

MMR Assignment

by Essam Alghzee

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MMR Assignment 1

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1 - Introduction:

MMR is a vaccine against three serious diseases: measles, mumps, and rubella, most of the people had them, usually at an early age from 12 months to 12 years. Before was introduced in the UK it was one of the reasons effects many children, which left some of them with serious disabilities and some of the children died [1]. MMR vaccine was introduced in the UK in 1988, which was scheduled as a routine injection for all children in NHS. In the beginning of 1998 a study showed that MMR vaccine might affect children like bowel and autism [2]. The author of this report will compare the increasing number of children who have MMR vaccination since 2003 to 2016 according to NHS boards records data in Wales.

2 - Stages of increasing vaccination in Wales:

According to NHS data records in Wales 2003 to 2006, showed that children who had MMR vaccination were around 75 to 85 percentages which mean there are 15 to 20 percentages of children under risk of having three serious diseases measles, mumps, and rubella. One of the lowest areas in Wales was (Abertawe Bro Morgannwg ULHB) which had fewer people as 73.8 percent and that was because on February 1998 Dr Andrew Wakefield announced that MMR vaccine might link for increased risk of autism and bowel [3]. But on the other hands, Wales's areas were increased that time around 4.9 percentages from 2003 to 2006 [4].

3 - Fundamental visual perception, cartographic visualisation and map

Human Perception is an important factor that plays important role in the area of visualization. Gaining of perception meaning can noticeably improve both quantity and the quality of information was displayed [5]. Visual perception is the ability to interpret the information and its surrounding from the effects of visible light connecting the eye [6] [7].

Cartographic visualization is a diagrammatic step related to the creating of cartographic models, which permits the term and presentation of geographic data for studying and research [8]. According to one case study, "From a cartographic point of view, there is no standard practice or systematization in the visualization of objects and phenomena" [9].

Maps give an immediate and full overview of spatial phenomena. Furthermore, Maps can be very powerful communication tools, mostly if they are creative and colourful. Maps can show the connection between several variables, locate concern area, show the range of issue, and compare different stuff [10]. There are three types of maps, the first map is reference maps which present several kinds of spatial data without emphasis on one kind over another. The second type of map is a thematic map, which means the map is focused on a specific theme. The third type is special-purpose, which is in between reference maps and thematic maps [11].

4 - GIS And Cartographic Representation

GIS is a geographic information system was appeared in 1968 by Roger Tomlinson [12]. The GIS focus on the question, analyse, visualize and interpret information for better understanding of patterns, trends, and relationship. GIS is involved in many different technologies and methods. It involves in many operations and several applications which related to science, health, transport, insurance, business, telecommunication, management, and planning [13]. Cartographic representation, Allow the users to store symbology in the geodatabase and allow editing the look of individual features on the maps. It involves in tools to help manage and representations which include a new layer symbology choice to show the layers with representation, and a set of editing tools to any modifications [14].

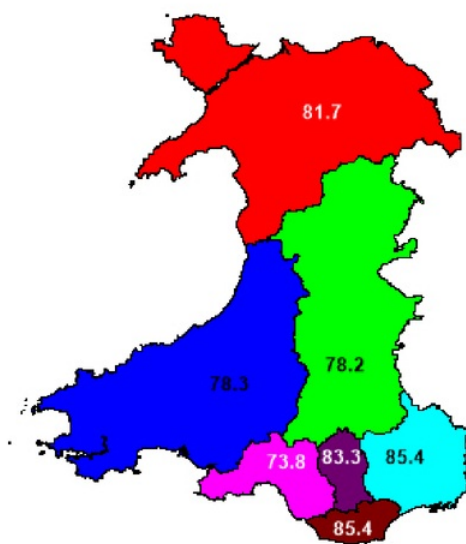
5 - Discuss of the thematic mapping

GIS has the power of mapping which allows to visualize, analyse, question, and interpret data for better understanding of trends, patterns, and relationships. The benefits of GIS are almost in every industry which benefits all the organization in all sizes. Moreover, for a better understanding of GIS, MMR immunisation age two data record was conducted from Wales health boards for the period of 2003 to 2016 to be analysed with the increasing percentage of MMR taken by children. Furthermore, the city of Swansea was chosen for further exploration, which includes 31 areas to be analysed the percentage increase of MMR vaccination on MapInfo software to present the power of mapping in GIS [15]. The excel sheet down explained the data collection for MMR age two vaccination for the seven Health Boards in Wales.

Codes	Names	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16
7A1	Betsi Cadwaladr University	81.7	85.1	88.6	90.4	89.2	89.0	92.5	92.2	93.6	95.8	96.9	96.6	96.6
7A2	Hywel Dda	78.3	79.7	83.1	84.4	85.5	85.6	92.2	89.5	91.4	93.7	96.6	95.1	93.9
7A3	Abertawe Bro Morgannwg University	73.8	77.7	82.2	84.1	85.1	86.5	91.7	90.9	91.9	93.9	97.1	96.6	95.2
7A4	Cardiff and Vale University	85.4	86.2	88.5	91.0	89.6	88.1	91.2	91.1	92.9	94.1	95.3	94.7	94.5
7A5	Cwm Taf	83.3	85.4	87.2	90.7	89.7	90.3	93.8	93.2	94.1	95.0	97.3	96.9	97.1
7A6	Aneurin Bevan	85.4	85.9	87.1	90.1	91.0	89.7	91.7	91.7	92.4	94.7	96.6	96.3	95.9
7A7	Powys Teaching	78.2	79.7	82.1	83.3	83.5	86.4	90.4	91.5	91.8	93.4	95.2	95.4	94.3

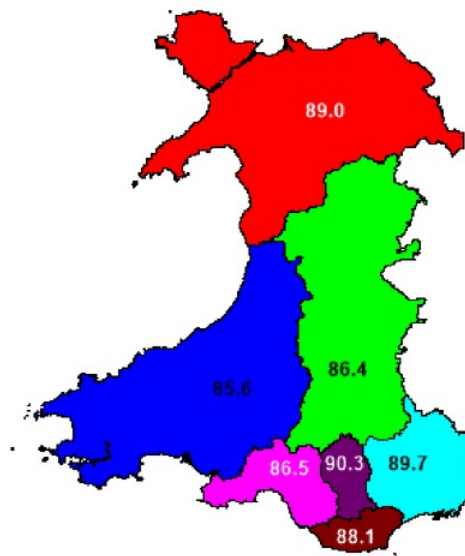
For having a better view of the data and the percentage on each health board in Wales, creating maps with percentage could help understand how MMR vaccination if getting improved or worse. Since 2003 to 2006 the map down showed that the percentages were

between approximately 73 to 85 which means, around 15 percentages of the children do not have MMR vaccination which is a massive number.



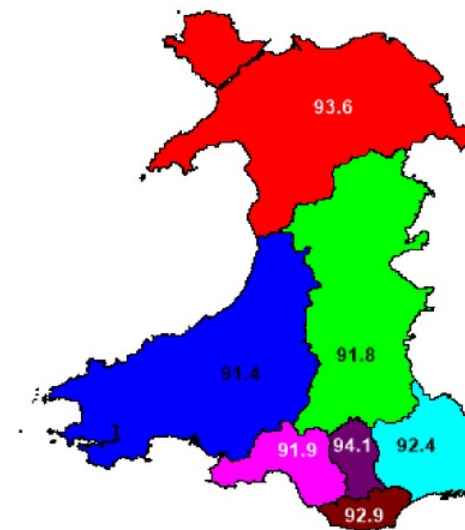
2003-2007 Map

With these results, the National Public Health Service was created and started to informally work with national efforts to get better vaccination uptake by helping and supporting the Welsh Assembly Government. Furthermore, the identification of children who did not have MMR started to become routine activities [16]. In 2007 to 2009 with efforts to minimize the number of children who do not have MMR, the percentage started slightly to improve as the map down showed how the percentage increased.



