

HISTORY OF INFLUENZA VACCINE COMPONENTS & CORRESPONDING CIRCULATING INFLUENZA STRAINS IN U.S.

<u>Year</u>	<u>Vaccine Components</u>	<u>Circulating Strains in U.S.</u>
1989-90		2777 (99.7%) Type A 99% type A (H3N2) 17 type A (H1N1) 8 (0.3%) Type B [MMWR 39 (10); (157-159)]
1990-91	A/Taiwan/1/86-like (H1N1) A/Shanghai/6/89 (H3N2) B/Yamagata/16/88-like [MMWR 39(27); 469]	7% of 2500+ isolates Type A 64 (54%) type A (H3N2) 54 (46%) type A (H1N1) 93% of 2500+ isolates Type B [MMWR 09140; 231-233, 239-240]
1991-92	A/Taiwan/1/86-like (H1N1) A/Beijing/353/89-like (H3N2) B/Panama/45/90-like [MMWR 40(41); 709-712] [MMWR 40(14); 231-233, 239-240]	5861 (99%) Type A 81% type A 19% type A (H1N1) [MMWR 41(18); 315-317, 323]
1992-93	A/Texas/36/91-like (H1N1) A/Beijing/353/89-like (H3N2) B/Panama/45/90-like [MMWR 41(18); 315-317, 323]	1166 (27%) Type A 569 (89%) type A (H3N2) 71 (11%) type A (H1N1) 3086 (73%) Type B [MMWR 42(20); 385-387]
1993-94	A/Texas/36/91-like (H1N1) A/Beijing/32/92-like (H3N2) B/Panama/45/90-like [MMWR 42(RR-6); 4]	3959 (99.9%) Type A 1899 subtyped; 1880 (99%) type A (H3N2) 4 (0.1%) Type B [MMWR 43(10); 179-183]
1994-95	A/Texas/36/91-like (H1N1) A/Shangdong/9/93-like (H3N2) B/Panama/45/90-like [MMWR 43(10); 179-183]	2554 (78%) Type A 1318 (99%) type A (H3N2) 19 (1%) type A (H1N1) 769 (22%) Type B [MMWR 44(15); 292-295]
1995-96	A/Texas/36/91-like (H1N1) A/Johannesburg/33/94-like (H3N2) B/Beijing/184/93-like [MMWR 44(15); 292-295]	2925 (99%) Type A 1188 (66%) type A (H1N1) 619 (34%) type A (H3N2) 40 (1%) Type B [MMWR 45(06); 134-136]

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1996-97	A/Texas/36/91-like (H1N1) A/Wuhan/359/95-like (H3N2) B/Beijing/184/93-like [MMWR 45 (RR-5); 3-4]	4714 (93%) Type A 1866 (100%) type A (H3N2) 336 (7%) Type B [MMWR 46(08); 173-176]
1997-98	A/Bayern/07/95-like (H1N1) A/Wuhan/359/95-like (H3N2) B/Beijing/184/93-like [MMWR 46 (RR-9); 3-4]	11439 (99.7%) Type A 2793 (99.8%) type A (H3N2) 6 (0.2%) type A (H1N1) 32 (0.3%) Type B [MMWR 47(140;280-284)]
1998-99	A/Beijing/262/95-like (H1N1) A/Sidney/5/95-like (H3N2) B/Beijing/184/93-like	10041 (77%) Type A 2481 (99%) type A (H3N2) 20 (1%) type A (H1N1) 2952 (23%) Type B [MMWR 48(18); 374-378]
1999-00	A/Beijing/262/95-like (H1N1) A/Sidney/5/97-like (H3N2) B/Beijing/184-93-like	13561 (99.5%) Type A 3622 (97%) type A (H3N2) 120 (3%) type A (H1N1) 62 (0.5%) Type B [MMWR 49(17); 375-381]
2000-01	A/New Caledonia/20/99-like (H1N1) A/Panama/2007/99-like (H3N2) B/Yamanashi/166/98-like	5337 (54%) Type A 2061 (97%) type A (H1N1) 66 (3%) type A (H3N2) 4625 (46%) Type B [MMWR 50(22); 466-470]
2001-02	A/New Caledonia/20/99-like (H1N1) A/Moscow/10/99-like (H3N2) B/Sichuan/379/99-like	13,706 (87%) Type A 4,420 (98%) type A (H3N2) 87 (2%) type A (H1N2) 1,965 (13%) Type B [MMWR 51(23);503-506]
2002-2003	A/New Caledonia/20/99-like (H1N1) A/Moscow/10/99-like (H3N2) B/Hong Kong/330/01	6,324 (57%) Type A 2,534 (75%) type A (H1N2) 847 (25%) type A (H3N2) 4,703 (43%) Type B [MMWR 52(22);516-521]
2003-2004	A/New Caledonia/20/99-like (H1N1) A/Moscow/10/99-like (H3N2) B/Hong Kong/330/01	24,393 (99.0%) Type A 7,189 (99.9%) type A (H3N2) 2 (0.1%) type A (H1N2) 249 (1.0%) Type B [MMWR 53(25);547-552]
2004-2005	A/New Caledonia/20/99-like (H1N1) A/Fujian/411/2002-like (H3N2) B/Shanghai/361/2002	17,750 (75.4%) Type A 5,801 (99.7%) type A (H3N2) 18 (0.3%) type A (H1N2) 5,799 (24.6%) Type B [MMWR 54(25);631-634]

