

# Australian Immunisation Register - Coverage Report

## SA3 all children coverage by age group - NSW

Rolling four quarters of coverage data: December 2020, March 2021, June 2021 and September 2021 (01 October 2020 - 30 September 2021)

The following data suppression rules have been applied to protect the privacy of individuals:

- Not Published (NP) indicates the number of individuals for that row is less than 25.
- ≥95.00 indicates that the number of individuals for that row is between 25 and 100, and the coverage rate for that population is equal to or greater than 95%
- ≥99.00 indicates that the number individuals for that row is greater than 100, and the coverage rate for that population is equal to or greater than 99%.

SA3_STATE	SA3_Code	SA3_Name	Age Group	% DTP	% Polio	% HIB	% HEP	% MMR	% Pneumo	% MenC	% Varicella	% Fully
NSW	NM	Not mapped	12<-15 Months	94.55	93.64	92.73	93.64	0.00	95.45	0.00	0.00	91.82
NSW	10101	Goulburn - Yass	12<-15 Months	96.48	96.48	96.25	96.36	0.00	97.50	0.00	0.00	95.91
NSW	10102	Queanbeyan	12<-15 Months	95.82	95.82	95.82	95.95	0.00	97.30	0.00	0.00	95.58
NSW	10103	Snowy Mountains	12<-15 Months	95.94	95.94	95.43	95.94	0.00	96.95	0.00	0.00	95.43
NSW	10104	South Coast	12<-15 Months	93.41	93.41	93.09	93.09	0.00	95.66	0.00	0.00	92.93
NSW	10201	Gosford	12<-15 Months	94.69	94.69	94.63	94.63	0.00	96.04	0.00	0.00	94.20
NSW	10202	Wyong	12<-15 Months	96.36	96.36	96.41	96.36	0.00	97.37	0.00	0.00	96.11
NSW	10301	Bathurst	12<-15 Months	96.69	96.69	96.69	96.89	0.00	97.72	0.00	0.00	96.69
NSW	10302	Lachlan Valley	12<-15 Months	96.75	96.75	96.75	96.89	0.00	97.34	0.00	0.00	96.30
NSW	10303	Lithgow - Mudgee	12<-15 Months	95.16	95.16	94.96	94.96	0.00	96.17	0.00	0.00	94.35
NSW	10304	Orange	12<-15 Months	97.37	97.37	97.37	98.06	0.00	98.48	0.00	0.00	97.23
NSW	10401	Clarence Valley	12<-15 Months	94.42	94.42	94.42	94.42	0.00	96.41	0.00	0.00	94.22
NSW	10402	Coffs Harbour	12<-15 Months	93.63	93.63	93.63	93.63	0.00	94.28	0.00	0.00	93.52
NSW	10501	Bourke - Cobar - Coonamble	12<-15 Months	95.65	95.65	95.32	97.66	0.00	98.66	0.00	0.00	95.32
NSW	10502	Broken Hill and Far West	12<-15 Months	98.67	98.67	98.67	98.67	0.00	≥99.00	0.00	0.00	98.67
NSW	10503	Dubbo	12<-15 Months	96.49	96.49	96.39	97.69	0.00	97.99	0.00	0.00	96.18
NSW	10601	Lower Hunter	12<-15 Months	97.43	97.43	97.35	97.52	0.00	97.77	0.00	0.00	97.09
NSW	10602	Maitland	12<-15 Months	97.21	97.21	97.21	97.21	0.00	97.56	0.00	0.00	97.03
NSW	10603	Port Stephens	12<-15 Months	95.48	95.48	95.48	95.63	0.00	96.23	0.00	0.00	95.02
NSW	10604	Upper Hunter	12<-15 Months	95.52	95.52	95.52	95.80	0.00	97.48	0.00	0.00	95.24
NSW	10701	Dapto - Port Kembla	12<-15 Months	96.12	96.12	96.12	96.02	0.00	97.91	0.00	0.00	95.82
