

N8

1971EquinelA/equine/Tokyo/2/1971JapanIH3N8  
1972EquinelA/equine/Algiers/1972AlgeriaIH3N8  
1963EquinelA/equine/Miami/1/1963USAIH3N8  
1969EquinelA/equine/Sao\_Paulo/1/1969BrazilIH3N8  
1963EquinelA/equine/Uruguay/1/1963UruguayIH3N8  
1975EquinelA/equine/New\_York/1/1975USAIH3N8  
1979EquinelA/equine/New\_Market/1979United\_KingdomIH3N8  
1983EquinelA/equine/New\_York/VR-297/1983USAIH3N8  
1978EquinelA/equine/Kentucky/1/1978USAIH3N8  
1980EquinelA/equine/Romania/1/1980RomaniaIH3N8  
1978EquinelA/equine/Kasakawa/1/1978UnknownIH3N8  
1979EquinelA/equine/New\_Market/nasalwash/1/1979USAIH3N8  
1979EquinelA/equine/New\_Market/1/1979USAIH3N8  
1980EquinelA/equine/Kentucky/2/1980USAIH3N8  
1976EquinelA/equine/Kentucky/bitter\_boredom/5/1976USAIH3N8  
1981EquinelA/equine/Kentucky/3/1981USAIH3N8  
1981EquinelA/equine/Kentucky/1/1981USAIH3N8  
1980EquinelA/equine/California/1/1980USAIH3N8  
1981EquinelA/equine/Georgia/13/1981USAIH3N8  
1981EquinelA/equine/Kentucky/Rosie/100/1981USAIH3N8  
1982EquinelA/equine/California/103/1982USAIH3N8  
1987EquinelA/equine\_influenza\_virusH3N8IndiaIH3N8  
1985EquinelA/equine/Cordoba/19/1985ArgentinaIH3N8  
1986EquinelA/equine/Kentucky/3/1986USAIH3N8  
1986EquinelA/equine/Johannesburg/1/1986South\_AfricaIH3N8  
1987EquinelA/equine/Kentucky/1/1987USAIH3N8  
1986EquinelA/equine/Tennessee/5/1986USAIH3N8  
1988EquinelA/equine/Kentucky/692/1988USAIH3N8  
1989EquinelA/equine/Sussex/1/1989United\_KingdomIH3N8  
1991EquinelA/equine/Italy/1062/1991ItalyIH3N8  
1991EquinelA/equine/Italy/824/1991ItalyIH3N8  
1992EquinelA/equine/Austria/421/1992AustriaIH3N8  
1992EquinelA/equine/Italy/1199/1992ItalyIH3N8  
1994EquinelA/equine/Qinghai/1/1994ChinaIH3N8  
1993EquinelA/equine/Switzerland/173/1993SwitzerlandIH3N8  
1990EquinelA/equine/Kentucky/1277/1990USAIH3N8  
1991EquinelA/equine/Kentucky/1/1991USAIH3N8  
1991EquinelA/equine/Texas/39655/1991USAIH3N8  
1992EquinelA/equine/Kentucky/1/1992USAIH3N8  
1994EquinelA/equine/Kentucky/8/1994USAIH3N8  
1993EquinelA/equine/Newmarket/1/1993United\_KingdomIH3N8  
1997EquinelA/equine/California/4537/1997USAIH3N8  
2003EquinelA/equine/Ohio/1/2003USAIH3N8  
2003EquinelA/equine/New\_York/452/2003USAIH3N8  
2005EquinelA/equine/Texas/117793/2005USAIH3N8  
2007EquinelA/equine/Baraki/1/07/1JapanIH3N8  
2007EquinelA/equine/Sydney/6085/2007AustraliaIH3N8  
2008EquinelA/equine/Egypt/606NARMRUG-US/VR1/2008EgyptIH3N8  
2009EquinelA/equine/Yokohama/aq/19/2009JapanIH3N8  
2011EquinelA/equine/Pennsylvania/2-5/2011USAIH3N8  
2011EquinelA/equine/Yokohama/aq/53/2011JapanIH3N8  
2002EquinelA/equine/Kentucky/5/2002USAIH3N8  
2002EquinelA/equine/California/8560/2002USAIH3N8  
2008EquinelA/equine/Mysore/12/2008IndiaIH3N8  
