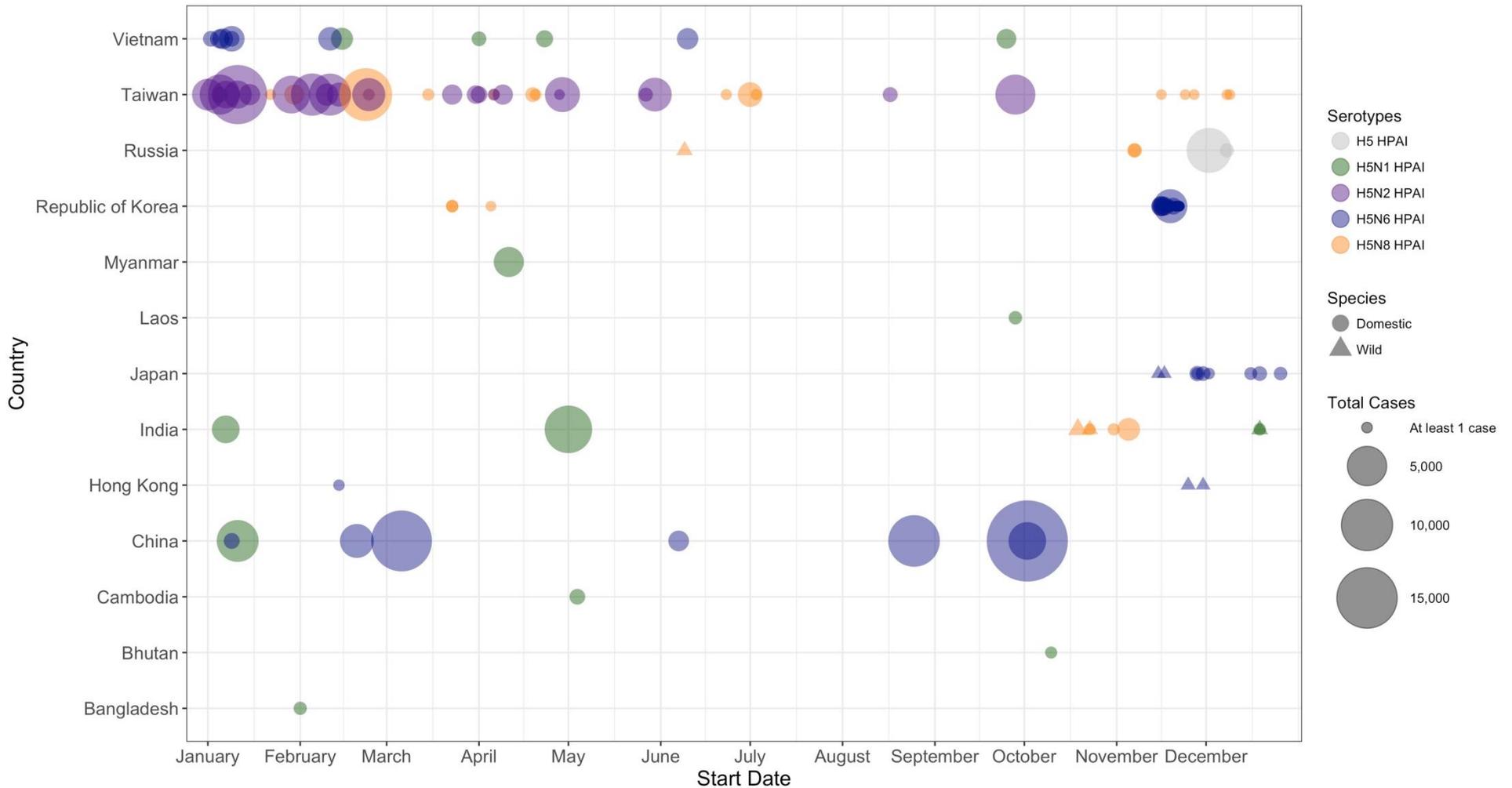


¹ <http://www.oie.int/en/animal-health-in-the-world/update-on-avian-influenza>



H5 HPAI Reports in Asia

Thirteen countries in Asia reported four H5 HPAI subtypes in 2016, as well as additional H5 untyped cases. Most cases were reported in domestic birds; no cases were reported in captive birds. Vietnam, Myanmar, Laos, India, China, Cambodia, Bhutan, and Bangladesh reported cases of H5N1, mostly in the beginning of this year and with a few reports in the fall. Taiwan experienced a significant outbreak of H5N2 early in the year, with cases continuing to be reported into the fall. Vietnam, Hong Kong, and China reported H5N6 early in the year, with reports of this subtype continuing in China throughout the year and reappearing during the fall in Hong Kong. H5N6 was also reported in the Republic of Korea and Japan in the fall. H5N8 appeared in Taiwan, Russia, and the Republic of Korea in the spring/summer and in Taiwan, Russia, and India in the fall. H5N8 appeared in Taiwan, Russia, and the Republic of Korea in the spring/summer and in Taiwan, Russia, and India in the fall.