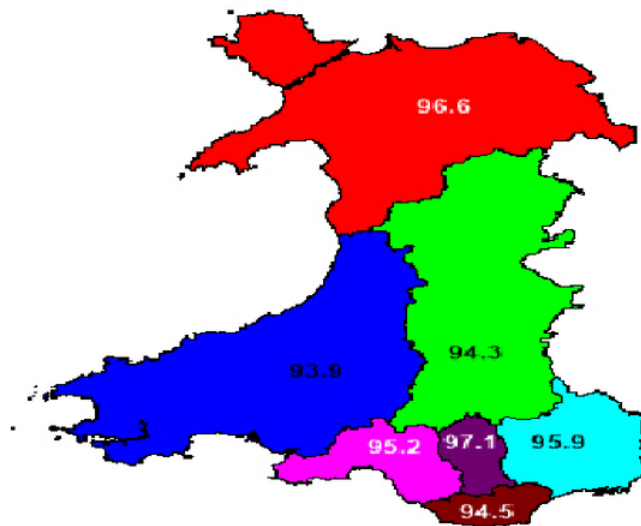
2008- 2010 Map

In 2010 The Public Health Wales VPDP has started routine monthly teleconferences with the coordinators of Immunisation of health board. From 2010 to 2012 with onwards efforts, the percentages started to more and more effectively and showed that many children have their vaccination on time. The map down illustrated the different percentages of Health Boards in Wales from 2010 to 2012.



2011-2013 Map

In 2014 to 2016 the Public Health Wales maintained and developed a big figure of resources to help and support improve the MMR uptake. The map down showed how the percentage has increased.



2014-2016 Map

For better understanding of why there is different percentage in Wales health boards, another data was collected from UK data services for checking economic activities for male and female for age 16 to 74 according to 22 counties authorities in Wales and the 22 counties authorities in Wales which show the richest people and counties which means the income for counties and people will help to have more health centres and spend more money for guiding the people for better health. Furthermore, the maps down showed how much the income for male and female in 22 areas, as well as, for the 22 counties in Wales.

Counties economic activities - Read-Only - Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	GEO_CODE	GEO_LABEL	GEO_TYPE	GEO_TYP2	Age 16 to 74 - In employment the week before the census											
2	W06000001	Isle of Anglesey	Local Authorities	LA		30431										
3	W06000002	Gwynedd	Local Authorities	LA		52961										
4	W06000003	Conwy	Local Authorities	LA		50093										
5	W06000004	Denbighshire	Local Authorities	LA		41156										
6	W06000005	Flintshire	Local Authorities	LA		74049										
7	W06000006	Wrexham	Local Authorities	LA		63614										
8	W06000008	Ceredigion	Local Authorities	LA		32446										
9	W06000009	Pembrokeshire	Local Authorities	LA		54217										
10	W06000010	Carmarthenshire	Local Authorities	LA		80640										
11	W06000011	Swansea	Local Authorities	LA		102793										
12	W06000012	Neath Port Talbot	Local Authorities	LA		58980										
13	W06000013	Bridgend	Local Authorities	LA		61259										
14	W06000014	The Vale of Glamorgan	Local Authorities	LA		58978										
15	W06000015	Cardiff	Local Authorities	LA		159614										
16	W06000016	Rhondda Cynon Taf	Local Authorities	LA		99317										
17	W06000018	Caerphilly	Local Authorities	LA		77488										
18	W06000019	Blaenau Gwent	Local Authorities	LA		28291										
19	W06000020	Torfaen	Local Authorities	LA		40261										
20	W06000021	Monmouthshire	Local Authorities	LA		42817										
21	W06000022	Newport	Local Authorities	LA		64408										
22	W06000023	Powys	Local Authorities	LA		63653										
23	W06000024	Merthyr Tydfil	Local Authorities	LA		25099										

Data_Counties economic activities

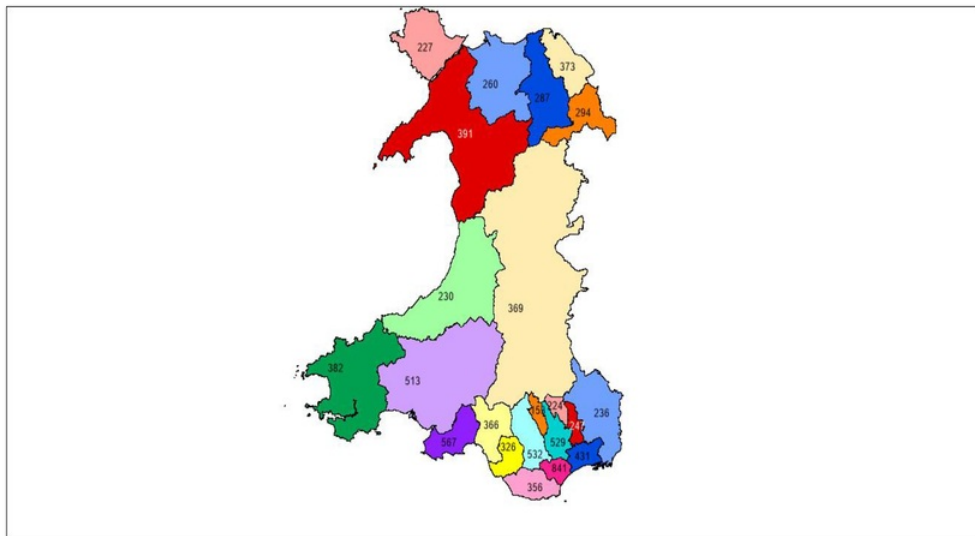
Counties authority's data in Wales.

Poor and rich - Read-Only - Excel

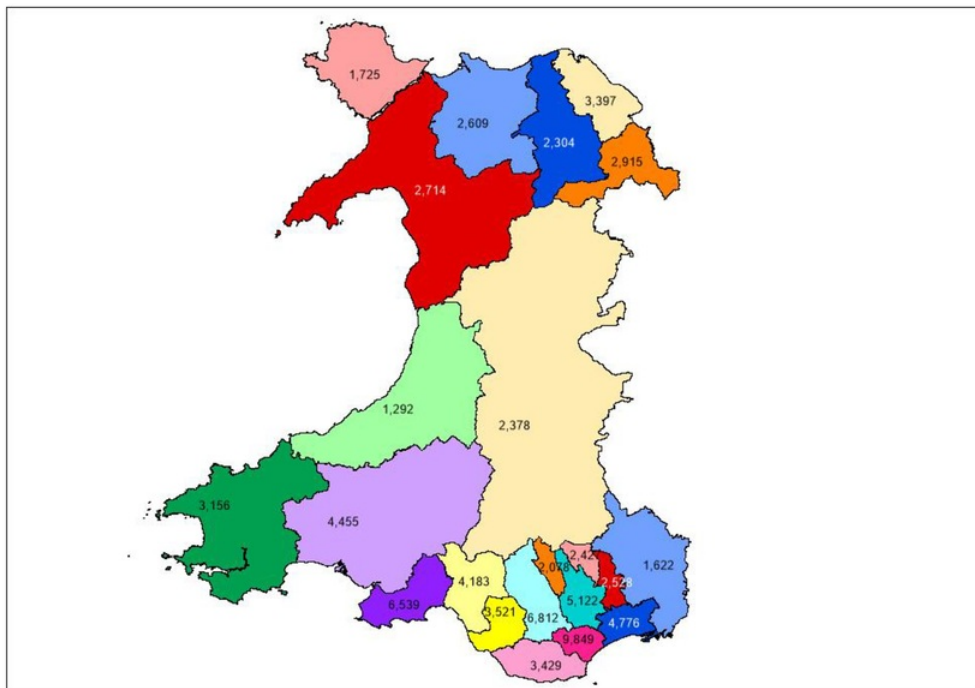
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	GEO_CODE	GEO_LABEL	GEO_TYPE	GEO_TYP2	Male	Female													
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3	W06000002	Gwynedd	Unitary Authorities	UA	891	2714													
4	W06000003	Conwy	Unitary Authorities	UA	260	2609													
5	W06000004	Denbighshire	Unitary Authorities	UA	287	2304													
6	W06000005	Flintshire	Unitary Authorities	UA	373	3397													
7	W06000006	Wrexham	Unitary Authorities	UA	294	2915													
8	W06000009	Powys	Unitary Authorities	UA	569	2378													
9	W06000008	Ceredigion	Unitary Authorities	UA	230	1292													
10	W06000009	Pembrokeshire	Unitary Authorities	UA	382	3156													
11	W06000010	Carmarthenshire	Unitary Authorities	UA	515	4495													
12	W06000011	Swansea	Unitary Authorities	UA	567	6559													
13	W06000012	Neath Port Talbot	Unitary Authorities	UA	368	4183													
14	W06000013	Bridgend	Unitary Authorities	UA	326	3521													
15	W06000014	The Vale of Glamorgan	Unitary Authorities	UA	858	3429													
16	W06000016	Rhondda Cynon Taf	Unitary Authorities	UA	532	6812													
17	W06000024	Merthyr Tydfil	Unitary Authorities	UA	155	2078													
18	W06000018	Caerphilly	Unitary Authorities	UA	539	5122													
19	W06000019	Blaenau Gwent	Unitary Authorities	UA	224	2427													
20	W06000020	Torfaen	Unitary Authorities	UA	247	2528													
21	W06000021	Monmouthshire	Unitary Authorities	UA	286	1822													
22	W06000022	Newport	Unitary Authorities	UA	451	4776													
23	W06000015	Cardiff	Unitary Authorities	UA	841	9889													

