

Supplementary Materials

Figure S1. Maximum likelihood tree of human and swine pandemic H1 segments.

Phylogenetic relationships of 2,347 H1-pdm sequences collected globally from humans and swine, inferred using maximum likelihood (ML) methods. Branch lengths represent genetic distance and are drawn to scale. Bootstrap values for key nodes > 75 are provided. Swine viruses are shaded red. Human viruses are broadly labeled by the season they were collected. The 133 introductions of pandemic influenza viruses from humans to swine are indicated in parentheses.

Figure S2. Phylogenetic relationships between pandemic H1 segments. Similar MCC tree as that presented in Fig. 1, with tip labels displayed. Posterior probabilities > 0.80 are provided for key nodes. The orange box indicates viruses collected in 2013-14. Viruses collected from US swine in 2014 that had all eight genome segments of pandemic origin (listed in Table 1) are indicated with solid black circles. Colored arrows indicate swIAVs that are discussed in the main text: *A/swine/lowa/A01049077/2010/H1N1* and *A/swine/lowa/A01049195/2010/H1N1* are indicated with a black arrow, *A/swine/Minnesota/A01076188/2010/H1N1* is indicated with a purple arrow, and *A/swine/Illinois/A01395201/2013/H1N1* is indicated with an orange arrow.

Figure S3. Phylogenetic relationships between pandemic N1 segments. Time-scaled Bayesian MCC tree inferred for the NA (N1) sequences of 866 viruses collected from swine and humans in the United States during 2009-2014, including 178 viruses from swine and 688 viruses from humans. Branches are shaded by host and time period (US influenza epidemic) of collection (September – August): human = pink; swine viruses collected during 2009-2010 = red; swine viruses collected 2010-2011 = light green; swine viruses collected 2011-2012 = dark green; swine viruses collected 2012-2013 = royal blue; swine viruses collected 2013-2014 = dark blue. Posterior probabilities > 0.80 are provided for key nodes.

Figure S4. Heat-map of viral transmission between humans and swine for HA segment.

Similar to the heat-map presented in Fig. 2, except representing 'Markov jump' counts inferred from the HA phylogeny.

Figure S5. Phylogenetic relationships between pandemic NP segments. Time-scaled Bayesian MCC tree inferred for the NP sequences of 427 viruses collected from swine and humans in the United States during 2009-2014, including 206 viruses from swine and 221 viruses from humans. Branches are shaded by the host and the number of segment of pandemic H1N1 virus origin: all human viruses are purple; swine viruses (swIAVs) with 1 pH1N1 segment = pink; swIAVs with 2 pH1N1 segments = red; swIAVs with 3 pH1N1 segments = yellow; swIAVs with 4 pH1N1 segments = olive; swIAVs with 5 pH1N1 segments = light green; swIAVs with 6 pH1N1 segments = dark green; swIAVs with 7 pH1N1 segments = blue; swIAVs with 8 pH1N1 segments = dark blue. Posterior probabilities > 0.90 are provided for key nodes. Major clusters of swIAVs on the NP phylogeny are labeled: NP-I, NP-II, NP-III, NP-IV. A/sw/Minnesota/165A/2009/H1N1 and A/sw/Minnesota/074A/2009/H1N1 are indicated with a black arrow.

Figure S6. Phylogenetic relationships between pandemic PB2 segments. Maximum likelihood tree inferred for the PB2 segment from pandemic H1N1 influenza viruses collected globally from humans (n = 1295 viruses) and swine (n = 496 viruses), collected globally during 2009-2014. Bootstrap values > 70 provided for key nodes.



Figure S1

0.0050

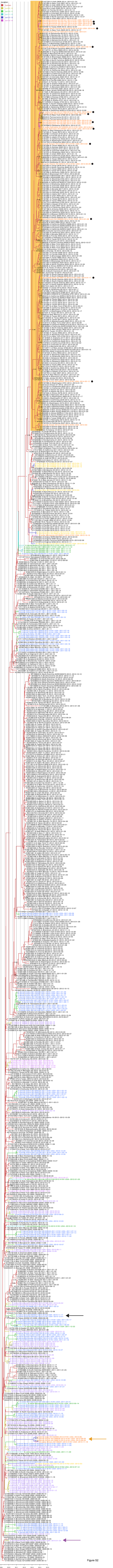


Figure S2

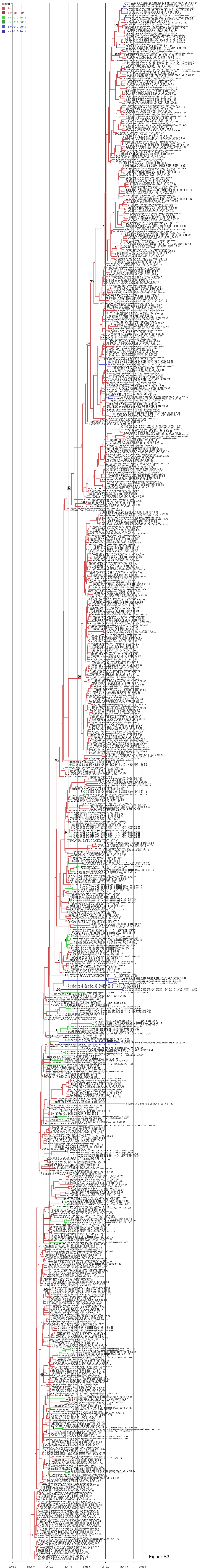


Figure S3

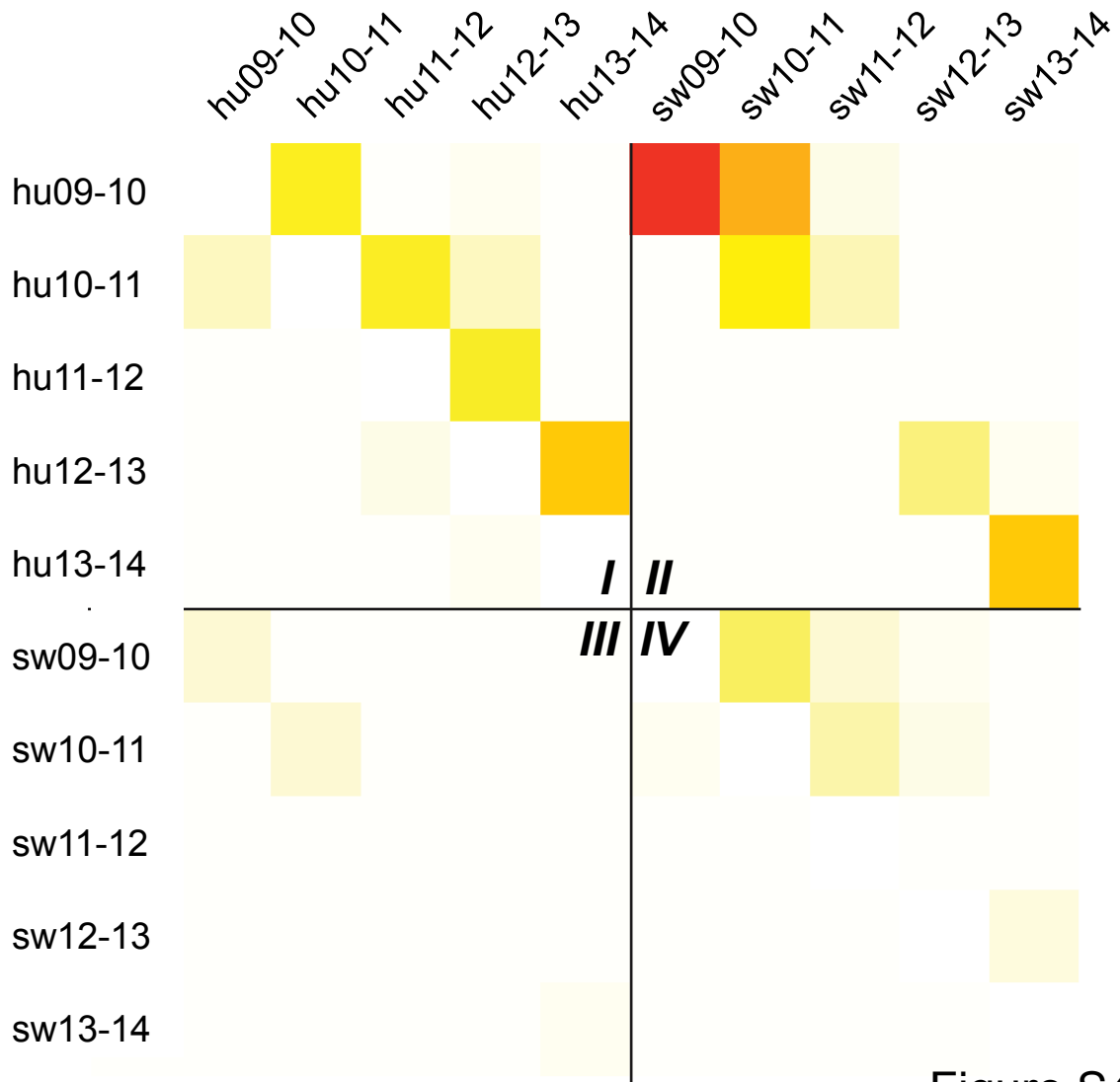
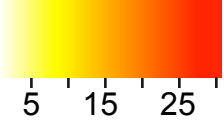


Figure S4

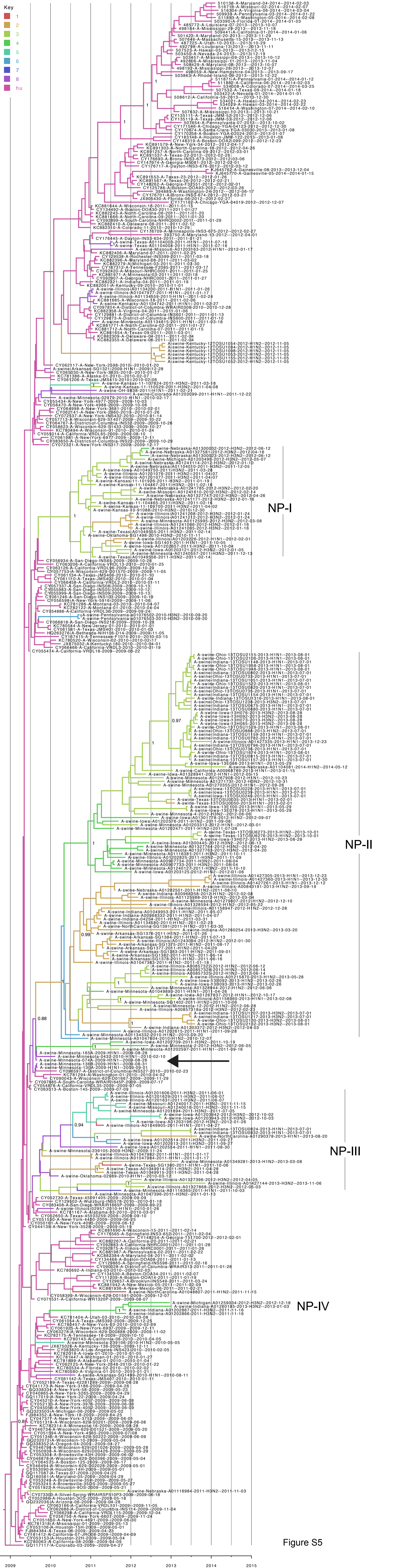




Figure S6

Table S1. 100 HA sequences from human H1N1 pandemic viruses from 2014 obtained from the GISAID Epiflu database.

Virus name	Date	Originating lab	Submitting Lab	ID
A/Arizona/03/2014	2/16/14	Arizona Department of Health Services	Centers for Disease Control and Prevention	EPI531902
A/Bahamas/798/2014	2/25/14	Caribbean Epidemiology Center	Centers for Disease Control and Prevention	EPI533517
A/Bahrain/232/2014	4/27/14	Ministry of Health Bahrain	Centers for Disease Control and Prevention	EPI536859
A/Belgium/14S0350/2014	3/13/14	Scientific Institute of Public Health	National Institute for Medical Research	EPI532741
A/Berlin/7/2014	1/22/14	Robert-Koch-Institute	National Institute for Medical Research	EPI515413
A/Bulgaria/475/2014	1/30/14	National Centre of Infectious and	National Institute for Medical Research	EPI531197
A/Bulgaria/775/2014	2/11/14	National Centre of Infectious and	National Institute for Medical Research	EPI531207
A/CHIBA-C/42/2014	3/10/14	Chiba City Institute of Health and Environment	National Institute of Infectious Diseases (NIID)	EPI532958
A/CHIBA/19/2014	2/13/14	Chiba Prefectural Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI522319
A/Colorado/07/2014	3/25/14	Colorado Department of Health Lab	Centers for Disease Control and Prevention	EPI534013
A/Cyprus/F18/2014	1/27/14	Nicosia General Hospital	National Institute for Medical Research	EPI516949
A/Cyprus/F24/2014	1/27/14	Nicosia General Hospital	National Institute for Medical Research	EPI516953
A/Delaware/08/2014	3/31/14	Delaware Public Health Lab	Centers for Disease Control and Prevention	EPI531843
A/Distrito Federal/16117/2014	2/25/14	Instituto Adolfo Lutz	Instituto Adolfo Lutz	EPI516479
A/Distrito Federal/2648/2014	1/3/14	Instituto Adolfo Lutz	Instituto Adolfo Lutz	EPI508729
A/EHIME/31/2014	3/5/14	Ehime Prefecture Institute of Public Health and Environmental Science	National Institute of Infectious Diseases (NIID)	EPI530552
A/Finland/420/2014	2/26/14	National Institute for Health and Welfare	National Institute for Medical Research	EPI532747
A/Florida/07/2014	1/9/14	Florida Department of Health-Tampa	Centers for Disease Control and Prevention	EPI504775
A/Florida/09/2014	1/15/14	Florida Department of Health-Tampa	Centers for Disease Control and Prevention	EPI508461

A/Florida/14/2014	3/4/14	Florida Department of Health- Jacksonville	Centers for Disease Control and Prevention	EPI516341
A/FUKUI/56/2014	3/25/14	Fukui Prefectural Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI532964
A/FUKUOKA-C/2/2014	1/24/14	Fukuoka City Institute for Hygiene and the Environment	National Institute of Infectious Diseases (NIID)	EPI528082
A/FUKUSHIMA/14/2014	1/23/14	Fukushima Prefectural Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI530570
A/Gavle/3/2014	2/6/14		Swedish Institute for Infectious Disease Control	EPI508263
A/Georgia/622/2014	3/18/14	National Centre for Disease Control and Public Health	National Institute for Medical Research	EPI531229
A/GIFU/7/2014	1/9/14	Gifu Prefectural Institute of Health and Environmental Sciences	National Institute of Infectious Diseases (NIID)	EPI520322
A/Goiias/51172/2014	5/5/14	Instituto Adolfo Lutz	Instituto Adolfo Lutz	EPI532849
A/Hawaii/04/2014	2/23/14	State of Hawaii Department of Health	Centers for Disease Control and Prevention	EPI534028
A/Hawaii/06/2014	3/1/14	State of Hawaii Department of Health	Centers for Disease Control and Prevention	EPI534003
A/Iceland/3/2014	1/15/14	Landspítali - University Hospital	National Institute for Medical Research	EPI503214
A/Idaho/02/2014	1/7/14	State of Idaho Bureau of Laboratories	Centers for Disease Control and Prevention	EPI509470
A/Illinois/01/2014	1/4/14	Illinois Department of Public Health-Chicago	Centers for Disease Control and Prevention	EPI510154
A/Kaliningrad/3/2014	3/25/14	WHO National Influenza Centre Russian Federation	National Institute for Medical Research	EPI536277
A/Krasnoyarsk/2/2014	4/14/14	WHO National Influenza Centre Russian Federation	National Institute for Medical Research	EPI536281
A/Lorraine/1248/2014	3/31/14	Institut Pasteur	National Institute for Medical Research	EPI541063
A/Louisiana/01/2014	1/2/14	New York State Department of Health	Centers for Disease Control and Prevention	EPI511899
A/Maine/02/2014	2/12/14	Maine Health and Environmental Testing Laboratory	Centers for Disease Control and Prevention	EPI531893
A/Maryland/02/2014	1/3/14	Maryland Department of Health and Mental Hygiene	Centers for Disease Control and Prevention	EPI508743
A/Maryland/04/2014	2/3/14	Maryland Department of Health	Centers for Disease Control and Prevention	EPI510143

		and Mental Hygiene		
A/Maryland/06/2014	1/18/14	Maryland Department of Health and Mental Hygiene	Centers for Disease Control and Prevention	EPI515485
A/Maryland/08/2014	2/21/14	Maryland Department of Health and Mental Hygiene	Centers for Disease Control and Prevention	EPI531875
A/Maryland/09/2014	3/8/14	Maryland Department of Health and Mental Hygiene	Centers for Disease Control and Prevention	EPI531922
A/Maryland/12/2014	4/22/14	Maryland Department of Health and Mental Hygiene	Centers for Disease Control and Prevention	EPI536850
A/Mato Grosso/19061/2014	3/20/14	Instituto Adolfo Lutz	Instituto Adolfo Lutz	EPI516481
A/Michigan/02/2014	1/8/14	University of Michigan SPH EPID	Centers for Disease Control and Prevention	EPI503830
A/Minnesota/03/2014	3/16/14	Minnesota Department of Health	Centers for Disease Control and Prevention	EPI517091
A/Missouri/03/2014	2/12/14	Missouri Department. of Health & Senior Services	Centers for Disease Control and Prevention	EPI516438
A/Missouri/05/2014	3/19/14	Missouri Department. of Health & Senior Services	Centers for Disease Control and Prevention	EPI531867
A/New Hampshire/04/2014	1/31/14	New Hampshire Public Health Laboratories	Centers for Disease Control and Prevention	EPI515401
A/New Mexico/01/2014	1/6/14	New Mexico Department of Health	Centers for Disease Control and Prevention	EPI509484
A/New Mexico/03/2014	1/24/14	New Mexico Department of Health	Centers for Disease Control and Prevention	EPI513276
A/OKAYAMA/27/2014	1/23/14	Okayama Prefectural Institute for Environmental Science and Public Health	National Institute of Infectious Diseases (NIID)	EPI534666
A/Oklahoma/01/2014	1/6/14	Oklahoma State Department of Health	Centers for Disease Control and Prevention	EPI508764
A/Oklahoma/06/2014	3/17/14	Oklahoma State Department of Health	Centers for Disease Control and Prevention	EPI531905
A/Oman/586/2014	2/23/14	Central Public Health Laboratory, Ministry of Health	Centers for Disease Control and Prevention	EPI516355
A/OSAKA-C/43/2014	2/2/14	Osaka City Institute of Public Health and Environmental Sciences	National Institute of Infectious Diseases (NIID)	EPI508483
A/Paris/043/2014	1/3/14	Institut Pasteur	Institut Pasteur	EPI510885
A/Paris/631/2014	2/11/14	Institut Pasteur	Institut Pasteur	EPI533931
A/Pennsylvania/02/2014	1/22/14	Pennsylvania Department of	Centers for Disease Control and Prevention	EPI509954

Health				
A/Pennsylvania/03/2014	1/22/14	Pennsylvania Department of Health	Centers for Disease Control and Prevention	EPI509946
A/Perugia/28/2014	2/14/14	Istituto Superiore di Sanità	National Institute for Medical Research	EPI531237
A/Perugia/38/2014	2/26/14	Istituto Superiore di Sanità	National Institute for Medical Research	EPI531239
A/Picardie/1221/2014	3/17/14	Institut Pasteur	Institut Pasteur	EPI537806
A/Poland/1612/2014	4/3/14	National Institute of Public Health - National Institute of Hygiene	National Institute for Medical Research	EPI531247
A/Rethymno.GR/813/2014	2/17/14	Hellenic Pasteur Institute	Hellenic Pasteur Institute	EPI508709
A/Roma/9/2014	2/3/14	Istituto Superiore di Sanità	National Institute for Medical Research	EPI531257
A/Saint-Petersburg/RII392S/2014	1/28/14	WHO National Influenza Centre Russian Federation	WHO National Influenza Centre Russian Federation	EPI514572
A/SAITAMA/48/2014	2/4/14	Saitama Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI508479
A/SAITAMA/49/2014	1/27/14	Saitama Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI508480
A/SAPPORO/16/2014	1/20/14	Sapporo City Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI507745
A/SAPPORO/18/2014	1/14/14	Sapporo City Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI507747
A/SAPPORO/21/2014	1/17/14	Sapporo City Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI507749
A/SAPPORO/25/2014	1/17/14	Sapporo City Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI507753
A/SAPPORO/55/2014	1/29/14	Sapporo City Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI515064
A/SAPPORO/57/2014	2/3/14	Sapporo City Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI515068
A/SAPPORO/60/2014	2/1/14	Sapporo City Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI515072
A/SAPPORO/65/2014	2/4/14	Sapporo City Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI507781
A/SAPPORO/66/2014	1/29/14	Sapporo City Institute of Public Health	National Institute of Infectious Diseases (NIID)	EPI515078
A/SAPPORO/78/2014	2/8/14	Sapporo City Institute of Public Health	National Institute of Infectious Diseases	EPI515096

A/SAPPORO/81/2014	2/4/14	Health Sapporo City Institute of Public Health	(NIID) National Institute of Infectious Diseases (NIID)	EPI515102
A/Slovenia/220/2014	1/22/14	Laboratory for Virology, National Institute of Public Health	National Institute for Medical Research	EPI532789
A/SOUTH AUSTRALIA/4/2014	1/28/14	Institute of Medical and Veterinary Science (IMVS)	WHO Collaborating Centre for Reference and Research on Influenza	EPI529474
A/Stockholm/1/2014	1/10/14		Swedish Institute for Infectious Disease Control	EPI504703
A/Stockholm/10/2014	2/18/14	Swedish Institute for Infectious Disease Control	National Institute for Medical Research	EPI532793
A/Stockholm/16/2014	4/2/14		Swedish Institute for Infectious Disease Control	EPI531441
A/Stockholm/3/2014	1/6/14	Swedish Institute for Infectious Disease Control	National Institute for Medical Research	EPI532795
A/Sukhothai/214/2014	3/21/14	WHO National Influenza Centre, National Institute of Medical Research (NIMR)	Centers for Disease Control and Prevention	EPI531878
A/Sundsvall/1/2014	2/25/14		Swedish Institute for Infectious Disease Control	EPI516055
A/Switzerland/10015059/2014	2/3/14	Hopital Cantonal Universitaire de Geneves	National Institute for Medical Research	EPI531259
A/Switzerland/9884275/2014	1/14/14	Hopital Cantonal Universitaire de Geneves	National Institute for Medical Research	EPI507849
A/Taiwan/362/2014	3/18/14	Center for Disease Control	National Institute of Infectious Diseases (NIID)	EPI534686
A/Texas/09/2014	1/18/14	Texas Department of State Health Services-Laboratory Services	Centers for Disease Control and Prevention	EPI521914
A/Texas/10/2014	1/10/14	Texas Department of State Health Services-Laboratory Services	Centers for Disease Control and Prevention	EPI508762
A/TOTTORI/1/2014	4/1/14	Tottori Prefectural Institute of Public Health and Environmental Science	National Institute of Infectious Diseases (NIID)	EPI531970
A/TOWNSVILLE/11/2014	2/4/14	Queensland Health Scientific Services	WHO Collaborating Centre for Reference and Research on Influenza	EPI529519
A/Ukraine/28/2014	1/24/14	Institute of Epidemiology and	National Institute for Medical Research	EPI531261

		Infectious Diseases AMS of Ukraine		
A/Viotia.GR/311/2014	1/31/14	Hellenic Pasteur Institute	Hellenic Pasteur Institute	EPI505129
A/Washington/07/2014	2/10/14	Spokane Regional Health District	Centers for Disease Control and Prevention	EPI516420
A/West Virginia/04/2014	2/5/14	West Virginia Office of Laboratory Services	Centers for Disease Control and Prevention	EPI515378
A/Wisconsin/07/2014	3/18/14	Wisconsin State Laboratory of Hygiene	Centers for Disease Control and Prevention	EPI520440

Table S2. Pandemic H1N1 influenza A virus sequences (HA segment) used in this analysis (Fig. 1). Virus name, date of viral collection, and GenBank accession number for HA sequences from 173 influenza viruses collected in swine in the United States during 2009-2014 and 760 influenza viruses collected in humans in the United States during 2009-2014. Accession numbers beginning with '5' refer to the 30 HA sequences from human influenza viruses from 2014 that were downloaded from the GISAID database (www.gisaid.org) to supplement the number of viruses from this underrepresented years (listed in Table S1).