NSW	10702	Illawarra Catchment Reserve	12<-15 Months	NP	NP	NP	NP	NP	NP	NP	NP	NP
NSW	10703	Kiama - Shellharbour	12<-15 Months	96.19	96.19	96.10	96.19	0.00	97.64	0.00	0.00	95.92
NSW	10704	Wollongong	12<-15 Months	95.91	95.91	95.84	95.84	0.00	97.20	0.00	0.00	95.77
NSW	10801	Great Lakes	12<-15 Months	94.58	94.58	94.58	94.58	0.00	95.00	0.00	0.00	94.17
NSW	10802	Kempsey - Nambucca	12<-15 Months	93.67	93.47	93.47	93.47	0.00	94.24	0.00	0.00	93.09
NSW	10803	Lord Howe Island	12<-15 Months	NP	NP	NP	NP	NP	NP	NP	NP	NP
NSW	10804	Port Macquarie	12<-15 Months	95.48	95.48	95.48	95.48	0.00	96.68	0.00	0.00	95.48
NSW	10805	Taree - Gloucester	12<-15 Months	94.76	94.76	94.76	94.76	0.00	95.84	0.00	0.00	94.39
NSW	10901	Albury	12<-15 Months	96.00	96.00	95.88	95.76	0.00	96.85	0.00	0.00	95.76
NSW	10902	Lower Murray	12<-15 Months	93.75	93.75	93.75	93.75	0.00	96.53	0.00	0.00	93.75
NSW	10903	Upper Murray exc. Albury	12<-15 Months	96.47	96.47	96.47	96.47	0.00	97.18	0.00	0.00	96.47
NSW	11001	Armidale	12<-15 Months	93.28	93.28	93.28	93.28	0.00	95.97	0.00	0.00	93.01
NSW	11002	Inverell - Tenterfield	12<-15 Months	94.83	94.83	94.83	94.83	0.00	96.38	0.00	0.00	94.32
NSW	11003	Moree - Narrabri	12<-15 Months	95.54	95.54	95.54	95.54	0.00	97.62	0.00	0.00	95.24
NSW	11004	Tamworth - Gunnedah	12<-15 Months	96.67	96.67	96.67	96.76	0.00	97.05	0.00	0.00	96.00
NSW	11101	Lake Macquarie - East	12<-15 Months	96.14	96.14	96.06	96.29	0.00	97.47	0.00	0.00	95.91
NSW	11102	Lake Macquarie - West	12<-15 Months	94.48	94.37	94.37	94.69	0.00	95.86	0.00	0.00	93.74
NSW	11103	Newcastle	12<-15 Months	97.12	97.06	97.12	97.17	0.00	98.04	0.00	0.00	96.85
NSW	11201	Richmond Valley - Coastal	12<-15 Months	80.64	80.52	80.15	80.27	0.00	81.38	0.00	0.00	79.41
NSW	11202	Richmond Valley - Hinterland	12<-15 Months	90.19	90.19	90.19	90.19	0.00	91.71	0.00	0.00	90.06
NSW	11203	Tweed Valley	12<-15 Months	88.24	88.24	88.24	88.55	0.00	90.32	0.00	0.00	87.93
NSW	11301	Griffith - Murrumbidgee (West)	12<-15 Months	95.65	95.65	95.65	95.81	0.00	97.52	0.00	0.00	95.34
NSW	11302	Tumut - Tumbarumba	12<-15 Months	95.12	95.12	93.90	95.73	0.00	96.34	0.00	0.00	93.29
NSW	11303	Wagga Wagga	12<-15 Months	97.45	97.45	97.45	97.70	0.00	98.03	0.00	0.00	97.20

SA3_STATE	SA3_Code	SA3_Name	Age Group	% DTP	% Polio	% Hib	% HEP	% MMR	% Pneumo	% MenC	% Varicella	% Fully
NSW	11401	Shoalhaven	12-<15 Months	95.57	95.57	95.75	95.57	0.00	95.93	0.00	0.00	94.94
NSW	11402	Southern Highlands	12-<15 Months	94.57	94.57	94.57	94.57	0.00	95.41	0.00	0.00	94.36
NSW	11501	Baulkham Hills	12-<15 Months	97.01	97.01	97.01	97.01	0.00	97.83	0.00	0.00	96.78
NSW	11502	Dural - Wisemans Ferry	12-<15 Months	94.03	94.03	93.53	94.03	0.00	93.53	0.00	0.00	92.54