Data_Poor_and_rich

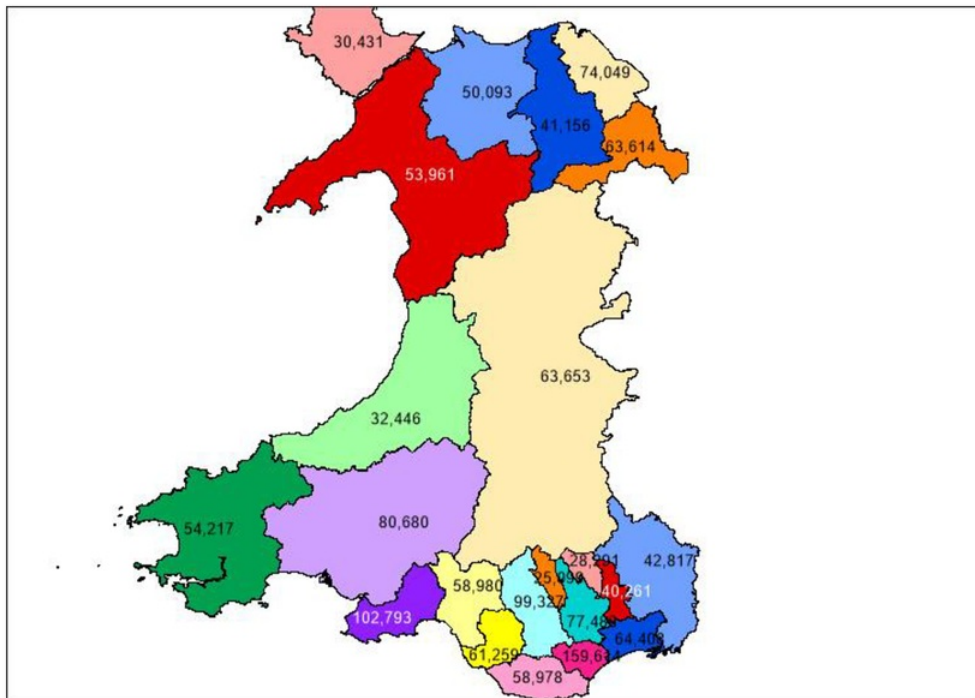
Income for male and female data according to 22 counties in Wales.



Males Approximately income according to 22 counties in Wales.



Females Approximately income according to 22 counties in Wales.



Age 16 to 74 in employment according to 22 counties authorities in Wales

The richest counties and people can improve the health services for all areas related to its location, but the poor people and counties might find difficult to improve or support some areas and that could be an inference of having many different percentages on Wales health boards.

6 - Discussion of Swansea MMR Vaccination

Two different ways were conducted to analyse the percentage of MMR in Swansea city.

firstly, how busy is Swansea and how the Population distribution? data were selected from the UK data service and Health map Wales to be analysed. The screenshot down is a part of the big excel sheet explained the data which was geocoded on MapInfo software to compare where are the busiest areas in Swansea. All data sheet in Appendix 1.