Virus Name	Date	Accession
A/swine/Arkansas/SG1321/2009(H1N1)	12/28/09	AHB51413
A/swine/Arkansas/SG1347/2010(H1N1)	1/6/10	AHB52267
A/swine/Arkansas/SG1499/2010(H1N1)	8/11/10	AHB23106
A/swine/Colorado/A01203099/2011(H1N1)	12/22/11	AFM47004
A/swine/IL/10-001550/2009(H1N1)	12/29/09	ADD64924
A/swine/IL/10-001551-1/2009(H1N1)	12/20/09	ADD64928
A/swine/IL/10-001551-2/2009(H1N1)	12/20/09	ADD64932
A/swine/IL/12660/2010(H1N1)	2/23/10	ADG85221
A/swine/IL/17315-1/2010(H1N1)	3/18/10	ADG85241
A/swine/IL/17315-3/2010(H1N1)	3/18/10	ADG85245
A/swine/IL/25399-2/2010(H1N1)	5/18/10	ADN95952
A/swine/IL/25399-3/2010(H1N1)	5/18/10	ADN95956
A/swine/IL/25399-4/2010(H1N1)	5/18/10	ADN95960
A/swine/IL/27486-1/2010(H1N1)	6/2/10	ADN95964
A/swine/IL/27486-2/2010(H1N1)	6/2/10	ADN95968
A/swine/IL/32974/2009(H1N1)	11/11/09	ADB82958
A/swine/IL/35572/2009(H1N1)	12/16/09	ADD64916
A/swine/IL/35573/2009(H1N1)	12/16/09	ADD64920
A/swine/IL/3910/2010(H1N1)	1/11/10	ADD37828
A/swine/IL/5265-1/2010(H1N1)	1/25/10	ADD64936

A/swine/IL/5265-2/2010(H1N1)	1/25/10	ADD64940
A/swine/Illinois/02957/2010(H1N1)	1/26/10	ADC79610
A/swine/Illinois/A01047061/2010(H1N1)	11/29/10	AFN07832
A/swine/Illinois/A01047715/2010(H1N1)	12/14/10	AFN07902
A/swine/Illinois/A01047796/2010(H1N1)	12/30/10	AFN07912
A/swine/Illinois/A01047800/2010(H1N1)	12/30/10	AFL56780
A/swine/Illinois/A01047977/2011(H1N1)	1/17/11	AFN08630
A/swine/Illinois/A01049574/2011(H1N1)	2/16/11	AEP17263
A/swine/Illinois/A01049575/2011(H1N1)	2/16/11	AEZ54162
A/swine/Illinois/A01049673/2011(H1N1)	3/10/11	AEP17264
A/swine/Illinois/A01076118/2010(H1N1)	7/13/10	AFL56782
A/swine/Illinois/A01076175/2009(H1N1)	11/22/09	AFN07978
A/swine/Illinois/A01076179/2009(H1N1)	12/6/09	AFL56814
A/swine/Illinois/A01076194/2010(H1N1)	2/21/10	AFH76960
A/swine/Illinois/A01076203/2010(H1N1)	4/11/10	AFH76961
A/swine/Illinois/A01076907/2010(H1N1)	11/1/10	AFH76962
A/swine/Illinois/A01076948/2010(H1N1)	11/11/10	AFN07806
A/swine/Illinois/A01116954/2011(H1N1)	11/10/11	AFJ19067
A/swine/Illinois/A01134200/2011(H1N1)	1/26/11	AFN08338
A/swine/Illinois/A01134201/2011(H1N1)	1/26/11	AFH76963
A/swine/Illinois/A01134329/2011(H1N1)	2/7/11	AFN08444
A/swine/Illinois/A01134451/2011(H1N1)	2/14/11	AFN08462
A/swine/Illinois/A01134459/2011(H1N1)	2/18/11	AFN08472
A/swine/Illinois/A01134559/2011(H1N1)	2/24/11	AFN08512
A/swine/Illinois/A01134671/2011(H1N1)	3/7/11	AFN08558
A/swine/Illinois/A01134706/2011(H1N1)	3/10/11	AFN08572
A/swine/Illinois/A01134707/2011(H1N1)	3/10/11	AFH76966
A/swine/Illinois/A01134711/2011(H1N1)	3/10/11	AFN08578
A/swine/Illinois/A01134723/2011(H1)	3/10/11	AFM78666
A/swine/Illinois/A01134883/2011(H1N1)	3/23/11	AFN08634
A/swine/Illinois/A01327211/2010(H1N1)	10/7/10	AFQ60233

A/swine/Illinois/A01395201/2013(H1N1)	11/18/13	AHF20501
A/swine/Illinois/A01397807/2013(H1N1)	7/10/13	AGU01919
A/swine/Illinois/A01398316/2013(H1N1)	7/23/13	AGU69947
A/swine/Illinois/A01398610/2013(H1N1)	8/9/13	AGW83306
A/swine/Illinois/A01398628/2013(H1N1)	8/9/13	AGW83314
A/swine/Illinois/A01411340/2014(H1N1)	2014/01	AHL21519
A/swine/Illinois/A01411419/2014(H1N1)	2014/02	AHM24139
A/swine/Illinois/A01490609/2014(H1N1)	1/8/14	AHJ57442
A/swine/Illinois/A01492501/2014(H1N1)	2/12/14	AHN19438
A/swine/Illinois/A01493472/2014(H1N1)	3/26/14	AHY84443
A/swine/IN/17311/2010(H1N1)	3/17/10	ADG85233
A/swine/Indiana/13/2011(H1N1)	2011/06	AEW46960
A/swine/Indiana/27007/2009(H1N1)	2009	ADB66685
A/swine/Indiana/A01049247/2010(H1N1)	12/8/10	AEI87822
A/swine/Indiana/A01076195/2010(H1N1)	2/28/10	AFL56792
A/swine/Indiana/A01327232/2010(H1N1)	3/4/10	AFQ60237
A/swine/Indiana/A01327233/2010(H1N1)	9/21/10	AFQ60245
A/swine/Iowa/A01049003/2010(H1N1)	11/15/10	AEC23322
A/swine/Iowa/A01049004/2010(H1N1)	11/15/10	AEC23323
A/swine/Iowa/A01049037/2010(H1N1)	11/16/10	AEC23329
A/swine/Iowa/A01049077/2010(H1N1)	11/17/10	AEC23338
A/swine/Iowa/A01049195/2010(H1N1)	12/1/10	AFM46517
A/swine/Iowa/A01049205/2010(H1N1)	12/3/10	AFM46518
A/swine/Iowa/A01049239/2010(H1N1)	12/8/10	AEI87819
A/swine/Iowa/A01049379/2011(H1N1)	1/3/11	AEI87829
A/swine/Iowa/A01049478/2011(H1N1)	1/27/11	AEP17262
A/swine/Iowa/A01202097/2011(H1N1)	6/21/11	AFM46638
A/swine/Iowa/A01202099/2011(H1N1)	6/21/11	AFM46639
A/swine/Iowa/A01202511/2011(H1N1)	8/11/11	AFM46660
A/swine/Iowa/A01202554/2011(H1N1)	8/30/11	AFM46663
A/swine/Iowa/A01202834/2011(H1N1)	11/14/11	AFM46860

A/swine/lowa/A01202853/2011(H1N1)	11/15/11	AFM46863
A/swine/lowa/A01202854/2011(H1N1)	11/15/11	AFM46864
A/swine/lowa/A01202918/2011(H1N1)	11/29/11	AFM46999
A/swine/lowa/A01410472/2014(H1N1)	3/3/14	AHY95066
A/swine/lowa/A01432960/2013(H1N1)	2013/08	AGW25666
A/swine/Kansas/A01377299/2014(H1N1)	4/30/14	AID48017
A/swine/Kansas/A01410327/2014(H1N1)	2/7/14	AHW46677
A/swine/Kentucky/A01134742/2011(H1N1)	2/27/11	AFN08508
A/swine/Minnesota/02976/2010(H1N1)	1/12/10	ADD22553
A/swine/Minnesota/02979/2010(H1N1)	2/17/10	ADD22552
A/swine/Minnesota/0432/2010(H1N1)	2/10/10	AEV21634
A/swine/Minnesota/074A/2009(H1N1)	8/26/09	ADU85803
A/swine/Minnesota/130A/2009(H1N1)	9/1/09	ADU85804
A/swine/Minnesota/136B/2009(H1N1)	8/31/09	ADU85806
A/swine/Minnesota/165A/2009(H1N1)	8/28/09	ADU85808
A/swine/Minnesota/54354/2010(H1N1)	10/27/10	ADQ54383
A/swine/Minnesota/A01047907/2010(H1N1)	12/6/10	AFN07894
A/swine/Minnesota/A01049347/2010(H1N1)	12/29/10	AEI87827
A/swine/Minnesota/A01049428/2011(H1N1)	1/18/11	AEI87830
A/swine/Minnesota/A01076111/2010(H1N1)	7/6/10	AFM47136
A/swine/Minnesota/A01076112/2010(H1N1)	7/6/10	AFL56781
A/swine/Minnesota/A01076209/2010(H1N2)	5/2/10	AFI62131
A/swine/Minnesota/A01134649/2011(H1N1)	2/23/11	AFH76977
A/swine/Minnesota/A01134650/2011(H1N1)	2/23/11	AFN08500
A/swine/Minnesota/A01134815/2011(H1N1)	3/18/11	AFH76978
A/swine/Minnesota/A01134821/2011(H1N1)	3/18/11	AFN08618
A/swine/Minnesota/A01134826/2011(H1N1)	3/18/11	AFN08610
A/swine/Minnesota/A01134830/2011(H1N1)	3/18/11	AFH76979
A/swine/Minnesota/A01134836/2011(H1N1)	3/18/11	AFN08604
A/swine/Minnesota/A01134843/2011(H1N1)	3/18/11	AFM78674
A/swine/Minnesota/A01201202/2011(H1N1)	4/21/11	AFN08166

A/swine/Minnesota/A01201605/2011(H1N1)	5/17/11	AFN08188
A/swine/Minnesota/A01328420/2012(H1N1)	5/14/12	AFU09052
A/swine/Minnesota/A01381276/2013(H1N1)	5/23/13	AGO86678
A/swine/Minnesota/A01392911/2013(H1N1)	10/10/13	AHA57090
A/swine/Minnesota/A01491447/2014(H1N1)	1/27/14	AHL21454
A/swine/Minnesota/A01491451/2014(H1N1)	1/27/14	AHL21446
A/swine/Minnesota/A01491464/2014(H1N1)	1/27/14	AHL21434
A/swine/Minnesota/A01491704/2014(H1N1)	2/4/14	AHM24113
A/swine/Minnesota/A01076188/2010(H1N1)	1/24/10	AFL56789
A/swine/Missouri/A01203163/2012(H1N1)	1/17/12	AFM47013
A/swine/Missouri/A01492887/2014(H1N1)	2/10/14	AHY20810
A/swine/MN/25618/2011(H1N1)	2/10/11	AEJ90184
A/swine/MN/8761/2010(H1N1)	2/16/10	ADD64944
A/swine/MN/8762-1/2010(H1N1)	2/16/10	ADD64948
A/swine/MN/8762-2/2010(H1N1)	2/16/10	ADD64952
A/swine/MO/15534/2010(H1N1)	3/24/10	ADG85229
A/swine/MO/17314/2010(H1N1)	3/31/10	ADG85237
A/swine/MO/23881/2010(H1N1)	4/29/10	ADN95948
A/swine/NC/13598/2010(H1N1)	3/9/10	ADG85225
A/swine/NC/19646/2010(H1N1)	4/20/10	ADG85249
A/swine/NC/34543/2009(H1N1)	11/24/09	ADB82962
A/swine/NC/34752/2009(H1N1)	12/14/09	ADB82966
A/swine/Nebraska/A01047438/2010(H1N1)	11/11/10	AFN07872
A/swine/Nebraska/A01049048/2010(H1N1)	11/17/10	AEC23331
A/swine/Nebraska/A01116986/2010(H1N1)	11/11/10	AFN07782
A/swine/Nebraska/A01203626/2012(H1N2)	7/12/12	AFP99690
A/swine/Nebraska/A01241113/2012(H1N1)	1/10/12	AFU08592
A/swine/Nebraska/A01366774/2014(H1N1)	1/17/14	AHJ57470
A/swine/Nebraska/A01491300/2014(H1N1)	1/27/14	AHL21442
A/swine/Nebraska/A01491382/2014(H1N1)	1/27/14	AHL21430
A/swine/Nebraska/A01491508/2014(H1N1)	1/30/14	AHM24121

A/swine/Nebraska/A01492657/2014(H1N1)	2/27/14	AHW46540
A/swine/Nebraska/A01509523/2014(H1N1)	4/24/14	AIB06034
A/swine/North Carolina/A01049163/2010(H1N1)	11/30/10	AEF33065
A/swine/North Carolina/A01049173/2010(H1N1)	11/30/10	AEF33067
A/swine/North Carolina/A01049174/2010(H1N1)	11/30/10	AEF33068
A/swine/North Carolina/A01076176/2009(H1N1)	11/29/09	AFL56786
A/swine/North Carolina/A01076184/2010(H1N2)	1/3/10	AFN07990
A/swine/North Carolina/A01076189/2010(H1N1)	1/31/10	AFL56790
A/swine/North Carolina/A01076198/2010(H1N1)	3/14/10	AFL56794
A/swine/North Carolina/A01076213/2010(H1N1)	6/27/10	AFH76982
A/swine/North Carolina/A01202450/2011(H1N1)	7/14/11	AFM46650
A/swine/North Carolina/A01202451/2011(H1N1)	7/14/11	AFM46651
A/swine/North Carolina/A01241246/2012(H1N1)	1/3/12	AFU08968
A/swine/North Carolina/A01410573/2014(H1N1)	3/21/14	AHZ65729
A/swine/OH/9838/2011(H1N1)	2/21/11	AEF28999
A/swine/Ohio/A01134769/2011(H1N1)	8/3/11	AFN08562
A/swine/Ohio/A01201432/2011(H1N1)	3/22/11	AFN08626
A/swine/Ohio/A01349888/2013(H1N1)	4/15/13	AGM53833
A/swine/Ohio/A01349920/2013(H1N1)	4/16/13	AGM53837
A/swine/Ohio/A01349978/2013(H1N1)	4/17/13	AGM53841
A/swine/Ohio/A01432602/2013(H1N1)	2013/04	AGK62675
A/swine/Oklahoma/02989/2010(H1N1)	3/12/10	AHB24442
A/swine/OR/A00700068/2011(H1N1)	5/18/11	AEJ90188
A/swine/Pennsylvania/A01134526/2011(H1N1)	2/14/11	AFN08466
A/swine/South Dakota/A01201469/2011(H1N1)	5/9/11	AFH76984
A/swine/South Dakota/A01201470/2011(H1N1)	5/9/11	AFN08176
A/swine/Texas/A01104003/2011(H1N1)	7/16/11	AEP33167
A/swine/Texas/A01104004/2011(H1N1)	7/16/11	AEP33157
A/swine/Virginia/A01432745/2013(H1N2)	2013/05	AGS08949
A/Alabama/01/2010	1/4/10	KC781903
A/Alabama/01/2012	1/6/12	KC891323

A/Alabama/02/2011	1/4/11	KC882232
A/Alabama/04/2013	2/25/13	KF647918
A/Alabama/06/2012	3/19/12	KC891425
A/Alabama/3484/2013	11/5/13	CY163472
A/Alabama/3525/2013	12/17/13	CY187193
A/Alabama/3716/2014	2/6/14	CY187634
A/Alabama/3717/2014	2/27/14	CY187635
A/Alabama/3718/2014	3/19/14	CY187636
A/Alaska/01/2010	2/7/10	KC781389
A/Alaska/07/2011	1/24/11	KC881752
A/Alaska/08/2011	1/14/11	KC881746
A/Alaska/11/2011	3/9/11	KC881807
A/Alaska/3526/2014	1/7/14	CY187194
A/Alaska/36/2012	12/28/12	KF648140
A/Alaska/3720/2014	2/14/14	CY187638
A/Alaska/3721/2014	2/14/14	CY187639
A/Alaska/43/2009	11/10/09	KC781688
A/Arizona/01/2010	1/16/10	KC781245
A/Arizona/01/2013	1/14/13	KF648049
A/Arizona/03/2010	3/6/10	KC780610
A/Arizona/03/2014	2/16/14	531902
A/Arizona/05/2010	5/11/10	KC780324
A/Arizona/07/2010	4/9/10	KC780122
A/Arizona/08/2012	1/24/12	KC891234
A/Arizona/16/2009	9/15/09	KC781533
A/Arizona/3530/2014	1/7/14	CY187198
A/Arizona/3722/2014	1/25/14	CY187640
A/Arizona/M1/2012	2/23/12	KC508624
A/Arizona/M15/2012	4/3/12	KC513480
A/Arizona/M17/2012	4/4/12	KC513478
A/Arizona/M2/2012	2/29/12	KC508625

A/Arizona/M20/2012	4/13/12	KJ411983
A/Arizona/M6/2012	3/10/12	KC513481
A/Boston/653/2009	11/13/09	CY075556
A/Boston/DOA08/2011	1/13/11	CY134465
A/Boston/DOA2/099/2012	12/23/12	CY148316
A/Boston/DOA26/2011	2/3/11	CY111538
A/Boston/DOA28/2011	1/27/11	CY134473
A/Boston/DOA30/2011	1/27/11	CY134489
A/Boston/DOA34/2011	2/7/11	CY134497
A/Boston/DOA35/2011	2/7/11	CY111278
A/Boston/DOA39/2011	2/12/11	CY134521
A/Boston/DOA40/2011	2/11/11	CY111286
A/Boston/DOA43/2011	2/14/11	CY134537
A/Boston/DOA53/2011	2/21/11	CY134585
A/Boston/DOA70/2011	3/3/11	CY111374
A/Boston/DOA90/2012	2/21/12	CY125775
A/Boston/DOA93/2012	3/26/12	CY125783
A/Boston/YGA/01041/2012	12/25/12	CY168807
A/Boston/YGA/01050/2012	12/26/12	CY168879
A/Boston/YGA/01218/2013	3/18/13	CY170087
A/Boston/YGA/01220/2013	4/26/13	CY170095
A/Brawley/WR1636P/2009	4/29/09	CY073402
A/Bronx/INS3/673/2012	3/6/12	CY176690
A/Bronx/INS3/674/2012	3/21/12	CY176698
A/Brownsville/34OS/2009	5/23/09	CY053222
A/Brownsville/43H/2009	6/2/09	CY053301
A/California/01/2010	1/19/10	KC782067
A/California/02/2010	2/1/10	KC780601
A/California/06/2011	1/17/11	KC881612
A/California/07/2010	4/23/10	KC780214
A/California/09/2010	5/11/10	KC782239

A/California/09/2013	1/22/13	KF648256
A/California/11/2009	4/24/09	GQ160579
A/California/11/2010	7/9/10	KC781195
A/California/12/2009	4/22/09	GQ160606
A/California/12/2012	1/19/12	KC891446
A/California/13/2009	4/21/09	GQ160607
A/California/15/2011	2/9/11	KC882188
A/California/19/2012	2/14/12	KC891084
A/California/19/2013	3/9/13	KF648198
A/California/20/2011	2/21/11	KC882290
A/California/21/2013	5/3/13	KF648229
A/California/22/2010	10/29/10	KC882111
A/California/24/2013	8/8/13	KF648169
A/California/25/2012	3/30/12	KC891437
A/California/31/2010	12/8/10	KC882173
A/California/32/2011	11/16/11	KC891210
A/California/33/2012	5/1/12	KC891313
A/California/3311/2013	1/29/13	CY147203
A/California/3505/2013	12/3/13	CY163493
A/California/3532/2013	12/24/13	CY187200
A/California/3535/2013	12/29/13	CY187203
A/California/3537/2013	12/31/13	CY187205
A/California/3539/2014	1/2/14	CY187207
A/California/3540/2014	1/3/14	CY187208
A/California/3541/2014	1/4/14	CY187209
A/California/3542/2014	1/4/14	CY187210
A/California/3543/2014	1/6/14	CY187211
A/California/3544/2014	1/6/14	CY187212
A/California/3545/2014	1/30/14	CY187213
A/California/3546/2014	1/16/14	CY187214
A/California/3547/2014	1/16/14	CY187215

A/California/3548/2013	12/12/13	CY187216
A/California/3723/2014	1/22/14	CY187641
A/California/3724/2014	1/26/14	CY187642
A/California/3725/2014	1/24/14	CY187643
A/California/3726/2014	2/2/14	CY187644
A/California/44/2012	10/19/12	KF647927
A/California/52/2011	12/28/11	KC891325
A/California/NHRC0001/2011	1/28/11	CY092880
A/California/NHRC414615/2013	12/4/13	KJ538506
A/California/NHRC417252/2013	12/23/13	KJ635904
A/California/NHRC418267/2014	1/6/14	KJ635898
A/California/NHRC418270/2013	12/30/13	KJ635914
A/California/NHRC419631/2014	1/14/14	KJ889264
A/California/NHRC419698/2014	1/16/14	KJ889266
A/California/NHRC420942/2014	1/12/14	KJ889276
A/California/NHRC421018/2014	1/17/14	KJ889268
A/California/NHRC423502/2014	1/28/14	KM186099
A/California/NHRC423907/2014	1/29/14	KJ889258
A/California/VRDL101/2009	11/5/09	CY063163
A/California/VRDL5/2010	2/4/10	CY066479
A/California/VRDL76/2009	9/21/09	CY055510
A/California/VRDL78/2009	9/22/09	CY055518
A/California/VRDL81/2009	10/1/09	CY062210
A/Chicago/WRAIR1691P/2009	10/14/09	CY083495
A/Chicago/YGA/04019/2012	12/7/12	CY171159
A/Chicago/YGA/04123/2012	12/30/12	CY171543
A/Colorado/01/2012	1/4/12	KC891384
A/Colorado/02/2011	1/24/11	KC881890
A/Colorado/03/2010	2/1/10	KC780290
A/Colorado/03/2013	3/23/13	KF648001
A/Colorado/05/2011	3/8/11	KC882123

A/Colorado/07/2014	3/25/14	534013
A/Colorado/11/2010	12/29/10	KC882366
A/Colorado/12/2012	3/21/12	KC891346
A/Colorado/14/2012	3/28/12	KC891306
A/Colorado/17/2009	12/9/09	KC780199
A/Colorado/3481/2013	11/5/13	CY163469
A/Colorado/3514/2013	12/9/13	CY163502
A/Colorado/3552/2013	12/19/13	CY187220
A/Colorado/3555/2014	1/2/14	CY187223
A/Colorado/3556/2013	12/30/13	CY187224
A/Colorado/3558/2014	1/2/14	CY187226
A/Colorado/3559/2014	1/7/14	CY187227
A/Colorado/3560/2014	1/7/14	CY187228
A/Colorado/3561/2013	12/10/13	CY187229
A/Colorado/3562/2013	12/11/13	CY187230
A/Colorado/3563/2013	12/17/13	CY187231
A/Connecticut/02/2013	7/6/13	KF648018
A/Connecticut/03/2010	5/6/10	KC781157
A/Connecticut/07/2010	12/14/10	KC882251
A/Connecticut/08/2011	4/2/11	KC882192
A/Connecticut/3728/2014	1/22/14	CY187646
A/Dayton/INS3/676/2012	3/12/12	CY176714
A/Delaware/01/2012	1/22/12	KC891455
A/Delaware/02/2010	2/11/10	KC780350
A/Delaware/03/2010	3/26/10	KC781422
A/Delaware/03/2012	2/12/12	KC891503
A/Delaware/03/2012	2/12/12	KC891573
A/Delaware/04/2011	2/4/11	KC882419
A/Delaware/07/2009	4/28/09	GQ338355
A/Delaware/08/2010	12/7/10	KC882170
A/Delaware/08/2011	2/12/11	KC882398

A/Delaware/08/2014	3/31/14	531843
A/Delaware/3566/2014	1/13/14	CY187234
A/Delaware/3730/2014	1/21/14	CY187648
A/District of Columbia/3731/2014	1/24/14	CY187649
A/District of Columbia/INS19/2009	10/27/09	CY056052
A/District of Columbia/INS21/2009	10/30/09	CY056068
A/District of Columbia/INS601/2011	1/13/11	CY129878
A/District of Columbia/WRAIR0304/2010	12/24/10	CY097805
A/District of Columbia/WRAIR0310/2010	8/27/10	CY097845
A/District of Columbia/WRAIR0313/2011	1/1/11	CY097860
A/Florida/01/2012	1/3/12	KC891364
A/Florida/02/2010	2/2/10	KC780537
A/Florida/02/2013	1/23/13	KF648138
A/Florida/04/2010	3/18/10	KC781275
A/Florida/06/2012	2/27/12	JX905426
A/Florida/07/2013	2/26/13	KF647967
A/Florida/07/2014	1/9/14	504775
A/Florida/09/2014	1/15/14	508461
A/Florida/10/2013	3/11/13	KF648124
A/Florida/11/2013	3/13/13	KF648153
A/Florida/12/2011	3/15/11	KC881663
A/Florida/13/2012	4/3/12	KC891222
A/Florida/14/2014	3/4/14	516341
A/Florida/15/2010	8/10/10	KC882063
A/Florida/15/2012	5/1/12	KC891395
A/Florida/17/2013	5/7/13	KF647953
A/Florida/18/2013	6/15/13	KF648022
A/Florida/19/2013	7/2/13	KF647957
A/Florida/20/2013	7/7/13	KF648020
A/Florida/3076/2012	12/7/12	CY134632
A/Florida/3077/2012	12/13/12	CY134633