NSW	11503	Hawkesbury	12-<15 Months	95.88	95.88	95.88	95.53	0.00	96.22	0.00	0.00	95.53
NSW	11504	Rouse Hill - McGraths Hill	12-<15 Months	96.18	96.18	96.05	96.18	0.00	96.56	0.00	0.00	95.67
NSW	11601	Blacktown	12-<15 Months	94.77	94.72	94.66	94.56	0.00	96.20	0.00	0.00	94.15
NSW	11602	Blacktown - North	12-<15 Months	96.61	96.66	96.66	96.61	0.00	97.24	0.00	0.00	96.35
NSW	11603	Mount Druitt	12-<15 Months	93.30	93.30	93.30	93.51	0.00	95.64	0.00	0.00	92.87
NSW	11701	Botany	12-<15 Months	96.05	96.05	96.05	96.05	0.00	98.02	0.00	0.00	96.05
NSW	11702	Marrickville - Sydenham - Petersham	12-<15 Months	96.09	96.09	96.09	96.09	0.00	97.33	0.00	0.00	95.91
NSW	11703	Sydney Inner City	12-<15 Months	95.61	95.61	95.61	95.61	0.00	96.78	0.00	0.00	95.06
NSW	11801	Eastern Suburbs - North	12-<15 Months	95.19	95.06	95.19	94.99	0.00	95.47	0.00	0.00	94.43
NSW	11802	Eastern Suburbs - South	12-<15 Months	95.98	95.91	95.91	95.84	0.00	97.11	0.00	0.00	95.49
NSW	11901	Bankstown	12-<15 Months	91.71	91.71	91.67	91.78	0.00	94.44	0.00	0.00	91.28
NSW	11902	Canterbury	12-<15 Months	94.48	94.42	94.37	94.48	0.00	95.23	0.00	0.00	93.57
NSW	11903	Hurstville	12-<15 Months	95.85	95.85	95.71	95.85	0.00	97.04	0.00	0.00	95.34
NSW	11904	Kogarah - Rockdale	12-<15 Months	94.41	94.41	94.41	94.41	0.00	95.72	0.00	0.00	94.04
NSW	12001	Canada Bay	12-<15 Months	97.12	97.12	97.12	96.92	0.00	97.23	0.00	0.00	95.99
NSW	12002	Leichhardt	12-<15 Months	96.92	96.92	96.76	96.92	0.00	97.69	0.00	0.00	96.61
NSW	12003	Strathfield - Burwood - Ashfield	12-<15 Months	96.55	96.49	96.55	96.62	0.00	96.75	0.00	0.00	95.82
NSW	12101	Chatswood - Lane Cove	12-<15 Months	96.56	96.56	96.56	96.48	0.00	97.34	0.00	0.00	96.25
NSW	12102	Hornsby	12-<15 Months	97.27	97.27	97.17	97.27	0.00	97.47	0.00	0.00	96.57
NSW	12103	Ku-ring-gai	12-<15 Months	97.95	97.95	97.84	98.05	0.00	98.05	0.00	0.00	97.73
NSW	12104	North Sydney - Mosman	12-<15 Months	96.70	96.70	96.60	96.60	0.00	97.30	0.00	0.00	96.10
NSW	12201	Manly	12-<15 Months	95.14	95.14	94.93	95.14	0.00	95.77	0.00	0.00	94.71
NSW	12202	Pittwater	12-<15 Months	93.49	93.49	93.49	93.49	0.00	95.03	0.00	0.00	92.64
NSW	12203	Warringah	12-<15 Months	95.63	95.57	95.57	95.39	0.00	96.51	0.00	0.00	95.04
NSW	12301	Camden	12-<15 Months	95.84	95.84	95.84	95.84	0.00	96.85	0.00	0.00	95.28
NSW	12302	Campbelltown (NSW)	12-<15 Months	94.51	94.51	94.36	94.54	0.00	96.23	0.00	0.00	94.02
NSW	12303	Wollondilly	12-<15 Months	96.08	95.92	95.92	95.92	0.00	97.06	0.00	0.00	95.60
NSW	12401	Blue Mountains	12-<15 Months	93.22	93.22	93.22	93.09	0.00	93.48	0.00	0.00	92.02
NSW	12403	Penrith	12-<15 Months	97.11	97.11	97.11	97.11	0.00	97.97	0.00	0.00	96.98
