

Influenza vaccination coverage for staff of acute care facilities British Columbia, 2018/19 – Summary Report

Background

Immunization coverage assessment is an important part of a quality immunization program and serves three main functions:

- i) Identifying populations with low levels of immunization coverage
- ii) Evaluating the delivery of immunization programs
- iii) Informing program planning

Targets for coverage among staff of acute care facilities at the provincial and national levels are 60% and 80%, respectively.^{1,2}

Objectives

To quantify the proportion of staff in BC acute care facilities who:

- i) Were vaccinated against influenza in the 2018/19 season
- ii) Self-reported their vaccination or vaccine declination including by job type
- iii) Were vaccinated by different provider types

Methods

Please refer to the separate Methods document for a full description of methods including definitions, data sources, and analyses as well as changes to methodology that should be used to interpret coverage trends over time.

Results

Reporting of facilities (**Table 1**)

- All 92 acute care facilities in BC are included
- All 92 acute care facilities used data from the WHITE database

2018/19 influenza vaccination coverage (**Figures 1-3, Table 2**)

- 78% (51,752/65,953) of staff in acute care facilities in BC reported influenza vaccine receipt, an increase from the 75% reported in both the 2016/17 and 2017/18 seasons
- 73% to 87% coverage was the range across the six health authorities
- 72% to 87% coverage was the range across the sixteen health service delivery areas and PHSA
- 50% to 100% coverage was the range across all acute care facilities in BC
- 69% to 87% coverage was the range across the 30 facilities with 500 or more staff
- 88/92 (96%) facilities met the Immunize BC coverage target of 60%
- 44/92 (48%) facilities met the national coverage target of 80%

1. Immunize BC: a strategic framework for immunization in B.C. 2007. Victoria, BC: British Columbia Ministry of Health. Available at: <http://www.health.gov.bc.ca/library/publications/year/2007/immunizebc.pdf>

2. Public Health Agency of Canada. Vaccination Coverage Goals and Vaccine Preventable Disease Reduction Targets by 2025. Available at: <https://www.canada.ca/en/public-health/services/immunization-vaccine-priorities/national-immunization-strategy/vaccination-coverage-goals-vaccine-preventable-diseases-reduction-targets-2025.html>

Table 1: Acute care facilities included by health authority, 2018/19

Health authority	Acute care facilities		
	Reported	Total	% reported
Interior	27	27	100
Fraser	13	13	100
Vancouver Coastal	14	14	100
Vancouver Island	14	14	100
Northern	18	18	100
Provincial Health Services	6	6	100
British Columbia	92	92	100