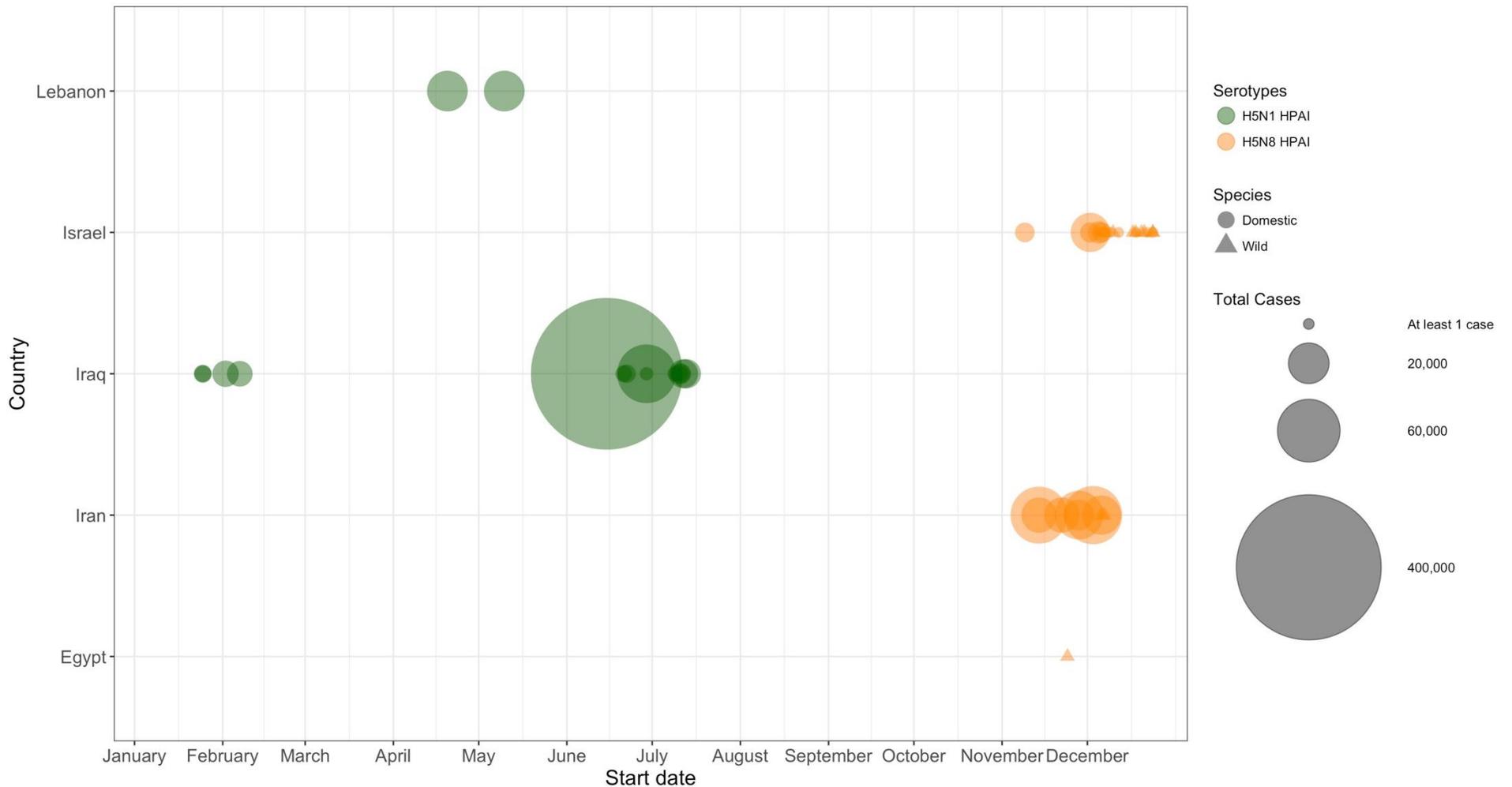


All points are equally transparent to show overlapping reports.