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24	286674	W00003569	W00003569	Output Areas and Small Areas	OASA	212	11	65	31	3	11	183	69	183	19	25	8.730676692	0.940438871	66.9172
25	286675	W00003570	W00003570	Output Areas and Small Areas	OASA	244	6	88	38	11	6	140	84	140	62	50	4.283714286	2.864939569	20
26	286676	W00003571	W00003571	Output Areas and Small Areas	OASA	199	13	69	38	3	3	118	29	118	37	46	2.542172681	0.940438871	29.6610
27	286677	W00003572	W00003572	Output Areas and Small Areas	OASA	253	11	61	34	6	12	156	76	156	32	21	2.692307692	1.671309192	66.0256
28	286678	W00003573	W00003573	Output Areas and Small Areas	OASA	228	15	89	41	8	4	118	15	118	32	66	3.389830508	2.144772118	16.9491
29	286679	W00003574	W00003574	Output Areas and Small Areas	OASA	227	13	92	28	5	7	119	12	119	49	54	5.882352941	1.388888889	13.4453
30	286680	W00003575	W00003575	Output Areas and Small Areas	OASA	255	12	60	51	3	19	150	66	150	21	17	12.66666667	0.793850794	74.6666
31	286681	W00003576	W00003576	Output Areas and Small Areas	OASA	180	5	52	23	3	12	109	37	109	8	21	11.00917431	1.153846154	73.3944
32	286682	W00003577	W00003577	Output Areas and Small Areas	OASA	224	9	36	35	2	19	129	55	129	13	14	14.72885217	0.607894737	79.0097
33	286683	W00003578	W00003578	Output Areas and Small Areas	OASA	193	18	56	26	4	9	111	40	111	30	33	8.106186106	1.355187713	43.2413
34	286684	W00003579	W00003579	Output Areas and Small Areas	OASA	94	17	34	14	1	2	47	5	47	20	20	4.255119149	0.628930818	14.8936
35	286685	W00003580	W00003580	Output Areas and Small Areas	OASA	89	4	15	4	1	7	94	62	94	4	3	7.446808511	0.892857143	92.5531
36	286686	W00003581	W00003581	Output Areas and Small Areas	OASA	161	10	25	20	5	19	132	91	132	4	0	14.39393939	2.314814815	96.9696
37	286687	W00003582	W00003582	Output Areas and Small Areas	OASA	371	17	97	57	42	24	185	59	185	49	43	12.97297297	7.749077491	50.2702
38	286688	W00003583	W00003583	Output Areas and Small Areas	OASA	299	21	76	88	28	14	161	52	161	59	34	8.695652174	6.451812903	42.2860
39	286689	W00003584	W00003584	Output Areas and Small Areas	OASA	289	15	71	86	17	18	159	70	159	61	42	11.32075472	4.136253041	35.2201
40	286690	W00003585	W00003585	Output Areas and Small Areas	OASA	229	8	66	51	15	11	127	44	127	31	43	8.661417323	5.367231638	41.7322
41	286691	W00003587	W00003587	Output Areas and Small Areas	OASA	198	8	62	32	13	8	125	52	125	42	26	6.4	4.333333333	45.6
42	286692	W00003588	W00003588	Output Areas and Small Areas	OASA	335	13	53	39	45	30	197	106	197	24	28	15.2284264	10.22727273	73.6040
43	286693	W00003589	W00003589	Output Areas and Small Areas	OASA	324	11	80	53	33	21	183	75	183	65	42	11.47540994	7.051262051	41.5360
44	286694	W00003590	W00003590	Output Areas and Small Areas	OASA	287	7	85	18	17	29	203	117	203	13	12	19.21182246	4.632152389	67.6947
45	286695	W00003591	W00003591	Output Areas and Small Areas	OASA	225	11	109	20	16	19	175	78	175	36	31	10.85714286	4.383501644	61.7142
46	286696	W00003592	W00003592	Output Areas and Small Areas	OASA	163	3	47	14	8	16	108	86	108	9	3	10.95909091	3.603603604	91.7808
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45	286696	W00003992	W00003992	Output Areas and Small Areas	OASA	163	3	42	14	8	18	148	86	146	9	3	10.95909411	3.603002804	91.7806
46	286697	W00003998	W00003998	Output Areas and Small Areas	OASA	260	12	80	12	40	49	165	55	165	28	18	8.79810345	10.98001909	70.7251
47	286698	W00003999	W00003999	Output Areas and Small Areas	OASA	68	2	11	3	7	25	124	88	124	64	7	20.14129632	8.23528418	26.6126
48	286699	W00003996	W00003996	Output Areas and Small Areas	OASA	211	11	57	11	13	51	197	138	197	10	9	35.78583487	4.482758621	90.3531
49	286700	W00003997	W00003997	Output Areas and Small Areas	OASA	484	18	68	45	22	12	146	60	146	43	31	8.219176882	3.60655737	49.31504
50	286701	W00003998	W00003998	Output Areas and Small Areas	OASA	225	15	47	21	14	12	140	72	140	29	27	5.574326571	4.545454545	60
51	286702	W00003999	W00003999	Output Areas and Small Areas	OASA	244	11	31	17	19	29	180	61	180	46	27	16.11111111	5.382436261	59.4444
52	286703	W00004001	W00004001	Output Areas and Small Areas	OASA	174	3	37	31	8	8	110	60	110	13	1	7.272727273	2.855306127	87.2727
53	286704	W00004002	W00004002	Output Areas and Small Areas	OASA	212	17	52	29	4	16	132	83	132	22	25	12.21321212	1.29023281	64.9399
54	286705	W00004003	W00004003	Output Areas and Small Areas	OASA	152	2	34	28	2	11	118	59	118	8	2	9.745512376	0.82952926	85.3752
55	286706	W00004004	W00004004	Output Areas and Small Areas	OASA	290	7	60	59	9	19	175	75	179	34	33	5.027932561	2.07373719	54.54
56	286707	W00004005	W00004005	Output Areas and Small Areas	OASA	142	4	33	26	7	6	109	65	109	31	16	5.504587156	3.144634146	56.8007
57	286708	W00004006	W00004006	Output Areas and Small Areas	OASA	193	4	32	26	9	15	157	131	157	3	2	9.544102372	3.52941705	96.8152
58	286709	W00004007	W00004007	Output Areas and Small Areas	OASA	217	12	81	31	8	4	136	51	136	37	38	4.541176741	2.846011056	44.8529
59	286710	W00004008	W00004008	Output Areas and Small Areas	OASA	152	2	59	20	2	15	185	115	185	11	11	4.10102808	2.11891068	2.0144
60	286711	W00004009	W00004009	Output Areas and Small Areas	OASA	119	2	7	20	18	149	122	149	122	149	7	7.407707767	7.407707767	93.9597
61	286712	W00004010	W00004010	Output Areas and Small Areas	OASA	285	12	72	83	5	10	122	40	122	40	81	8.509723313	1.400450545	41.8932
62	286713	W00004011	W00004011	Output Areas and Small Areas	OASA	129	6	24	13	11	9	110	97	110	2	1	8.181818182	6.355348037	97.2727
63	286714	W00004012	W00004012	Output Areas and Small Areas	OASA	160	7	44	17	6	6	108	58	108	16	31	5.555555556	2.631578947	56.4814
64	286715	W00004013	W00004013	Output Areas and Small Areas	OASA	213	21	82	83	18	6	127	43	127	31	31	4.734409449	5.278592375	51.18131
65	286716	W00004014	W00004014	Output Areas and Small Areas	OASA	178	9	27	16	11	18	129	87	129	3	4	13.95348837	4.782506896	94.5726
66	286717	W00004015	W00004015	Output Areas and Small Areas	OASA	181	6	53	29	7	10	124	71	124	29	19	8.009516129	2.602234083	61.2502
67	286718	W00004016	W00004016	Output Areas and Small Areas	OASA	300	17	97	33	22	12	169	65	169	16	22	7.169451164	4.97723566	72.5147
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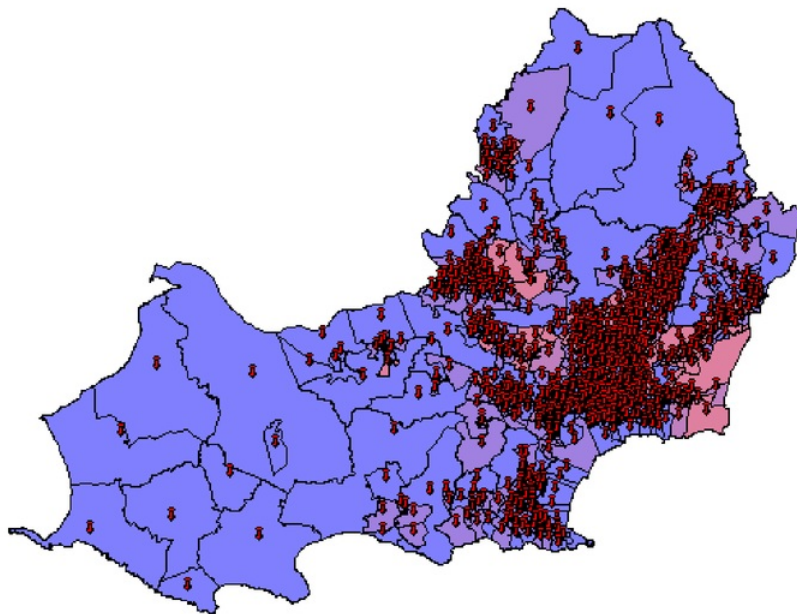
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Calibri11AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWwXxYyZz[]_{}~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-%&'"@#&^&*~<>=+-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TownsendScoreUsingInfluxDataMapInfoImport - Excel																
Essam Alghazee (P147174)																
A110																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
89	286740	W00004039	W00004039	Output Areas and Small Areas	OASA	143	7	46	13	3	5	121	51	121	26	16
90	286741	W00004040	W00004040	Output Areas and Small Areas	OASA	208	9	61	33	5	17	120	43	120	29	16
91	286742	W00004041	W00004041	Output Areas and Small Areas	OASA	203	16	78	22	2	9	123	28	123	48	45
92	286743	W00004042	W00004042	Output Areas and Small Areas	OASA	200	10	45	32	4	6	122	44	122	32	29
93	286744	W00004043	W00004043	Output Areas and Small Areas	OASA	219	18	96	34	5	1	135	17	135	51	63
94	286745	W00004044	W00004044	Output Areas and Small Areas	OASA	256	12	75	45	7	3	149	28	149	74	44
95	286746	W00004045	W00004045	Output Areas and Small Areas	OASA	243	17	82	41	4	11	146	41	146	14	61
96	286747	W00004046	W00004046	Output Areas and Small Areas	OASA	187	13	63	31	4	4	111	8	111	56	36
97	286748	W00004047	W00004047	Output Areas and Small Areas	OASA	201	15	56	30	4	10	126	32	126	15	29
98	286749	W00004048	W00004048	Output Areas and Small Areas	OASA	163	10	62	17	1	3	108	13	108	43	44
99	286750	W00004049	W00004049	Output Areas and Small Areas	OASA	230	4	67	51	6	10	138	45	138	29	34
100	286751	W00004050	W00004050	Output Areas and Small Areas	OASA	204	13	73	34	3	3	122	32	122	16	38
101	286752	W00004051	W00004051	Output Areas and Small Areas	OASA	188	13	70	17	6	3	117	32	117	43	42
102	286753	W00004052	W00004052	Output Areas and Small Areas	OASA	202	14	58	36	3	3	116	10	116	58	50
103	286754	W00004053	W00004053	Output Areas and Small Areas	OASA	187	5	84	33	11	2	104	19	104	43	45
104	286755	W00004054	W00004054	Output Areas and Small Areas	OASA	216	17	60	28	3	1	140	21	140	92	38
105	286756	W00004055	W00004055	Output Areas and Small Areas	OASA	217	8	83	35	7	2	138	24	138	71	50
106	286757	W00004056	W00004056	Output Areas and Small Areas	OASA	221	19	82	37	5	5	140	29	140	59	51
107	286758	W00004057	W00004057	Output Areas and Small Areas	OASA	217	11	69	32	10	5	120	48	120	21	22
108	286759	W00004058	W00004058	Output Areas and Small Areas	OASA	230	10	76	39	5	10	120	37	120	22	31
109	286760	W00004059	W00004059	Output Areas and Small Areas	OASA	218	24	79	44	12	6	122	21	122	53	51
110	286761	W00004060	W00004060	Output Areas and Small Areas	OASA	259	18	112	64	7	0	131	4	131	52	72
111	286762	W00004061	W00004061	Output Areas and Small Areas	OASA	192	3	73	30	3	5	122	23	122	51	38