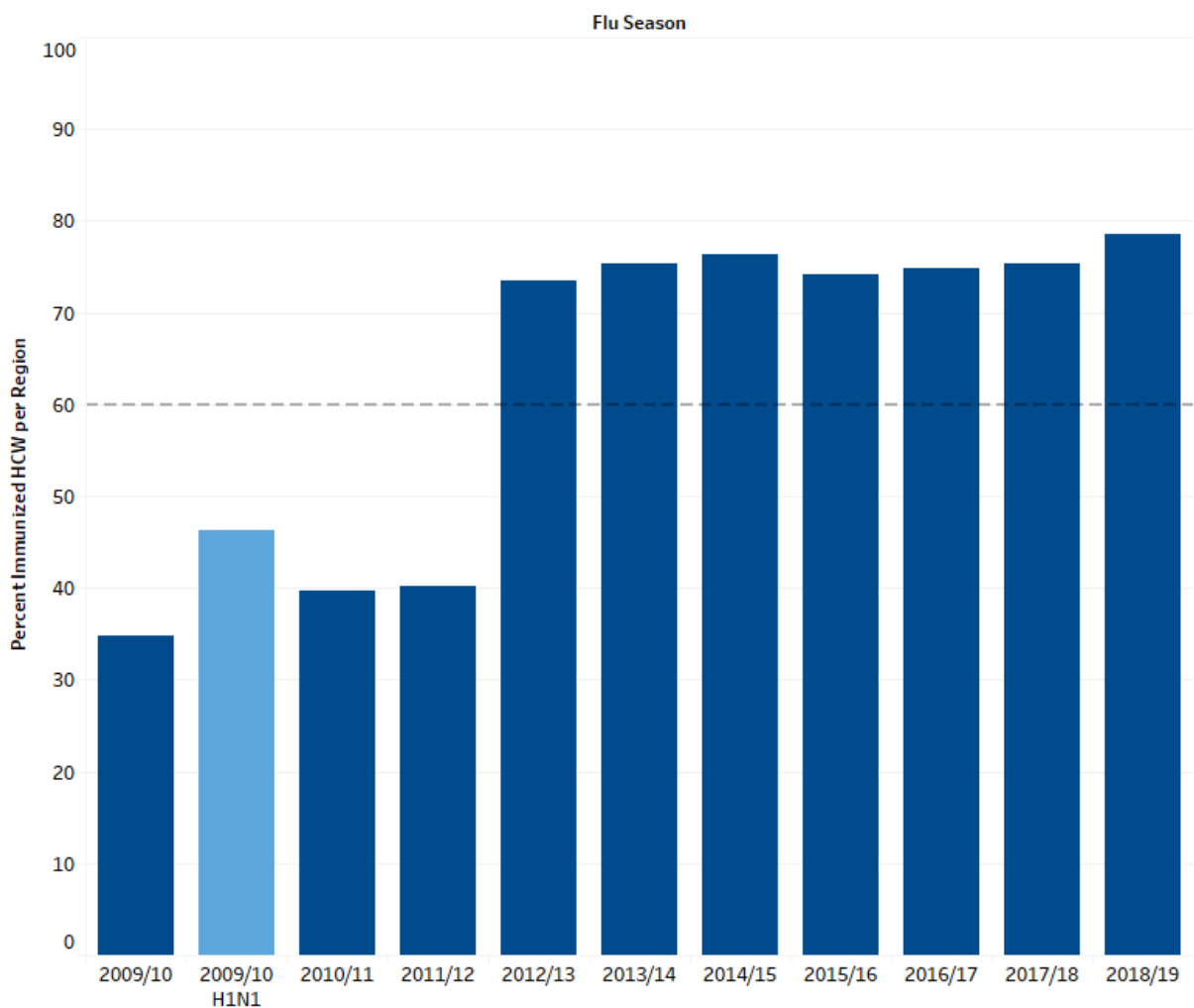


Figure 1: Influenza immunization coverage for staff of acute care facilities by flu season, British Columbia 2009/10 - 2018/19