A/Florida/3078/2012	12/12/12	CY134634
A/Florida/34/2011	12/7/11	KC891250
A/Florida/3483/2013	11/5/13	CY163471
A/Florida/3485/2013	11/5/13	CY163473
A/Florida/3492/2013	12/4/13	CY163480
A/Florida/35/2011	12/7/11	KC891202
A/Florida/3502/2013	12/4/13	CY163490
A/Florida/3519/2013	12/12/13	CY163507
A/Florida/3567/2013	12/30/13	CY187235
A/Florida/3568/2014	1/5/14	CY187236
A/Florida/3569/2013	12/20/13	CY187237
A/Florida/3599/2013	12/20/13	CY187267
A/Florida/36/2011	12/20/11	KC891263
A/Florida/38/2012	8/25/12	KF648071
A/Florida/57/2012	12/12/12	KF647994
A/Gainesville/03/2014	1/12/14	KJ645782
A/Gainesville/04/2014	1/13/14	KJ645783
A/Gainesville/05/2014	1/15/14	KJ645769
A/Gainesville/06/2014	1/19/14	KJ645784
A/Gainesville/07/2014	2/7/14	KJ645785
A/Gainesville/08/2013	12/4/13	KJ645761
A/Gainesville/10/2013	12/30/13	KJ645781
A/Georgia/01/2009	4/27/09	GQ200237
A/Georgia/02/2011	3/5/11	KC881676
A/Georgia/03/2012	1/29/12	KC891492
A/Georgia/06/2012	2/24/12	KC891251
A/Georgia/07/2012	3/5/12	KC891289
A/Georgia/08/2012	3/7/12	KC891291
A/Georgia/11/2010	3/19/10	KC781240
A/Hawaii/01/2010	1/3/10	KC781238
A/Hawaii/04/2014	2/23/14	534028

A/Hawaii/05/2011	9/7/11	JX905420
A/Hawaii/06/2014	3/1/14	531937
A/Hawaii/07/2010	5/4/10	KC780101
A/Hawaii/08/2010	4/12/10	KC782250
A/Hawaii/16/2010	10/5/10	KC882108
A/Hawaii/19/2010	9/15/10	KC882179
A/Hawaii/3312/2013	1/30/13	CY147204
A/Hawaii/3740/2014	1/24/14	CY187658
A/Hawaii/3741/2014	1/24/14	CY187659
A/Hawaii/3742/2014	1/24/14	CY187660
A/Hawaii/3743/2014	1/24/14	CY187661
A/Hawaii/47/2012	12/16/12	KF648144
A/Idaho/02/2014	1/7/14	509470
A/Idaho/03/2012	1/27/12	KC891461
A/Idaho/04/2013	2/8/13	KF647968
A/Idaho/05/2012	1/31/12	KC891075
A/Idaho/07/2012	2/18/12	KC891248
A/Idaho/14/2012	4/8/12	KC891184
A/Idaho/15/2012	4/18/12	KC891392
A/Idaho/15/2012	4/18/12	KC891393
A/Idaho/16/2012	5/1/12	KC891391
A/Idaho/3577/2014	1/14/14	CY187245
A/Idaho/3744/2014	1/10/14	CY187662
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A/Illinois/05/2012	3/2/12	KC891138
A/Illinois/05/2012	3/2/12	KC891047
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A/Illinois/NHRC415712/2013	12/12/13	KJ538494
A/Illinois/NHRC415715/2013	12/12/13	KJ538522
A/Illinois/NHRC417104/2013	12/17/13	KJ635900
A/Indiana/02/2012	3/2/12	KC891320
A/Indiana/12/2013	7/3/13	KF648044
A/Indiana/167/2012	11/25/12	KF648005
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A/Kansas/07/2011	3/1/11	KC882037
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A/Kansas/3582/2014	1/9/14	CY187250
A/Kansas/3583/2014	1/14/14	CY187251
A/Kansas/3768/2014	1/28/14	CY187686
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A/Kentucky/02/2010	1/25/10	KC780426
A/Kentucky/03/2010	2/19/10	KC781197
A/Kentucky/03/2012	2/10/12	KC891087

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A/Kentucky/3590/2014	1/2/14	CY187258
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A/Maryland/08/2014	2/21/14	531875
A/Maryland/09/2014	3/8/14	531922
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A/Maryland/31/2012	9/24/12	KF648028
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A/Maryland/37/2012	11/8/12	KF647941
A/Maryland/3788/2014	1/31/14	CY187706
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A/Massachusetts/05/2012	3/12/12	KC891424
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A/Massachusetts/3605/2014	1/15/14	CY187273
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A/Massachusetts/3790/2014	2/3/14	CY187708
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A/Mississippi/3518/2013	12/11/13	CY163506
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A/Mississippi/3609/2014	1/6/14	CY187277
A/Mississippi/3611/2013	12/18/13	CY187279
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A/Missouri/03/2012	1/18/12	KC891458
A/Missouri/03/2013	2/5/13	KF648253
A/Missouri/03/2014	2/12/14	516438

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A/Montana/06/2011	3/3/11	KC882199
A/Montana/09/2012	3/26/12	KC891225
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A/Montana/3792/2014	1/22/14	CY187710
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A/Nebraska/06/2012	2/9/12	KC891474
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A/Nevada/06/2013	7/23/13	KF648120
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A/Nevada/17/2012	4/4/12	KC891161
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A/Nevada/3620/2013	12/17/13	CY187288
A/New Hampshire/01/2010	1/3/10	KC780574
A/New Hampshire/02/2010	2/19/10	KC781923
A/New Hampshire/03/2012	1/30/12	KC891468
A/New Hampshire/04/2014	1/31/14	515401
A/New Hampshire/07/2012	3/10/12	KC891443
A/New Hampshire/07/2012	3/10/12	KC891389
A/New Hampshire/20/2012	11/24/12	KF648010
A/New Hampshire/21/2009	11/16/09	KC781108
A/New Hampshire/27/2009	12/1/09	KC781111

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A/New Jersey/07/2012	11/20/12	KF648115
A/New Jersey/11/2012	12/8/12	KF648063
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A/New Jersey/3793/2014	3/25/14	CY187711
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A/New Jersey/NHRC431112/2014	1/20/14	KJ889278
A/New Jersey/NHRC431116/2014	1/20/14	KJ889256
A/New Mexico/01/2012	1/26/12	KC891471
A/New Mexico/01/2013	1/4/13	KF648265
A/New Mexico/01/2014	1/6/14	509484
A/New Mexico/02/2013	1/6/13	KF648067
A/New Mexico/03/2010	3/7/10	KC780726
A/New Mexico/03/2014	1/24/14	513276
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A/New Mexico/06/2011	2/21/11	KC881937
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A/New Mexico/09/2009	11/8/09	KC782150
A/New Mexico/10/2011	3/29/11	KC881585
A/New Mexico/10/2012	4/30/12	KC891181
A/New Mexico/12/2012	4/9/12	KC891314
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A/New York/03/2012	2/12/12	KC891069
A/New York/04/2011	2/21/11	KC881931

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A/New York/12/2012	3/7/12	KC891112
A/New York/13/2012	3/19/12	KC891109
A/New York/14/2010	12/9/10	KC881909
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A/New York/1999/2010	1/18/10	CY062090
A/New York/2175/2010	1/19/10	CY062098
A/New York/2876/2010	1/20/10	CY062130
A/New York/2963/2010	1/22/10	CY062146
A/New York/3074/2009	4/29/09	CY047310
A/New York/3187/2009	5/1/09	CY041178
A/New York/3195/2009	4/28/09	CY041498
A/New York/3221/2013	1/18/13	CY141236
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A/New York/34/2012	4/17/12	KC891574
A/New York/3431/2013	3/26/13	CY163419
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A/New York/3568/2009	5/19/09	CY044064
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A/New York/3625/2013	12/27/13	CY187293
A/New York/3626/2014	1/2/14	CY187294
A/New York/3627/2014	1/12/14	CY187295
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A/New York/3795/2014	1/22/14	CY187713
A/New York/3796/2014	2/3/14	CY187714

A/New York/3797/2014	2/6/14	CY187715
A/New York/3798/2014	3/31/14	CY187716
A/New York/3799/2014	3/28/14	CY187717
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A/New York/3969/2009	6/9/09	CY052122
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A/New York/5227/2009	10/20/09	CY056563
A/New York/5271/2009	10/22/09	CY057286
A/New York/6064/2009	11/11/09	CY084438
A/New York/6300/2009	11/17/09	CY056707
A/New York/6675/2009	11/24/09	CY056779
A/New York/7420/2010	1/2/10	CY065067
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A/North Carolina/02/2010	1/9/10	KC780617
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A/North Carolina/04/2012	1/23/12	KC891449
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A/North Carolina/06/2010	3/9/10	KC781173
A/North Carolina/06/2011	1/20/11	KC881705
A/North Carolina/06/2012	2/7/12	KC891037
A/North Carolina/09/2012	3/1/12	KC891408
A/North Carolina/16/2012	3/28/12	KC891152
A/North Carolina/18/2012	4/26/12	KC891216
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A/North Carolina/29/2012	12/27/12	KF648089
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A/North Dakota/3635/2013	12/6/13	CY187303
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A/Ohio/3803/2014	3/26/14	CY187721
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A/Oklahoma/3645/2014	1/22/14	CY187313
A/Oklahoma/3646/2013	12/16/13	CY187314
A/Oklahoma/3804/2014	1/27/14	CY187722
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A/Oklahoma/NHRC415703/2013	12/6/13	KJ538526
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A/Oregon/03/2011	1/28/11	KC881754
A/Oregon/04/2011	2/7/11	KC882214
A/Oregon/06/2012	3/27/12	KC891419

A/Oregon/08/2012	4/11/12	KC891231
A/Oregon/13/2011	12/16/11	KC891378
A/Oregon/35/2009	10/5/09	KC781375
A/Pennsylvania/01/2013	1/18/13	KF647987
A/Pennsylvania/02/2011	2/22/11	KC881988
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A/Pennsylvania/03/2014	1/22/14	509946
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A/Pennsylvania/08/2012	4/16/12	KC891415
A/Pennsylvania/16/2010	11/17/10	KC881857
A/Pennsylvania/16/2011	12/19/11	KC891260
A/Pennsylvania/17/2010	11/16/10	KC881836
A/Pennsylvania/30/2012	12/4/12	KF648092
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A/Pennsylvania/31/2012	12/18/12	KF648095
A/Pennsylvania/32/2012	12/19/12	KF648073
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A/Rhode/Island/02/2012	2/29/12	KC891090
A/Rhode/Island/04/2012	3/21/12	KC891267
A/Rhode/Island/10/2012	12/5/12	KF648276
A/San Diego/INS201/2009	11/2/09	CY066567
A/San Diego/INS51/2009	10/12/09	CY056875
A/San Diego/INS73/2009	11/9/09	CY083894
A/San Diego/WR1624P/2009	6/13/09	CY073310
A/San Diego/WRAIR1654P/2009	6/15/09	CY083336
A/Santa Clara/YGA/03030/2013	1/8/13	CY170671
A/Santa Clara/YGA/03031/2013	1/8/13	CY170679
A/Santa Clara/YGA/03065/2013	1/26/13	CY170927
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A/South Carolina/10/2012	4/8/12	KC891126
A/South Carolina/13/2012	6/24/12	KC891018
A/South Carolina/15/2012	9/23/12	KF648026
A/South Carolina/19/2012	10/22/12	KF648244
A/South Carolina/20/2012	11/13/12	KF648274
A/South Carolina/29/2009	7/23/09	KC781873
A/South Carolina/3043/2012	10/4/12	CY130176
A/South Carolina/3472/2013	7/16/13	CY163460
A/South Carolina/3648/2013	12/19/13	CY187316
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A/South Carolina/NHRC0002/2011	1/29/11	CY092896
A/South Carolina/NHRC361211/2012	9/21/12	KF928634
A/South Carolina/NHRC362333/2012	10/2/12	KF928610
A/South Carolina/NHRC362335/2012	9/12/12	KF199860
A/South Carolina/NHRC363072/2012	10/10/12	KF199855
A/South Carolina/NHRC395489/2013	2/6/13	KF886299
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A/South Carolina/NHRC421026/2014	1/15/14	KJ889260
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A/South Dakota/3243/2013	1/4/13	CY141258
A/South Dakota/3493/2013	12/3/13	CY163481
A/South Dakota/3517/2013	12/11/13	CY163505
A/South Dakota/3652/2014	1/3/14	CY187320
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A/South Dakota/3654/2014	1/6/14	CY187322
A/South Dakota/3655/2014	1/7/14	CY187323
A/South Dakota/3657/2013	12/17/13	CY187325
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A/Tennessee/02/2010	3/12/10	KC781158
A/Tennessee/02/2011	3/8/11	KC881814
A/Tennessee/02/2012	2/2/12	KC891043
A/Tennessee/03/2013	3/26/13	KF648193
A/Tennessee/05/2012	3/5/12	KC891280
A/Tennessee/09/2012	10/31/12	KF648240
A/Tennessee/F1063A/2010	2/26/10	CY167356
A/Tennessee/F1071/2010	3/2/10	CY167388
A/Tennessee/F1071B/2010	3/5/10	CY167396
A/Tennessee/F1076/2010	3/16/10	CY167420
A/Tennessee/F2005A/2010	12/10/10	CY167468
A/Tennessee/F2008c07A/2010	12/16/10	CY167476
A/Tennessee/F2014/2011	1/14/11	CY167492
A/Tennessee/F2026A/2011	2/4/11	CY167556
A/Tennessee/F2041A/2011	2/14/11	CY167588
A/Tennessee/F2068/2011	3/3/11	CY167660
A/Tennessee/F2083C/2011	4/13/11	CY167724
A/Tennessee/F2085/2011	3/17/11	CY167309
A/Tennessee/F2090/2011	3/31/11	CY167748
A/Texas/01/2010	1/13/10	KC780947
A/Texas/01/2011	1/5/11	KC882052
A/Texas/02/2012	1/7/12	KC891054
A/Texas/03/2010	6/1/10	KC780149
A/Texas/04/2011	1/23/11	KC881785
A/Texas/04/2012	1/9/12	KC891358
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A/Texas/07/2011	2/16/11	KC882147
A/Texas/07/2012	1/10/12	KC891588
A/Texas/07/2013	1/5/13	KF648178
A/Texas/09/2014	1/18/14	507537

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A/Texas/21/2012	2/12/12	KC891060
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A/Texas/24/2012	2/25/12	KC891543
A/Texas/26/2012	2/21/12	KC891541
A/Texas/27/2012	2/23/12	KC891534
A/Texas/29/2012	2/24/12	KC891500
A/Texas/30/2012	3/2/12	KC891276
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A/Texas/33/2012	3/12/12	KC891519
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A/Texas/35/2012	3/19/12	KC891522
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A/Texas/3669/2014	1/3/14	CY187337
A/Texas/3670/2014	1/6/14	CY187338
A/Texas/3671/2014	1/6/14	CY187339

A/Texas/3672/2014	1/7/14	CY187340
A/Texas/3673/2014	1/7/14	CY187341
A/Texas/3674/2014	1/7/14	CY187342
A/Texas/3675/2014	1/7/14	CY187343
A/Texas/3676/2014	1/14/14	CY187344
A/Texas/3678/2013	12/13/13	CY187346
A/Texas/3679/2013	12/17/13	CY187347
A/Texas/3680/2013	12/16/13	CY187348
A/Texas/3685/2013	12/19/13	CY187353
A/Texas/37/2012	3/14/12	KC891020
A/Texas/39/2009	5/22/09	GQ377047
A/Texas/42102708/2009	6/10/09	CY052266
A/Texas/42114261/2009	6/11/09	CY051887
A/Texas/42122969/2009	6/12/09	CY051855
A/Texas/42191653/2009	6/19/09	CY051847
A/Texas/42201824/2009	6/20/09	CY051863
A/Texas/42281289/2009	6/28/09	CY052186
A/Texas/45034157/2009	9/3/09	CY052607
A/Texas/45052569/2009	9/5/09	CY052919
A/Texas/45101424/2009	9/10/09	CY052743
A/Texas/45132214/2009	9/13/09	CY052543
A/Texas/46172734/2009	10/17/09	CY058046
A/Texas/46181292/2009	10/18/09	CY058062
A/Texas/47/2012	4/1/12	KC891167
A/Texas/48/2012	3/16/12	KC891559
A/Texas/49/2012	3/27/12	KC891562
A/Texas/66/2009	9/29/09	KC780993
A/Texas/71/2009	8/1/09	KC780436
A/Texas/90/2012	10/18/12	KF647933
A/Texas/99/2012	12/17/12	KF648091
A/Texas/JMM/52/2012	12/6/12	CY135108

A/Texas/JMM/53/2012	12/6/12	CY135116
A/Texas/JMS375/2009	11/23/09	CY058716
A/Texas/JMS387/2009	12/8/09	CY061011
A/Texas/JMS391/2009	12/23/09	CY061043
A/Texas/JMS395/2009	12/30/09	CY061075
A/Texas/JMS403/2010	1/4/10	CY061586
A/Texas/JMS404/2010	1/8/10	CY061115
A/Texas/JMS412/2010	2/1/10	CY061179
A/Texas/JMS415/2010	2/6/10	CY061203
A/Utah/01/2012	1/17/12	KC891372
A/Utah/01/2013	1/20/13	KF648149
A/Utah/04/2013	2/3/13	KF648246
A/Utah/06/2012	2/2/12	KC891452
A/Utah/08/2012	2/1/12	KC891007
A/Utah/09/2012	2/9/12	KC891040
A/Utah/10/2011	3/10/11	KC882205
A/Utah/11/2012	3/15/12	KC891350
A/Utah/16/2012	5/8/12	KC891055
A/Utah/3490/2013	12/2/13	CY163478
A/Utah/35/2009	7/9/09	KC780623
A/Utah/3691/2014	1/2/14	CY187359
A/Utah/3692/2014	1/3/14	CY187360
A/Utah/3693/2014	1/10/14	CY187361
A/Utah/3696/2013	12/17/13	CY187364
A/Utah/3697/2013	12/18/13	CY187365
A/Utah/3807/2014	1/24/14	CY187725
A/Utah/3808/2014	1/24/14	CY187726
A/Utah/53/2009	11/17/09	KC781934
A/Vermont/01/2010	2/4/10	KC782022
A/Vermont/02/2012	2/1/12	KC891382
A/Vermont/03/2012	2/6/12	KC891010

A/Vermont/04/2011	1/14/11	KC882019
A/Vermont/16/2011	12/22/11	KC891317
A/Vermont/20/2009	10/8/09	KC780713
A/Virginia/01/2011	2/15/11	KC881873
A/Virginia/07/2012	3/9/12	KC891343
A/Virginia/11/2012	4/25/12	KC891196
A/Virginia/13/2012	8/21/12	KF648210
A/Virginia/27/2009	12/17/09	KC780429
A/Virginia/3258/2013	1/11/13	CY141273
A/Virginia/3260/2013	1/15/13	CY141275
A/Virginia/NHRC430739/2014	1/23/14	KJ889280
A/Virginia/NHRC430747/2014	1/18/14	KJ889274
A/Vladimir/IIV/35/2011	1/31/11	JN153087
A/Washington/01/2010	4/2/10	KC781296
A/Washington/05/2011	1/11/11	KC881744
A/Washington/07/2014	2/10/14	515369
A/Washington/14/2012	2/13/12	KC891078
A/Washington/15/2012	2/13/12	KC891081
A/Washington/19/2012	2/24/12	KC891283
A/Washington/22/2012	3/20/12	KC891170
A/Washington/24/2012	6/17/12	KC891401
A/Washington/34/2012	7/30/12	KC891213
A/Washington/3473/2013	9/5/13	CY163461
A/Washington/3701/2014	1/12/14	CY187369
A/Washington/3702/2014	1/12/14	CY187370
A/Washington/3703/2013	12/17/13	CY187371
A/Washington/3809/2014	1/17/14	CY187727
A/Washington/44/2012	8/15/12	KC891445
A/West/Virginia/01/2011	1/1/11	KC881630
A/West/Virginia/04/2014	2/5/14	515378
A/Wisconsin/02/2012	1/10/12	KC891495

A/Wisconsin/02/2013	1/2/13	KF648114
A/Wisconsin/06/2010	4/28/10	KC782000
A/Wisconsin/06/2012	2/3/12	KC891477
A/Wisconsin/07/2014	3/18/14	520440
A/Wisconsin/11/2011	2/25/11	KC882202
A/Wisconsin/11/2012	4/1/12	KC891121
A/Wisconsin/12/2013	8/4/13	KF648118
A/Wisconsin/13/2013	9/5/13	KJ136255
A/Wisconsin/14/2012	5/24/12	KC891394
A/Wisconsin/15/2011	2/14/11	KC881725
A/Wisconsin/16/2012	6/4/12	KC891412
A/Wisconsin/26/2011	10/16/11	KC891026
A/Wisconsin/36/2012	10/15/12	KF648213
A/Wisconsin/45/2012	11/14/12	KF647924
A/Wisconsin/53/2009	9/1/09	KC782308
A/Wisconsin/629/D00295/2009	11/15/09	CY057854
A/Wisconsin/629/D00374/2009	6/1/09	CY050943
A/Wisconsin/629/D00592/2009	6/2/09	CY050983
A/Wisconsin/629/D00698/2009	5/27/09	CY046811
A/Wisconsin/629/D00740/2009	10/16/09	CY063259
A/Wisconsin/629/D00830/2009	10/12/09	CY063243
A/Wisconsin/629/D00881/2009	6/1/09	CY089888
A/Wisconsin/629/D00916/2009	6/14/09	CY051119
A/Wisconsin/629/D01014/2009	11/8/09	CY057782
A/Wisconsin/629/D01092/2009	5/3/09	CY046275
A/Wisconsin/629/D01189/2009	5/2/09	CY046395
A/Wisconsin/629/D01482/2009	5/10/09	CY050444
A/Wisconsin/629/D01522/2009	9/18/09	CY057438
A/Wisconsin/629/D01528/2009	11/29/09	CY057966
A/Wisconsin/629/D01572/2009	11/19/09	CY063307
A/Wisconsin/629/D01973/2009	6/26/09	CY052114

A/Wisconsin/629/D02024/2009	6/22/09	CY051199
A/Wisconsin/629/D02082/2009	10/19/09	CY063267
A/Wisconsin/629/S0235/2009	6/10/09	CY090000
A/Wisconsin/629/S1414/2009	10/26/09	CY058316
A/Wyoming/06/2012	3/10/12	KC891273
A/Wyoming/09/2012	4/5/12	KC891146
A/Wyoming/15/2009	10/7/09	KC781032
A/Wyoming/23/2012	12/4/12	KF647925
A/Wyoming/31/2012	12/26/12	KF648122
A/Wyoming/3705/2014	1/7/14	CY187373
A/Wyoming/3706/2014	1/7/14	CY187374
A/Wyoming/3707/2014	1/7/14	CY187375
A/Wyoming/3708/2014	1/7/14	CY187376

Table S3. Pandemic H1N1 influenza A virus sequences (NA segment) used in this analysis (Fig. S3). Virus name, date of viral collection, and GenBank accession number for NA sequences from 178 influenza viruses collected in swine in the United States during 2009-2014 and 688 influenza viruses collected in humans in the United States during 2009-2014. Accession numbers beginning with '5' refer to the 77 NA sequences from human influenza viruses from 2013-2014 that were downloaded from the GISAID database (www.gisaid.org) to supplement the number of viruses from these underrepresented years.