TownsendScoreUsingInfluxDataMapInfoImport - Excel																
Essam Alghazee (P147174)																
A132																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
111	286762	W00004061	W00004061	Output Areas and Small Areas	OASA	192	3	73	30	3	5	122	23	122	51	38
112	286763	W00004062	W00004062	Output Areas and Small Areas	OASA	240	12	66	47	12	11	137	42	137	47	37
113	286764	W00004063	W00004063	Output Areas and Small Areas	OASA	196	12	53	38	6	6	120	28	120	29	26
114	286765	W00004064	W00004064	Output Areas and Small Areas	OASA	231	17	110	39	7	1	122	15	122	46	61
115	286766	W00004065	W00004065	Output Areas and Small Areas	OASA	249	14	91	51	6	7	132	13	132	33	57
116	286767	W00004066	W00004066	Output Areas and Small Areas	OASA	156	9	38	23	3	4	121	51	121	21	11
117	286768	W00004067	W00004067	Output Areas and Small Areas	OASA	235	17	79	38	6	10	157	62	157	26	55
118	286769	W00004068	W00004068	Output Areas and Small Areas	OASA	63	5	14	7	0	45	105	70	105	22	5
119	286770	W00004069	W00004069	Output Areas and Small Areas	OASA	146	7	33	24	4	3	113	55	113	8	14
120	286771	W00004070	W00004070	Output Areas and Small Areas	OASA	200	16	73	42	8	6	122	16	122	56	48
121	286772	W00004071	W00004071	Output Areas and Small Areas	OASA	425	31	180	79	13	7	227	23	227	59	114
122	286773	W00004072	W00004072	Output Areas and Small Areas	OASA	205	13	74	30	2	0	129	15	129	77	89
123	286774	W00004073	W00004073	Output Areas and Small Areas	OASA	343	22	134	48	8	2	189	19	189	79	72
124	286775	W00004074	W00004074	Output Areas and Small Areas	OASA	172	13	56	28	4	3	114	24	114	60	41
125	286776	W00004075	W00004075	Output Areas and Small Areas	OASA	413	24	174	68	15	6	250	54	250	66	126
126	286777	W00004076	W00004076	Output Areas and Small Areas	OASA	211	7	69	36	5	1	131	30	131	65	48
127	286778	W00004077	W00004077	Output Areas and Small Areas	OASA	211	10	69	32	9	7	121	45	121	32	42
128	286779	W00004078	W00004078	Output Areas and Small Areas	OASA	343	29	151	55	10	12	198	29	198	63	89
129	286780	W00004079	W00004079	Output Areas and Small Areas	OASA	275	22	128	41	8	3	148	18	148	44	63
130	286781	W00004080	W00004080	Output Areas and Small Areas	OASA	158	17	77	27	6	8	126	35	126	45	44
131	286782	W00004081	W00004081	Output Areas and Small Areas	OASA	228	8	119	30	13	6	136	18	136	20	63
132	286783	W00004082	W00004082	Output Areas and Small Areas	OASA	220	9	59	35	3	5	112	41	112	11	25
133	286784	W00004083	W00004083	Output Areas and Small Areas	OASA	198	6	72	32	6	6	113	38	113	28	32

The data was a huge data which contains many information about Swansea city. The map down showed how busy is Swansea and how the Population distribution.



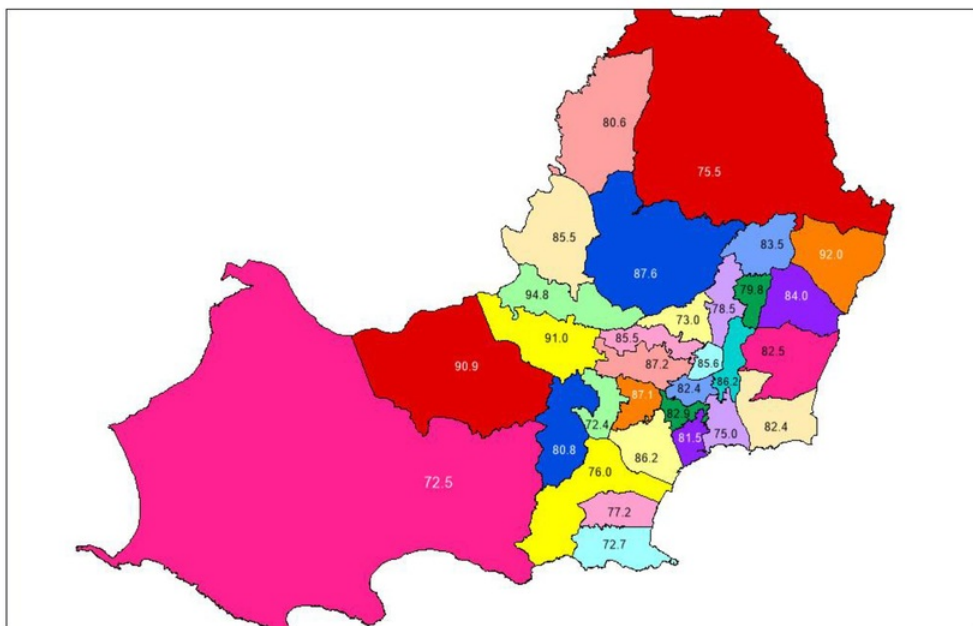
The 31 Areas map above in Swansea was analysed as followed:

The red icons illustrated the busiest areas in Swansea, the less red icons the fewer people are living there and the redder icons, the more people living there which means that the more health centres are there, and the more health services are available. Subsequently, another data was collected for MMR age 2 from 2003 to 2016 for children improvements in Swansea 31 areas for better visualisation using MapInfo software.

The Excel sheet down illustrated the data which was collected from different sources such as UK data services and Health map wales and arranged using excel to be geocoded on MapInfo software for the purpose of showing how the MMR vaccination improved in Swansea 31 areas using Maps.