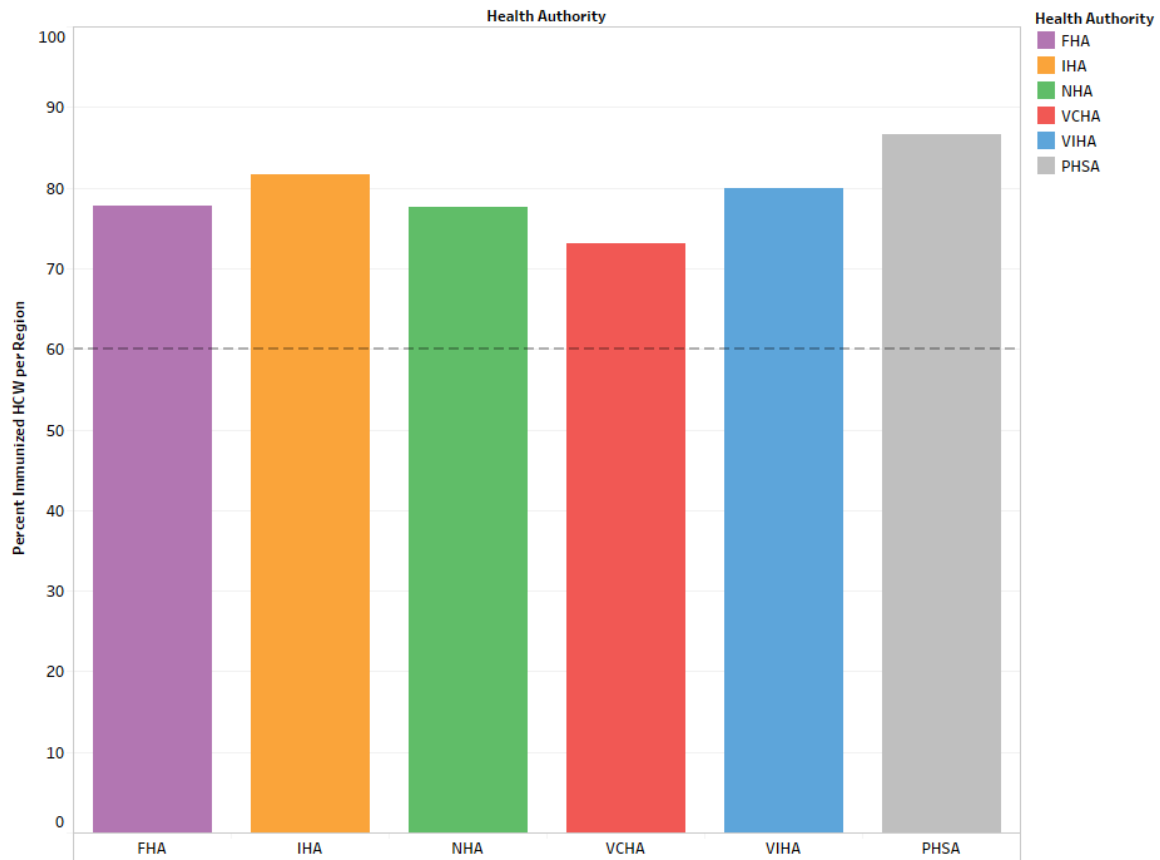


Figure 2: Influenza immunization coverage for staff of acute care facilities by health authority, British Columbia 2018/19