Virus name	Date	Accession
A/swine/Arkansas/SG1321/2009(H1N1)	12/28/09	AHB51416
A/swine/Arkansas/SG1347/2010(H1N1)	1/6/10	AHB52270
A/swine/Arkansas/SG1499/2010(H1N1)	8/11/10	AHB23109
A/swine/Colorado/A01203099/2011(H1N1)	12/22/11	AFM47041
A/swine/IL/10-001550/2009(H1N1)	12/29/09	ADD64925
A/swine/IL/10-001551-1/2009(H1N1)	12/20/09	ADD64929
A/swine/IL/10-001551-2/2009(H1N1)	12/20/09	ADD64933
A/swine/IL/12660/2010(H1N1)	2/23/10	ADG85222
A/swine/IL/17315-1/2010(H1N1)	3/18/10	ADG85242
A/swine/IL/17315-3/2010(H1N1)	3/18/10	ADG85246
A/swine/IL/25399-2/2010(H1N1)	5/18/10	ADN95953
A/swine/IL/25399-3/2010(H1N1)	5/18/10	ADN95957
A/swine/IL/25399-4/2010(H1N1)	5/18/10	ADN95961
A/swine/IL/27486-1/2010(H1N1)	6/2/10	ADN95965
A/swine/IL/27486-2/2010(H1N1)	6/2/10	ADN95969
A/swine/IL/32974/2009(H1N1)	11/11/09	ADB82961
A/swine/IL/35572/2009(H1N1)	12/16/09	ADD64917
A/swine/IL/35573/2009(H1N1)	12/16/09	ADD64921
A/swine/IL/3910/2010(H1N1)	1/11/10	ADD37831
A/swine/IL/5265-1/2010(H1N1)	1/25/10	ADD64937
A/swine/IL/5265-2/2010(H1N1)	1/25/10	ADD64941
A/swine/Illinois/02957/2010(H1N1)	1/26/10	AHB21797
A/swine/Illinois/A01047061/2010(H1N1)	11/29/10	AFN07833
A/swine/Illinois/A01047715/2010(H1N1)	12/14/10	AFN07903

A/swine/Illinois/A01047796/2010(H1N1)	12/30/10	AFN07913
A/swine/Illinois/A01047800/2010(H1N1)	12/30/10	AFL56816
A/swine/Illinois/A01047977/2011(H1N1)	1/17/11	AFN08631
A/swine/Illinois/A01049574/2011(H1N1)	2/16/11	AEZ54159
A/swine/Illinois/A01049575/2011(H1N1)	2/16/11	AEZ54160
A/swine/Illinois/A01049673/2011(H1N1)	3/10/11	AEZ54161
A/swine/Illinois/A01076179/2009(H1N1)	12/6/09	AFM78663
A/swine/Illinois/A01076194/2010(H1N1)	2/21/10	AFH76997
A/swine/Illinois/A01076203/2010(H1N1)	4/11/10	AFH76998
A/swine/Illinois/A01076907/2010(H1N1)	11/1/10	AFH76999
A/swine/Illinois/A01076948/2010(H1N1)	11/11/10	AFN07807
A/swine/Illinois/A01116954/2011(H1N1)	11/10/11	AFJ19119
A/swine/Illinois/A01134200/2011(H1N1)	1/26/11	AFN08339
A/swine/Illinois/A01134201/2011(H1N1)	1/26/11	AFH77000
A/swine/Illinois/A01134329/2011(H1N1)	2/7/11	AFN08445
A/swine/Illinois/A01134451/2011(H1N1)	2/14/11	AFN08463
A/swine/Illinois/A01134459/2011(H1N1)	2/18/11	AFN08473
A/swine/Illinois/A01134559/2011(H1N1)	2/24/11	AFN08513
A/swine/Illinois/A01134565/2011(H1N1)	2/24/11	AFN08517
A/swine/Illinois/A01134671/2011(H1N1)	3/7/11	AFN08559
A/swine/Illinois/A01134706/2011(H1N1)	3/10/11	AFN08573
A/swine/Illinois/A01134707/2011(H1N1)	3/10/11	AFH77003
A/swine/Illinois/A01134711/2011(H1N1)	3/10/11	AFN08579
A/swine/Illinois/A01134883/2011(H1N1)	3/23/11	AFN08635
A/swine/Illinois/A01240201/2011(H1N1)	12/8/11	AFU10064
A/swine/Illinois/A01327211/2010(H1N1)	10/7/10	AFQ60232
A/swine/Illinois/A01328547/2012(H1N1)	5/21/12	AFU08611
A/swine/Illinois/A01328548/2012(H1N1)	5/21/12	AFU08931
A/swine/Illinois/A01395201/2013(H1N1)	11/18/13	AHF20502
A/swine/Illinois/A01397807/2013(H1N1)	7/10/13	AGU01920
A/swine/Illinois/A01398316/2013(H1N1)	7/23/13	AGU69948

A/swine/Illinois/A01398610/2013(H1N1)	8/9/13	AGW83307
A/swine/Illinois/A01398628/2013(H1N1)	8/9/13	AGW83315
A/swine/Illinois/A01411340/2014(H1N1)	2014/01	AHL21520
A/swine/Illinois/A01411419/2014(H1N1)	2014/02	AHM24140
A/swine/Illinois/A01490609/2014(H1N1)	1/8/14	AHJ57443
A/swine/Illinois/A01492501/2014(H1N1)	2/12/14	AHN19439
A/swine/Illinois/A01493472/2014(H1N1)	3/26/14	AHY84444
A/swine/IN/17311/2010(H1N1)	3/17/10	ADG85234
A/swine/Indiana/13/2011(H1N1)	2011/06	AEW46961
A/swine/Indiana/27007/2009(H1N1)	2009	ADB66688
A/swine/Indiana/A01049247/2010(H1N1)	12/8/10	AEI87765
A/swine/Indiana/A01327232/2010(H1N1)	3/4/10	AFQ60236
A/swine/Indiana/A01327233/2010(H1N1)	9/21/10	AFQ60244
A/swine/Indiana/A01327237/2010(H1N1)	2/11/10	AFQ60258
A/swine/Indiana/SG1367/2010(H1N1)	11/23/10	AHB24504
A/swine/Iowa/44837-1/2009(H1N1)	11/8/09	ADP05205
A/swine/Iowa/A01049003/2010(H1N1)	11/15/10	AEC23299
A/swine/Iowa/A01049004/2010(H1N1)	11/15/10	AEC23300
A-swine-Iowa-A01049020-2010(mixed)	11/16/10	AFM46557
A/swine/Iowa/A01049037/2010(H1N1)	11/16/10	AEC23306
A/swine/Iowa/A01049077/2010(H1N1)	11/17/10	AEC23315
A/swine/Iowa/A01049195/2010(H1N1)	12/1/10	AFM46543
A/swine/Iowa/A01049205/2010(H1N1)	12/3/10	AFM46544
A/swine/Iowa/A01049239/2010(H1N1)	12/8/10	AEI87762
A/swine/Iowa/A01049379/2011(H1N1)	1/3/11	AEI87772
A/swine/Iowa/A01049478/2011(H1N1)	1/27/11	AEP17232
A/swine/Iowa/A01049578/2011(H1N1)	2/17/11	AEP17233
A/swine/Iowa/A01202097/2011(H1N1)	6/21/11	AFM46687
A/swine/Iowa/A01202099/2011(H1N1)	6/21/11	AFM46688
A/swine/Iowa/A01202511/2011(H1N1)	8/11/11	AFM46709
A/swine/Iowa/A01202554/2011(H1N1)	8/30/11	AFM46712

A/swine/lowa/A01202834/2011(H1N1)	11/14/11	AFM46900
A/swine/lowa/A01202853/2011(H1N1)	11/15/11	AFM46903
A/swine/lowa/A01202854/2011(H1N1)	11/15/11	AFM46904
A/swine/lowa/A01202918/2011(H1N1)	11/29/11	AFM47036
A/swine/lowa/A01410472/2014(H1N1)	3/3/14	AHY95067
A/swine/lowa/A01432960/2013(H1N1)	2013/08	AGW25667
A/swine/Kansas/A01377299/2014(H1N1)	4/30/14	AID48018
A/swine/Kansas/A01410327/2014(H1N1)	2/7/14	AHW46678
A/swine/Kentucky/A01134742/2011(H1N1)	2/27/11	AFN08509
A/swine/Minnesota/02976/2010(H1N1)	1/12/10	AHB22441
A/swine/Minnesota/02979/2010(H1N1)	2/17/10	AEO91826
A/swine/Minnesota/0432/2010(H1N1)	2/10/10	AEV21636
A/swine/Minnesota/074A/2009(H1N1)	8/26/09	ADU85797
A/swine/Minnesota/130A/2009(H1N1)	9/1/09	ADU85798
A/swine/Minnesota/136B/2009(H1N1)	8/31/09	ADU85800
A/swine/Minnesota/165A/2009(H1N1)	8/28/09	ADU85801
A/swine/Minnesota/54354/2010(H1N1)	10/27/10	ADQ54384
A/swine/Minnesota/A01047907/2010(H1N1)	12/6/10	AFN07895
A/swine/Minnesota/A01049347/2010(H1N1)	12/29/10	AEI87770
A/swine/Minnesota/A01049428/2011(H1N1)	1/18/11	AEI87773
A/swine/Minnesota/A01076627/2010(H1N1)	10/18/10	AFN08099
A/swine/Minnesota/A01116365/2011(H1N1)	10/3/11	AFN08305
A/swine/Minnesota/A01134649/2011(H1N1)	2/23/11	AFH77014
A/swine/Minnesota/A01134650/2011(H1N1)	2/23/11	AFN08501
A/swine/Minnesota/A01134815/2011(H1N1)	3/18/11	AFH77015
A/swine/Minnesota/A01134821/2011(H1N1)	3/18/11	AFN08619
A/swine/Minnesota/A01134826/2011(H1N1)	3/18/11	AFN08611
A/swine/Minnesota/A01134830/2011(H1N1)	3/18/11	AFH77016
A/swine/Minnesota/A01134836/2011(H1N1)	3/18/11	AFN08605
A/swine/Minnesota/A01134843/2011(H1N1)	3/18/11	AFL56844
A/swine/Minnesota/A01201202/2011(H1N1)	4/21/11	AFN08167

A/swine/Minnesota/A01201605/2011(H1N1)	5/17/11	AFN08189
A/swine/Minnesota/A01328420/2012(H1N1)	5/14/12	AFU09051
A/swine/Minnesota/A01381276/2013(H1N1)	5/23/13	AGO86679
A/swine/Minnesota/A01392911/2013(H1N1)	10/10/13	AHA57091
A/swine/Minnesota/A01491447/2014(H1N1)	1/27/14	AHL21455
A/swine/Minnesota/A01491451/2014(H1N1)	1/27/14	AHL21447
A/swine/Minnesota/A01491464/2014(H1N1)	1/27/14	AHL21435
A/swine/Minnesota/A01491704/2014(H1N1)	2/4/14	AHM24114
A/swine/Minnesota/A01076188/2010(H1N1)	1/24/10	AFL56826
A/swine/Missouri/A01203163/2012(H1N1)	1/17/12	AFM47050
A/swine/Missouri/A01492887/2014(H1N1)	2/10/14	AHY20811
A/swine/MN/25618/2011(H1N1)	2/10/11	AEJ90185
A/swine/MN/8761/2010(H1N1)	2/16/10	ADD64945
A/swine/MN/8762-1/2010(H1N1)	2/16/10	ADD64949
A/swine/MN/8762-2/2010(H1N1)	2/16/10	ADD64953
A/swine/MO/15534/2010(H1N1)	3/24/10	ADG85230
A/swine/MO/17314/2010(H1N1)	3/31/10	ADG85238
A/swine/MO/23881/2010(H1N1)	4/29/10	ADN95949
A/swine/NC/13598/2010(H1N1)	3/9/10	ADG85226
A/swine/NC/19646/2010(H1N1)	4/20/10	ADG85250
A/swine/NC/34543/2009(H1N1)	11/24/09	ADB82965
A/swine/NC/34752/2009(H1N1)	12/14/09	ADB82969
A/swine/Nebraska/A01047438/2010(H1N1)	11/11/10	AFN07873
A/swine/Nebraska/A01049048/2010(H1N1)	11/17/10	AEC23308
A/swine/Nebraska/A01116986/2010(H1N1)	11/11/10	AFN07783
A/swine/Nebraska/A01241113/2012(H1N1)	1/10/12	AFU08591
A/swine/Nebraska/A01366774/2014(H1N1)	1/17/14	AHJ57473
A/swine/Nebraska/A01491300/2014(H1N1)	1/27/14	AHL21443
A/swine/Nebraska/A01491382/2014(H1N1)	1/27/14	AHL21431
A/swine/Nebraska/A01491508/2014(H1N1)	1/30/14	AHM24122
A/swine/Nebraska/A01492657/2014(H1N1)	2/27/14	AHW46541

A/swine/Nebraska/A01509523/2014(H1N1)	4/24/14	AIB06035
A/swine/North Carolina/A01049163/2010(H1N1)	11/30/10	AEF33053
A/swine/North Carolina/A01049173/2010(H1N1)	11/30/10	AEF33055
A/swine/North Carolina/A01049174/2010(H1N1)	11/30/10	AEF33056
A/swine/North Carolina/A01076176/2009(H1N1)	11/29/09	AFL56824
A/swine/North Carolina/A01076189/2010(H1N1)	1/31/10	AFL56827
A/swine/North Carolina/A01076198/2010(H1N1)	3/14/10	AFL56828
A/swine/North Carolina/A01076213/2010(H1N1)	6/27/10	AFH77019
A/swine/North Carolina/A01116713/2010(H1N1)	10/6/10	AFN08091
A/swine/North Carolina/A01202450/2011(H1N1)	7/14/11	AFM46699
A/swine/North Carolina/A01202451/2011(H1N1)	7/14/11	AFM46700
A/swine/North Carolina/A01241246/2012(H1N1)	1/3/12	AFU08967
A/swine/North Carolina/A01410044/2013(H1N1)	12/20/13	AHJ57459
A/swine/North Carolina/A01410047/2013(H1N1)	12/20/13	AHK10674
A/swine/North Carolina/A01410573/2014(H1N1)	3/21/14	AHZ65730
A/swine/OH/9838/2011(H1N1)	2/21/11	AEF29000
A/swine/Ohio/A01134769/2011(H1N1)	8/3/11	AFN08563
A/swine/Ohio/A01201432/2011(H1N1)	3/22/11	AFN08627
A/swine/Ohio/A01349888/2013(H1N1)	4/15/13	AGM53836
A/swine/Ohio/A01349920/2013(H1N1)	4/16/13	AGM53840
A/swine/Ohio/A01349978/2013(H1N1)	4/17/13	AGM53844
A/swine/Ohio/A01432602/2013(H1N1)	2013/04	AGK62674
A/swine/Oklahoma/02989/2010(H1N1)	3/12/10	AHB24445
A/swine/Oklahoma/A01290605/2013(H1N1)	2013/10	AHA57164
A/swine/OR/A00700068/2011(H1N1)	5/18/11	AEJ90189
A/swine/Pennsylvania/A01134526/2011(H1N1)	2/14/11	AFN08467
A/swine/South Dakota/A01201469/2011(H1N1)	5/9/11	AFH77021
A/swine/South Dakota/A01201470/2011(H1N1)	5/9/11	AFN08177
A/swine/Texas/A01104003/2011(H1N1)	7/16/11	AEP33169
A/swine/Texas/A01104004/2011(H1N1)	7/16/11	AEP33159
A/Alabama/01/2012	1/6/12	KC891324

A/Alabama/04/2013	2/25/13	KF647919
A/Alabama/06/2010	7/19/10	KC781193
A/Alabama/06/2012	3/19/12	KC891347
A/Alaska/01/2012	3/14/12	KC891336
A/Alaska/02/2014	1/14/14	508775
A/Alaska/07/2014	4/18/14	532622
A/Alaska/11/2011	3/9/11	KC881808
A/Alaska/14/2011	3/30/11	KC882074
A/Alaska/36/2012	12/28/12	KF648134
A/Alaska/40/2009	10/1/09	KC780965
A/Alaska/43/2009	11/10/09	KC781686
A/Arizona/01/2011	2/1/11	KC881967
A/Arizona/02/2010	2/2/10	KC782069
A/Arizona/02/2011	3/8/11	KC882010
A/Arizona/03/2010	3/6/10	KC780611
A/Arizona/05/2010	5/11/10	KC780323
A/Arizona/06/2010	5/29/10	KC782231
A/Arizona/08/2012	1/24/12	KC891235
A/Arizona/17/2009	10/15/09	KC782057
A/Arizona/20/2009	12/6/09	KC781016
A/Boston/127/2009	6/17/09	CY064590
A/Boston/130/2009	6/21/09	CY064606
A/Boston/145/2009	7/9/09	CY063512
A/Boston/583/2009	10/10/09	CY089189
A/Boston/637/2009	11/8/09	CY089253
A/Boston/678/2009	11/17/09	CY089317
A/Boston/680/2009	11/17/09	CY089325
A/Boston/701/2009	11/27/09	CY075630
A/Boston/DOA08/2011	1/13/11	CY134467
A/Boston/DOA14/2011	1/19/11	CY111208
A/Boston/DOA2/099/2012	12/23/12	CY148318

A/Boston/DOA34/2011	2/7/11	CY134499
A/Boston/DOA39/2011	2/12/11	CY134523
A/Boston/DOA49/2011	2/17/11	CY134571
A/Boston/DOA70/2011	3/3/11	CY111376
A/Boston/DOA90/2012	2/21/12	CY125777
A/Boston/DOA93/2012	3/26/12	CY125785
A/Boston/YGA/00037/2013	1/10/13	CY168097
A/Boston/YGA/00087/2013	1/30/13	CY168425
A/Boston/YGA/01002/2012	12/19/12	CY168537
A/Boston/YGA/01041/2012	12/25/12	CY168809
A/Boston/YGA/01185/2013	1/21/13	CY169865
A/Boston/YGA/01202/2013	2/3/13	CY169977
A/Boston/YGA/01217/2013	3/17/13	CY170081
A/Boston/YGA/01218/2013	3/18/13	CY170089
A/Boston/YGA/02024/2013	1/7/13	CY170257
A/Bronx/INS3/673/2012	3/6/12	CY176692
A/Bronx/INS3/674/2012	3/21/12	CY176700
A/Brooklyn/INS549/2011	3/24/11	CY129656
A/Brownsville/31OS/2009	5/22/09	CY053208
A/Brownsville/34H/2009	5/23/09	CY053232
A/California/01/2014	1/6/14	509447
A/California/07/2010	4/23/10	KC780215
A/California/07/2011	1/27/11	KC881616
A/California/08/2014	1/17/14	513278
A/California/09/2010	5/11/10	KC782238
A/California/09/2013	1/22/13	KF648142
A/California/12/2012	1/19/12	KC891447
A/California/13/2009	4/21/09	GQ323523
A/California/14/2011	1/7/11	KC881739
A/California/16/2012	1/18/12	KC891016
A/California/17/2013	1/12/13	KF647977

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A/California/19/2012	2/14/12	KC891085
A/California/19/2013	3/9/13	KF648190
A/California/20/2011	2/21/11	KC882268
A/California/20/2013	3/8/13	KF648186
A/California/21/2011	3/13/11	KC882273
A/California/21/2012	2/20/12	KC891515
A/California/21/2013	5/3/13	KF648227
A/California/24/2011	9/15/11	KC891488
A/California/24/2013	8/8/13	KF648165
A/California/25/2012	3/30/12	KC891436
A/California/33/2012	5/1/12	KC891315
A/California/44/2012	10/19/12	KF648130
A/California/52/2011	12/28/11	KC891326
A/California/NHRC414615/2013	12/4/13	KJ538507
A/California/NHRC417059/2013	12/30/13	KJ635895
A/California/NHRC417074/2013	12/30/13	KJ635897
A/California/NHRC417252/2013	12/23/13	KJ635905
A/California/NHRC417255/2013	12/23/13	KJ635911
A/California/NHRC417583/2013	12/26/13	KJ635907
A/California/NHRC418267/2014	1/6/14	KJ635899
A/California/NHRC418270/2013	12/30/13	KJ635915
A/California/NHRC418282/2013	12/23/13	KJ635913
A/California/NHRC419631/2014	1/14/14	KJ889265
A/California/NHRC419698/2014	1/16/14	KJ889267
A/California/NHRC420942/2014	1/12/14	KJ889277
A/California/NHRC421018/2014	1/17/14	KJ889269
A/California/NHRC423907/2014	1/29/14	KJ889259
A/California/VRDL10/2010	2/11/10	CY063181
A/California/VRDL12/2009	6/15/09	CY055457
A/California/VRDL126/2009	12/22/09	CY066385

A/California/VRDL13/2010	1/25/10	CY063205
A/California/VRDL74/2009	8/10/09	CY055496
A/California/VRDL91/2009	10/17/09	CY063101
A/Chicago/WRAIR1691P/2009	10/14/09	CY083497
A/Chicago/YGA/04019/2012	12/7/12	CY171161
A/Chicago/YGA/04123/2012	12/30/12	CY171545
A/Colorado/02/2011	1/24/11	KC881889
A/Colorado/03/2013	3/23/13	KF648000
A/Colorado/03/2014	1/8/14	503797
A/Colorado/04/2011	3/23/11	KC881657
A/Colorado/05/2014	3/10/14	517084
A/Colorado/11/2010	12/29/10	KC882365
A/Colorado/12/2012	3/21/12	KC891345
A/Colorado/13/2009	10/6/09	KC780928
A/Connecticut/01/2011	1/12/11	KC881633
A/Connecticut/02/2010	4/5/10	KC781220
A/Connecticut/02/2013	7/6/13	KF648006
A/Connecticut/05/2014	1/19/14	517042
A/Connecticut/08/2011	4/2/11	KC882193
A/Connecticut/13/2009	9/13/09	KC781826
A/Delaware/01/2010	1/15/10	KC781919
A/Delaware/01/2012	1/22/12	KC891456
A/Delaware/01/2014	2/5/14	515375
A/Delaware/02/2009	4/28/09	GQ160593
A/Delaware/03/2012	2/12/12	KC891502
A/Delaware/03/2014	2/13/14	516343
A/Delaware/05/2014	2/21/14	516321
A/District of Columbia/04/2011	2/12/11	KC881693
A/District of Columbia/INS29/2009	10/26/09	CY056110
A/District of Columbia/INS33/2009	10/26/09	CY056126
A/District of Columbia/INS43/2009	10/26/09	CY056182

A/District of Columbia/INS601/2011	1/13/11	CY129880
A/District of Columbia/WRAIR0309/2010	12/30/10	CY097839
A/District of Columbia/WRAIR0310/2010	8/27/10	CY097847
A/Durham/INS3/648/2012	3/8/12	CY176532
A/Florida/01/2012	1/3/12	KC891377
A/Florida/02/2010	2/2/10	KC780539
A/Florida/02/2013	1/23/13	KF648133
A/Florida/03/2011	1/4/11	KC881604
A/Florida/04/2010	3/18/10	KC781431
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A/Florida/06/2012	2/27/12	JX905423
A/Florida/07/2013	2/26/13	KF647965
A/Florida/07/2014	1/9/14	504774
A/Florida/08/2011	2/3/11	KC881885
A/Florida/10/2013	3/11/13	KF648126
A/Florida/13/2012	4/3/12	KC891223
A/Florida/15/2012	5/1/12	KC891441
A/Florida/16/2013	6/19/13	KF647944
A/Florida/17/2013	5/7/13	KF647948
A/Florida/17/2014	2/14/14	517081
A/Florida/18/2013	6/15/13	KF647956
A/Florida/19/2011	5/24/11	KC881595
A/Florida/19/2013	7/2/13	KF647955
A/Florida/20/2013	7/7/13	KF648017
A/Florida/22/2013	5/2/13	KF648086
A/Florida/27/2011	10/30/11	KC891200
A/Florida/31/2009	12/10/09	KC780221
A/Florida/38/2012	8/25/12	KF647907
A/Florida/38/2013	8/20/13	KJ136250
A/Florida/57/2012	12/12/12	KF648277
A/Gainesville/03/2014	1/12/14	KJ645788

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A/Gainesville/05/2014	1/15/14	KJ645771
A/Gainesville/06/2014	1/19/14	KJ645790
A/Gainesville/07/2014	2/7/14	KJ645791
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A/Gainesville/09/2013	12/12/13	KJ645786
A/Gainesville/10/2013	12/30/13	KJ645787
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A/Georgia/02/2011	3/5/11	KC881675
A/Georgia/02/2013	4/8/13	KF648191
A/Georgia/06/2012	2/24/12	KC891287
A/Georgia/07/2010	2/6/10	KC781283
A/Georgia/07/2012	3/5/12	KC891290
A/Georgia/08/2012	3/7/12	KC891253
A/Georgia/09/2012	2/24/12	KC891348
A/Georgia/21/2010	11/15/10	KC882152
A/Georgia/23/2009	9/11/09	KC781674
A/Georgia/25/2010	12/31/10	KC882077
A/Hawaii/01/2010	1/3/10	KC781237
A/Hawaii/01/2013	5/28/13	KF648226
A/Hawaii/01/2014	2/3/14	524289
A/Hawaii/02/2010	1/2/10	KC781434
A/Hawaii/03/2014	2/22/14	534034
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A/Hawaii/05/2010	3/30/10	KC780259
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A/Houston/JMM/148/2013	1/15/13	CY183331
A/Houston/JMM/152/2013	2/5/13	CY186045
A/Houston/JMM/155/2013	1/21/13	CY186069
A/Houston/JMM/159/2013	2/8/13	CY186101
A/Houston/JMM/163/2013	1/30/13	CY186133
A/Houston/JMM/171/2013	1/27/13	CY186189
A/Houston/JMM/64/2012	12/12/12	CY182715
A/Houston/JMM/93/2012	12/28/12	CY182931
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A/Idaho/15/2012	4/18/12	KC891330
A/Idaho/15/2012	4/18/12	KC891334
A/Idaho/16/2012	5/1/12	KC891155
A/Illinois/01/2012	1/25/12	KC891564
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A/Illinois/02/2013	3/11/13	KF647973
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A/Illinois/04/2012	2/29/12	KC891140
A/Illinois/05/2012	3/2/12	KC891137

