Phylodynamics of H5N1 PB2 | North America outbreak

EPI_SET_261109mr | doi.org/10.55876/gis8.261109mr

A/dairy_cow/Utah/09421-001-tile/2026 | 2026-06-24
A/dairy_cow/Utah/10262-001/2026 | 2026-07-15
A/dairy_cow/Utah/10434-002/2026 | 2026-07-15
A/dairy_cow/Idaho/09253-001-tile/2026 | 2026-06-16
A/mink/Utah/11429-006/2026 | 2026-08-07
A/dairy_cow/Idaho/08851-001-tile/2026 | 2026-06-08
A/dairy_cow/Idaho/07183-001/2026 | 2026-05-04
A/dairy_cow/USA/015686-005/2025 | 2025-05-12
A/Washington/UW-110701/2026 | 2026-10-29 **[A676T]**
A/Washington/203/2026 | 2026-10-29 **[A676T]** **(Newly added)**
A/Washington/198/2026 | 2026-10-12
A/California/152/2024 | 2024-10-10
A/cat/California/037806-001/2024 | 2024-12-14
A/cat/California/037809-001/2024 | 2024
A/chicken/USA/24-036832-002/2024 | 2024
A/environment/USA/010008-009/2025 | 2025
A/environment/USA/009619-001/2025 | 2025
A/House_fly/California/FCDA/2024 | 2024-10-12
A/California/227-1/2024 | 2025-01-10
A/dairy_cow/California/033852-002/2024 | 2024-11-05
A/California/150/2024 | 2024-10-09
A/dairy_cow/USA/037420-001/2024 | 2024
A/House_fly/California/MCDC/2024 | 2024-11-13
A/dairy_cow/USA/036203-001-R2/2024 | 2024
A/duck/USA/003062-011/2025 | 2025
A/dairy_cow/USA/24_033990-002/2024 | 2024
A/dairy_cow/USA/24_036368-004/2024 | 2024
A/dairy_cow/California/038321-003/2024 | 2024-12-17
A/dairy_cow/California/022472-002/2025 | 2025-08-05
A/dairy_cow/USA/037573-003/2024 | 2024
A/dairy_cow/California/024771-001/2025 | 2025-09-08
A/dairy_cow/California/022247-005/2025 | 2025-08-04
A/dairy_cow/Nebraska/024659-008/2025 | 2025-09-08
A/dairy_cow/California/25_007549-057/2024 | 2024-09-01
A/dairy_cow/USA/006508-003-R/2025 | 2025
A/California/151/2024 | 2024-10-09
A/California/147/2024 | 2024-10-07
A/California/193/2024 | 2024-11-18
A/cat/Idaho/24-013710-009/2024 | 2024-05-07
A/dairy_cow/Texas/24_009110-026/2024 | 2024-03-14
A/cat/New_Mexico/24-012046-001/2024 | 2024-04-17
A/cat/USA/24-020794-001/2024 | 2024-07-14
A/Colorado/138/2024 | 2024-07-19
A/Colorado/137/2024 | 2024-07-19
A/Colorado/139/2024 | 2024-07-22
A/Colorado/134/2024 | 2024-07-15
A/environment/USA/037325-013/2024 | 2024 **(Pet food)**
A/environment/USA/037325-011/2024 | 2024 **(Pet food)**
A/environment/Oregon/037325-011/2024 | 2024 **(Raw feline pet food)**
A/dairy_cow/USA/011973-001/2025 | 2025-04-03
A/dairy_cow/USA/037225-062/2024 | 2024-12-06
A/Michigan/90/2024 | 2024-05-14
A/red_fox/Michigan/24-013016-003/2024 | 2024-04-24
A/dairy_cow/Ohio/B2408700-PBS-6/2024 | 2024-03-29
A/Texas/37/2024 | 2024-03-28
A/great_horned_owl/USA/000975-004/2025 | 2025-01-07
0.008
A/tundra_swan/Minnesota/23-037501-001/2023 | 2023-11-08
0.01
A/owl/California/02790-001/2026 | 2026-02-11