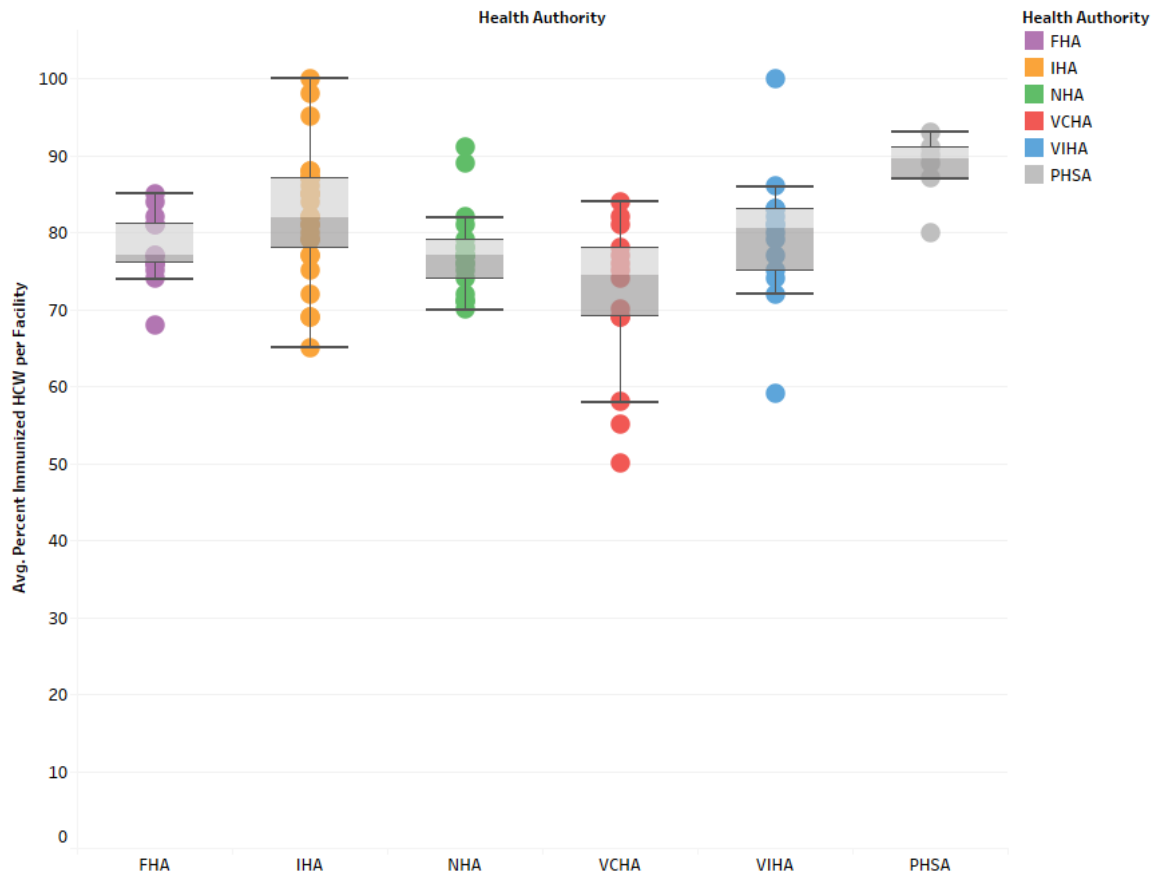


Figure 3: Influenza immunization coverage for staff of acute care facilities per facility and by health authority, British Columbia 2018/19

Table 2: Immunization coverage for staff of acute care facilities by health authority and health service delivery area, 2009/10 to 2018/19

		Influenza season										
		2009/10	2009/10 H1N1	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
INTERIOR	immunized	4,610	5,317	4,490	4,558	6,540	7,419	8,152	7,982	8,482	8,958	8,802
	total staff	10,249	10,307	10,132	10,473	8,593	10,726	10,647	10,989	10,936	11,060	10,781
	% immunized	45	52	44	44	76	69	77	73	78	80	82
East Kootenay	immunized	547	620	560	540	684	739	780	758	767	822	764
	total staff	1,038	999	1,033	1,031	812	970	953	982	966	995	913
	% immunized	53	62	54	52	84	76	82	77	79	83	84
Kootenay Boundary	immunized	504	497	422	381	706	817	928	891	915	950	919
	total staff	1,382	1,382	1,324	1,306	995	1,230	1,197	1,220	1,184	1,224	1,197
	% immunized	36	36	32	29	71	66	78	73	77	78	77
Okanagan	immunized	1,972	2,376	1,793	2,156	3,323	3,901	3,886	3,829	4,134	4,359	4,380
	total staff	4,652	4,600	4,635	5,412	4,593	5,845	5,283	5,509	5,520	5,529	5,437
	% immunized	42	52	39	40	72	67	74	70	75	79	81
Thomps Carib Shuswap	immunized	1,587	1,824	1,715	1,481	1,827	1,962	2,558	2,504	2,666	2,827	2,739
	total staff	3,177	3,326	3,140	2,724	2,193	2,681	3,214	3,278	3,266	3,312	3,234
	% immunized	50	55	55	54	83	73	80	76	82	85	85
FRASER	immunized	2,586	7,371	5,173	5,446	11,013	15,247	15,399	15,547	14,110	14,213	13,566
	total staff	15,867	15,867	16,984	15,881	14,883	19,001	19,262	19,742	18,057	18,032	17,434
	% immunized	16	46	30	34	74	80	80	79	78	79	79
Fraser East	immunized	520	1,318	1,033	1,219	2,053	2,761	2,859	2,745	2,504	2,491	2,379
	total staff	2,860	2,860	3,119	3,115	2,781	3,510	3,635	3,655	3,310	3,318	3,155
	% immunized	18	46	33	39	74	79	79	75	76	75	75
Fraser North	immunized	1,158	3,301	2,289	2,110	4,390	5,893	5,790	6,007	5,588	5,641	5,413
	total staff	6,612	6,612	7,003	6,228	5,825	7,301	7,167	7,492	7,038	6,931	6,749
	% immunized	18	50	33	34	75	81	81	80	79	81	80
Fraser South	immunized	908	2,752	1,851	2,117	4,570	6,593	6,750	6,795	6,018	6,081	5,774
	total staff	6,395	6,395	6,862	6,538	6,277	8,190	8,460	8,595	7,709	7,783	7,530
	% immunized	14	43	27	32	73	81	80	79	78	78	77

Table 2 (cont'd): Immunization coverage for staff of acute care facilities by health authority and health service delivery area, 2009/10 to 2018/19