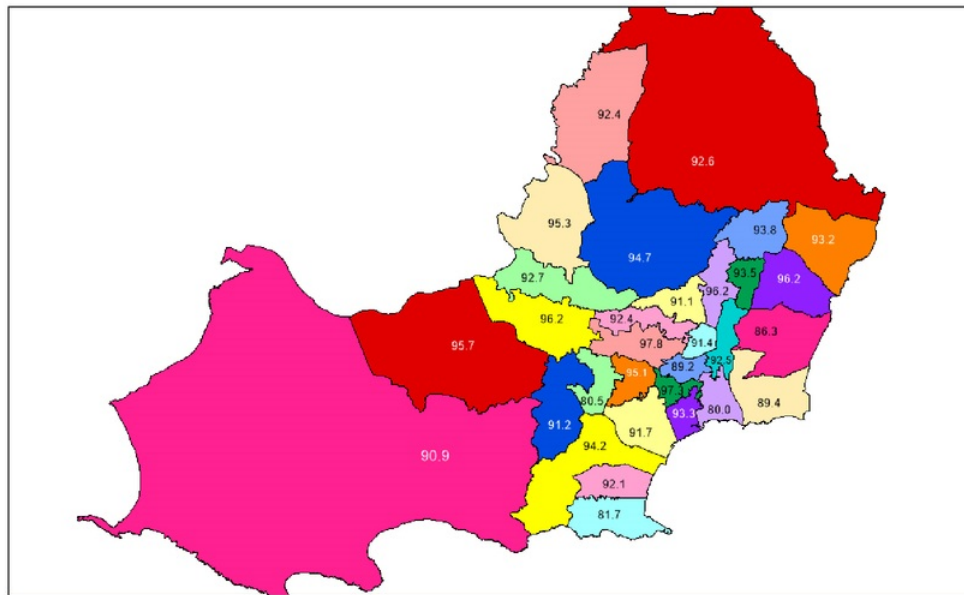
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Codes	Names	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	LI	UL
2	W02000168	Swansea 001	81.6	77.8	80.6	89.8	88.2	88.1	82.4	87.6	82.2	88.6	87.6	100.0	100.0	87.3	90.7	89.3
3	W02000169	Swansea 002	88.9	73.7	75.5	83.3	86.1	84.3	82.6	82.3	86.7	85.5	87.1	86.6	86.6	84.8	88.4	87.8
4	W02000170	Swansea 003	73.7	75.3	83.5	88.6	80.9	86.9	83.8	84.1	87.6	86.7	89.0	87.8	88.7	87.0	82.1	89.4
5	W02000171	Swansea 004	73.7	80.9	87.6	88.0	81.7	86.6	84.7	83.1	80.5	85.4	85.8	83.3	87.1	86.7	89.6	86.3
6	W02000172	Swansea 005	86.0	82.1	85.5	83.2	88.4	81.6	85.3	81.4	86.9	82.0	84.6	87.5	86.7	82.4	86.1	86.9
7	W02000173	Swansea 006	84.4	88.6	82.0	87.2	86.4	86.4	83.2	85.1	84.4	86.9	88.3	88.2	86.9	89.2	85.4	89.9
8	W02000174	Swansea 007	81.8	88.1	84.8	88.6	89.4	80.6	83.7	83.8	86.8	87.6	89.0	89.0	83.9	86.7	81.9	88.7
9	W02000175	Swansea 008	86.7	79.9	79.8	81.4	87.2	89.9	83.5	82.1	82.6	86.9	86.6	87.1	88.0	87.1	81.8	89.0
10	W02000176	Swansea 009	86.1	86.4	88.5	88.7	81.3	89.0	86.2	81.0	85.7	85.9	84.4	86.6	87.8	86.5	80.1	88.8
11	W02000177	Swansea 010	81.1	86.5	84.0	83.2	80.2	81.2	86.2	80.7	81.1	85.5	89.1	87.9	100.0	87.9	82.8	89.4
12	W02000178	Swansea 011	87.2	80.3	83.0	84.8	82.5	84.8	81.1	87.3	81.8	83.8	87.0	80.6	88.5	85.4	80.8	87.8
13	W02000179	Swansea 012	89.4	83.3	81.0	87.1	82.2	82.9	86.2	89.1	86.2	80.8	88.7	100.0	88.1	100.0	82.6	100.0
14	W02000180	Swansea 013	88.0	86.2	88.5	85.4	83.5	86.5	82.4	81.9	83.2	83.6	88.1	87.5	87.3	85.3	89.5	88.0
15	W02000181	Swansea 014	72.9	77.2	82.5	81.9	79.8	82.4	86.3	89.3	89.6	81.3	87.7	86.3	82.5	83.6	86.8	87.0
16	W02000182	Swansea 015	86.4	78.1	88.6	79.2	83.1	84.1	81.4	83.8	82.0	84.6	100.0	84.2	82.7	83.0	88.6	86.8
17	W02000183	Swansea 016	70.1	75.7	86.2	87.9	88.9	89.8	82.5	89.7	82.1	83.3	87.1	89.0	85.1	86.8	82.1	86.8
18	W02000184	Swansea 017	76.1	73.0	87.2	87.0	80.0	82.7	87.8	82.5	83.7	86.3	100.0	100.0	86.5	86.6	89.1	86.3
19	W02000185	Swansea 018	80.5	80.9	86.7	89.1	82.2	85.7	87.5	87.9	84.9	83.3	87.0	83.0	100.0	80.8	100.0	80.0
20	W02000186	Swansea 019	82.7	80.4	82.4	88.9	81.9	82.2	89.2	82.4	86.9	89.0	88.4	86.5	88.6	80.2	84.7	83.9
21	W02000187	Swansea 020	81.1	80.3	80.8	80.4	89.3	84.9	81.2	86.7	85.1	100.0	81.8	88.1	86.1	84.8	85.9	88.2
22	W02000188	Swansea 021	89.2	88.5	82.4	86.8	89.4	89.2	89.2	89.2	82.3	87.0	86.2	84.9	88.5	84.8	88.5	87.8
23	W02000189	Swansea 022	89.3	81.4	87.1	85.6	82.9	84.7	85.1	80.6	84.0	88.6	86.3	86.6	81.5	87.3	80.7	89.3
24	W02000190	Swansea 023	86.0	89.4	82.4	84.6	81.1	89.7	80.5	89.7	86.8	89.6	100.0	86.6	87.5	84.7	82.7	86.5
25	W02000191	Swansea 024	85.3	87.6	82.9	89.3	80.9	81.3	87.3	89.5	89.7	80.0	86.4	81.9	83.3	87.9	84.1	86.0
26	W02000192	Swansea 025	81.4	81.6	85.0	81.6	87.8	80.4	80.0	80.0	86.0	84.2	84.7	83.2	84.2	84.5	73.1	81.6
27	W02000193	Swansea 026	81.7	81.3	81.5	86.9	82.1	87.3	83.3	85.1	81.9	88.0	100.0	81.7	82.6	89.7	86.4	86.9
28	W02000194	Swansea 027	80.5	81.4	86.2	88.1	87.4	84.4	81.7	88.6	89.3	85.9	85.5	86.4	100.0	83.2	100.0	80.0
29	W02000195	Swansea 028	81.4	88.1	86.0	85.0	86.5	88.8	84.2	83.2	80.6	84.4	85.6	81.7	100.0	85.0	83.5	88.6
30	W02000196	Swansea 029	85.2	86.7	87.2	89.3	81.9	86.2	82.1	84.9	80.0	85.2	86.9	86.2	89.1	80.1	89.7	80.0
31	W02000197	Swansea 030	87.1	81.8	82.5	83.9	87.8	80.0	80.9	83.1	86.5	81.7	87.4	100.0	81.7	84.4	88.2	81.1
32	W02000198	Swansea 031	84.8	89.0	87.2	83.7	82.4	87.2	81.7	86.1	82.6	80.9	100.0	89.7	82.4	86.0	86.5	88.9

For having a better view of the data and the percentage on every 31 areas in Swansea, creating maps with percentage could help understand how MMR vaccination got improved. Since 2003 to 2006 the map down showed that the percentages were between approximately 72 to 90 which means, around 15 percentages of the children do not have MMR vaccination which is a massive number.



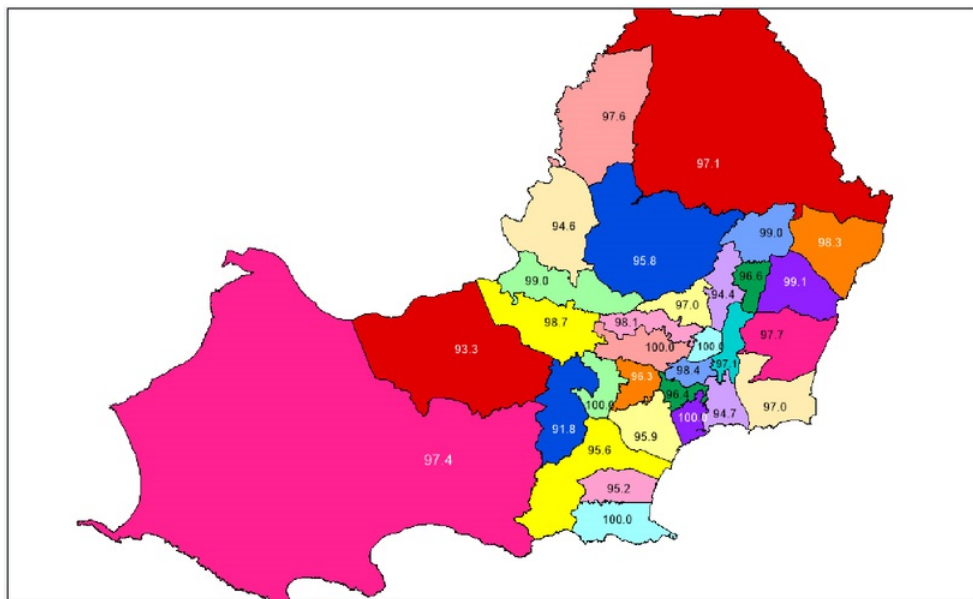
2003-2006 Map

Since that time the government started to examine and report on all adjustable factors which could be improved control of measles, mumps, and rubella in Wales. In 2005 Task group reported that some steps necessary to prevent illness and the Welsh assembly issued policy (WHC (2005)081) required Health Boards to participate in a coordinated national MMR catch up, which improved the MMR vaccination percentage. In 2007 – 2010 The percentage was higher as many procedures were considered by the Welsh Assembly Government and the health protection agency (HPA). The map down showed how the percentage got higher [17].