2008EquinelA/equine/Hubei/6/2008ChinaIH3N8  
2010EquinelA/equine/Heilongjiang/1/2010ChinaIH3N8  
2009EquinelA/equine/Lanarkshire/2009United\_KingdomIH3N8  
2010EquinelA/equine/Shropshire/2010United\_KingdomIH3N8  
2011EquinelA/equine/Devon/1/2011United\_KingdomIH3N8  
2010EquinelA/equine/Yokohama/aq/13/2010JapanIH3N8  
1965EquinelA/equine/Italy/1117/1965ItalyIH3N8  
1972EquinelA/equine/shearwater/Australia/1572/AustraliaH10N8  
1963AvianA/duck/Ukraine/1/1963UkraineIH5N8  
1983AvianA/duck/Ireland/1378/1983IrelandIH5N8  
1999AvianA/mallard/Netherlands/10/1999NetherlandsIH1N8  
2011AvianA/duck/Eastern\_China/D611/2011ChinaIH5N8  
2004AvianA/duck/Eastern\_China/90/2004ChinaIH3N8  
2000AvianA/black-headed\_gull/Netherlands/1/2000NetherlandsIH13N8  
2011AvianA/black-headed\_gull/Georgia/1/2011GeorgiaIH13N8  
2008AvianA/herring\_gull/Mongolia/454/2008MongoliaIH13N8  
2005AvianA/black-headed\_gull/Sweden/1/2005SwedenIH13N8  
2006AvianA/black-headed\_gull/Norway/10\_1459/2006NorwayIH13N8  
1972AvianA/duck/Chabarovsk/1610/1972\_RussiaIH3N8  
1985AvianA/duck/Hokkaido/1/01/1985JapanIH3N8  
1980AvianA/duck/Hokkaido/8/1980JapanIH3N8  
1985AvianA/duck/Hubei/126/1985ChinaH7N8  
1984AvianA/red-necked\_stint/Western\_Australia/4094/1984AustraliaH4N8  
1980AvianA/red-necked\_stint/Australia/4188/1980AustraliaH4N8  
1980AvianA/red-necked\_stint/Australia/4500/1980AustraliaH3N8  
2004AvianA/red-necked\_stint/Western\_Australia/4923/1983AustraliaH3N8  
1984AvianA/red-necked\_stint/Western\_Australia/4915/1984AustraliaH3N8  
1977AvianA/duck/Hong\_Kong/438/1977Hong\_KongIH4N8  
1988AvianA/duck/Burjatia/652/1988RussiaIH3N8  
2002AvianA/duck/Hunan/1469/2002ChinaH6N8  
2001AvianA/duck/Siberia/100/2001RussiaIH3N8  
2004AvianA/duck/Hunan/3748/2004ChinaH6N8  
2005AvianA/duck/Beijing/61/05/ChinaIH3N8  
2004AvianA/red-necked\_stint/Australia/3/2004AustraliaH4N8  
2006AvianA/slaty-backed\_gull/Japan/6KS0191/2006JapanIH4N8  
2002AvianA/duck/Eastern\_China/163/2002ChinaH6N8  
2007AvianA/Teal/Norway/10\_1575/2007NorwayIH3N8  
2011AvianA/common\_teal/Republic\_of\_Georgia/1/2011GeorgiaIH3N8  
2002AvianA/mallard/Sweden/50/2002SwedenIH3N8  
2003AvianA/mallard/65112/03/DenmarkIH3N8  
2006AvianA/mallard/PT/29497-11/2006PortugalIH3N8  
2003AvianA/duck/Norway/1/2003NorwayIH3N8  
2007AvianA/gadwall/Altai/1328/2007RussiaIH3N8  
2011AvianA/mule\_duck/Bulgaria/328/2011BulgariaH5N8  
2007AvianA/mallard/Czech\_Republic/14516/2007Czech\_RepublicIH3N8  
2010AvianA/mallard/Czech\_Republic/13577/24K/2010Czech\_RepublicIH3N8  
2006AvianA/duck/Spain/543/2006SpainIH6N8  
2005AvianA/common\_teal/Netherlands/2/2005NetherlandsIH6N8  
2006AvianA/mallard/Finland/12072/06/FinlandIH3N8  