		Influenza season										
		2009/10	2009/10 H1N1	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
VANCOUVER COASTAL	immunized	6,841	7,639	5,644	5,541	5,553	12,060	12,274	12,702	12,000	11,471	11,741
	total staff	14,506	14,506	12,173	12,897	7,828	15,982	16,312	16,785	16,249	15,615	16,074
	% immunized	47	53	46	43	71	75	75	76	74	73	73
Richmond	immunized	634	716	516	520	792	1,055	1,086	1,119	1,024	1,002	1,097
	total staff	1,265	1,265	1,016	1,085	993	1,327	1,285	1,353	1,297	1,252	1,415
	% immunized	50	57	51	48	80	80	85	83	79	80	78
Vancouver	immunized	5,145	5,565	4,193	4,219	3,364	8,994	9,093	9,558	9,091	8,508	8,792
	total staff	10,600	10,600	9,026	9,805	4,996	12,003	12,400	12,767	12,430	11,876	12,186
	% immunized	49	53	46	43	67	75	73	75	73	72	72
N Shore/Coast Garibaldi	immunized	1,062	1,358	935	802	1,397	2,011	2,095	2,025	1,885	1,907	1,852
	total staff	2,641	2,641	2,131	2,007	1,839	2,652	2,627	2,665	2,522	2,487	2,473
	% immunized	40	51	44	40	76	76	80	76	75	77	75
VANCOUVER ISLAND	immunized	3,727	3,881	3,941	3,844	6,143	8,241	7,811	7,593	7,653	7,432	9,154
	total staff	10,175	9,183	10,021	9,166	8,345	11,360	11,119	11,592	11,585	11,447	11,454
	% immunized	37	42	39	42	74	73	70	66	66	65	80
South Van Island	immunized	1,987	2,389	2,035	1,944	3,975	4,722	4,458	4,312	4,345	4,148	5,029
	total staff	5,540	5,540	5,405	4,860	5,295	6,402	6,395	6,585	6,487	6,402	6,290
	% immunized	36	43	38	40	75	74	70	65	67	65	80
Central Van Island	immunized	982	1,163	1,184	1,139	1,673	2,070	2,060	1,970	1,967	2,023	2,507
	total staff	2,932	2,932	2,982	2,766	2,401	3,119	3,080	3,231	3,247	3,342	3,255
	% immunized	33	40	40	41	70	66	67	61	61	62	77
North Van Island	immunized	758	329	722	761	495	1,449	1,293	1,311	1,341	1,261	1,618
	total staff	1,703	711	1,634	1,540	649	1,839	1,644	1,776	1,851	1,803	1,909
	% immunized	45	46	44	49	76	79	79	74	72	72	85

Table 2 (cont'd): Immunization coverage for staff of acute care facilities by health authority and health service delivery area, 2009/10 to 2018/19

		Influenza season										
		2009/10	2009/10 H1N1	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
Health authority												
NORTHERN	immunized	1,558	1,737	1,832	1,623	2,612	2,913	3,012	2,849	3,035	2,956	3,010
	total staff	4,251	4,260	4,396	4,354	3,459	3,992	4,007	4,232	4,117	4,123	3,882
	% immunized	37	41	42	37	76	73	75	67	74	72	78
Northwest	immunized	372	478	498	548	673	732	774	736	786	780	770
	total staff	1,100	1,108	1,094	1,121	909	1,017	1,035	1,078	1,077	1,081	991
	% immunized	34	43	46	49	74	72	75	68	73	72	78
Northern Interior	immunized	875	966	997	785	1,473	1,661	1,695	1,618	1,751	1,666	1,759
	total staff	2,444	2,445	2,565	2,467	1,908	2,229	2,228	2,387	2,307	2,325	2,238
	% immunized	36	40	39	32	77	75	76	68	76	72	79
Northeast	immunized	311	293	337	290	466	520	543	495	498	510	481
	total staff	707	707	737	766	642	746	744	767	733	717	653
	% immunized	44	41	46	38	73	70	73	65	68	71	74
PHSA	immunized	2,753	3,093	2,015	2,363	4,038	4,998	4,932	5,215	5,155	5,570	5,479
	total staff	8,536	8,536	4,389	5,441	5,710	6,398	6,233	6,622	6,512	6,778	6,328
	% immunized	32	36	46	43	71	78	79	79	79	82	87
BC	immunized	22,075	29,038	23,095	23,375	35,899	50,878	51,580	51,888	50,435	50,456	51,752
	total staff	63,584	62,659	58,095	58,212	48,818	67,459	67,580	69,962	67,456	67,055	65,953
	% immunized	35	46	40	40	74	75	76	74	75	75	78