NSW	12404	Richmond - Windsor	12-<15 Months	95.23	95.23	95.23	95.43	0.00	97.42	0.00	0.00	94.83
NSW	12405	St Marys	12-<15 Months	94.42	94.42	94.31	94.42	0.00	95.56	0.00	0.00	93.85
NSW	12501	Auburn	12-<15 Months	94.12	94.04	93.96	94.20	0.00	95.55	0.00	0.00	93.73
NSW	12502	Carlingford	12-<15 Months	95.74	95.74	95.74	95.74	0.00	97.55	0.00	0.00	95.61
NSW	12503	Merrylands - Guildford	12-<15 Months	91.12	91.12	91.04	91.20	0.00	93.86	0.00	0.00	90.44
NSW	12504	Parramatta	12-<15 Months	95.80	95.85	95.75	95.70	0.00	96.66	0.00	0.00	95.05
NSW	12601	Pennant Hills - Epping	12-<15 Months	96.29	96.29	96.08	96.29	0.00	97.32	0.00	0.00	95.46
NSW	12602	Ryde - Hunters Hill	12-<15 Months	97.03	97.03	96.90	97.09	0.00	97.22	0.00	0.00	96.32
NSW	12701	Bringelly - Green Valley	12-<15 Months	95.20	95.11	95.07	95.11	0.00	96.67	0.00	0.00	94.77
NSW	12702	Fairfield	12-<15 Months	94.85	94.85	94.85	94.90	0.00	96.43	0.00	0.00	94.09
NSW	12703	Liverpool	12-<15 Months	94.44	94.44	94.29	94.44	0.00	95.84	0.00	0.00	93.71
NSW	12801	Cronulla - Miranda - Caringbah	12-<15 Months	95.35	95.35	95.35	95.35	0.00	96.50	0.00	0.00	94.97
NSW	12802	Sutherland - Menai - Heathcote	12-<15 Months	98.13	98.13	98.13	98.13	0.00	97.97	0.00	0.00	97.56
NSW	NM	Not mapped	24-<27 Months	95.10	96.08	95.10	96.08	95.10	95.10	95.10	95.10	93.14
NSW	10101	Goulburn - Yass	24-<27 Months	94.85	97.42	95.46	97.42	94.48	95.95	95.34	94.97	93.13
NSW	10102	Queanbeyan	24-<27 Months	95.55	98.44	96.27	98.44	95.67	97.72	96.63	95.91	94.35
NSW	10103	Snowy Mountains	24-<27 Months	96.49	97.08	96.49	97.08	96.49	96.49	95.32	96.49	95.32
NSW	10104	South Coast	24-<27 Months	93.68	96.21	94.15	96.05	93.21	95.10	93.68	94.00	91.15
NSW	10201	Gosford	24-<27 Months	94.67	97.28	95.26	97.23	94.94	96.54	96.43	95.15	93.61
NSW	10202	Wyong	24-<27 Months	94.96	97.40	95.50	97.45	95.20	96.95	96.90	95.20	94.06
NSW	10301	Bathurst	24-<27 Months	97.11	98.56	97.83	98.74	96.93	98.19	97.83	97.29	96.21
NSW	10302	Lachlan Valley	24-<27 Months	96.41	98.42	96.70	98.85	96.13	98.28	97.70	96.27	94.69
NSW	10303	Lithgow - Mudgee	24-<27 Months	95.82	98.41	96.81	98.41	95.62	97.01	96.41	96.41	93.03

SA3_STATE	SA3_Code	SA3_Name	Age Group	% DTP	% Polio	% Hib	% HEP	% MMR	% Pneumo	% MenC	% Varicella	% Fully
NSW	10304	Orange	24-<27 Months	96.12	98.00	96.71	98.47	96.24	96.94	96.00	96.47	94.36
NSW	10401	Clarence Valley	24-<27 Months	93.82	96.82	95.13	96.82	94.19	95.51	94.57	94.19	91.95
NSW	10402	Coffs Harbour	24-<27 Months	91.86	94.34	92.79	94.34	92.17	92.48	93.61	92.58	89.91
NSW	10501	Bourke - Cobarr - Coonamble	24-<27 Months	93.98	≥99.00	94.88	≥99.00	94.58	98.49	97.89	95.18	92.77
NSW	10502	Broken Hill and Far West	24-<27 Months	97.00	≥99.00	97.00	≥99.00	96.57	≥99.00	≥99.00	96.57	96.57