2009AvianA/teal/Chany/444/2009RussiaIH3N8  
2011AvianA/mallard/Czech\_Republic/14333-18/2011Czech\_RepublicIH3N8  
2011AvianA/duck/Thailand/CU-11671/C2011ThailandIH3N8  
2011AvianA/common\_shelduck/Mongolia/2106/2011MongoliaH3N8  
1987AvianA/duck/LA/17G/1987USAIH3N8  
2012AvianA/blue-winged\_teal/Guatemala/CP049H112-60/2012IH3N8  
2013AvianA/northern\_shoveler/Guatemala/CP049H114-14/2013IH3N8  
2007AvianA/cinnamon\_teal/California/4428/2007USAIH3N8  
2007AvianA/northern\_pintail/California/HKVR92/2007USAIH3N8  
2007AvianA/American\_coot/Oregon/20589-407/2007USAIH3N8  
2010AvianA/American\_green-winged\_teal/Mississippi/285/2010USAIH3N8  
2009AvianA/mallard/Ohio/2039/2009USAmixedN8  
2010AvianA/mallard/Mississippi/354/2010USAIH3N8  
2010AvianA/mallard/Mississippi/390/2010USAIH3N8  
1980AvianA/pintail\_duck/Alberta/169/1980CanadaIH3N8  
1980AvianA/domestic\_duck/Minnesota/1088/1980USAIH4N8  
1978AvianA/mallard\_duck/ALB/31/1976/CanadaIH3N8  
1975AvianA/chicken/Alabama/1975USAIH4N8  
1963AvianA/turkey/Canada/1963CanadaH6N8  
1992AvianA/duck/Victoria/1992AustraliaH3N8  
1983AvianA/duck/Australia/341/1983AustraliaH15N8  
1977AvianA/wedge-tailed\_shearwater/Western\_Australia/405/1977AustraliaH3N8  
1978AvianA/black\_duck/Western\_Australia/702/1978AustraliaH3N8  
1978AvianA/turkey/Minnesota/501/1978USAIH6N8  
1974AvianA/duck/Minnesota/54/1974USAIH3N8  
1977AvianA/mallard/Wisconsin/85/1977USAIH3N8  
1974AvianA/duck/Memphis/928/1974USAIH3N8  
1977AvianA/mallard\_duck/ALB/210/1977/CanadaIH4N8  
1978AvianA/duck/Alberta/286/1978CanadaIH4N8  
1979AvianA/pintail\_duck/Alberta/121/1979CanadaH7N8  
1978AvianA/mallard\_duck/ALB/761/1978CanadaH6N8  
1978AvianA/turkey/Minnesota/141/1978USAIH4N8  
1986AvianA/blue-winged\_teal/Louisiana/351/1986USAIH4N8  
1998AvianA/ruddy\_turnstone/Delaware\_Bay/267/1998USAIH3N8  
1999AvianA/pintail/Alberta/37/1999CanadaIH3N8  
1991AvianA/mallard/Alberta/61/1991CanadaIH3N8  
1984AvianA/aguinea\_fowl/New\_York/4-3587/1984USAIH3N8  
1986AvianA/mallard/Ohio/264/1986USAIH3N8  
1982AvianA/mallard\_duck/New\_York/194/1982USAIH4N8  
1982AvianA/mallard\_duck/New\_York/174/1982USAIH3N8  
1986AvianA/northern\_shoveler/Ohio/35/1986USAIH3N8  
1988AvianA/knot/DE/526/1988USAIH6N8  
1989AvianA/laughing\_gull/NJ/276/1989USAIH6N8  
1998AvianA/ruddy\_turnstone/Delaware\_Bay/142/1998USAIH2N8  
1991AvianA/ruddy\_turnstone/Delaware\_Bay/231/1991USAIH6N8  
1990AvianA/ruddy\_turnstone/Delaware\_Bay/215/1990USAmixedN8  
1994AvianA/ruddy\_turnstone/Delaware\_Bay/86/1994USAIH3N8  
1986AvianA/mallard/Ohio/338/1986USAIH4N8  
1987AvianA/pintail/Ohio/339/1987USAIH3N8  
1987AvianA/mallard/Ohio/421/1987USAIH7N8  
1993AvianA/green-winged\_teal/Ohio/80/1993USAIH6N8  