2007-2010 Map

As the percentage is growing up the Welsh assembly work was carried out to hit the aim of providing all the children with MMR vaccination. From 2011 to 2014 the aim of Welsh government was nearly achievable, the map down showed how the percentage improved.



It clearly shows that the percentage number is getting bigger from year to year. And in 2014 – 2016 some areas were affected as the percentage went down for an unknowing reason, the map down showed how the percentage changed [18].

7 - Types of Data involved in Geo-information systems

Several types of data values can represent phenomena which illustrated as followed:

- **Numeric Data** is statistical data that contains a geographical component or area could be connected with vector files which can create a query and display it as a layer on a map in a Geographical information system. Furthermore, Microsoft Excel could be used for gathering a different type of huge data as one sheet and organize it and arrange it in the right format to be geocoded and displayed as a layer in MapInfo software to be analysed and produce new information. Example of Numeric data for better understanding [19].

	A	B	C	D	E	F	G	H	I
	GEO_ID	GEO_ID2	SUMLEVEL	GEO_NAME	P003001	P003002	P003003	P003004	P003005
1	Geography Identifier	Geography Identifier	Geographic Summary Level	Geography	Total population: Total	Total population: Population of one race	Total population: Population of one race, White alone	Total population: Population of one race, Black or African	Total population: Population of one race, American Indian and Alaska
2									
3	14200US36067000100	3606700100	140	Onondaga County	393	390	341	74	9
4	14200US36067000200	3606700200	140	Onondaga County	3279	3168	2657	259	85
5	14200US36067000300	3606700300	140	Onondaga County	1804	1568	1439	31	17
6	14200US36067000400	3606700400	140	Onondaga County	3630	3080	3406	37	29
7	14200US36067000500	3606700500	140	Onondaga County	1251	1175	925	115	20
8	14200US36067000600	3606700600	140	Onondaga County	2160	2004	2419	37	26
9	14200US36067000700	3606700700	140	Onondaga County	1630	1583	1259	124	18
10	14200US36067000800	3606700800	140	Onondaga County	2422	2363	2801	181	28
11	14200US36067000900	3606700900	140	Onondaga County	3368	3311	3118	101	7
12	14200US36067001000	3606700100	140	Onondaga County	3936	3837	3130	659	30
13	14200US36067001100	36067001100	140	Onondaga County	1130	1059	619	154	36
14	14200US36067001200	36067001200	140	Onondaga County	2642	2502	1749	236	50
15	14200US36067001300	36067001300	140	Onondaga County	2249	2121	1961	241	69
16	14200US36067001400	36067001400	140	Onondaga County	2807	2719	1931	601	28

- **Vector Data:** Is data that include a spatial component, which can contain sets of lines, points, or polygons that are indicated in a geographic space. This type is useful for storing data that has detached boundaries, such as houses, streets, and country borders.

Example of Vector Data type [20].



- **Raster Data:** Is data such as TIF, GIF, JPG format or similar format. These data can be scanned using a flatbed scanner. Furthermore, this data is made up of pixels, each pixel has its own value or class. Raster data consist of two categories, discrete which has distinct categories and continuous which is non-discrete [21].



8 - Conclusion

GIS allows users to gather, create, analyse and visualize data in a completed database for use in a vast set of disciplines. Furthermore, the power of GIS has turned the data to a useful information by using technology, thus, analysing MMR Vaccination uptake for children year 2 was produced by using GIS and MapInfo for the purpose of demonstrating how can technology using maps present data for better understanding of the data. The maps showed the improvement of uptake MMR vaccination in all Wales Health Boards and then narrow it to cities. Furthermore, Swansea city was considered for showing the improvement of uptake MMR vaccination using GIS and MapInfo which showed the power of GIS and technology in displaying the data to users for better understanding.

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10 - Appendix

Excel screenshot showing a data table with columns A through S. The table contains data for various locations and metrics, including %Overcrowding, %Unemployment, and %NotOwned.

CDU_ID	GEO_CODE	GEO_LABEL	GEO_TYPE	GEO_TY2	F243	F305596	F323145	F323144	F267	F2375	F2376	F109344	F132440	F32442	F355886	%Overcrowding	%Unemployment	%NotOwned
2	286653	W00001947	Output Areas and Small Areas	OASA	165	20	59	83	5	0	101	5	101	52	40	0	1.80204152	8.91089
3	286654	W00001948	Output Areas and Small Areas	OASA	196	27	72	29	4	5	128	9	128	68	42	8.90623	1.384567901	14.06
4	286655	W00001949	Output Areas and Small Areas	OASA	137	18	45	21	3	2	102	20	102	70	26	1.960784314	1.357466063	5.88235
5	286656	W00001950	Output Areas and Small Areas	OASA	182	24	57	33	4	2	112	7	112	63	37	1.785714286	1.351351351	10.7142
6	286657	W00001951	Output Areas and Small Areas	OASA	174	16	59	29	3	1	115	10	115	70	40	0.869565217	1.079136691	4.34782
7	286658	W00001952	Output Areas and Small Areas	OASA	158	13	38	27	9	0	112	17	112	80	24	0	3.81359322	7.14285
8	286659	W00001953	Output Areas and Small Areas	OASA	180	21	54	26	4	0	125	15	125	86	35	0	1.423487544	3.2
9	286660	W00001954	Output Areas and Small Areas	OASA	199	13	72	80	3	2	134	13	134	79	44	1.492537313	0.955414013	8.20895
10	286661	W00001955	Output Areas and Small Areas	OASA	198	26	58	23	4	0	125	13	125	88	34	0	1.31147541	2.4
11	286662	W00001956	Output Areas and Small Areas	OASA	216	43	72	34	1	5	156	17	156	66	53	3.676470588	0.271972603	12.5
12	286663	W00001957	Output Areas and Small Areas	OASA	149	14	57	13	1	33	104	24	104	22	19	31.73076923	0.429104549	60.5766
13	286664	W00001958	Output Areas and Small Areas	OASA	247	40	84	32	10	5	169	35	169	101	46	2.358579882	2.401309578	13.0177
14	286665	W00001960	Output Areas and Small Areas	OASA	253	9	50	30	6	14	149	70	149	21	18	9.395973154	1.754385965	73.8255
15	286666	W00001961	Output Areas and Small Areas	OASA	267	10	114	36	8	5	148	20	148	80	49	3.37837878	1.8735363	12.8378
16	286667	W00001962	Output Areas and Small Areas	OASA	212	16	74	82	4	1	127	19	127	81	38	0.787401575	1.19760479	6.29921
17	286668	W00001963	Output Areas and Small Areas	OASA	270	26	100	47	9	8	186	16	186	53	66	5.882352941	2.031802709	12.5
18	286669	W00001964	Output Areas and Small Areas	OASA	205	18	72	46	4	2	116	26	116	46	55	1.724137931	1.173020528	12.9310
19	286670	W00001965	Output Areas and Small Areas	OASA	195	6	52	28	2	10	126	67	126	11	21	7.936507937	0.711743772	74.6031
20	286671	W00001966	Output Areas and Small Areas	OASA	243	25	85	30	0	0	131	23	131	70	47	0	0	10.6390
21	286672	W00001967	Output Areas and Small Areas	OASA	154	3	56	21	6	5	107	45	107	35	29	4.672897195	2.564102564	40.1869
22	286673	W00001968	Output Areas and Small Areas	OASA	204	12	75	28	3	8	120	38	120	45	27	6.666666667	0.940438871	40
23	286674	W00001969	Output Areas and Small Areas	OASA	212	11	65	81	4	11	133	69	133	19	25	8.270676692	0.940438871	66.9172

Excel screenshot showing a data table with columns A through S. The table contains data for various locations and metrics, including %Overcrowding, %Unemployment, and %NotOwned.