A/chicken/Minnesota/25-000082-001/2024 | 2024-12-31
A/Red_Fox/BC/AIVPHL-1286/2023 | 2023-08-22
A/pheasant/Iowa/23-034845-002/2023 | 2023-11-09
A/turkey/North_Dakota/12386-002/2026 | 2026-09-01
A/turkey/North_Dakota/12386-001/2026 | 2026-09-01
A/turkey/South_Dakota/12570-002/2026 | 2026-09-07
A/Turkey/MB/FAV-0228-001/2026 | 2026-09-10
A/turkey/South_Dakota/12571-001/2026 | 2026-09-04
A/turkey/Minnesota/12654-003/2026 | 2026-09-08
A/turkey/Minnesota/12654-001/2026 | 2026-09-08
A/canada_goose/Minnesota/12585-005/2026 | 2026-09-03
A/chicken/Missouri/00063-005/2025 | 2025-12-30
A/canada_goose/New_York/02267-001/2026 | 2026-02-04
A/canada_goose/Iowa/00098-005/2025 | 2025-12-30
A/canada_goose/California/06505-001/2025 | 2025-12-15
A/american_white_pelican/California/06189-001/2025 | 2025-12-01
A/turkey_vulture/Wyoming/06377-001/2025 | 2025-12-18 **[E627K]**
A/chicken/Kansas/00138-002/2026 | 2026-01-03
A/snow_goose/Oklahoma/05185-001/2025 | 2025-11-20
A/duck/Indiana/08996-005/2026 | 2026-06-16
A/chicken/Indiana/08996-001/2026 | 2026-06-16
A/mallard_duck/Maine/00310-055/2025 | 2025-12-15
0.017
A/chicken/Idaho/25-000074-001/2024 | 2024-12-29
A/black_vulture/Georgia/06431-001/2025 | 2025-12-10
A/sanderling/USA/008817-002/2025 | 2025
A/pheasant/Kansas/24-037794-009/2024 | 2024-12-16
A/snow_goose/Missouri/00059-013/2025 | 2025-12-31
A/wild_goose/Texas/00044-001/2025 | 2025-12-30
A/red-tailed_hawk/Iowa/06281-001/2025 | 2025-12-16
A/herring_gull/USA/004499-003/2025 | 2025
A/goose/Oregon/24-031478-002/2024 | 2024-10-22
A/Nevada/10/2025 | 2025-02-04
A/dairy_cow/USA/007985-001-R2/2025 | 2025 **[D701N]**
A/dairy_cow/USA/002645-005/2025 | 2025-01-21 **[D701N]**
A/turkey_vulture/USA/013422-001-R2/2025 | 2025
A/green-winged_teal/USA/003927-012/2025 | 2025-01-25
A/Wyoming/01/2025 | 2025-02-11 **[E627K]**
A/green-winged_teal/USA/033431-002/2024 | 2024
A/British_Columbia/PHL-2032/2024 | 2024-11-09 **[E627X]**
A/Mexico/Dur_Indre_2292/2025 | 2025-03-18
A/black_vulture/USA/012888-001/2025 | 2025 **[E627K]**
A/vulture/USA/012105-001/2025 | 2025 **[E627K]**
A/skunk/USA/009868-001/2025 | 2025
A/chicken/West_Virginia/25-000049-004/2024 | 2024-12-31
A/Iowa/124/2024 | 2024-12-17
A/chicken/Oklahoma/24-034639-002/2024 | 2024-11-19
A/Cackling_Goose/BC/AIVPHL-2534/2024 | 2024-10-14
A/bufflehead/USA/003298-006/2025 | 2025-01-19
A/canada_goose/USA/003299-007/2025 | 2025-01-22
A/Louisiana/12/2024 | 2024-12-11
A/Washington/240/2024 | 2024-10-18
A/Washington/254/2024 | 2024-10-23
A/Ohio/06-1/2025 | 2025-02-12
A/sand_crane/USA/012328-001/2025 | 2025
A/goose/Pennsylvania/002965-001/2025 | 2025-01-25
0.011
A/red_fox/USA/010726-001/2024 | 2024
0.01
A/canada_goose/USA/012813-001/2025 | 2025-04-10
0.012