1994AvianA/redhead/Alberta/231/1994CanadaH6N8  
1998AvianA/shorebird/Delaware\_Bay/1/1998USAIH3N8  
1998AvianA/chicken/NY/13237-6/98USAIH4N8  
1999AvianA/mallard/Minnesota/231/1999USAIH3N8  
1999AvianA/mallard/Minnesota/354/1999USAIH3N8  
2011AvianA/long-tailed\_duck/Maine/295/2011USAIH3N8  
2005AvianA/mallard/Ohio/180/2005USAIH3N8  
2006AvianA/blue-winged\_teal/Ohio/1859/2006USAIH3N8  
2011AvianA/blue-winged\_teal/Canada/3264/2011CanadaIH3N8  
2011AvianA/great\_black-backed\_gull/Iceland/1113/2011IcelandIH4N8  
2011AvianA/bufflehead/Maine/287/2011USAIH4N8  
2000AvianA/wild\_duck/Shantou/1737/2000ChinaH6N8  
1992AvianA/duck/Nanchang/168/1992ChinaIH3N8  
2011AvianA/duck/Vietnam/OIE-304/1/2011Viet\_NamIH3N8  
2009AvianA/duck/Jiangxi/3078/2009ChinaH6N8  
1999AvianA/swan/Shimane/42/1999JapanH7N8  
2001AvianA/parrot/PT/9132/2001PortugalIH3N8  
2010AvianA/duck/Nanjing/A1591-1/2010ChinaIH3N8  
2006AvianA/mallard/SanJiang/90/2006ChinaIH3N8  
2006AvianA/duck/Vietnam/G119/2006Viet\_NamIH3N8  
2007AvianA/duck/Guizhou/1560/2007ChinaH6N8  
2009AvianA/duck/Eastern\_China/m91/2009ChinaIH3N8  
2008AvianA/spot-billed\_duck/Korea/528/2008South\_KoreaH6N8  
1977AvianA/pintail\_duck/ALB/220/1977/CanadaIH4N8  
1979AvianA/pintail\_duck/ALB/628/1979CanadaH6N8  
2011AvianA/silver\_teal/Argentina/CP051-25/2011ArgentinaH4N8\*  
2007AvianA/rosy-billed\_pochard/Argentina/CP051-269/2007ArgentinaH6N8  
2007AvianA/rosy-billed\_pochard/Argentina/CP051-575/2007ArgentinaH6N8  
1985AvianA/mallard\_duck/ALB/525/1985CanadaIH3N8  
1987AvianA/mallard/Alberta/16/1987CanadaIH3N8  
1994AvianA/red\_knot/Delaware\_Bay/218/1994USAIH3N8  
1991AvianA/pintail/Alberta/81/1991CanadaIH3N8  
1993AvianA/mallard/Alberta/12/1993CanadaH6N8  
1995AvianA/lesser\_scaup/Alberta/206/1995CanadaIH3N8  
2001AvianA/mallard/Alberta/30/2001CanadaIH4N8  
2002AvianA/mallard/Ohio/651/2002USAIH3N8  
1999AvianA/mallard/Minnesota/190/1999USAIH3N8  
2003AvianA/mallard/Minnesota/448/2003USAIH3N8  
2005AvianA/longtail\_duck/Maryland/295/2005USAIH10N8  
2008AvianA/American\_black\_duck/New\_Brunswick/19389/2006CanadaIH4N8  
1999AvianA/mallard/Alberta/215/99/CanadaH6N8  
2006AvianA/mallard/Alberta/212/2006CanadaIH3N8  
2007AvianA/mallard/Alberta/27/2007CanadaIH3N8  
2007AvianA/least\_sandpiper/South\_Central\_Alaska/1/2007USAIH4N8  
2011AvianA/northern\_pintail/Oregon/4249-559/2006USAIH3N8  
2005AvianA/northern\_pintail/Alberta/11701/2005CanadaIH3N8  
2004AvianA/mallard/Alberta/241/2004CanadaIH3N8  
2011AvianA/American\_green-winged\_teal/Interior\_Alaska/11BM03897/2011USAIH4N8  
2011AvianA/bufflehead/California/3118/2011USAIH4N8  
2009AvianA/bufflehead/Illinois/4016/2009USAIH4N8  
2008AvianA/mallard/Alberta/507/2008CanadaIH3N8  