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A/Illinois/07/2012	3/12/12	KC891131
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A/Illinois/NHRC414456/2013	11/25/13	KJ538511
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A/Illinois/NHRC415712/2013	12/12/13	KJ538495
A/Illinois/NHRC415715/2013	12/12/13	KJ538523
A/Illinois/NHRC415721/2013	12/6/13	KJ538503
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A/Indiana/02/2013	1/14/13	KF648125
A/Indiana/03/2013	2/2/13	KF648197
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A/Indiana/06/2010	7/29/10	KC882027
A/Indiana/07/2011	2/7/11	KC882363
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A/Indiana/12/2013	7/3/13	KF648050
A/Indiana/167/2012	11/25/12	KF648009
A/Indiana/22/2013	8/13/13	KF648167
A/Iowa/03/2013	5/11/13	KF647902
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A/Iowa/09/2012	3/17/12	KC891175
A/Iowa/10/2009	10/26/09	KC780982
A/Iowa/11/2012	4/12/12	KC891229
A/Iowa/12/2012	4/14/12	KC891186
A/Iowa/18/2010	12/23/10	KC882155
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A/Kansas/02/2011	1/19/11	KC881948
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A/Kentucky/02/2013	2/8/13	KF647929
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A/Kentucky/08/2012	3/29/12	KC891148
A/Kentucky/18/2009	9/2/09	KC782084
A/Kentucky/23/2012	12/25/12	KF648184
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A/Louisiana/03/2011	3/22/11	KC881811
A/Louisiana/03/2012	4/3/12	KC891154
A/Louisiana/05/2013	4/11/13	KF648159
A/Louisiana/07/2011	3/24/11	KC882415
A/Maine/01/2011	2/1/11	KC881762
A/Maine/01/2012	1/11/12	KC891361
A/Maine/02/2014	2/12/14	515359
A/Maine/03/2010	12/28/10	KC882254
A/Maine/03/2012	3/6/12	KC891240
A/Maine/03/2014	3/12/14	516328
A/Maine/06/2012	4/4/12	KC891122
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A/Maryland/02/2013	1/4/13	KF647930
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A/Maryland/07/2011	2/25/11	KC882335
A/Maryland/08/2014	2/21/14	524290
A/Maryland/09/2014	3/8/14	524291
A/Maryland/11/2014	3/31/14	531895
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A/Maryland/21/2012	7/12/12	KC891214
A/Maryland/31/2012	9/24/12	KF648033
A/Maryland/33/2009	7/14/09	KC782051
A/Maryland/37/2012	11/8/12	KF647921
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A/Massachusetts/03/2010	9/2/10	KC781235
A/Massachusetts/04/2011	1/8/11	KC882070
A/Massachusetts/05/2012	3/12/12	KC891423
A/Massachusetts/10/2013	6/30/13	KF647950
A/Michigan/01/2012	3/4/12	KC891103
A/Michigan/02/2010	2/24/10	KC781257
A/Michigan/02/2011	2/23/11	KC882146
A/Michigan/02/2014	1/8/14	503829
A/Michigan/04/2014	3/25/14	531890
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A/Minnesota/01/2014	1/3/14	515733
A/Minnesota/02/2010	2/17/10	KC782002
A/Minnesota/02/2013	3/1/13	KF647972
A/Minnesota/03/2014	3/16/14	517090
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A/Minnesota/15/2010	12/5/10	KC882166
A/Minnesota/16/2012	10/29/12	KF647954
A/Minnesota/34/2012	12/20/12	KF648181
A/Mississippi/07/2011	2/23/11	KC881678
A/Missouri/01/2010	12/21/10	KC882256
A/Missouri/01/2014	1/13/14	508758
A/Missouri/03/2010	11/30/10	KC882072
A/Missouri/03/2012	1/18/12	KC891459
A/Missouri/03/2013	2/5/13	KF647926
A/Missouri/04/2012	2/6/12	KC891030
A/Missouri/06/2014	4/21/14	531854
A/Missouri/NHRC419710/2014	1/10/14	KJ889273
A/Montana/01/2010	4/4/10	KC782117
A/Montana/01/2014	1/8/14	503838
A/Montana/03/2014	3/18/14	516294
A/Montana/06/2011	3/3/11	KC882200
A/Montana/09/2012	3/26/12	KC891226
A/Nebraska/01/2010	1/28/10	KC780448
A/Nebraska/02/2010	3/11/10	KC781400
A/Nebraska/05/2013	2/6/13	KF647958
A/Nebraska/06/2012	2/9/12	KC891475
A/Nebraska/10/2011	3/3/11	KC882228
A/Nebraska/13/2009	8/6/09	KC781473
A/Nevada/01/2014	1/1/14	504785
A/Nevada/02/2014	1/2/14	503841

A/Nevada/05/2011	2/13/11	KC882068
A/Nevada/06/2012	1/23/12	KC891490
A/Nevada/06/2013	7/23/13	KF648121
A/Nevada/11/2012	3/3/12	KC891271
A/Nevada/17/2012	4/4/12	KC891160
A/New Hampshire/01/2010	1/3/10	KC780573
A/New Hampshire/03/2010	10/4/10	KC881852
A/New Hampshire/03/2012	1/30/12	KC891469
A/New Hampshire/04/2014	1/31/14	515400
A/New Hampshire/05/2014	1/30/14	515366
A/New Hampshire/06/2014	2/10/14	515397
A/New Hampshire/07/2012	3/10/12	KC891442
A/New Hampshire/09/2012	4/11/12	KC891117
A/New Hampshire/20/2012	11/24/12	KF647995
A/New Jersey/02/2012	1/17/12	KC891411
A/New Jersey/03/2012	5/2/12	KC891189
A/New Jersey/04/2013	3/19/13	KF648040
A/New Jersey/05/2011	3/3/11	KC881696
A/New Jersey/07/2012	11/20/12	KF648127
A/New Jersey/11/2012	12/8/12	KF648055
A/New Jersey/NHRC403730/2013	6/18/13	KF928645
A/New Jersey/NHRC431112/2014	1/20/14	KJ889279
A/New Jersey/NHRC431116/2014	1/20/14	KJ889257
A/New Mexico/01/2010	1/5/10	KC781019
A/New Mexico/01/2012	1/26/12	KC891472
A/New Mexico/01/2013	1/4/13	KF648248
A/New Mexico/01/2014	1/6/14	509483
A/New Mexico/02/2010	2/1/10	KC780950
A/New Mexico/02/2013	1/6/13	KF648218
A/New Mexico/02/2013	1/6/13	KF648268
A/New Mexico/03/2014	1/24/14	513275

A/New Mexico/04/2011	2/7/11	KC881959
A/New Mexico/04/2014	2/10/14	515380
A/New Mexico/05/2012	3/6/12	KC891247
A/New Mexico/06/2011	2/21/11	KC881935
A/New Mexico/08/2011	4/19/11	KC882135
A/New Mexico/08/2012	3/29/12	KC891163
A/New Mexico/10/2011	3/29/11	KC882191
A/New Mexico/10/2012	4/30/12	KC891180
A/New Mexico/10/2013	4/10/13	KF648207
A/New Mexico/12/2009	10/21/09	KC780916
A/New Mexico/12/2012	4/9/12	KC891310
A/New Mexico/14/2012	5/3/12	KC891410
A/New York/01/2011	1/4/11	KC881761
A/New York/01/2014	1/1/14	503433
A/New York/02/2011	1/29/11	KC882086
A/New York/02/2013	1/22/13	KF648247
A/New York/0259/2009	12/26/09	CY062036
A/New York/03/2011	3/20/11	KC882008
A/New York/0357/2009	12/30/09	CY062052
A/New York/04/2010	2/25/10	KC781914
A/New York/04/2011	2/21/11	KC881930
A/New York/06/2014	2/3/14	515494
A/New York/07/2013	5/8/13	KF647904
A/New York/09/2011	4/13/11	KC882249
A/New York/11/2012	3/5/12	KC891114
A/New York/12/2012	3/7/12	KC891111
A/New York/13/2012	3/19/12	KC891108
A/New York/14/2010	12/9/10	KC881887
A/New York/14/2012	3/22/12	KC891105
A/New York/2175/2010	1/19/10	CY062100
A/New York/2372/2010	1/20/10	CY062108

A/New York/2648/2010	1/22/10	CY062124
A/New York/2876/2010	1/20/10	CY062132
A/New York/2960/2010	1/26/10	CY062140
A/New York/2971/2010	1/23/10	CY062156
A/New York/3002/2009	4/25/09	CY041615
A/New York/3209/2009	4/25/09	CY041543
A/New York/3230/2010	1/25/10	CY062164
A/New York/3247/2009	4/29/09	CY041728
A/New York/3250/2010	1/27/10	CY062180
A/New York/3251/2010	1/26/10	CY062188
A/New York/34/2012	4/17/12	KC891580
A/New York/36/2012	10/2/12	KF648258
A/New York/3681/2010	2/1/10	CY064997
A/New York/3683/2010	2/1/10	CY065013
A/New York/3740/2009	5/18/09	CY044090
A/New York/3866/2010	1/29/10	CY065037
A/New York/4438/2009	6/25/09	CY050184
A/New York/4476/2009	7/1/09	CY051569
A/New York/45/2012	12/2/12	KF648011
A/New York/4607/2009	7/14/09	CY051625
A/New York/4780/2009	8/18/09	CY051705
A/New York/4788/2009	8/21/09	CY052164
A/New York/4881/2009	9/12/09	CY052180
A/New York/4944/2009	9/23/09	CY056405
A/New York/4981/2009	10/5/09	CY056429
A/New York/5976/2009	11/9/09	CY056613
A/New York/6214/2009	11/16/09	CY056677
A/New York/6293/2009	11/16/09	CY056701
A/New York/6977/2009	12/11/09	CY061980
A/New York/7420/2010	1/2/10	CY065069
A/New York/7421/2009	12/6/09	CY065077

A/New York/7480/2010	3/1/10	CY065109
A/North Carolina/02/2014	1/1/14	508451
A/North Carolina/03/2014	1/12/14	508739
A/North Carolina/04/2012	1/23/12	KC891450
A/North Carolina/04/2014	2/16/14	509408
A/North Carolina/06/2012	2/7/12	KC891038
A/North Carolina/06/2014	2/10/14	516315
A/North Carolina/07/2013	4/9/13	KF648238
A/North Carolina/08/2013	7/24/13	KF648081
A/North Carolina/09/2011	1/20/11	KC881665
A/North Carolina/09/2012	3/1/12	KC891258
A/North Carolina/09/2013	8/27/13	KJ136253
A/North Carolina/11/2014	3/8/14	533999
A/North Carolina/16/2012	3/28/12	KC891151
A/North Carolina/18/2012	4/26/12	KC891217
A/North Carolina/20/2012	7/2/12	KC891048
A/North Carolina/29/2012	12/27/12	KF648064
A/North Carolina/38/2009	10/21/09	KC781002
A/North Dakota/01/2012	2/26/12	KC891097
A/North Dakota/01/2014	1/26/14	520463
A/Ohio/02/2011	1/11/11	KC881865
A/Ohio/02/2013	1/8/13	KF648101
A/Ohio/04/2011	2/1/11	KC882236
A/Ohio/04/2012	3/2/12	KC891431
A/Oklahoma/01/2011	1/4/11	KC881607
A/Oklahoma/02/2014	1/14/14	508746
A/Oklahoma/03/2012	3/5/12	KC891172
A/Oklahoma/03/2014	2/4/14	520457
A/Oklahoma/NHRC415703/2013	12/6/13	KJ538527
A/Oklahoma/NHRC415745/2013	12/13/13	KJ538499
A/Oklahoma/NHRC417098/2013	12/14/13	KJ635903

A/Oregon/01/2010	3/29/10	KC780913
A/Oregon/02/2010	9/7/10	KC881846
A/Oregon/02/2012	1/24/12	KC891058
A/Oregon/04/2011	2/7/11	KC882215
A/Oregon/04/2014	3/24/14	531863
A/Oregon/06/2012	3/27/12	KC891418
A/Oregon/08/2012	4/11/12	KC891232
A/Oregon/31/2009	8/12/09	KC781857
A/Pennsylvania/01/2011	1/22/11	KC881734
A/Pennsylvania/01/2013	1/18/13	KF647989
A/Pennsylvania/02/2011	2/22/11	KC882061
A/Pennsylvania/02/2014	1/22/14	509953
A/Pennsylvania/03/2010	3/2/10	KC781414
A/Pennsylvania/04/2011	3/13/11	KC882210
A/Pennsylvania/04/2013	2/14/13	KF647908
A/Pennsylvania/04/2014	1/28/14	510136
A/Pennsylvania/05/2013	4/9/13	KF648151
A/Pennsylvania/06/2012	3/17/12	KC891265
A/Pennsylvania/07/2011	2/28/11	KC881821
A/Pennsylvania/08/2012	4/16/12	KC891198
A/Pennsylvania/16/2011	12/19/11	KC891261
A/Pennsylvania/17/2010	11/16/10	KC881838
A/Pennsylvania/19/2014	1/21/14	516302
A/Pennsylvania/24/2014	3/11/14	517066
A/Pennsylvania/25/2012	11/23/12	KF647932
A/Pennsylvania/29/2014	4/5/14	531924
A/Pennsylvania/30/2012	12/4/12	KF648060
A/Pennsylvania/31/2012	12/18/12	KF648065
A/Pennsylvania/32/2012	12/19/12	KF648077
A/Rhode/Island/02/2012	2/29/12	KC891091
A/Rhode/Island/04/2012	3/21/12	KC891268

A/Rhode/Island/10/2012	12/5/12	KF648008
A/Rhode/Island/20/2009	11/9/09	KC780820
A/Rhode/Island/25/2009	12/30/09	KC780630
A/San Diego/INS214/2009	11/9/09	CY066785
A/San Diego/INS215/2009	11/10/09	CY066793
A/San Diego/INS217/2009	11/12/09	CY066809
A/San Diego/INS51/2009	10/12/09	CY056877
A/San Diego/WR1639P/2009	7/1/09	CY073412
A/San Diego/WRAIR1642P/2009	6/6/09	CY083258
A/San Diego/WRAIR1665P/2009	9/23/09	CY083409
A/Santa/Clara/YGA/03030/2013	1/8/13	CY170673
A/Santa/Clara/YGA/03031/2013	1/8/13	CY170681
A/Santa/Clara/YGA/03033/2013	1/15/13	CY170697
A/Santa/Clara/YGA/03053/2013	1/19/13	CY170841
A/Santa/Clara/YGA/03065/2013	1/26/13	CY170929
A/South Carolina/01/2013	7/10/13	KF648007
A/South Carolina/08/2012	2/27/12	KC891259
A/South Carolina/09/2009	4/26/09	GQ117053
A/South Carolina/10/2012	4/8/12	KC891125
A/South Carolina/13/2012	6/24/12	KC891207
A/South Carolina/15/2012	9/23/12	KF648030
A/South Carolina/18/2009	9/16/09	KC782212
A/South Carolina/19/2012	10/22/12	KF648242
A/South Carolina/20/2012	11/13/12	KF648275
A/South Carolina/3042/2012	10/3/12	CY130174
A/South Carolina/3043/2012	10/4/12	CY130177
A/South Carolina/NHRC361211/2012	9/21/12	KF928635
A/South Carolina/NHRC362333/2012	10/2/12	KF928611
A/South Carolina/NHRC362336/2012	9/26/12	KF928649
A/South Carolina/NHRC419441/2013	12/27/13	KJ889255
A/South Carolina/NHRC421026/2014	1/15/14	KJ889261

A/South Dakota/02/2014	3/9/14	517075
A/Tennessee/01/2010	2/23/10	KC782138
A/Tennessee/01/2013	1/9/13	KF648177
A/Tennessee/02/2012	2/2/12	KC891044
A/Tennessee/03/2013	3/26/13	KF648188
A/Tennessee/05/2012	3/5/12	KC891281
A/Tennessee/05/2014	2/17/14	531833
A/Tennessee/19/2009	12/16/09	KC780485
A/Tennessee/F1052A/2010	2/9/10	CY167334
A/Tennessee/F1068/2010	3/2/10	CY167382
A/Tennessee/F1076/2010	3/16/10	CY167422
A/Tennessee/F1076A/2010	3/19/10	CY167430
A/Tennessee/F1089/2010	3/24/10	CY167454
A/Tennessee/F1093A/2010	4/5/10	CY167462
A/Tennessee/F2014/2011	1/14/11	CY167494
A/Tennessee/F2026/2011	2/2/11	CY167550
A/Tennessee/F2026A/2011	2/4/11	CY167558
A/Tennessee/F2080c7879A/2011	3/25/11	CY167718
A/Tennessee/F2085/2011	3/17/11	CY167311
A/Texas/04/2012	1/9/12	KC891379
A/Texas/05/2012	1/15/12	KC891351
A/Texas/07/2013	1/5/13	KF648179
A/Texas/08/2009	4/24/09	GQ168632
A/Texas/08/2011	3/6/11	KC882218
A/Texas/08/2014	1/9/14	504771
A/Texas/10/2011	7/3/11	KC881590
A/Texas/10/2013	3/3/13	KF647970
A/Texas/13/2013	7/21/13	KF648078
A/Texas/15/2013	8/15/13	KF648171
A/Texas/18/2012	2/1/12	KC891465
A/Texas/21/2012	2/12/12	KC891013

A/Texas/22/2012	2/26/12	KC891094
A/Texas/23/2012	1/26/12	KC891508
A/Texas/24/2012	2/25/12	KC891512
A/Texas/26/2012	2/21/12	KC891545
A/Texas/29/2012	2/24/12	KC891499
A/Texas/30/2012	3/2/12	KC891277
A/Texas/31/2012	3/2/12	KC891526
A/Texas/33/2012	3/12/12	KC891518
A/Texas/34/2012	3/8/12	KC891525
A/Texas/35/2012	3/19/12	KC891521
A/Texas/36/2012	3/7/12	KC891421
A/Texas/37/2012	3/14/12	KC891434
A/Texas/42191647/2009	6/19/09	CY052236
A/Texas/43242018/2009	7/24/09	CY051825
A/Texas/45034157/2009	9/3/09	CY052609
A/Texas/46241654/2009	10/24/09	CY060837
A/Texas/47/2012	4/1/12	KC891166
A/Texas/48/2012	3/16/12	KC891560
A/Texas/49/2012	3/27/12	KC891554
A/Texas/69/2009	11/1/09	KC780177
A/Texas/90/2012	10/18/12	KF647928
A/Texas/99/2012	12/17/12	KF648058
A/Texas/JMM/52/2012	12/6/12	CY135110
A/Texas/JMM/53/2012	12/6/12	CY135118
A/Texas/JMS359/2009	11/7/09	CY060861
A/Texas/JMS363/2009	11/8/09	CY060885
A/Texas/JMS375/2009	11/23/09	CY058718
A/Texas/JMS405/2010	1/9/10	CY061125
A/Texas/JMS413/2010	2/3/10	CY061189
A/Utah/01/2012	1/17/12	KC891371
A/Utah/01/2013	1/20/13	KF648137

A/Utah/01/2014	1/5/14	509498
A/Utah/02/2010	2/10/10	KC780503
A/Utah/02/2011	1/18/11	KC881578
A/Utah/02/2014	2/7/14	515743
A/Utah/03/2014	1/24/14	515385
A/Utah/04/2013	2/3/13	KF648270
A/Utah/04/2014	2/5/14	515357
A/Utah/05/2013	4/14/13	KF648158
A/Utah/06/2012	2/2/12	KC891453
A/Utah/06/2013	5/12/13	KF648225
A/Utah/08/2012	2/1/12	KC891008
A/Utah/08/2013	8/5/13	KJ136193
A/Utah/09/2012	2/9/12	KC891041
A/Utah/10/2011	3/10/11	KC882206
A/Utah/11/2012	3/15/12	KC891349
A/Utah/16/2012	5/8/12	KC891312
A/Vermont/01/2010	2/4/10	KC782021
A/Vermont/02/2012	2/1/12	KC891383
A/Vermont/03/2012	2/6/12	KC891011
A/Vermont/03/2013	4/8/13	KF648155
A/Vermont/04/2011	1/14/11	KC882003
A/Vermont/30/2009	12/22/09	KC780294
A/Virginia/01/2011	2/15/11	KC881709
A/Virginia/01/2014	1/13/14	508748
A/Virginia/03/2014	1/21/14	508768
A/Virginia/04/2011	1/6/11	KC882332
A/Virginia/05/2014	2/10/14	520469
A/Virginia/07/2012	3/9/12	KC891342
A/Virginia/09/2014	4/7/14	531819
A/Virginia/11/2012	4/25/12	KC891195
A/Virginia/13/2012	8/21/12	KF648211

A/Virginia/27/2009	12/17/09	KC780428
A/Virginia/NHRC430739/2014	1/23/14	KJ889281
A/Virginia/NHRC430747/2014	1/18/14	KJ889275
A/Virginia/WRAIR1511P/2009	7/28/09	CY083242
A/Washington/02/2011	1/5/11	KC881610
A/Washington/05/2013	1/18/13	KF648260
A/Washington/06/2014	2/13/14	520460
A/Washington/07/2011	2/17/11	KC881855
A/Washington/08/2011	2/10/11	KC882212
A/Washington/09/2014	3/4/14	516730
A/Washington/14/2012	2/13/12	KC891079
A/Washington/15/2012	2/13/12	KC891082
A/Washington/19/2012	2/24/12	KC891284
A/Washington/22/2012	3/20/12	KC891169
A/Washington/24/2012	6/17/12	KC891403
A/Washington/34/2012	7/30/12	KC891211
A/Washington/44/2012	8/15/12	KC891053
A/West/Virginia/01/2011	1/1/11	KC881631
A/West/Virginia/02/2012	1/31/12	KC891033
A/Wisconsin/01/2010	1/24/10	KC780465
A/Wisconsin/02/2010	2/17/10	KC780523
A/Wisconsin/02/2012	1/10/12	KC891494
A/Wisconsin/02/2013	1/2/13	KF648109
A/Wisconsin/03/2010	3/12/10	KC781209
A/Wisconsin/04/2014	2/3/14	509439
A/Wisconsin/05/2010	4/1/10	KC781377
A/Wisconsin/06/2012	2/3/12	KC891478
A/Wisconsin/11/2011	2/25/11	KC882203
A/Wisconsin/11/2012	4/1/12	KC891120
A/Wisconsin/11/2013	6/23/13	KF647992
A/Wisconsin/12/2013	8/4/13	KF648068

A/Wisconsin/13/2013	9/5/13	KJ136256
A/Wisconsin/14/2012	5/24/12	KC891332
A/Wisconsin/16/2011	1/15/11	KC881645
A/Wisconsin/26/2011	10/16/11	KC891025
A/Wisconsin/45/2012	11/14/12	KF647931
A/Wisconsin/50/2009	9/14/09	KC781780
A/Wisconsin/629/D00008/2009	6/4/09	CY051049
A/Wisconsin/629/D00401/2009	12/8/09	CY058024
A/Wisconsin/629/D00426/2009	5/29/09	CY050929
A/Wisconsin/629/D00724/2009	6/1/09	CY050953
A/Wisconsin/629/D00941/2009	6/1/09	CY050961
A/Wisconsin/629/D00989/2009	5/17/09	CY050398
A/Wisconsin/629/D01092/2009	5/3/09	CY046277
A/Wisconsin/629/D01251/2009	5/4/09	CY046221
A/Wisconsin/629/D01482/2009	5/10/09	CY050446
A/Wisconsin/629/D01705/2009	5/3/09	CY046373
A/Wisconsin/629/D01773/2009	4/30/09	CY046261
A/Wisconsin/629/D01987/2009	9/7/09	CY057880
A/Wisconsin/629/D02028/2009	5/1/09	CY046493
A/Wisconsin/629/D02063/2009	6/18/09	CY051169
A/Wisconsin/629/D02220/2009	6/21/09	CY051185
A/Wisconsin/629/D02329/2009	10/31/09	CY058646
A/Wisconsin/629/D02337/2009	10/3/09	CY057552
A/Wisconsin/629/S0035/2009	5/26/09	CY051249
A/Wisconsin/629/S0086/2009	5/29/09	CY051257
A/Wisconsin/629/S0148/2009	6/2/09	CY051281
A/Wisconsin/629/S0173/2009	6/4/09	CY051289
A/Wisconsin/629/S0410/2009	6/23/09	CY051481
A/Wisconsin/629/S1416/2009	10/26/09	CY058326
A/Wyoming/01/2011	1/3/11	KC882260
A/Wyoming/02/2010	4/21/10	KC781149

A/Wyoming/06/2011	1/28/11	KC882126
A/Wyoming/06/2012	3/10/12	KC891274
A/Wyoming/09/2012	4/5/12	KC891145
A/Wyoming/23/2012	12/4/12	KF647936
A/Wyoming/31/2012	12/26/12	KF648070

Table S4. Pandemic H1N1 influenza A virus sequences (NP segment) used in this analysis (Fig. S5). Virus name, date of viral collection, and GenBank accession number for NA sequences from 206 influenza viruses collected in swine in the United States during 2009-2014 and 221 influenza viruses collected in humans in the United States during 2009-2014. Accession numbers beginning with '5' refer to the 34 NP sequences from human influenza viruses from 2013-2014 that were downloaded from the GISAID database (www.gisaid.org) to supplement the number of viruses from these underrepresented years.