NSW	10503	Dubbo	24-<27 Months	95.86	97.88	96.87	98.18	95.66	97.27	95.66	96.06	93.54
NSW	10601	Lower Hunter	24-<27 Months	95.55	97.58	96.02	97.66	95.55	97.50	97.19	95.78	94.77
NSW	10602	Maitland	24-<27 Months	96.51	98.21	97.04	98.21	96.77	97.76	97.76	97.04	95.70
NSW	10603	Port Stephens	24-<27 Months	95.38	97.69	96.06	97.83	94.97	96.33	96.60	95.11	93.89
NSW	10604	Upper Hunter	24-<27 Months	94.40	97.81	95.13	97.81	94.40	97.57	97.57	94.65	93.19
NSW	10701	Dapto - Port Kembla	24-<27 Months	95.18	98.15	95.79	97.95	95.08	96.62	96.41	94.97	93.85
NSW	10702	Illawarra Catchment Reserve	24-<27 Months	NP	NP	NP	NP	NP	NP	NP	NP	NP
NSW	10703	Kiama - Shellharbour	24-<27 Months	95.82	97.69	96.35	97.78	96.00	97.15	97.24	96.26	94.93
NSW	10704	Wollongong	24-<27 Months	94.41	97.10	94.90	97.03	94.27	95.90	96.04	94.55	93.35
NSW	10801	Great Lakes	24-<27 Months	92.70	95.71	92.70	95.28	91.85	92.70	93.99	92.70	90.13
NSW	10802	Kempsey - Nambucca	24-<27 Months	92.32	93.05	92.87	93.05	91.77	92.32	92.14	92.87	89.95
NSW	10803	Lord Howe Island	24-<27 Months	NP	NP	NP	NP	NP	NP	NP	NP	NP
NSW	10804	Port Macquarie	24-<27 Months	95.54	96.98	96.19	96.98	95.54	96.85	97.24	95.54	95.28
NSW	10805	Taree - Gloucester	24-<27 Months	94.27	96.95	95.70	96.95	94.80	96.06	95.16	94.98	92.29
NSW	10901	Albury	24-<27 Months	94.78	96.44	95.37	96.44	95.14	95.85	95.85	95.02	94.42
NSW	10902	Lower Murray	24-<27 Months	95.50	≥99.00	96.40	≥99.00	96.40	97.30	98.20	96.40	95.50
NSW	10903	Upper Murray exc. Albury	24-<27 Months	98.31	≥99.00	≥99.00	≥99.00	98.55	98.79	97.58	98.79	96.13
NSW	11001	Armidale	24-<27 Months	94.99	98.75	97.24	98.75	95.74	96.99	97.99	95.99	93.98
NSW	11002	Inverell - Tenterfield	24-<27 Months	95.45	97.86	95.72	97.59	94.92	95.99	95.45	94.92	93.85
NSW	11003	Moree - Narrabri	24-<27 Months	97.09	98.84	97.67	≥99.00	97.09	98.26	98.26	97.09	95.35
NSW	11004	Tamworth - Gunnedah	24-<27 Months	95.81	98.32	96.28	98.32	95.90	97.86	97.86	96.00	95.16
NSW	11101	Lake Macquarie - East	24-<27 Months	96.05	97.47	96.57	97.47	96.42	96.94	97.02	96.27	95.53
NSW	11102	Lake Macquarie - West	24-<27 Months	95.50	96.93	96.22	96.93	95.60	96.73	96.52	95.81	94.48
NSW	11103	Newcastle	24-<27 Months	95.88	97.97	96.61	98.12	95.99	97.34	97.24	96.35	94.84
NSW	11201	Richmond Valley - Coastal	24-<27 Months	81.46	85.78	83.16	85.67	82.25	83.50	84.76	82.25	80.43
NSW	11202	Richmond Valley - Hinterland	24-<27 Months	90.01	93.21	90.68	93.34	89.75	92.01	92.41	90.28	88.95
NSW	11203	Tweed Valley	24-<27 Months	85.67	90.66	87.26	90.66	86.31	88.85	89.28	86.73	84.93
NSW	11301	Griffith - Murrumbidgee (West)	24-<27 Months	94.78	98.31	95.85	98.16	94.93	96.62	96.16	95.24	93.39