2011AvianA/bufflehead/Wisconsin/110S3570/2011USAIH4N8  
2010AvianA/egret/Peru-CH50/2010PeruIH6N8  
2010AvianA/willet/Peru-CH49/2010PeruIH6N8  
1986AvianA/mallard/Alberta/772/1986CanadaIH3N8  
1986AvianA/mallard/Alberta/378/1986CanadaIH3N8  
1987AvianA/mallard/Alberta/140/1987CanadaIH3N8  
1986AvianA/mallard/Alberta/782/1986CanadaIH3N8  
1993AvianA/mallard/Alberta/192/1993CanadaIH3N8  
1994AvianA/mallard/Alberta/193/1994CanadaIH3N8  
1996AvianA/aguinea\_fowl/NJ/14190-23/1996USAIH4N8  
1994AvianA/mallard/Alberta/31/1994CanadaIH3N8  
1995AvianA/pintail/Alberta/114/1995CanadaIH3N8  
1989AvianA/mallard/Alberta/20/1989CanadaIH3N8  
1985AvianA/blue-winged\_teal/ALB/569/1985CanadaIH3N8  
1992AvianA/mallard/Alberta/196/1992CanadaH6N8  
1991AvianA/mallard/Alberta/32/1991CanadaIH3N8  
1997AvianA/mallard/Alberta/114/1997CanadaIH3N8  
1997AvianA/blue-winged\_teal/Alberta/130/1997CanadaIH3N8  
1984AvianA/mallard/Alberta/85/1984CanadaIH3N8  
1996AvianA/mallard/Alberta/206/1996CanadaH6N8  
1998AvianA/mallard/Alberta/242/1998CanadaIH3N8  
1999AvianA/sanderling/Delaware\_Bay/70/1999USAIH3N8  
1992AvianA/American\_wigeon/Alberta/215/1992CanadaIH3N8  
1998AvianA/mallard/Alberta/167/1998CanadaIH3N8  
2005AvianA/pintail/Alaska/779/2005USAIH6N8  
2007AvianA/mallard/Alberta/122/2007CanadaIH3N8  
2006AvianA/pacific\_golden\_plover/Alaska/4201-109/2006USAIH3N8  
2005AvianA/ruddy\_turnstone/New\_Jersey/918/2005USAIH3N8  
2006AvianA/mallard/Interior\_Alaska/6MP0124/2006USAIH3N8  
2008AvianA/northern\_pintail/Alaska/44421-385/2008USAIH3N8  
2007AvianA/double-crested\_cormorant/California/20119-001/2007USAIH3N8  
1997AvianA/pintail/Alberta/156/97/CanadaIH3N8  
1990AvianA/mallard/Edmonton/220/1990CanadaIH3N8  
1998AvianA/mallard/Ohio/217/1998USAIH6N8  
1999AvianA/shorebird/Delaware\_Bay/122/1999USAIH3N8  
1999AvianA/mallard/Minnesota/283/1999USAIH3N8  
2000AvianA/mallard/Alberta/127/00CanadaIH3N8  
1998AvianA/mallard/Alberta/279/98CanadaIH3N8  
1999AvianA/mallard/MN/327/1999USAIH4N8  
2002AvianA/black\_duck/Maryland/834/2002USAIH4N8  
2006AvianA/mallard/Alberta/214/2006CanadaIH3N8  
2005AvianA/ring-necked\_duck/California/K9D/2005USAIH6N8  
2007AvianA/bufflehead/Alberta/400/2007CanadaIH3N8  
2011AvianA/blue-winged\_teal/Guatemala/CP049H101-24/2011GuatemalaIH3N8  
2009AvianA/mallard/Illinois/4124/2009USAIH4N8  
2008AvianA/mallard/California/6471/2008USAIH3N8  
2011AvianA/blue-winged\_teal/Guatemala/CP049H101-36/2011GuatemalaIH3N8  
2011AvianA/blue-winged\_teal/Missouri/110S2640/2011USAIH4N8  
2011AvianA/mallard/Ohio/110S2047/2011USAIH4N8  
2011AvianA/blue-winged\_teal/Texas/A111-3233/2011USAmixedN8

1850

1900

1950

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