A/red-tailed_hawk/Massachusetts/015884-020/2023 | 2023-04-07
0.023
0.016
A/Australasian_Harrier/Wairarapa/W26_01469/2026 | 2026-07-14
A/Brown_Skua/Western_Australia/AS-26-1348-1/2026 | 2026-06-15
A/Wandering_Albatross/Marion_Island/WA_05/2024 | 2024-11-08
A/skua/Antarctica/O3592-CL/2025 | 2025-02-28
A/Striped_Skunk/BC/AIVPHL-1082/2023 | 2023-04-20
0.012
0.011
A/turkey/South_Dakota/23-034174-001/2023 | 2023-11-06
0.013
0.011
A/canada_goose/Illinois/000616-006/2024 | 2024-12-31
0.035
A/Duck/Argentina/22052-1/2026 | 2026-04-12
0.062
0.024
A/duck/USA/027844-002/2024 | 2024
A/Cackling_Goose/BC/AIVPHL-1427/2023 | 2023-11-20
0.132
0.008
A/Canada_goose/Maryland/23-034924-007/2023 | 2023-11-09
0.013
A/bottlenose_dolphin/Florida/038155-004/2023 | 2023-12-31 **[E627K]**
0.018
A/red-tailed_hawk/Massachusetts/015884-015/2023 | 2023-03-08
0.016
0.008
A/snow_goose/Arkansas/AR24-104/2024 | 2024-12-06
0.013
A/turkey/Minnesota/23-036928-001/2023 | 2023-11-20
0.014
A/canada_goose/Massachusetts/004865-016/2024 | 2024-02-05
0.121
RG-A/BALD_EAGLE/FLORIDA/W22-134-OP/2022XA/PR/8/34 | 2024-05-12
A/sea_otter/California/03843-010/2026 | 2026-02-27
A/northern_elephant_seal/California/03370-019/2026 | 2026-02-21
A/northern_elephant_seal/California/03370-007/2026 | 2026-02-21
A/northern_elephant_seal/California/03370-014/2026 | 2026-02-21
A/turkey_vulture/California/06772-002/2025 | 2025-12-18
A/large-billed_crow/Hokkaido/B252/2026 | 2026-01-08
A/large-billed_crow/Hokkaido/B251/2026 | 2026-01-07
A/northern_pintail/Alaska/03230-005/2025 | 2025-10-02
A/american_crow/Massachusetts/015884-011/2023 | 2023-02-27
A/sanderling/Massachusetts/015884-008/2023 | 2023-02-21
A/turkey/Minnesota/23-032152-002/2023 | 2023-10-19
A/chicken/Pennsylvania/012092-004-v/2022 | 2022-04-19
0.017
0.023
0.055
0.033
A/bald_eagle/USA/005188-001/2025 | 2025
A/Eurasian_teal/Netherlands/1/2026 | 2026-01-09
0.014
A/Tufted_duck/Norway/2026-07-60-3-2/2026 | 2026-01-29
A/England/0480160/2025 | 2025-01

Values displayed on red (truncated) branches correspond to the original branch lengths before truncation was applied.

0.000 0.025 0.050 0.075

GenoFLU

Virus name A1 Virus name B1.3 Virus name B3.7 Virus name C3.1 Virus name Minor Lineages
Virus name A2 Virus name B3.10 Virus name B3.9 Virus name D1.1 Virus name Notassigned
Virus name A3 Virus name B3.13 Virus name B4.1 Virus name D1.2 Virus name NA
Virus name A5 Virus name B3.2 Virus name C1.1 Virus name D1.3
Virus name A6 Virus name B3.6 Virus name C2.1 Virus name D1.8

Continent

Africa
Antarctica
Asia
Europe
North America
Oceania
South America

Host

Avian
Dairy cow
Human
Other
Other mammals

Branch length

Original
Capped at 90th percentile

updated 09 Nov 2026 UTC
by the GISAID Data Science Initiative