H5 HPAI Reports in the Middle East

Five countries in the Middle East reported two subtypes of H5 HPAI in 2016. Iraq reported cases of H5N1 early this year in domestic birds, and significant outbreaks occurred again in summer as they reported the largest H5 HPAI outbreak this year in June. H5N1 was also reported in the Lebanon in the late spring in domestic birds. Reports of H5N8 started in Israel, Iran, and Egypt in November. In Israel, H5N8 was detected in domestic and wild birds starting in November, and cases persisted through the end of the year. In Iran, the outbreak was reported primarily in domestic birds, though a case in a wild bird was also reported. Egypt reported a single case of H5N8 in a wild bird.

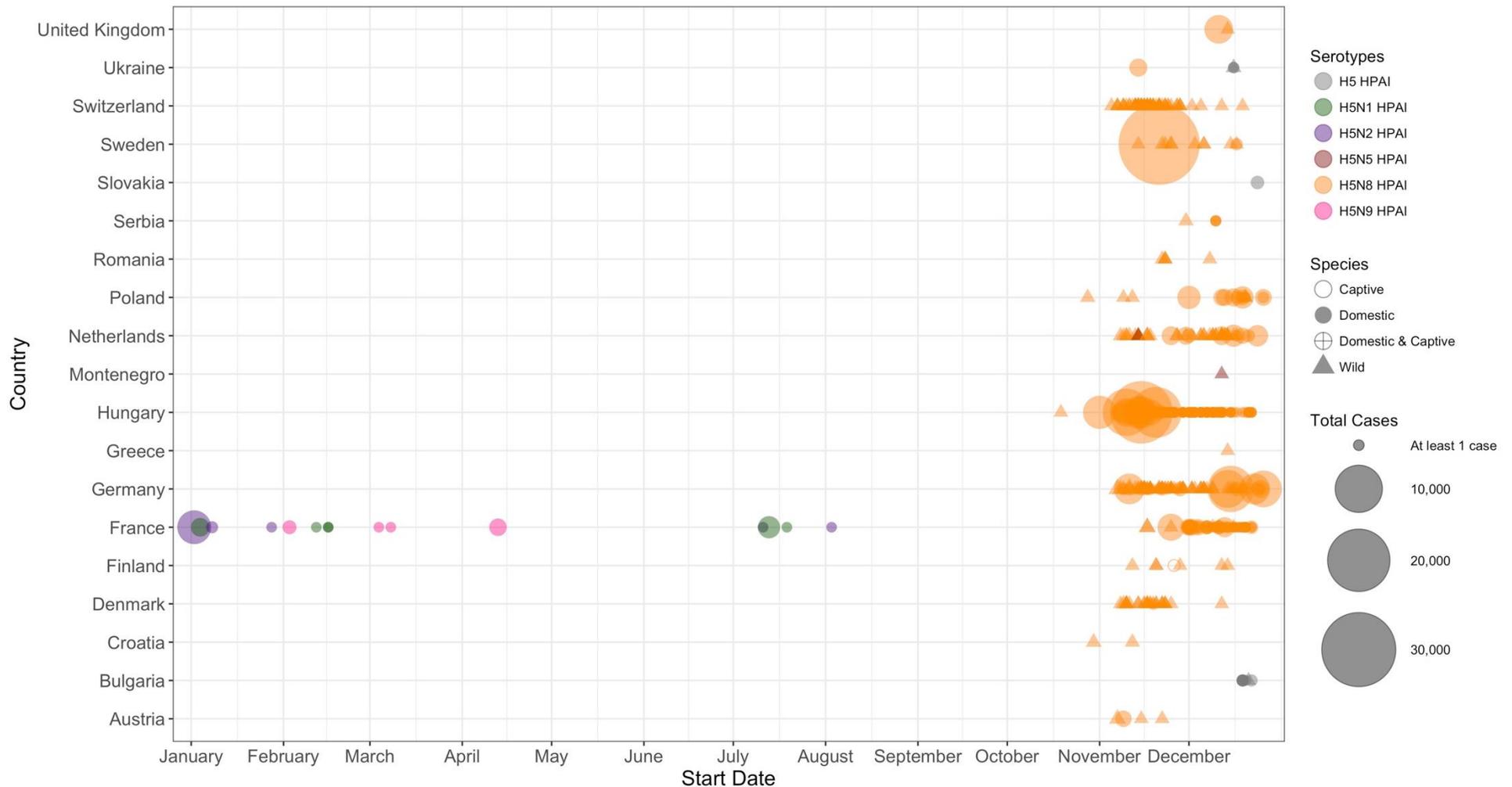


All points are equally transparent to show overlapping reports.