Virus name	Date	Accession
A/swine/Arkansas/SG1321/2009(H1N1)	12/28/09	AHB51417
A/swine/Arkansas/SG1375/2011(H1N2)	8/17/11	AHB21833
A/swine/Arkansas/SG1376/2011(H1N2)	1/26/11	AHB21845
A/swine/Arkansas/SG1377/2011(H1N2)	4/29/11	AHB21857
A/swine/Arkansas/SG1378/2011(H1N2)	6/16/11	AHB21869
A/swine/Arkansas/SG1382/2011(H1N2)	6/14/11	AHB24579
A/swine/Arkansas/SG1383/2011(H1N2)	9/1/11	AHB21881
A/swine/Arkansas/SG1384/2011(H1N2)	7/13/11	AHB21893
A/swine/Arkansas/SG1499/2010(H1N1)	8/11/10	AHB23110
A/swine/California/A00968789/2013(H1N1)	1/15/13	AGI55593
A/swine/Colorado/A01203099/2011(H1N1)	12/22/11	AGF37711
A/swine/Illinois/02957/2010(H1N1)	1/26/10	AHB21798
A/swine/Illinois/A00843191/2013(H1N2)	9/19/13	AHB59487
A/swine/Illinois/A00857318a/2012(H3N2)	2/23/12	AFM47201
A/swine/Illinois/A00857322/2012(H1N2)	6/12/12	AHD25267
A/swine/Illinois/A00857325/2012(H1N2)	6/14/12	AGU69985
A/swine/Illinois/A00857328/2012(H1N2)	6/14/12	AGU69997
A/swine/Illinois/A01047363/2011(H1N2)	1/18/11	AFP99315
A/swine/Illinois/A01047977/2011(H1N1)	1/17/11	AFP99342
A/swine/Illinois/A01047982/2011(H1N1)	1/17/11	AFP99329
A/swine/Illinois/A01047984/2011(H1N1)	1/17/11	AFP99336
A/swine/Illinois/A01049905/2011(H1N1)	4/27/11	AFL56868
A/swine/Illinois/A01125988/2012(H1N2)	3/4/12	AFX69006
A/swine/Illinois/A01134200/2011(H1N1)	1/26/11	AFP99308

A/swine/Illinois/A01134559/2011(H1N1)	2/24/11	AGN51240
A/swine/Illinois/A01134580/2011(H1N2)	2/23/11	AGN51263
A/swine/Illinois/A01158947/2012(H1N2)	12/28/12	AGL51641
A/swine/Illinois/A01158960/2013(H1N1)	2/8/13	AGN51218
A/swine/Illinois/A01201076/2011(H3N2)	4/7/11	AFO83319
A/swine/Illinois/A01201077/2011(H3N2)	4/7/11	AGF37680
A/swine/Illinois/A01201606/2011(H3N2)	6/1/11	AEZ02295
A/swine/Illinois/A01201629/2011(H3N2)	6/7/11	AGC96250
A/swine/Illinois/A01201631/2011(H3N2)	6/7/11	AFO83320
A/swine/Illinois/A01202615/2011(H1N1)	9/28/11	AGF37698
A/swine/Illinois/A01202825/2011(H3N2)	11/9/11	AFM84253
A/swine/Illinois/A01203226/2012(H1N1)	2/1/12	AGG53603
A/swine/Illinois/A01215870/2013(H1N2)	5/28/13	AGR54574
A/swine/Illinois/A01241065/2012(H3N2)	1/16/12	AFM84302
A/swine/Illinois/A01241066/2012(H3N2)	1/16/12	AFM84309
A/swine/Illinois/A01241208/2012(H3N2)	1/24/12	AGG53624
A/swine/Illinois/A01241212/2012(H3N2)	1/24/12	AGJ73204
A/swine/Illinois/A01243094/2012(H1N2)	1/30/12	AFX69024
A/swine/Illinois/A01327396/2012(H3N2)	4/5/12	AGS42002
A/swine/Illinois/A01327868/2012(H3N2)	5/3/12	AGS42010
A/swine/Illinois/A01328594/2012(H1N2)	5/22/12	AGN51198
A/swine/Illinois/A01427144/2013(H3N2)	11/6/13	AHG27002
A/swine/Illinois/A01427261/2013(H1N1)	12/12/13	AHJ58102
A/swine/Illinois/A01427305/2013(H1N1)	12/23/13	AHJ58178
A/swine/Illinois/A01427335/2013(H1N1)	12/23/13	AHJ58166
A/swine/Illinois/A01427360/2013(H1N1)	12/30/13	AHJ58155
A/swine/Indiana/04254/2011(H1N2)	3/31/11	AHB21989
A/swine/Indiana/13TOSU0675/2013(H1N1)	7/1/13	AHX38987
A/swine/Indiana/13TOSU0680/2013(H1N1)	7/1/13	AHX38764
A/swine/Indiana/13TOSU0782/2013(H1N1)	7/1/13	AHX38472
A/swine/Indiana/13TOSU0796/2013(H1N1)	7/1/13	AHX39150

A/swine/Indiana/13TOSU0802/2013(H1N1)	7/1/13	AHX38427
A/swine/Indiana/13TOSU0815/2013(H1N1)	7/1/13	AHX38565
A/swine/Indiana/13TOSU0820/2013(H1N1)	7/1/13	AHX38635
A/swine/Indiana/13TOSU0824/2013(H1N1)	7/1/13	AHX39023
A/swine/Indiana/13TOSU0832/2013(H1N1)	7/1/13	AHX38647
A/swine/Indiana/13TOSU1051/2013(H1N1)	7/1/13	AHX38518
A/swine/Indiana/13TOSU1148/2013(H1N1)	7/1/13	AHX39046
A/swine/Indiana/13TOSU1154/2013(H1N1)	7/1/13	AHX38529
A/swine/Indiana/13TOSU1157/2013(H1N1)	7/1/13	AHX38507
A/swine/Indiana/13TOSU1159/2013(H1N1)	7/1/13	AHX39139
A/swine/Indiana/13TOSU1207/2013(H3N2)	7/1/13	AHX38670
A/swine/Indiana/13TOSU1217/2013(H3N2)	7/1/13	AHX38682
A/swine/Indiana/13TOSU1316/2013(H1N1)	8/1/13	AHX39116
A/swine/Indiana/A00968332/2011(H1N2)	4/7/11	AHI97933
A/swine/Indiana/A00968358/2012(H1N2)	2/8/12	AHI97839
A/swine/Indiana/A01049953/2011(H1N2)	5/7/11	AFL56888
A/swine/Indiana/A01202866/2011(H3N2)	11/16/11	AFM84260
A/swine/Indiana/A01202867/2011(H3N2)	11/16/11	AFN69209
A/swine/Indiana/A01203372/2012(H3N2)	4/3/12	AGG53617
A/swine/Indiana/A01260185/2013(H3N2)	1/3/13	AGU69875
A/swine/Indiana/A01260254/2013(H3N2)	3/20/13	AGS41553
A/swine/Iowa/13B092/2013(H1N2)	2/26/13	AGY42377
A/swine/Iowa/13B093/2013(H1N2)	2/26/13	AHA98548
A/swine/Iowa/13E078/2013(H1N1)	5/29/13	AHB73645
A/swine/Iowa/13E088/2013(H1N1)	5/29/13	AHB73716
A/swine/Iowa/13E100/2013(H1N1)	5/29/13	AHB73680
A/swine/Iowa/13H065/2013(H3N2)	8/28/13	AIG46273
A/swine/Iowa/13H072/2013(H1N2)	8/28/13	AHC69335
A/swine/Iowa/13H073/2013(H3N2)	8/28/13	AIG46295
A/swine/Iowa/13H076/2013(H3N2)	8/28/13	AIG46262
A/swine/Iowa/13H092/2013(H3N2)	8/28/13	AIG46284

A/swine/lowa/13TOSU0226/2013(H1N1)	7/1/13	AHX38404
A/swine/lowa/13TOSU0239/2013(H1N1)	7/1/13	AHX38554
A/swine/lowa/13TOSU0240/2013(H1N1)	7/1/13	AHX38788
A/swine/lowa/A01049750/2011(H3N2)	3/28/11	AEZ01178
A/swine/lowa/A01202554/2011(H1N1)	8/30/11	AGF37686
A/swine/lowa/A01202576/2011(H1N2)	9/8/11	AGF37692
A/swine/lowa/A01202613/2011(H3N2)	9/27/11	AFO83019
A/swine/lowa/A01202614/2011(H3N2)	9/27/11	AFN66932
A/swine/lowa/A01202657/2011(H3N2)	10/4/11	AFN66898
A/swine/lowa/A01202709/2011(H3N2)	10/19/11	AEY75629
A/swine/lowa/A01203121/2012(H3N2)	1/5/12	AFM84274
A/swine/lowa/A01203125/2012(H1N2)	1/6/12	AGI55634
A/swine/lowa/A01203196/2012(H3N2)	1/26/12	AFO38529
A/swine/lowa/A01203942/2012(H3N2)	10/2/12	AGC96263
A/swine/lowa/A01203943/2012(H3N2)	10/3/12	AGC96257
A/swine/lowa/A01267837/2012(H1N1)	10/17/12	AGG53664
A/swine/lowa/A01300445/2012(H3N2)	6/13/12	AHI97913
A/swine/lowa/A01301778/2012(H1N2)	9/7/12	AGG53683
A/swine/lowa/A01328941/2012(H1N1)	5/15/12	AGN51271
A/swine/lowa/SG1401/2011(H1N1)	10/5/11	AHB22001
A/swine/Kansas/10-91088/2010(H3N2)	12/30/10	AEL31703
A/swine/Kansas/11-101926/2011(H3N2)	1/19/11	AEL31704
A/swine/Kansas/11-104465/2011(H3N2)	2/16/11	AEL31705
A/swine/Kansas/11-104467/2011(H3N2)	2/16/11	AEL31706
A/swine/Kansas/11-107824/2011(H3N2)	3/18/11	AEL31707
A/swine/Kansas/11-109700/2011(H3N2)	4/2/11	AEL31708
A/swine/Kansas/11-110529/2011(H3N2)	4/8/11	AEL31709
A/swine/Kentucky/12TOSU1052/2012(H1N2)	11/5/12	AGK62588
A/swine/Kentucky/12TOSU1053/2012(H1N2)	11/5/12	AGK62636
A/swine/Kentucky/12TOSU1054/2012(H1N2)	11/5/12	AGK62528
A/swine/Kentucky/12TOSU1084/2012(H1N2)	11/5/12	AGK62648

A/swine/Kentucky/12TOSU1098/2012(H1N2)	11/5/12	AGK62600
A/swine/Kentucky/12TOSU1155/2012(H1N2)	11/5/12	AGK62516
A/swine/Kentucky/A01134742/2011(H1N1)	2/27/11	AGN51225
A/swine/Michigan/A01203498/2012(H3N2)	5/7/12	AGI55603
A/swine/Michigan/A01259034/2012(H3N2)	12/18/12	AGJ73212
A/swine/Minnesota/02979/2010(H1N1)	2/17/10	AEO91827
A/swine/Minnesota/0432/2010(H1N1)	2/10/10	AEV21635
A/swine/Minnesota/074A/2009(H1N1)	8/26/09	ADU85810
A/swine/Minnesota/12/2012(H1N2)	6/28/12	AFX68944
A/swine/Minnesota/130A/2009(H1N1)	9/1/09	ADU85811
A/swine/Minnesota/136B/2009(H1N1)	8/31/09	ADU85813
A/swine/Minnesota/165A/2009(H1N1)	8/28/09	ADU85815
A/swine/Minnesota/2/2012(H3N2)	6/5/12	AFS50173
A/swine/Minnesota/239105/2009(H3N2)	11/24/09	ADY80099
A/swine/Minnesota/239106/2010(H1N2)	5/5/10	ADY80110
A/swine/Minnesota/4/2012(H3N2)	6/6/12	AFS50199
A/swine/Minnesota/A00907733/2011(H3N2)	8/4/11	AFO83049
A/swine/Minnesota/A00907734/2011(H3N2)	8/4/11	AFO83050
A/swine/Minnesota/A01047396/2011(H3N2)	1/13/11	AFD32672
A/swine/Minnesota/A01047604/2010(H1N2)	12/7/10	ADZ96079
A/swine/Minnesota/A01049893/2011(H1N1)	4/26/11	AFL56855
A/swine/Minnesota/A01116365/2011(H1N1)	10/3/11	AIJ10930
A/swine/Minnesota/A01116381/2011(H3N2)	10/11/11	AFO83318
A/swine/Minnesota/A01125995/2012(H3N2)	3/8/12	AFN69255
A/swine/Minnesota/A01134332/2010(H1N2)	9/20/10	AGJ73163
A/swine/Minnesota/A01134815/2011(H1N1)	3/18/11	AGN51119
A/swine/Minnesota/A01201894/2011(H3N2)	7/5/11	AGF37749
A/swine/Minnesota/A01202471/2011(H1N2)	7/28/11	AGI55653
A/swine/Minnesota/A01202597/2011(H1N1)	9/16/11	AGJ73177
A/swine/Minnesota/A01203313/2012(H1N1)	3/1/12	AHG26491
A/swine/Minnesota/A01240127/2011(H3N2)	10/10/11	AGB84954

A/swine/Minnesota/A01240557/2011(H3N2)	12/13/11	AGF37718
A/swine/Minnesota/A01267908/2012(H1N1)	10/23/12	AGG53670
A/swine/Minnesota/A01270355/2012(H1N1)	9/26/12	AGN51279
A/swine/Minnesota/A01271731/2012(H3N2)	10/31/12	AGN51104
A/swine/Minnesota/A01279807/2012(H1N2)	12/10/12	AHG54806
A/swine/Minnesota/A01327763/2012(H3N2)	4/20/12	AGL51622
A/swine/Minnesota/A01327764/2012(H3N2)	4/20/12	AHA56938
A/swine/Minnesota/A01328944/2012(H1N2)	6/6/12	AGJ73269
A/swine/Minnesota/A01349281/2013(H1N2)	3/8/13	AHA56930
A/swine/Minnesota/SG1402/2011(H1N2)	10/6/11	AHB22013
A/swine/Missouri/A01203163/2012(H1N1)	1/17/12	AGI55622
A/swine/Missouri/A01240016/2011(H3N2)	11/15/11	AFN69242
A/swine/Missouri/A01240017/2011(H3N2)	11/15/11	AFN69248
A/swine/Missouri/A01241610/2012(H3N2)	2/14/12	AFN69230
A/swine/Nebraska/A01104010/2011(H3N2)	12/5/11	AFD32607
A/swine/Nebraska/A01104081/2014(H1N2)	5/12/14	AID70642
A/swine/Nebraska/A01116984/2011(H3N2)	11/3/11	AFP36155
A/swine/Nebraska/A01202501/2011(H1N2)	8/10/11	AHZ96080
A/swine/Nebraska/A01241114/2012(H3N2)	1/10/12	AFN69269
A/swine/Nebraska/A01241171/2012(H3N2)	1/16/12	AFM84295
A/swine/Nebraska/A01241785/2012(H3N2)	2/20/12	AGS42046
A/swine/Nebraska/A01300023/2012(H3N2)	6/12/12	AHI97889
A/swine/Nebraska/A01300032/2012(H3N2)	6/12/12	AHH00814
A/swine/Nebraska/A01327581/2012(H3N2)	4/16/12	AHA38255
A/swine/Nebraska/A01327747/2012(H3N2)	4/26/12	AGS41994
A/swine/North Carolina/A01048807/2011(H1N2)	11/15/11	AGF37666
A/swine/North Carolina/A01290378/2013(H1N1)	8/20/13	AHG54771
A/swine/North Carolina/SG1391/2011(H1N2)	3/30/11	AHB21965
A/swine/OH/9838/2011(H1N1)	2/21/11	AEF29004

A/swine/Ohio/13TOSU0733/2013(H1N1)	7/1/13	AHX38461
A/swine/Ohio/13TOSU0735/2013(H1N1)	7/1/13	AHX38215
A/swine/Ohio/13TOSU0736/2013(H1N1)	7/1/13	AHX38392
A/swine/Ohio/13TOSU0888/2013(H1N2)	7/1/13	AHX38346
A/swine/Ohio/13TOSU1238/2013(H3N2)	7/1/13	AHX38369
A/swine/Ohio/13TOSU1522/2013(H1N1)	8/1/13	AHX38658
A/swine/Ohio/13TOSU1529/2013(H1N1)	8/1/13	AHX38741
A/swine/Ohio/13TOSU1674/2013(H1N1)	8/1/13	AHX38450
A/swine/Ohio/13TOSU1948/2013(H1N1)	8/1/13	AHX38940
A/swine/Ohio/13TOSU1958/2013(H1N1)	8/1/13	AHX38540
A/swine/Ohio/13TOSU2106/2013(H1N1)	8/1/13	AHX38799
A/swine/Ohio/13TOSU2115/2013(H1N1)	8/1/13	AHX38857
A/swine/Ohio/13TOSU2130/2013(H3N2)	8/1/13	AHX38929
A/swine/Ohio/13TOSU2132/2013(H3N2)	8/1/13	AHX38311
A/swine/Oklahoma/02989/2010(H1N1)	3/12/10	AHB24446
A/swine/Oklahoma/SG1498/2010(H3N2)	11/11/10	AHB24826
A/swine/Pennsylvania/a01076502/2010(H3N2)	9/20/10	AFH41314
A/swine/Pennsylvania/a01076503/2010(H3N2)	9/20/10	AFH41304
A/swine/Texas/13TOSU0035/2013(H1N1)	2/1/13	AHX38577
A/swine/Texas/13TOSU0050/2013(H1N1)	2/1/13	AHX38204
A/swine/Texas/13TOSU6273/2013(H1N2)	10/1/13	AHX38287
A/swine/Texas/13TOSU6276/2013(H1N2)	10/1/13	AHX39058
A/swine/Texas/A01049555/2011(H3N2)	2/14/11	AEZ01176
A/swine/Texas/A01049556/2011(H3N2)	2/14/11	AEZ01177
A/swine/Texas/A01049914/2011(H3N2)	4/28/11	AEZ01179
A/swine/Texas/A01049915/2011(H3N2)	4/28/11	AEZ01180
A/swine/Texas/A01104003/2011(H1N1)	7/16/11	AEP33168
A/swine/Texas/A01104004/2011(H1N1)	7/16/11	AEP33158
A/swine/Texas/SG1380/2011(H1N1)	10/6/11	AHB22453
A/Alabama/01/2010	1/4/10	KC781899
A/Alabama/03/2010	3/1/10	KC781167

A/Alaska/01/2010	2/7/10	KC781386
A/Arizona/06/2009	4/28/09	GQ232036
A/Bethesda/NIH106/D14/2009	11/5/09	HQ263276
A/Boston/125/2009	6/17/09	CY064575
A/Boston/145/2009	7/9/09	CY063513
A/Boston/DOA08/2011	1/13/11	CY134468
A/Boston/DOA14/2011	1/19/11	CY111209
A/Boston/DOA2/099/2012	12/23/12	CY148319
A/Boston/DOA30/2011	1/27/11	CY134492
A/Boston/DOA34/2011	2/7/11	CY134500
A/Boston/DOA93/2012	3/26/12	CY125786
A/Boston/YGA/02024/2013	1/7/13	CY170258
A/Bronx/INS3/673/2012	3/6/12	CY176693
A/Bronx/INS3/674/2012	3/21/12	CY176701
A/Brooklyn/INS549/2011	3/24/11	CY129657
A/Brownsville/35H/2009	5/27/09	CY053249
A/Brownsville/35OS/2009	5/27/09	CY053241
A/Brownsville/43H/2009	6/2/09	CY053304
A/California/01/2014	1/6/14	509441
A/California/06/2010	4/5/10	KC780143
A/California/06/2014	2/3/14	511882
A/California/07/JRO08/2009	4/9/09	CY181412
A/California/08/2009	4/9/09	KC780063
A/California/20/2011	2/21/11	KC882267
A/California/59/2013	12/30/13	508612
A/California/NHRC0001/2011	1/28/11	CY092883
A/California/VRDL101/2009	11/5/09	CY063166
A/California/VRDL115/2009	12/4/09	CY066298
A/California/VRDL13/2010	1/25/10	CY063206
A/California/VRDL18/2009	6/22/09	CY055474
A/California/VRDL2/2010	1/11/10	CY066458

A/California/VRDL3/2010	1/19/10	CY066466
A/California/VRDL35/2009	7/5/09	CY054878
A/California/VRDL36/2009	9/24/09	CY054886
A/California/VRDL65/2009	8/10/09	CY055014
A/California/VRDL96/2009	10/29/09	CY063126
A/California/WR1320P/2009	8/7/09	CY071531
A/Chicago/YGA/04019/2012	12/7/12	CY171162
A/Chicago/YGA/04123/2012	12/30/12	CY171546
A/Colorado/03/2009	4/27/09	GQ117117
A/Colorado/07/2014	3/25/14	534008
A/Colorado/11/2010	12/29/10	KC882310
A/Dayton/INS3/634/2011	1/21/11	CY176445
A/Dayton/INS3/676/2012	3/12/12	CY176717
A/Delaware/04/2011	2/4/11	KC882309
A/Delaware/06/2011	2/4/11	KC882355
A/Delaware/08/2011	2/12/11	KC882410
A/District/of/Columbia/INS114/2009	11/4/09	CY062686
A/District/of/Columbia/INS22/2009	10/29/09	CY083650
A/District/of/Columbia/INS32/2009	10/26/09	CY064767
A/District/of/Columbia/INS527/2010	2/23/10	CY096597
A/District/of/Columbia/INS600/2011	1/10/11	CY129873
A/District/of/Columbia/INS601/2011	1/13/11	CY129881
A/District/of/Columbia/WRAIR0306/2010	12/28/10	CY097814
A/District/of/Columbia/WRAIR313/2011	1/28/11	CY090028
A/Florida/01/2014	1/3/14	503390
A/Florida/02/2010	2/2/10	KC780534
A/Florida/06/2012	2/27/12	JX905430
A/Gainesville/05/2014	1/15/14	KJ645770
A/Gainesville/08/2013	12/4/13	KJ645762
A/Georgia/F32551/2012	2/1/12	CY148262
A/Georgia/M5081/2012	2/1/12	CY147974

A/Georgia/NHRC0001/2011	1/27/11	CY092907
A/Georgia/T51700/2012	2/1/12	CY148254
A/Hawaii/03/2013	12/15/13	507523
A/Hawaii/03/2014	2/22/14	534029
A/Hawaii/04/2014	2/23/14	534021
A/Houston/14H/2009	5/1/09	CY053090
A/Houston/15H/2009	5/1/09	CY053106
A/Houston/22H/2009	5/4/09	CY053153
A/Houston/3OS/2009	5/18/09	CY052986
A/Houston/9OS/2009	5/21/09	CY051922
A/Houston/JMM/122/2013	1/8/13	CY183148
A/Illinois/NHRC0001/2011	1/26/11	CY092875
A/Indiana/03/2010	2/3/10	KC780692
A/Indiana/04/2011	1/19/11	KC882321
A/Iowa/01/2010	1/5/10	KC782018
A/Kentucky/09/2010	11/1/10	KC882051
A/Kentucky/136/2009	12/11/09	JX875026
A/Kentucky/180/2010	4/1/10	JX875032
A/Los/Angeles/INS423/2010	2/5/10	CY083820
A/Louisiana/07/2013	10/7/13	485772
A/Louisiana/13/2013	11/11/13	492798
A/Maryland/04/2011	2/2/11	KC882384
A/Maryland/04/2014	2/3/14	510138
A/Maryland/05/2009	4/29/09	GQ160561
A/Maryland/07/2011	2/25/11	KC882406
A/Maryland/08/2011	3/2/11	KC882396
A/Maryland/08/2013	10/7/13	508429
A/Maryland/13/2012	4/1/12	393750
A/Maryland/20/2013	11/29/13	501423
A/Massachusetts/15/2013	11/13/13	507646
A/Michigan/01/2010	1/27/10	KC781447

A/Michigan/03/2011	3/30/11	KC882279
A/Michigan/06/2009	5/2/09	GQ323503
A/Minneapolis/INS3/675/2012	2/27/12	CY176709
A/Minnesota/03/2011	2/18/11	KC881971
A/Minnesota/16/2009	8/28/09	KC782314
A/Mississippi/01/2009	5/13/09	KC781318
A/Mississippi/09/2013	10/12/13	503457
A/Mississippi/10/2013	10/21/13	507632
A/Mississippi/11/2013	11/4/13	492806
A/Mississippi/28/2013	12/7/13	498192
A/Mississippi/29/2013	11/18/13	498184
A/Missouri/02/2014	2/7/14	516716
A/Missouri/NHRC0001/2011	1/25/11	CY092420
A/Montana/01/2010	4/4/10	KC782122
A/Montana/03/2010	4/7/10	KC781286
A/Nevada/01/2014	1/1/14	503422
A/Nevada/24/2013	12/19/13	503450
A/New Hampshire/04/2013	9/17/13	498059
A/New Jersey/01/2010	1/1/10	KC780544
A/New Mexico/05/2011	2/9/11	KC881942
A/New Mexico/06/2011	2/21/11	KC881936
A/New York/03/2010	2/9/10	KC780457
A/New York/18/2009	4/25/09	FJ984352
A/New York/22/2009	4/24/09	GQ117019
A/New York/2598/2010	1/20/10	CY062117
A/New York/2648/2010	1/22/10	CY062125
A/New York/2960/2010	1/26/10	CY062141
A/New York/3186/2009	4/26/09	CY041173
A/New York/3265/2009	4/29/09	CY040865
A/New York/34/2012	4/17/12	KC891579
A/New York/3528/2009	5/19/09	CY044139