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2005-2006	A/New Caledonia/20/99(H1N1) A/California/7/2004-like (H3N2) B/Shanghai/361/2002	14,093 (80.9%) Type A 5,231 (92.4%) type A (H3N2) 430 (7.6%) type A (H1N1) 3,321 (19.1%) Type B [MMWR 55(23);648-653]
2006-2007	A/New Caledonia/20/1999 (H1N1) A/Wisconsin/67/2005 (H3N2) B/Malaysia/2506/2004	18,392 (79.3%) Type A 3,872 (63.5%) type A (H1N1) 2,230 (36.5%) type A (H3N2) 4,789 (20.7%) Type B
2007-2008	A/Solomon Islands/3/2006-like (H1N1) A/Wisconsin/67/2005-like (H3N2) B/Malaysia/2506/2004-like	28,263 (71%) Type A 2,175 (26%) type A (H1) 6,115 (74%) type A (H3) 11,564 (29%) Type B
2008-2009	A/Brisbane/59/2007 (H1N1)-like A/Brisbane/10/2007 (H3N2)-like B/Florida/4/2006-like	18,229 (89.9%) Type A 6,692 (36.7%) type A (H1) 750 (4.7%) type A (H3) 14 (0.08%) type A (pH1N1) 9,619 (47.4%) Type B
Summer 2009		60,765 (97.4%) Type A 1,657 (2.7%) type A (H1) 3,487 (5.7%) type A (H3) 41,969 (69.1%) type A (pH1N1) 1,651 (2.6%) Type B
2009-2010	A/Brisbane/59/2007 (H1N1)-like A/Brisbane/10/2007 (H3N2)-like	80,951 (99.75%) Type A 29 (0.04%) type A (H1)
2018-2019	A/Michigan/45/2015 (H1N1)pdm09-like A/Singapore/INFIMH-16-0019/2016 (H3N2) B/Colorado/06/2017-like (Victoria lineage) B/Phuket/3073/2013-like (Yamagata lineage) (in quadrivalent)	40,624 (96%) Type A 22,084 (56.6%) type A (H1N1)pdm09 16,991 (43.6%) type A (H3N2) 1,679 (4%) Type B 406 (36.7%) B/Yamagata 699 (63.3%) B/Victoria
2019-2020	A/Brisbane/02/2018 A(H1N1)pdm09-like A/Kansas/14/2017 A(H3N2)-like B/Colorado/06/2017-like (B/Victoria lineage) B/Phuket/3073/2013-like (B/Yamagata lineage) (in quadrivalent)	24,159 (58.6 %) Type A 21,198 (93.0%) type A (H1N1)pdm09 1,591 (7.0%) type A (H3N2) 1 (<0.1%) type A (H3N2v) 17,088 (41.4%) Type B 211 (1.6%) B/Yamagata 13,317 (98.4%) B/Victoria
2020-2021	egg-based A/Guangdong-Maonan/SWL1536/2019 (H1N1)pdm09-like A/Hong Kong/2671/2019 (H3N2)-like B/Washington/02/2019 (Victoria lineage)-like B/Phuket/3073/2013 (Yamagata lineage)-like	154 (61.4%) Type A 18 (45.0%) type A (H1N1)pdm09 21 (52.5%) type A (H3N2) 1 (2.5%) type A (H3N2v) 97 (38.6%) Type B 8 (40.0%) B/Yamagata

2020-2021 cont. Cell culture-based 12 (60.0%) B/Victoria A/Hawaii/70/2019
(H1N1)pdm09-like
A/Hong Kong/45/2019 (H3N2)-like B/Washington/02/2019
(Victoria lineage)-like B/Phuket/3073/2013 (Yamagata lineage)-
like