2018/19 policy compliance results (**Figure 4, Table 3**)

- Allied health, pharmacy, and management/leadership staff reported the highest coverage; this is the same finding as in the previous three flu seasons
- 78% of staff in acute care facilities in BC reported being vaccinated, 9% reported declining vaccination, and 12% did not report vaccination status and were considered to be unvaccinated

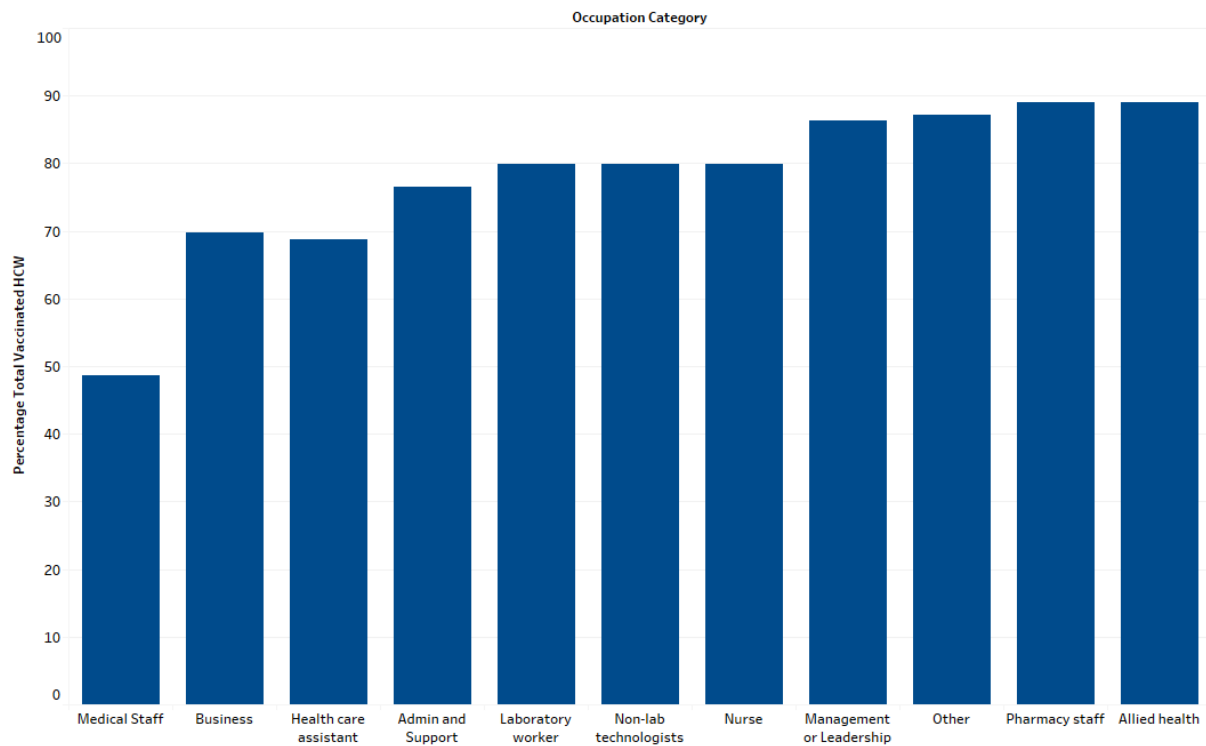


Figure 4: Influenza immunization coverage for staff of acute care facilities by occupation group, British Columbia 2018/19

Table 3: Influenza Prevention Policy compliance for acute health care workers by health authority, 2018/19

Health Authority	Compliance Status						Total No.	Total %
	Vaccinated	Vaccinated	Declined	Declined	Not reported	Not reported		
	No.	%	No.	%	No.	%		
IHA	8802	82	1061	10	918	9	10781	100
FHA	13534	78	1665	10	2192	13	17391	100
VCHA	11741	73	1162	7	3171	20	16074	100
VIHA	9154	80	1210	11	1090	10	11454	100
NHA	3010	78	435	11	437	11	3882	100
PHSA	5479	87	437	7	412	7	6328	100
Total	51720	78	5970	9	8220	12	65910	100