A/New York/3681/2010	2/1/10	CY064998
A/New York/3753/2009	6/1/09	CY047377
A/New York/3835/2010	1/27/10	CY065030
A/New York/3976/2009	6/8/09	CY052133
A/New York/4052/2009	6/9/09	CY045056
A/New York/4057/2009	6/8/09	CY045210
A/New York/4095/2009	6/12/09	CY050161
A/New York/4400/2009	6/25/09	CY051530
A/New York/4565/2009	7/8/09	CY051594
A/New York/4691/2009	6/30/09	CY051650
A/New York/4977/2009	10/3/09	CY055434
A/New York/4988/2009	10/6/09	CY056470
A/New York/58/2009	5/23/09	GQ338334
A/New York/5916/2009	11/6/09	CY056598
A/New York/6607/2009	11/24/09	CY056750
A/New York/6937/2009	12/11/09	CY061925
A/New York/6977/2009	12/11/09	CY061981
A/New York/INS317/2009	12/17/09	CY072321
A/New York/INS432/2010	1/14/10	CY072537
A/North Carolina/02/2011	1/27/11	KC881771
A/North Carolina/06/2011	1/20/11	KC882243
A/North Carolina/07/2011	1/15/11	KC881712
A/North Carolina/09/2011	1/20/11	KC881666
A/North Carolina/09/2012	3/1/12	KC891257
A/North Carolina/18/2012	4/26/12	KC891303
A/Oregon/04/2009	4/27/09	GQ338352
A/Pennsylvania/01/2014	1/12/14	511871
A/Pennsylvania/02/2011	2/22/11	KC881987
A/Pennsylvania/03/2014	1/22/14	509939
A/Pennsylvania/07/2013	10/2/13	507654
A/Rhode/Island/09/2013	12/22/13	503863

A/Rochester/INS599/2011	3/18/11	CY129538
A/San/Diego/INS05/2009	10/12/09	CY055983
A/San/Diego/INS08/2009	10/13/09	CY057337
A/San/Diego/INS09/2009	10/13/09	CY055999
A/San/Diego/INS103/2009	10/19/09	CY061246
A/San/Diego/INS218/2009	10/28/09	CY066818
A/San/Diego/INS65/2009	10/28/09	CY056934
A/San/Diego/WRAIR1665P/2009	9/23/09	CY083408
A/Santa/Clara/YGA/03030/2013	1/8/13	CY170674
A/Silver/Spring/WRAIRSP510P3/2009	6/18/09	CY073303
A/South Carolina/NHRC0002/2011	1/29/11	CY092899
A/South Carolina/WRAIR1645P/2009	7/17/09	CY097885
A/Springfield/INS3/652/2011	2/4/11	CY176565
A/Springfield/INS598/2011	2/16/11	CY129865
A/Tennessee/18/2009	10/10/09	KC782175
A/Tennessee/F1074/2010	3/15/10	CY167415
A/Tennessee/F2085/2011	3/17/11	CY167312
A/Texas/06/2009	4/23/09	FJ984384
A/Texas/07/2009	4/25/09	GQ117087
A/Texas/09/2011	3/1/11	KC881654
A/Texas/09/2014	1/18/14	507532
A/Texas/22/2012	2/26/12	KC891537
A/Texas/23/2012	1/26/12	KC891553
A/Texas/26/2012	2/21/12	KC891567
A/Texas/42281289/2009	6/28/09	CY052189
A/Texas/45091405/2009	9/9/09	CY052730
A/Texas/45103259/2009	9/10/09	CY052650
A/Texas/JMM/52/2012	12/6/12	CY135111
A/Texas/JMM/53/2012	12/6/12	CY135119
A/Texas/JMS392/2009	12/25/09	CY061054
A/Texas/JMS401/2010	1/3/10	CY061581

A/Texas/JMS402/2010	1/4/10	CY061110
A/Texas/JMS406/2010	1/10/10	CY061134
A/Texas/JMS407/2010	1/11/10	CY061142
A/Texas/JMS415/2010	2/6/10	CY061206
A/Utah/03/2010	3/8/10	KC781404
A/Utah/10/2013	10/29/13	487725
A/Virginia/01/2010	1/21/10	KC780580
A/Virginia/04/2011	1/6/11	KC882358
A/Virginia/06/2014	3/4/14	516304
A/Washington/01/2010	4/2/10	KC781294
A/Washington/05/2014	2/8/14	511893
A/Washington/07/2014	2/10/14	516414
A/Washington/24/2012	6/17/12	394885
A/Wisconsin/01/2010	1/24/10	KC780494
A/Wisconsin/02/2010	2/17/10	KC780520
A/Wisconsin/10/2009	5/4/09	GQ232072
A/Wisconsin/15/2011	2/14/11	KC881690
A/Wisconsin/16/2011	1/15/11	KC881644
A/Wisconsin/18/2011	2/6/11	KC881685
A/Wisconsin/629/D00396/2009	5/4/09	CY046878
A/Wisconsin/629/D00426/2009	5/29/09	CY050930
A/Wisconsin/629/D00888/2009	11/2/09	CY063278
A/Wisconsin/629/D01026/2009	5/28/09	CY046798
A/Wisconsin/629/D01521/2009	5/20/09	CY046734
A/Wisconsin/629/D01570/2009	11/5/09	CY057753
A/Wisconsin/629/D01591/2009	12/7/09	CY058399
A/Wisconsin/629/D01667/2009	11/29/09	CY090043
A/Wisconsin/629/D02028/2009	5/1/09	CY046494
A/Wisconsin/629/S0201/2009	6/8/09	CY051314
A/Wisconsin/629/S0222/2009	6/9/09	CY051346
A/Wisconsin/629/S1407/2009	10/22/09	CY057713

A/Wisconsin/629/S1433/2009

10/27/09 CY058623

A/Wurzburg/INS578/2010

1/18/10 CY129502

Table S5. Estimated transitions between humans and swine on HA MCC phylogeny, represented by ‘Markov jumps’. Values presented in Fig. S4.

	hu08-09	hu09-10	hu10-11	hu11-12	hu12-13	hu13-14	sw09-10	sw10-11	sw11-12	sw12-13	sw13-14
hu08-09	-	9.562	0.203	4.16E-02	0.113	4.03E-02	1.783	0.947	0.111	9.33E-02	3.98E-02
hu09-10	5.628	-	9.059	9.72E-02	0.568	9.65E-02	30.916	14.984	0.816	0.271	9.51E-02
hu10-11	6.10E-02	2.088	-	8.78	2.021	5.96E-02	0.11	9.322	2.448	0.105	6.02E-02
hu11-12	2.88E-02	3.04E-02	4.71E-02	-	7.181	0.29	3.46E-02	0.174	0.226	6.76E-02	3.44E-02
hu12-13	2.93E-02	2.93E-02	4.22E-02	0.75	-	12.807	3.38E-02	6.04E-02	9.09E-02	4.224	0.616
hu13-14	1.29E-02	1.41E-02	2.41E-02	1.95E-02	0.468	-	1.77E-02	3.94E-02	6.17E-02	5.28E-02	12.983
sw09-10	8.71E-02	1.292	0.272	7.43E-02	0.161	7.95E-02	-	5.141	1.49	0.542	7.42E-02
sw10-11	5.46E-02	7.59E-02	1.389	0.193	0.192	5.87E-02	0.369	-	2.696	0.634	6.54E-02
sw11-12	1.56E-02	1.75E-02	3.58E-02	7.74E-02	0.114	2.59E-02	2.30E-02	9.22E-02	-	8.11E-02	2.52E-02
sw12-13	2.07E-02	2.24E-02	4.01E-02	3.21E-02	0.101	3.17E-02	3.03E-02	6.81E-02	9.80E-02		0.955
sw13-14	1.53E-02	1.67E-02	3.50E-02	2.64E-02	9.46E-02	0.596	2.30E-02	5.50E-02	9.61E-02	9.21E-02	

Table S6. Estimated transitions between humans and swine, on NA MCC phylogeny, represented by 'Markov jumps'. Values presented in Fig. 2a.

	hu08-09	hu09-10	hu10-11	hu11-12	hu12-13	hu13-14	sw08-09	sw09-10	sw10-11	sw11-12	sw12-13	sw13-14
hu08-09	-	10.59	0.08	0.04	0.04	0.07	0.53	2.11	0.67	0.10	0.06	0.09
hu09-10	1.23	-	6.71	0.09	0.10	0.41	2.41	27.86	17.55	1.01	0.14	0.24
hu10-11	0.04	1.02	-	8.04	0.20	0.10	0.04	0.06	9.53	2.64	0.07	0.13
hu11-12	0.01	0.02	0.10	-	9.66	0.05	0.01	0.02	0.04	0.09	0.04	0.06
hu12-13	0.02	0.02	0.03	0.24	-	12.40	0.02	0.03	0.05	0.07	4.47	0.62
hu13-14	0.01	0.01	0.02	0.02	0.74	-	0.01	0.02	0.04	0.06	0.04	13.42
sw08-09	0.01	0.12	0.04	0.03	0.03	0.06	-	0.59	0.07	0.09	0.05	0.09
sw09-10	0.04	0.25	0.20	0.04	0.05	0.09	0.29	-	5.63	0.30	0.07	0.22
sw10-11	0.06	0.13	2.40	0.10	0.09	0.13	0.07	0.21	-	3.72	0.65	0.59
sw11-12	0.01	0.02	0.04	0.04	0.03	0.06	0.01	0.03	0.08	-	0.05	0.20
sw12-13	0.01	0.02	0.03	0.03	0.67	0.06	0.01	0.03	0.06	0.08	-	1.26
sw13-14	0.01	0.01	0.03	0.02	0.03	0.37	0.01	0.02	0.06	0.09	0.06	-

Table S7. Estimated transitions between humans and swine on NP MCC phylogeny represented by 'Markov jumps'. Values presented in Fig. 2b.

	hu08-09	hu09-10	hu10-11	hu11-12	hu12-13	hu13-14	sw08-09	sw09-10	sw10-11	sw11-12	sw12-13	sw13-14
hu08-09	-	7.29	0.10	0.03	0.04	0.04	0.10	0.37	0.84	0.29	0.08	0.07
hu09-10	0.82	-	5.31	0.04	0.05	0.05	1.01	4.62	0.89	0.49	0.08	0.07
hu10-11	0.04	0.05	-	3.07	1.82	0.08	0.04	0.07	3.74	0.90	0.09	0.09
hu11-12	0.02	0.03	0.04	-	0.06	0.76	0.02	0.03	0.06	0.10	0.08	0.07
hu12-13	0.01	0.01	0.03	0.02	-	1.98	0.01	0.01	0.04	0.08	0.06	0.06
hu13-14	0.00	0.01	0.02	0.01	0.09	-	0.00	0.01	0.04	0.07	0.05	0.05
sw08-09	0.02	1.00	0.04	0.03	0.04	0.04	-	1.19	0.47	0.64	0.08	0.08
sw09-10	0.05	0.06	0.88	0.06	0.07	0.07	0.16	-	4.87	2.08	0.57	0.10
sw10-11	0.04	0.05	0.93	0.05	0.06	0.06	0.04	0.21	-	27.83	1.80	1.22
sw11-12	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.04	0.26	-	12.39	0.91
sw12-13	0.01	0.01	0.03	0.02	0.03	0.03	0.01	0.02	0.04	1.03	-	2.34
sw13-14	0.00	0.01	0.02	0.02	0.03	0.03	0.00	0.01	0.04	0.09	0.91	-

Table S8. Evolutionary origins of each genome segment for 444 US swine viruses collected during 2009-2014.

Virus name	PB2	PB1	PA	HA	NP	NA	MP	NS
A/swine/Indiana/240218/2010/H1N2--2010-02-21	pdm	pdm	pdm	H1beta	trig	N2-1998	pdm	pdm
A/swine/North Carolina/SG1357/2010/H1N2--2010-01-13	pdm	pdm	pdm	H1delta1	trig	N2-1998	pdm	pdm
A/swine/Kansas/12-117893/2012/H1N2--2012-11-	pdm	pdm	pdm	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Minnesota/A01047604/2010/H1N2--2010-12-07	pdm	pdm	pdm	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Minnesota/A01116365/2011/H1N1--2011-10-03	pdm	pdm	pdm	H1delta2	pdm	pdm	pdm	pdm
A/swine/Minnesota/A01134332/2010/H1N2--2010-09-20	pdm	pdm	pdm	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Illinois/A01202615/2011/H1N1--2011-09-28	pdm	pdm	pdm	H1gam1	pdm	classical	pdm	pdm
A/swine/Iowa/A01202613/2011/H3N2--2011-09-27	pdm	pdm	pdm	H3	pdm	N2-2002	pdm	pdm
A/swine/Iowa/A01202614/2011/H3N2--2011-09-27	pdm	pdm	pdm	H3	pdm	N2-2002	pdm	pdm
A/swine/Minnesota/239106/2010/H1N2--2010-05-05	pdm	trig	pdm	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Kansas/11-107824/2011/H3N2--2011-03-18	pdm	trig	pdm	H3	pdm	N2-1998	pdm	pdm
A/swine/Minnesota/A01049893/2011/H1N1--2011-04-26	pdm	trig	pdm	H1gam1	pdm	classical	trig	pdm
A/swine/Illinois/A01049980/2011/H1N1--2011-05-17	pdm	pdm	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Illinois/A01049981/2011/H1N1--2011-05-17	pdm	pdm	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Illinois/A01158996/2013/H1N1--2013-05-02	pdm	pdm	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Illinois/A01227424/2013/H1N1--2013-09-06	pdm	pdm	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Illinois/A01301791/2012/H1N1--2012-09-14	pdm	pdm	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Illinois/A01427210/2013/H1N1--2013-11-26	pdm	pdm	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Iowa/A01049894/2011/H1N1--2011-04-26	pdm	pdm	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Iowa/A01049950/2011/H1N1--2011-05-06	pdm	pdm	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Iowa/A01202023/2011/H1N1--2011-05-26	pdm	pdm	pdm	H1gam1	trig	classical	pdm	trig
A/swine/North Dakota/A01104053/2012/H1N1--2012-10-26	pdm	pdm	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Pennsylvania/a01076502/2010/H3N2--2010-09-20	pdm	pdm	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Pennsylvania/a01076503/2010/H3N2--2010-09-20	pdm	pdm	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Illinois/A00857135/2011/H1N1--2011-10-07	pdm	trig	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Illinois/A00857317F/2012/H1N1--2012-01-25	pdm	trig	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Illinois/A01104011/2012/H1N1--2012-01-25	pdm	trig	pdm	H1gam1	trig	classical	pdm	trig

A/swine/Illinois/A01104012/2012/H1N1--2012-01-25	pdm	trig	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Indiana/A01202866/2011/H3N2--2011-11-16	pdm	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Indiana/A01202867/2011/H3N2--2011-11-16	pdm	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Indiana/A01260185/2013/H3N2--2013-01-03	pdm	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Iowa/A01202709/2011/H3N2--2011-10-19	pdm	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Michigan/A01259034/2012/H3N2--2012-12-18	pdm	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Minnesota/2/2012/H3N2--2012-06-05	pdm	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Nebraska/A01116984/2011/H3N2--2011-11-03	pdm	trig	trig	H3	pdm	N2-1998	pdm	trig
A/swine/Illinois/A01201606/2011/H3N2--2011-06-01	trig	pdm	pdm	H3	pdm	N2-2002	pdm	pdm
A/swine/Illinois/A01201629/2011/H3N2--2011-06-07	trig	pdm	pdm	H3	pdm	N2-2002	pdm	pdm
A/swine/Illinois/A01201631/2011/H3N2--2011-06-07	trig	pdm	pdm	H3	pdm	N2-2002	pdm	pdm
A/swine/Iowa/A01203196/2012/H3N2--2012-01-26	trig	pdm	pdm	H3	pdm	N2-2002	pdm	pdm
A/swine/Iowa/A01203942/2012/H3N2--2012-10-02	trig	pdm	pdm	H3	pdm	N2-2002	pdm	pdm
A/swine/Minnesota/A01201894/2011/H3N2--2011-07-05	trig	pdm	pdm	H3	pdm	N2-2002	pdm	pdm
A/swine/Missouri/A01240016/2011/H3N2--2011-11-15	trig	pdm	pdm	H3	pdm	N2-2002	pdm	pdm
A/swine/Missouri/A01240017/2011/H3N2--2011-11-15	trig	pdm	pdm	H3	pdm	N2-2002	pdm	pdm
A/swine/Iowa/A01202576/2011/H1N2--2011-09-08	trig	trig	pdm	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Iowa/A01203125/2012/H1N2--2012-01-06	trig	trig	pdm	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Iowa/A01301778/2012/H1N2--2012-09-07	trig	trig	pdm	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Minnesota/A01202471/2011/H1N2--2011-07-28	trig	trig	pdm	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Wisconsin/A01203142/2012/H1N1--2012-01-11	trig	trig	pdm	H1gam1	pdm	classical	pdm	pdm
A/swine/Illinois/A01202825/2011/H3N2--2011-11-09	trig	trig	pdm	H3	pdm	N2-1998	pdm	pdm
A/swine/Iowa/A01300445/2012/H3N2--2012-06-13	trig	trig	pdm	H3	pdm	N2-1998	pdm	pdm
A/swine/Minnesota/A00907733/2011/H3N2--2011-08-04	trig	trig	pdm	H3	pdm	N2-1998	pdm	pdm
A/swine/Minnesota/A00907734/2011/H3N2--2011-08-04	trig	trig	pdm	H3	pdm	N2-1998	pdm	pdm
A/swine/Minnesota/A01116381/2011/H3N2--2011-10-11	trig	trig	pdm	H3	pdm	N2-1998	pdm	pdm
A/swine/Minnesota/A01240127/2011/H3N2--2011-10-10	trig	trig	pdm	H3	pdm	N2-1998	pdm	pdm
A/swine/Minnesota/A01327763/2012/H3N2--2012-04-20	trig	trig	pdm	H3	pdm	N2-1998	pdm	pdm
A/swine/Minnesota/A01327764/2012/H3N2--2012-04-20	trig	trig	pdm	H3	pdm	N2-1998	pdm	pdm
A/swine/Nebraska/A01300023/2012/H3N2--2012-06-12	trig	trig	pdm	H3	pdm	N2-1998	pdm	pdm
A/swine/Nebraska/A01300032/2012/H3N2--2012-06-12	trig	trig	pdm	H3	pdm	N2-1998	pdm	pdm

A/swine/North Carolina/226124/2010/H1N2--2010-09-08	trig	trig	trig	H1delta1	pdm	N2-1998	pdm	pdm
A/swine/North Carolina/226125/2010/H1N2--2010-09-08	trig	trig	trig	H1delta1	pdm	N2-1998	pdm	pdm
A/swine/North Carolina/226126/2010/H1N2--2010-09-08	trig	trig	trig	H1delta1	pdm	N2-1998	pdm	pdm
A/swine/Illinois/A00857322/2012/H1N2--2012-06-12	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Illinois/A00857325/2012/H1N2--2012-06-14	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Illinois/A00857328/2012/H1N2--2012-06-14	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Illinois/A01215870/2013/H1N2--2013-05-28	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Iowa/13B092/2013/H1N2--2013-02-26	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Iowa/13B093/2013/H1N2--2013-02-26	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	pdm
A/swine/Illinois/A01201076/2011/H3N2--2011-04-07	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Illinois/A01201077/2011/H3N2--2011-04-07	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Iowa/A01049750/2011/H3N2--2011-03-28	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Iowa/A01202657/2011/H3N2--2011-10-04	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Iowa/A01203121/2012/H3N2--2012-01-05	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Kansas/10-91088/2010/H3N2--2010-12-30	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Kansas/11-101926/2011/H3N2--2011-01-19	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Kansas/11-104465/2011/H3N2--2011-02-16	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Kansas/11-104467/2011/H3N2--2011-02-16	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Kansas/11-109700/2011/H3N2--2011-04-02	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Kansas/11-110529/2011/H3N2--2011-04-08	trig	trig	trig	H3	pdm	N2-2002	pdm	pdm
A/swine/Michigan/A01203498/2012/H3N2--2012-05-07	trig	trig	trig	H3	pdm	N2-2002	pdm	pdm
A/swine/Minnesota/A01240557/2011/H3N2--2011-12-13	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Missouri/A01241610/2012/H3N2--2012-02-14	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Nebraska/A01104010/2011/H3N2--2011-12-05	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Nebraska/A01241114/2012/H3N2--2012-01-10	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Nebraska/A01241171/2012/H3N2--2012-01-16	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Nebraska/A01241785/2012/H3N2--2012-02-20	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Nebraska/A01327581/2012/H3N2--2012-04-16	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Nebraska/A01327747/2012/H3N2--2012-04-26	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Oklahoma/SG1498/2010/H3N2--2010-11-11	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/Texas/A01049555/2011/H3N2--2011-02-14	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm

A/swine/Texas/A01049556/2011/H3N2--2011-02-14	trig	trig	trig	H3	pdm	N2-1998	pdm	pdm
A/swine/North Carolina/239108/2010/H1N2--2010-04-21	trig	pdm	pdm	H1delta1	trig	N2-1998	pdm	trig
A/swine/North Carolina/SG1360/2010/H1N2--2010-04-21	trig	pdm	pdm	H1delta1	trig	N2-1998	pdm	trig
A/swine/Iowa/A01202693/2011/H1N2--2011-10-10	trig	pdm	pdm	H1delta2	trig	N2-2002	pdm	trig
A/swine/Iowa/13H072/2013/H1N2--2013-08-28	trig	trig	pdm	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Minnesota/12/2012/H1N2--2012-06-28	trig	trig	pdm	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Minnesota/A01328944/2012/H1N2--2012-06-06	trig	trig	pdm	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Minnesota/SG1402/2011/H1N2--2011-10-06	trig	trig	pdm	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Nebraska/A01104081/2014/H1N2--2014-05-12	trig	trig	pdm	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Iowa/13C094/2013/H1N2--2013-03-26	trig	trig	pdm	H1delta2	trig	N2-2002	pdm	trig
A/swine/Iowa/13C095/2013/H1N2--2013-03-26	trig	trig	pdm	H1delta2	trig	N2-2002	pdm	trig
A/swine/Iowa/13C096/2013/H1N2--2013-03-26	trig	trig	pdm	H1delta2	trig	N2-2002	pdm	trig
A/swine/Iowa/13C097/2013/H1N2--2013-03-26	trig	trig	pdm	H1delta2	trig	N2-2002	pdm	trig
A/swine/Iowa/13C098/2013/H1N2--2013-03-26	trig	trig	pdm	H1delta2	trig	N2-2002	pdm	trig
A/swine/Iowa/13C099/2013/H1N2--2013-03-26	trig	trig	pdm	H1delta2	trig	N2-2002	pdm	trig
A/swine/Iowa/13C100/2013/H1N2--2013-03-26	trig	trig	pdm	H1delta2	trig	N2-2002	pdm	trig
A/swine/California/A00968789/2013/H1N1--2013-01-15	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Illinois/A01158960/2013/H1N1--2013-02-08	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Illinois/A01427335/2013/H1N1--2013-12-23	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Iowa/13E078/2013/H1N1--2013-05-29	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Iowa/13E088/2013/H1N1--2013-05-29	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Iowa/13E100/2013/H1N1--2013-05-29	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Iowa/A01267837/2012/H1N1--2012-10-17	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Iowa/A01328941/2012/H1N1--2012-05-15	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Minnesota/A01202597/2011/H1N1--2011-09-16	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Minnesota/A01203313/2012/H1N1--2012-03-01	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Minnesota/A01267908/2012/H1N1--2012-10-23	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Minnesota/A01270355/2012/H1N1--2012-09-26	trig	trig	pdm	H1gam1	pdm	classical	pdm	trig
A/swine/Illinois/A01227426/2013/H1N1--2013-09-06	trig	trig	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Michigan/A01259075/2013/H1N1--2013-09-11	trig	trig	pdm	H1gam1	trig	classical	pdm	trig
A/swine/Illinois/A01327396/2012/H3N2--2012-04-05	trig	trig	pdm	H3	pdm	N2-2002	pdm	trig

A/swine/Illinois/A01327868/2012/H3N2--2012-05-03	trig	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Illinois/A01427144/2013/H3N2--2013-11-06	trig	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Iowa/13H065/2013/H3N2--2013-08-28	trig	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Iowa/13H073/2013/H3N2--2013-08-28	trig	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Iowa/13H076/2013/H3N2--2013-08-28	trig	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Iowa/13H092/2013/H3N2--2013-08-28	trig	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Iowa/A01203943/2012/H3N2--2012-10-03	trig	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Minnesota/239105/2009/H3N2--2009-11-24	trig	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Minnesota/4/2012/H3N2--2012-06-06	trig	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Minnesota/A01271731/2012/H3N2--2012-10-31	trig	trig	pdm	H3	pdm	N2-2002	pdm	trig
A/swine/Illinois/A01116190/2011/H3N2--2011-08-25	trig	trig	pdm	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A00968359/2012/H3N2--2012-03-06	trig	trig	pdm	H3	trig	N2-2002	pdm	trig
A/swine/Iowa/13C019/2013/H3N2--2013-03-26	trig	trig	pdm	H3	trig	N2-2002	pdm	trig
A/swine/Iowa/13C020/2013/H3N2--2013-03-26	trig	trig	pdm	H3	trig	N2-2002	pdm	trig
A/swine/Iowa/13C029/2013/H3N2--2013-03-26	trig	trig	pdm	H3	trig	N2-2002	pdm	trig
A/swine/Iowa/13C038/2013/H3N2--2013-03-26	trig	trig	pdm	H3	trig	N2-2002	pdm	trig
A/swine/Iowa/13C044/2013/H3N2--2013-03-26	trig	trig	pdm	H3	trig	N2-2002	pdm	trig
A/swine/Iowa/13C075/2013/H3N2--2013-03-26	trig	trig	pdm	H3	trig	N2-2002	pdm	trig
A/swine/Iowa/A01202889/2011/H3N2--2011-11-18	trig	trig	pdm	H3	trig	N2-2002	pdm	trig
A/swine/Michigan/A01259074/2013/H3N2--2013-08-20	trig	trig	pdm	H3	trig	N2-2002	pdm	trig
A/swine/Minnesota/A01201424/2010/H3N2--2010-11-09	trig	trig	pdm	H3	trig	N2-2002	pdm	trig
A/swine/Nebraska/A01399268/2013/H3N2--2013-08-09	trig	trig	pdm	H3	trig	N2-1998	pdm	trig
A/swine/Mississippi/A01202593/2011/H1N1--2011-09-13	trig	trig	trig	H1beta	trig	classical	pdm	trig
A/swine/Arkansas/SG1375/2011/H1N2--2011-08-17	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Arkansas/SG1376/2011/H1N2--2011-01-26	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Arkansas/SG1377/2011/H1N2--2011-04-29	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Arkansas/SG1378/2011/H1N2--2011-06-16	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Arkansas/SG1382/2011/H1N2--2011-06-14	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Arkansas/SG1383/2011/H1N2--2011-09-01	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Arkansas/SG1384/2011/H1N2--2011-07-13	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Illinois/A00843191/2013/H1N2--2013-09-19	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig

A/swine/Illinois/A01047363/2011/H1N2--2011-01-18	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Illinois/A01047363/2011/H1N2--2011-01-18	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Illinois/A01125988/2012/H1N2--2012-03-04	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Illinois/A01134580/2011/H1N2--2011-02-23	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Illinois/A01134580/2011/H1N2--2011-02-23	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Illinois/A01158947/2012/H1N2--2012-12-28	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Illinois/A01243094/2012/H1N2--2012-01-30	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Illinois/A01328594/2012/H1N2--2012-05-22	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Indiana/04254/2011/H1N2--2011-03-31	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Indiana/A00968332/2011/H1N2--2011-04-07	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Indiana/A00968358/2012/H1N2--2012-02-08	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Indiana/A00968366/2012/H1N2--2012-07-12	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Indiana/A01049953/2011/H1N2--2011-05-07	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Indiana/A01049953/2011/H1N2--2011-05-07	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Minnesota/A01279807/2012/H1N2--2012-12-10	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Minnesota/A01349281/2013/H1N2--2013-03-08	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Nebraska/A01202501/2011/H1N2--2011-08-10	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/North Carolina/SG1391/2011/H1N2--2011-03-30	trig	trig	trig	H1delta2	pdm	N2-2002	pdm	trig
A/swine/Indiana/A01049964/2011/H1N2--2011-05-11	trig	trig	trig	H1delta2	trig	N2-2002	pdm	trig
A/swine/Indiana/A01202631/2011/H1N2--2011-10-01	trig	trig	trig	H1delta2	trig	N2-2002	pdm	trig
A/swine/Iowa/A01049970/2011/H1N2--2011-05-16	trig	trig	trig	H1delta2	trig	N2-2002	pdm	trig
A/swine/Iowa/A01202795/2011/H1N2--2011-11-02	trig	trig	trig	H1delta2	trig	N2-2002	pdm	trig
A/swine/Iowa/A01202795/2011/H1N2--2011-11-02	trig	trig	trig	H1delta2	trig	N2-2002	pdm	trig
A/swine/Kansas/12-156064/2012/H1N2--2012-12-	trig	trig	trig	H1delta2	trig	N2-2002	pdm	trig
A/swine/Minnesota/22/2012/H1N2--2012-09-21	trig	trig	trig	H1delta2	trig	N2-2002	pdm	trig
A/swine/Minnesota/3128/2010/H1N2--2010-09-24	trig	trig	trig	H1delta2	trig	N2-2002	pdm	trig
A/swine/Minnesota/A01301731/2012/H1N2--2012-08-28	trig	trig	trig	H1delta2	trig	N2-2002	pdm	trig
A/swine/Nebraska/A01104068/2013/H1N2--2013-10-28	trig	trig	trig	H1delta2	trig	N2-2002	pdm	trig
A/swine/Nebraska/A01104071/2013/H1N2--2013-10-31	trig	trig	trig	H1delta2	trig	N2-2002	pdm	trig
A/swine/Illinois/A01047982/2011/H1N1--2011-01-17	trig	trig	trig	H1gam1	pdm	classical	pdm	trig
A/swine/Illinois/A01047982/2011/H1N1--2011-01-17	trig	trig	trig	H1gam1	pdm	classical	pdm	trig

A/swine/Illinois/A01047984/2011/H1N1--2011-01-17	trig	trig	trig	H1gam1	pdm	classical	pdm	trig
A/swine/Illinois/A01047984/2011/H1N1--2011-01-17	trig	trig	trig	H1gam1	pdm	classical	pdm	trig
A/swine/Illinois/A01203226/2012/H1N1--2012-02-01	trig	trig	trig	H1gam1	pdm	classical	pdm	trig
A/swine/Illinois/A01427261/2013/H1N1--2013-12-12	trig	trig	trig	H1gam1	pdm	classical	pdm	trig
A/swine/Illinois/A01427305/2013/H1N1--2013-12-23	trig	trig	trig	H1gam1	pdm	classical	pdm	trig
A/swine/Illinois/A01427360/2013/H1N1--2013-12-30	trig	trig	trig	H1gam1	pdm	classical	pdm	trig
A/swine/Iowa/SG1401/2011/H1N1--2011-10-05	trig	trig	trig	H1gam1	pdm	classical	pdm	trig
A/swine/North Carolina/A01290378/2013/H1N1--2013-08-20	trig	trig	trig	H1gam1	pdm	classical	pdm	trig
A/swine/North Carolina/A01364596/2013/H1N1--2013-09-03	trig	trig	trig	H1gam1	pdm	classical	pdm	trig
A/swine/Illinois/A01158994/2013/H1N1--2013-05-03	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Illinois/A01328742/2012/H1N1--2012-05-24	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Indiana/A00968365/2012/H1N1--2012-07-07	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Indiana/A01243254/2012/H1N1--2012-03-14	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Indiana/A01260029/2012/H1N1--2012-09-26	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Indiana/A01260109/2012/H1N1--2012-11-08	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Indiana/A01260209/2013/H1N1--2013-01-18	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Iowa/A01203117/2012/H1N1--2012-01-05	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Michigan/A01203374/2012/H1N1--2012-04-02	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Minnesota/A01134336/2010/H1N1--2010-11-15	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Minnesota/A01241397/2012/H1N1--2012-02-02	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Ohio/25/2012/H1N1--2012-09-28	trig	trig	trig	H1gam1	trig	classical	pdm	trig
A/swine/Illinois/A00857318a/2012/H3N2--2012-02-23	trig	trig	trig	H3	pdm	N2-2002	pdm	trig
A/swine/Illinois/A01241065/2012/H3N2--2012-01-16	trig	trig	trig	H3	pdm	N2-1998	pdm	trig
A/swine/Illinois/A01241066/2012/H3N2--2012-01-16	trig	trig	trig	H3	pdm	N2-1998	pdm	trig
A/swine/Illinois/A01241208/2012/H3N2--2012-01-24	trig	trig	trig	H3	pdm	N2-1998	pdm	trig
A/swine/Illinois/A01241212/2012/H3N2--2012-01-24	trig	trig	trig	H3	pdm	N2-1998	pdm	trig
A/swine/Indiana/A01203372/2012/H3N2--2012-04-03	trig	trig	trig	H3	pdm	N2-2002	pdm	trig
A/swine/Indiana/A01260254/2013/H3N2--2013-03-20	trig	trig	trig	H3	pdm	N2-2002	pdm	trig
A/swine/Minnesota/A01047396/2011/H3N2--2011-01-13	trig	trig	trig	H3	pdm	N2-2002	pdm	trig
A/swine/Minnesota/A01125995/2012/H3N2--2012-03-08	trig	trig	trig	H3	pdm	N2-1998	pdm	trig
A/swine/NorthDakota/A01104084/2014/H3N2--2014-07-25	trig	trig	trig	H3	pdm	N2-2002	pdm	trig

A/swine/Texas/A01049914/2011/H3N2--2011-04-28	trig	trig	trig	H3	pdm	N2-1998	pdm	trig
A/swine/Texas/A01049915/2011/H3N2--2011-04-28	trig	trig	trig	H3	pdm	N2-1998	pdm	trig
A/swine/Illinois/A00843193/2014/H3N2--2014-01-03	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A00857304a/2012/H3N2--2012-01-05	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A00857304b/2012/H3N2--2012-01-05	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A01202978/2011/H3N2--2011-12-16	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A01240835/2012/H3N2--2012-01-03	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A01240836/2012/H3N2--2012-01-03	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A01241469/2012/H3N2--2012-02-08	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A01241842/2012/H3N2--2012-02-27	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A01241871/2012/H3N2--2012-02-29	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A01241916/2012/H3N2--2012-03-01	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A01327903/2012/H3N2--2012-05-08	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A01327905/2012/H3N2--2012-05-08	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Illinois/A01427136/2013/H3N2--2013-11-04	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A00968344/2011/H3N2--2011-09-08	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A00968364/2012/H3N2--2012-07-03	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A00968373/2012/H3N2--2012-07-13	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A00968376/2012/H3N2--2012-07-13	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A00968379/2012/H3N2--2012-07-13	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A00968380/2012/H3N2--2012-07-18	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A00968386/2012/H3N2--2012-07-26	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A00968394/2012/H3N2--2012-08-06	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A00968398/2012/H3N2--2012-08-06	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A01104030/2012/H3N2--2012-08-01	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A01202621/2011/H3N2--2011-09-28	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A01203521/2012/H3N2--2012-05-15	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A01260041/2012/H3N2--2012-10-	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A01260313/2013/H3N2--2013-06-21	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A01327213/2012/H3N2--2012-02-06	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Indiana/A01327215/2012/H3N2--2012-02-06	trig	trig	trig	H3	trig	N2-2002	pdm	trig

A/swine/lowa/13C040/2013/H3N2--2013-03-26	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/13E045/2013/H3N2--2013-05-29	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/13H068/2013/H3N2--2013-08-28	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/13H069/2013/H3N2--2013-08-28	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/13H075/2013/H3N2--2013-08-28	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/13H081/2013/H3N2--2013-08-28	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/13H082/2013/H3N2--2013-08-28	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/13H087/2013/H3N2--2013-08-28	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/13H094/2013/H3N2--2013-08-28	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/321160/2012/H3N2--2012-08-23	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/A01049034/2010/H3N2--2010-11-16	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/A01049035/2010/H3N2--2010-11-16	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/A01049036/2010/H3N2--2010-11-16	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/A01202529/2011/H3N2--2011-08-22	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/A01202530/2011/H3N2--2011-08-22	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/A01202573/2011/H3N2--2011-09-07	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/A01202639/2011/H3N2--2011-09-30	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/A01202640/2011/H3N2--2011-09-30	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/A01202878/2011/H3N2--2011-11-17	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/A01202879/2011/H3N2--2011-11-17	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/lowa/A01267939/2012/H3N2--2012-10-24	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Maryland/A01104040/2012/H3N2--2012-08-15	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Maryland/A01104048/2012/H3N2--2012-08-16	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Maryland/A01319694/2013/H3N2--2013-04-10	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Maryland/A01444460/2013/H3N2--2013-01-03	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Michigan/A01259003/2012/H3N2--2012-11-28	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Minnesota/A01301908/2012/H3N2--2012-09-02	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Montana/21/2012/H3N2--2012-09-14	trig	trig	trig	H3	trig	N2-1998	pdm	trig
A/swine/North Carolina/A01203272/2012/H3N2--2012-02-13	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/North Carolina/A01270394/2012/H3N2--2012-05-31	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/NY/A01104005/2011/H3N2--2011-09-13	trig	trig	trig	H3	trig	N2-2002	pdm	trig

A/swine/Ohio/1/2012/H3N2--2012-06-	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Ohio/6/2012/H3N2--2012-06-	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Ohio/7/2012/H3N2--2012-06-	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Ohio/A00138552/2012/H3N2--2012-09-02	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Ohio/A00152576/2012/H3N2--2012-08-15	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Ohio/A01133464/2012/H3N2--2012-08-03	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Ohio/A01133466/2012/H3N2--2012-08-06	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Ohio/A01203186/2012/H3N2--2012-01-24	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Ohio/A01208457/2012/H3N2--2012-08-07	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Ohio/A01349305/2013/H3N2--2013-03-12	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Pennsylvania/A01104049/2012/H3N2--2012-08-09	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Pennsylvania/A01104050/2012/H3N2--2012-08-09	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Pennsylvania/A01380412/2013/H3N2--2013-03-26	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Tennessee/A01104055/2012/H3N2--2012-10-25	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Texas/A01104013/2012/H3N2--2012-02-15	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Wisconsin/A00677500/2012/H3N2--2012-08-19	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Wyoming/A01379327/2013/H3N2--2013-03-29	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Wyoming/A01444560/2013/H3N2--2013-01-13	trig	trig	trig	H3	trig	N2-2002	pdm	trig
A/swine/Oklahoma/A01202498/2011/H1N2--2011-08-08	trig	trig	pdm	H1delta2	trig	N2-2002	trig	trig
A/swine/Texas/SG1380/2011/H1N1--2011-10-06	trig	trig	trig	H1beta	pdm	classical	trig	trig
A/swine/Colorado/SG1322/2009/H1N1--2009-08-26	trig	trig	trig	H1beta	trig	classical	trig	trig
A/swine/Illinois/02626/2009/H1N1--2009-01-29	trig	trig	trig	H1beta	trig	classical	trig	trig
A/swine/Minnesota/02817/2009/H1N1--2009-05-08	trig	trig	trig	H1beta	trig	classical	trig	trig
A/swine/MN/23506/2009/H1N1--2009-05-07	trig	trig	trig	H1beta	trig	classical	trig	trig
A/swine/Nebraska/A01240348/2011/H1N1--2011-11-16	trig	trig	trig	H1beta	trig	classical	trig	trig
A/swine/Nebraska/A01399642/2013/H1N1--2013-09-10	trig	trig	trig	H1beta	trig	classical	trig	trig
A/swine/Oklahoma/SG1251/2010/H1N1--2010-09-24	trig	trig	trig	H1beta	trig	classical	trig	trig
A/swine/Oklahoma/SG1325/2009/H1N1--2009-02-04	trig	trig	trig	H1beta	trig	classical	trig	trig
A/swine/Oklahoma/SG1349/2010/H1N1--2010-09-24	trig	trig	trig	H1beta	trig	classical	trig	trig
A/swine/Oklahoma/SG1500/2010/H1N1--2010-10-19	trig	trig	trig	H1beta	trig	classical	trig	trig
A/swine/North Carolina/A01048807/2011/H1N2--2011-11-15	trig	trig	trig	H1delta1	pdm	N2-1998	trig	trig

A/swine/Arkansas/02927/2009/H1N2--2009-12-02	trig	trig	trig	H1delta1	trig	N2-2002	trig	trig
A/swine/Kentucky/02564/2009/H1N2--2009-01-30	trig	trig	trig	H1delta1	trig	N2-2002	trig	trig
A/swine/Kentucky/02573/2009/H1N2--2009-02-10	trig	trig	trig	H1delta1	trig	N2-2002	trig	trig
A/swine/Michigan/A01259001/2012/H1N2--2012-09-27	trig	trig	trig	H1delta1	trig	N2-1998	trig	trig
A/swine/Missouri/SG1343/2009/H1N2--2009-09-16	trig	trig	trig	H1delta1	trig	N2-2002	trig	trig
A/swine/North Carolina/A01270393/2011/H1N2--2011-12-08	trig	trig	trig	H1delta1	trig	N2-1998	trig	trig
A/swine/North Carolina/SG1335/2009/H1N2--2009-01-20	trig	trig	trig	H1delta1	trig	N2-2002	trig	trig
A/swine/North Carolina/SG1359/2010/H1N2--2010-02-19	trig	trig	trig	H1delta1	trig	N2-1998	trig	trig
A/swine/North Carolina/SG1365/2010/H1N2--2010-10-29	trig	trig	trig	H1delta1	trig	N2-1998	trig	trig
A/swine/North Carolina/SG1388/2011/H1N2--2011-03-25	trig	trig	trig	H1delta1	trig	N2-1998	trig	trig
A/swine/North Carolina/SG1389/2011/H1N2--2011-03-18	trig	trig	trig	H1delta1	trig	N2-1998	trig	trig
A/swine/North Carolina/SG1394/2011/H1N2--2011-09-28	trig	trig	trig	H1delta1	trig	N2-1998	trig	trig
A/swine/Virginia/SG1386/2011/H1N2--2011-11-04	trig	trig	trig	H1delta1	trig	N2-1998	trig	trig
A/swine/Illinois/A01049952/2011/H1N2--2011-05-09	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Illinois/A01049952/2011/H1N2--2011-05-09	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Illinois/A01049968/2011/H1N2--2011-05-11	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Illinois/A01301796/2012/H1N2--2012-09-10	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Iowa/19/2012/H1N2--2012-09-10	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Iowa/A01328942/2012/H1N2--2012-05-18	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Kansas/11-104259/2011/H1N2--2011-12-	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Minnesota/02852/2009/H1N2--2009-06-05	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Minnesota/0745/2010/H1N2--2010-03-03	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Minnesota/A01134341/2010/H1N2--2010-05-04	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Minnesota/A01134353/2011/H1N2--2011-02-07	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Minnesota/A01134353/2011/H1N2--2011-02-07	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Minnesota/SG1370/2010/H1N2--2010-11-23	trig	trig	trig	H1delta2	trig	N2-1998	trig	trig
A/swine/Minnesota/SG1403/2011/H1N2--2011-09-27	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Mississippi/A01202799/2011/H1N2--2011-11-03	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Missouri/A01270665/2012/H1N2--2012-10-02	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig
A/swine/Nebraska/02866/2009/H1N2--2009-07-08	trig	trig	trig	H1delta2	trig	N2-1998	trig	trig
A/swine/Oklahoma/02722/2009/H1N2--2009-04-10	trig	trig	trig	H1delta2	trig	N2-2002	trig	trig

A/swine/Illinois/A01049905/2011/H1N1--2011-04-27	trig	trig	trig	H1gam1	pdm	classical	trig	trig
A/swine/Arkansas/SG1323/2009/H1N1--2009-10-12	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Illinois/02510/2009/H1N1--2009-01-12	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Illinois/02695/2009/H1N1--2009-03-31	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Illinois/A01134216/2011/H1N1--2011-01-31	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Illinois/A01134216/2011/H1N1--2011-01-31	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Illinois/A01240830/2011/H1N2--2011-12-30	trig	trig	trig	H1gam1	trig	N2-1998	trig	trig
A/swine/Indiana/A00968351/2011/H1N1--2011-10-06	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Indiana/A01202622/2011/H1N1--2011-09-28	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Indiana/A01203320/2012/H1N1--2012-03-06	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Michigan/A01202708/2011/H1N1--2011-10-18	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Minnesota/02905/2009/H1N1--2009-10-21	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Minnesota/A01134331/2010/H1N1--2010-11-22	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Minnesota/SG1340/2009/H1N1--2009-10-22	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Minnesota/SG1371/2010/H1N1--2010-11-19	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Minnesota/SG1404/2011/H1N1--2011-08-31	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Nebraska/A01327160/2012/H1N1--2012-03-19	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/North Carolina/SG1334/2009/H1N1--2009-01-20	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/North Carolina/SG1361/2010/H1N1--2010-06-18	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/North Carolina/SG1387/2011/H1N1--2011-09-30	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Virginia/A01202625/2011/H1N1--2011-09-29	trig	trig	trig	H1gam1	trig	classical	trig	trig
A/swine/Arkansas/02598/2009/H3N2--2009-02-12	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Arkansas/02863/2009/H3N2--2009-06-26	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Georgia/02604/2009/H3N2--2009-02-20	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/02907/2009/H3N2--2009-10-21	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/53612-2/2009/H3N2--2009-08-20	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/53612-3/2009/H3N2--2009-09-21	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/53612-6/2010/H3N2--2010-04-22	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01047009/2010/H3N2--2010-11-22	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01047014/2010/H3N2--2010-11-22	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01047183/2010/H3N2--2010-11-30	trig	trig	trig	H3	trig	N2-2002	trig	trig

A/swine/Illinois/A01047188/2010/H3N2--2010-11-30	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01047528/2010/H3N2--2010-12-02	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01047529/2010/H3N2--2010-12-02	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01057087/2010/H3N2--2010-04-28	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01076708/2010/H3N2--2010-11-01	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01076709/2010/H3N2--2010-11-01	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01076719/2010/H3N2--2010-11-01	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01076724/2010/H3N2--2010-11-01	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01076730/2010/H3N2--2010-11-01	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01076735/2010/H3N2--2010-11-01	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01076768/2010/H3N2--2010-10-26	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01076859/2010/H3N2--2010-11-11	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01201770/2011/H3N2--2011-06-19	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/A01271617/2012/H3N2--2012-10-30	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Indiana/A00968321/2010/H3N2--2010-10-18	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Indiana/A00968325/2010/H3N2--2010-12-17	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Indiana/A01049091/2010/H3N2--2010-11-18	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Indiana/A01049349/2010/H3N2--2010-12-29	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Indiana/A01049653/2011/H3N2--2011-03-08	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Indiana/A01049744/2011/H3N2--2011-03-23	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Indiana/A01049745/2011/H3N2--2011-03-23	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Iowa/03734/2011/H3N2--2011-01-24	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Iowa/13A016/2013/H3N2--2013-01-28	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Iowa/13G060/2013/H3N2--2013-07-19	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Iowa/A01049032/2010/H3N2--2010-11-16	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Iowa/A01049033/2010/H3N2--2010-11-16	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Iowa/A01049112/2010/H3N2--2010-11-22	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Iowa/A01049113/2010/H3N2--2010-11-22	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Iowa/A01049160/2010/H3N2--2010-11-30	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Iowa/A01049185/2010/H3N2--2010-12-01	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Iowa/A01049254/2010/H3N2--2010-12-09	trig	trig	trig	H3	trig	N2-2002	trig	trig

A/swine/lowa/A01049317/2010/H3N2--2010-12-22	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/lowa/A01057188/2010/H3N2--2010-05-24	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/lowa/A01076309/2010/H3N2--2010-09-20	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/lowa/A01076311/2010/H3N2--2010-09-20	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/lowa/A01076507/2010/H3N2--2010-10-04	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/lowa/A01076508/2010/H3N2--2010-10-04	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/lowa/A01202088/2011/H3N2--2011-06-16	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/lowa/A01202659/2011/H3N2--2011-10-06	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/lowa/A01203248/2012/H3N2--2012-02-09	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/lowa/A01243311/2012/H3N2--2012-04-23	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Kansas/015252/2009/H3N2--2009--	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Michigan/A01259000/2012/H3N2--2012-06-19	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Michigan/A01259002/2012/H3N2--2012-10-22	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Minnesota/02782/2009/H3N2--2009-05-07	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Minnesota/A01049346/2010/H3N2--2010-12-29	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Minnesota/A01049936/2011/H3N2--2011-05-03	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Minnesota/A01076196/2010/H3N2--2010-02-28	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Minnesota/A01076218/2010/H3N2--2010-08-01	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Minnesota/A01076531/2010/H3N2--2010-10-07	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Minnesota/A01076999/2010/H3N2--2010-09-22	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Minnesota/A01125992/2012/H3N2--2012-03-08	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Minnesota/A01134337/2010/H3N2--2010-11-17	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Minnesota/A01203517/2012/H3N2--2012-05-15	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Nebraska/A01049235/2010/H3N2--2010-12-07	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Nebraska/A01049937/2011/H3N2--2011-05-04	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Nebraska/A01116980/2011/H3N2--2011-11-02	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/North Carolina/03289/2011/H3N2--2011-01-07	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/North Carolina/A01049436/2011/H3N2--2011-01-19	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/North Carolina/A01076178/2009/H3N2--2009-12-06	trig	trig	trig	H3	trig	N2-1998	trig	trig
A/swine/North Carolina/A01076199/2010/H3N2--2010-03-14	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/North Carolina/A01076204/2010/H3N2--2010-04-18	trig	trig	trig	H3	trig	N2-2002	trig	trig

A/swine/North Carolina/A01076212/2010/H3N2--2010-06-27	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/North Carolina/A01202766/2011/H3N2--2011-10-20	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/North Carolina/SG1338/2009/H3N2--2009-02-06	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/North Carolina/SG1358/2010/H3N2--2010-09-24	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/North Carolina/SG1364/2010/H3N2--2010-11-24	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Oklahoma/001142/2009/H3N2--2009--	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Oklahoma/02530/2009/H3N2--2009-01-09	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Oklahoma/02985/2010/H3N2--2010-03-10	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Pennsylvania/A01076777/2010/H3N2--2010-10-25	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Pennsylvania/A01076779/2010/H3N2--2010-10-25	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Pennsylvania/A01201666/2011/H3N2--2011-06-14	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Texas/03042/2010/H3N2--2010-07-02	trig	trig	trig	H3	trig	N2-1998	trig	trig
A/swine/Texas/SG1501/2010/H3N2--2010-04-20	trig	trig	trig	H3	trig	N2-2002	trig	trig
A/swine/Illinois/02757/2009/H1N1--2009-04-28	trig	trig	trig	human	trig	human	trig	trig