NSW	11302	Tumut - Tumbarumba	24-<27 Months	94.38	94.94	94.38	94.94	94.38	94.38	93.82	94.38	93.26
NSW	11303	Wagga Wagga	24-<27 Months	96.09	97.72	96.58	97.72	95.84	97.23	97.07	96.09	94.78
NSW	11401	Shoalhaven	24-<27 Months	95.04	96.87	95.47	96.78	95.13	96.78	97.21	95.30	94.34
NSW	11402	Southern Highlands	24-<27 Months	92.76	96.18	93.36	96.18	92.96	95.98	95.17	92.96	92.35
NSW	11501	Baulkham Hills	24-<27 Months	95.33	97.47	95.73	97.40	95.13	96.60	96.67	95.33	94.13
NSW	11502	Dural - Wisemans Ferry	24-<27 Months	92.57	96.65	92.94	96.65	92.19	94.42	95.17	92.57	91.08
NSW	11503	Hawkesbury	24-<27 Months	93.02	96.68	93.36	96.68	92.69	96.68	96.68	93.02	92.36
NSW	11504	Rouse Hill - McGraths Hill	24-<27 Months	96.09	98.48	96.46	98.23	96.34	97.47	97.73	97.10	94.70
NSW	11601	Blacktown	24-<27 Months	93.68	97.07	94.73	97.07	94.43	96.02	96.47	94.48	93.09
NSW	11602	Blacktown - North	24-<27 Months	94.97	97.93	95.33	97.89	95.01	97.12	97.21	95.15	94.38
NSW	11603	Mount Druitt	24-<27 Months	90.78	96.04	92.53	96.09	91.40	94.39	94.13	91.45	89.29
NSW	11701	Botany	24-<27 Months	93.58	96.64	95.11	96.79	94.04	95.26	95.26	94.50	92.20
NSW	11702	Marrickville - Sydenham - Petersham	24-<27 Months	96.14	98.16	96.69	98.35	96.69	97.61	97.79	96.88	95.40
NSW	11703	Sydney Inner City	24-<27 Months	91.86	96.91	92.38	96.79	92.15	94.96	94.84	92.09	90.32
NSW	11801	Eastern Suburbs - North	24-<27 Months	92.38	95.84	93.23	95.84	92.59	94.78	94.57	92.87	90.90
NSW	11802	Eastern Suburbs - South	24-<27 Months	92.89	96.48	93.54	96.35	93.09	94.39	94.26	93.35	91.39
NSW	11901	Bankstown	24-<27 Months	91.05	95.63	92.03	95.67	91.52	93.94	94.41	91.52	89.11
NSW	11902	Canterbury	24-<27 Months	93.17	96.96	94.08	96.85	93.65	95.63	96.05	93.49	91.89
NSW	11903	Hurstville	24-<27 Months	92.42	96.29	92.64	96.29	92.35	94.95	94.65	92.35	91.46
NSW	11904	Kogarah - Rockdale	24-<27 Months	91.77	96.47	92.26	96.47	91.83	93.94	94.31	91.52	89.79
NSW	12001	Canada Bay	24-<27 Months	94.68	97.60	95.10	97.50	94.89	95.72	95.83	95.10	93.33
NSW	12002	Leichhardt	24-<27 Months	92.85	97.06	93.74	97.06	93.36	95.40	95.91	93.10	91.44
NSW	12003	Strathfield - Burwood - Ashfield	24-<27 Months	94.11	97.67	94.73	97.67	93.91	95.76	95.69	94.52	92.27





SA3_STATE	SA3_Code	SA3_Name	Age Group	% DTP	% Polio	% HIB	% HEP	% MMR	% Pneumo	% MenC	% Varicella	% Fully
NSW	12702	Fairfield	60-<63 Months	95.73	95.26	0.00	0.00	0.00	0.00	0.00	0.00	95.13
NSW	12703	Liverpool	60-<63 Months	94.51	94.32	0.00	0.00	0.00	0.00	0.00	0.00	94.23
NSW	12801	Cronulla - Miranda - Caringbah	60-<63 Months	95.04	95.11	0.00	0.00	0.00	0.00	0.00	0.00	94.90
NSW	12802	Sutherland - Menai - Heathcote	60-<63 Months	96.53	96.39	0.00	0.00	0.00	0.00	0.00	0.00	96.39

NP = Not Published