Year	Vaccine Components	Circulating Strains in U.S.
2021-2022	egg-based A/Victoria/2570/2019 (H1N1)pdm09-like (H3N2)-like B/Washington/02/2019 (B/Victoria lineage)-like (B/Yamagata lineage)-like Cell culture-based A/Wisconsin/588/2019 (H1N1)pdm09-like A/Cambodia/eo826360/2020 (H3N2)-like B/Washington/02/2019 (B/Victoria lineage)-like B/Phuket/3073/2013 (B/Yamagata lineage)-like	26,156 (99.4%) Type A A/Cambodia/eo826360/2020 86 (0.2%) type A (H1N1)pdm09 20,712 (99.8%) type A (H3N2) B/Phuket/3073/2013 4 (<0.1%) type A (H3N2v) 166 (0.6%) Type B 1 (2.4%) B/Yamagata 45 (97.6%) B/Victoria
2022-2023	egg-based A/Victoria/2570/2019 (H1N1)pdm09-like A/Darwin/9/2021 (H3N2)-like B/Austria/1359417/2021 (B/Victoria lineage)-like (B/Yamagata lineage)-like Cell culture-based A/Wisconsin/588/2019 (H1N1)pdm09-like A/Darwin/6/2021 (H3N2)-like B/Austria/1359417/2021 (B/Victoria lineage)-like B/Phuket/3073/2013 (B/Yamagata lineage)-like	29,876 (95.2%) Type A 7,723 (30.3%) type A (H1N1)pdm09 17,722 (69.6%) type A (H3N2) B/Phuket/3073/2013 2 (<0.1%) type A (H3N2v) 1,522 (4.8%) Type B 1,246 (100%) B/Victoria 0 (0%) B/Yamagata
2023-2024	egg-based A/Victoria/4897/2022 (H1N1)pdm09-like A/Darwin/9/2021 (H3N2)-like B/Austria/1359417/2021 (B/Victoria lineage)-like (B/Yamagata lineage)-like Cell culture-based A/Wisconsin/67/2022 (H1N1)pdm09-like A/Darwin/6/2021 (H3N2)- like B/Austria/1359417/2021 (B/Victoria lineage)-like B/Phuket/3073/2013 (B/Yamagata lineage)-like	31,580 (77.3%) Type A 17,284 (64.6%) type A (H1N1)pdm09 9,474 (35.4%) type A (H3N2) B/Phuket/3073/2013 3 (<0.1%) type A (H3N2v) 13 (<0.1%) type A(H5) 9,294 (22.7%) Type B 8,089 (100%) B/Victoria 0 (0%) B/Yamagata
2024-2025	egg-based A/Victoria/4897/2022 (H1N1)pdm09-like A/Thailand/8/2022 (H3N2)-like B/Austria/1359417/2021 (B/Victoria lineage)-like	94,434 (94.0%) Type A 45,079 (53.1%) type A (H1N1)pdm09 39,758 (46.8%) type A (H3N2) 0 (0%) type A (H3N2v) 79 (0.1%) type A(H5) 6,002 (6.0%) Type B 3,354 (100%) B/Victoria 0 (0%) B/Yamagata

2024-2025 cont. Cell culture-based

A/Wisconsin/67/2022 (H1N1)pdm09-like A/Massachusetts/18/2022 (H3N2)-like
B/Austria/1359417/2021 (B/Victoria lineage)-like

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2025-2026	egg-based	
	A/Victoria/4897/2022 (H1N1)pdm09-like	56,575 (83.7%) Type A
	A/Croatia/10136RV/2023 (H3N2)-like	6,680 (14.4%) A(H1N1)pdm09
	B/Austria/1359417/2021 (B/Victoria lineage)-like	39,782 (85.6%) A(H3N2)
		2 (<0.1%) A(H5)
	Cell culture-based	11,009 (16.3%) Type B
	A/Wisconsin/67/2022 (H1N1)pdm09-like	4,467 (100%) B/Victoria
2026-2027	A/District of Columbia/27/2023 (H3N2)-like	0 (0%) B/Yamagata
	B/Austria/1359417/2021 (B/Victoria lineage)-like	
	egg-based	
	A/Missouri/11/2025 (H1N1)pdm09-like	
	A/Darwin/1454/2025 (H3N2)-like	
	B/Tokyo/EIS13-175/2025 (B/Victoria lineage)-like	
	Cell culture-based	
	A/Missouri/11/2025 (H1N1)pdm09-like	
	A/Darwin/1415/2025 (H3N2)-like	
	B/Pennsylvania/14/2025 (B/Victoria lineage)-like	