H5 HPAI Reports in Europe

Nineteen countries in Europe reported five subtypes of H5 HPAI in 2016, as well as untyped H5 HPAI. Reports of H5 HPAI were confined to France early in the year; H5N1, H5N2, and H5N9 were reported there in domestic birds. In October, reports of H5N8 in Poland, Hungary, and Croatia heralded the beginning of a region-wide outbreak of this subtype. By the end of the year, the U.K., Ukraine, Switzerland, Sweden, Serbia, Romania, the Netherlands, Greece, Germany, France, Finland, Denmark, and Austria also reported H5N8. Additionally, the Netherlands and Montenegro reported cases of H5N5 in wild birds in the fall.

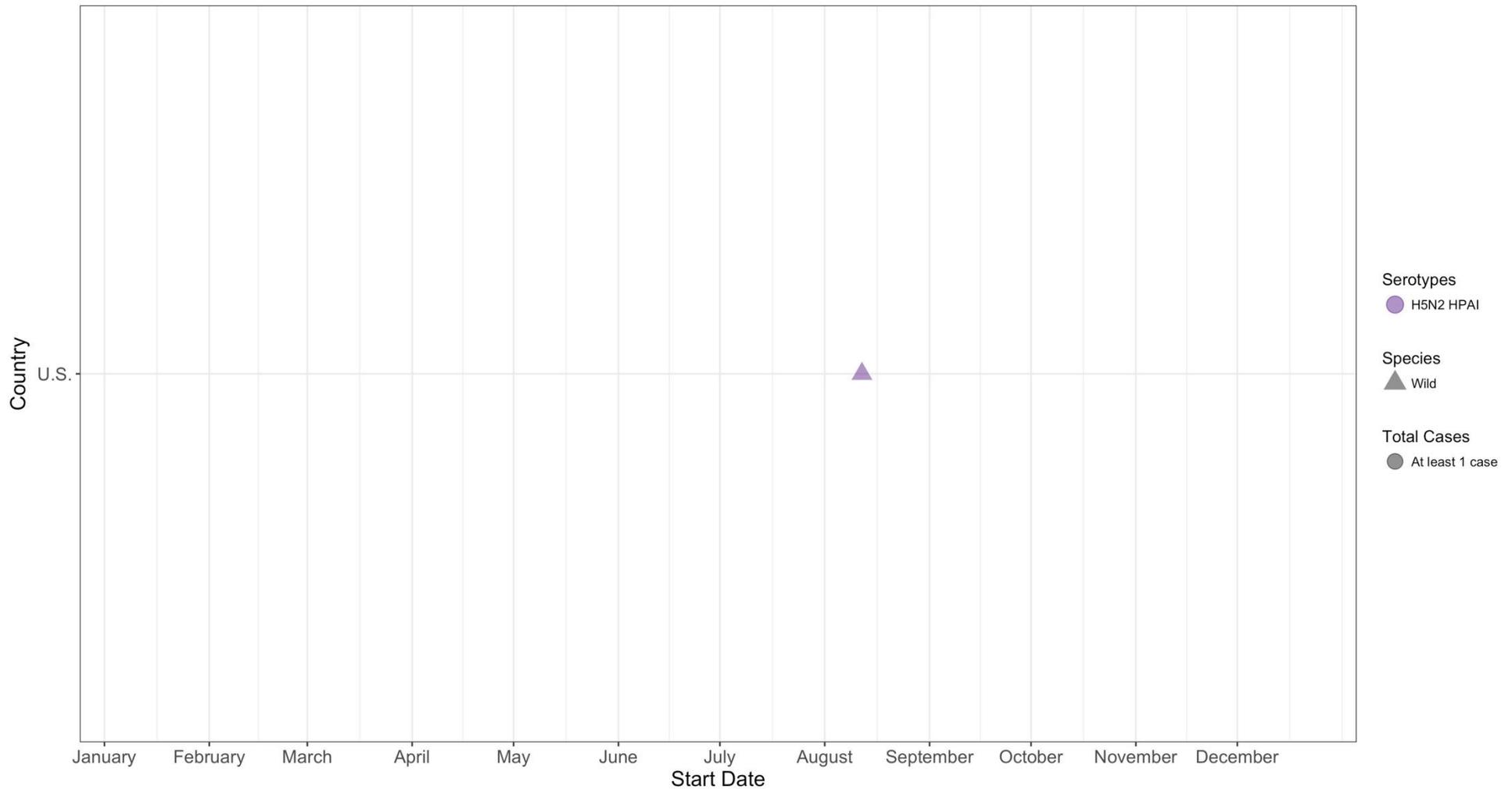


All points are equally transparent to show overlapping reports.



H5 HPAI Reports in North America

The single report of H5 HPAI in North America in 2016 was a case of H5N2 in a wild bird in Fairbanks, Alaska in August.



All points are equally transparent to show overlapping reports.