CDU_ID	GEO_CODE	GEO_LABEL	GEO_TYPE	GEO_TY2	F243	F305596	F323145	F323144	F267	F2375	F2376	F109344	F132440	F32442	F355886	%Overcrowding	%Unemployment	%NotOwned
23	286674	W00001969	Output Areas and Small Areas	OASA	212	11	65	81	4	11	133	69	133	19	25	8.270676692	0.940438871	66.9172
24	286675	W00001970	Output Areas and Small Areas	OASA	244	6	83	38	11	6	140	34	140	62	50	4.285714286	2.964959569	29.6610
25	286676	W00001971	Output Areas and Small Areas	OASA	199	13	69	38	3	3	118	29	118	37	46	2.542272881	0.940438871	29.6610
26	286677	W00001972	Output Areas and Small Areas	OASA	253	11	81	34	6	22	156	76	156	32	21	7.692307692	1.671309192	66.0256
27	286678	W00001973	Output Areas and Small Areas	OASA	228	15	89	41	8	4	118	15	118	32	66	3.88888008	2.164772118	16.9491
28	286679	W00001974	Output Areas and Small Areas	OASA	227	13	92	28	5	7	119	12	119	49	54	5.882352941	1.388888889	13.4453
29	286680	W00001975	Output Areas and Small Areas	OASA	255	12	60	51	3	19	150	66	150	21	17	12.66666667	0.793850794	74.6666
30	286681	W00001976	Output Areas and Small Areas	OASA	180	5	52	23	3	12	109	37	109	0	21	11.00917431	1.153846154	73.9944
31	286682	W00001977	Output Areas and Small Areas	OASA	224	9	36	35	2	19	129	55	129	13	14	14.7286212	0.657894737	79.0979
32	286683	W00001978	Output Areas and Small Areas	OASA	193	18	56	26	4	9	111	40	111	20	33	8.108108108	1.365187713	42.2432
33	286684	W00001979	Output Areas and Small Areas	OASA	94	17	24	14	1	2	47	5	47	20	20	4.255319149	0.628930818	14.8936
34	286685	W00001980	Output Areas and Small Areas	OASA	89	4	15	4	1	7	94	62	94	4	8	7.446808511	0.892857143	92.5531
35	286686	W00001981	Output Areas and Small Areas	OASA	161	10	25	20	5	19	132	91	132	4	0	14.88989899	2.148184815	96.9696
36	286687	W00001982	Output Areas and Small Areas	OASA	371	17	97	57	42	24	185	59	185	49	43	12.97297297	7.749077491	50.2702
37	286688	W00001983	Output Areas and Small Areas	OASA	299	21	76	38	28	34	161	52	161	59	34	8.695652174	6.451612903	42.2360
38	286689	W00001984	Output Areas and Small Areas	OASA	289	15	71	36	17	18	159	70	159	61	42	11.82075472	4.136253041	35.2201
39	286690	W00001985	Output Areas and Small Areas	OASA	229	8	66	51	19	11	127	44	127	31	43	8.661617223	5.367231838	41.7328
40	286691	W00001987	Output Areas and Small Areas	OASA	198	8	62	32	13	8	125	52	125	42	28	6.4	4.333333333	45.6
41	286692	W00001988	Output Areas and Small Areas	OASA	835	13	53	89	45	80	197	106	197	24	28	15.2284294	10.22727273	73.6040
42	286693	W00001989	Output Areas and Small Areas	OASA	824	11	80	53	83	21	183	75	183	65	42	11.47540884	7.051282051	41.5300
43	286694	W00001990	Output Areas and Small Areas	OASA	257	7	85	18	17	39	203	117	203	13	12	15.21182266	4.632152589	87.6847
44	286695	W00001991	Output Areas and Small Areas	OASA	225	11	109	20	16	19	175	78	175	36	31	10.85714286	4.383561644	61.7142
45	286696	W00001992	Output Areas and Small Areas	OASA	163	3	47	14	8	16	146	86	146	9	3	10.909090411	1.601601604	91.7888

TownsandScoreUsingInfuseDataMapInfoImport - Excel																
Exam Alghzee (P147174)																
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
45	286695	W00003992	Output Areas and Small Areas	OASA	163	3	42	14	8	16	146	86	146	9	3	10.95890411
46	286697	W00003993	Output Areas and Small Areas	OASA	260	12	80	12	40	49	145	55	145	23	18	33.79310345
47	286698	W00003995	Output Areas and Small Areas	OASA	69	2	11	3	7	25	124	88	124	84	7	20.16129632
48	286699	W00003996	Output Areas and Small Areas	OASA	211	11	57	11	13	51	197	138	197	10	9	25.88832487
49	286700	W00003997	Output Areas and Small Areas	OASA	484	18	68	45	22	12	146	60	146	48	31	8.219178082
50	286701	W00003998	Output Areas and Small Areas	OASA	225	15	47	21	14	12	140	72	140	29	27	8.571428571
51	286702	W00003999	Output Areas and Small Areas	OASA	244	11	81	17	19	29	180	61	180	46	27	16.11111111
52	286703	W00004001	Output Areas and Small Areas	OASA	174	3	37	31	8	8	110	60	110	13	1	7.272727273
53	286704	W00004002	Output Areas and Small Areas	OASA	212	17	52	29	4	16	132	63	132	22	25	12.12121212
54	286705	W00004003	Output Areas and Small Areas	OASA	152	2	34	28	2	11	113	59	113	3	2	9.749513274
55	286706	W00004004	Output Areas and Small Areas	OASA	290	7	83	54	9	9	179	75	179	34	23	5.027932961
56	286707	W00004005	Output Areas and Small Areas	OASA	142	4	38	26	7	6	109	65	109	31	16	5.508587156
57	286708	W00004006	Output Areas and Small Areas	OASA	193	4	32	26	9	15	157	131	157	3	2	9.554140127
58	286709	W00004007	Output Areas and Small Areas	OASA	217	12	81	31	8	4	136	51	136	37	38	2.941176471
59	286710	W00004008	Output Areas and Small Areas	OASA	155	2	59	20	5	5	116	76	116	11	11	4.310344828
60	286711	W00004009	Output Areas and Small Areas	OASA	115	2	11	7	10	18	149	122	149	7	2	12.08053691
61	286712	W00004010	Output Areas and Small Areas	OASA	235	12	72	33	5	10	122	40	122	40	31	8.196721311
62	286713	W00004011	Output Areas and Small Areas	OASA	129	6	24	13	11	9	110	97	110	2	1	8.181818182
63	286714	W00004012	Output Areas and Small Areas	OASA	160	7	44	17	6	6	108	58	108	16	31	5.555555556
64	286715	W00004013	Output Areas and Small Areas	OASA	218	12	83	38	18	6	127	48	127	31	31	4.724949495
65	286716	W00004014	Output Areas and Small Areas	OASA	178	9	27	16	11	18	129	87	129	3	4	13.95348837
66	286717	W00004015	Output Areas and Small Areas	OASA	181	6	53	29	7	10	124	71	124	29	19	8.046516129
67	286718	W00004016	Output Areas and Small Areas	OASA	300	12	97	33	22	12	169	65	169	16	22	2.107591716

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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
67	286718	W00004016	Output Areas and Small Areas	OASA	800	12	97	33	22	12	169	65	169	16	22	2.107591716
68	286719	W00004017	Output Areas and Small Areas	OASA	225	26	65	34	14	12	128	54	128	52	34	9.375
69	286720	W00004018	Output Areas and Small Areas	OASA	439	19	60	37	75	78	213	111	213	21	17	36.61971831
70	286721	W00004019	Output Areas and Small Areas	OASA	280	7	51	13	48	22	131	69	131	27	18	16.79389313
71	286722	W00004020	Output Areas and Small Areas	OASA	287	10	79	31	39	9	142	57	142	29	25	6.388026169
72	286723	W00004021	Output Areas and Small Areas	OASA	286	9	54	20	59	17	116	53	116	21	19	14.65517241
73	286724	W00004022	Output Areas and Small Areas	OASA	276	10	51	27	44	17	117	47	117	24	25	14.52891438
74	286725	W00004023	Output Areas and Small Areas	OASA	221	8	48	24	26	32	125	70	125	14	12	25.6
75	286726	W00004025	Output Areas and Small Areas	OASA	275	11	60	21	45	14	122	48	122	18	18	11.47540584
76	286727	W00004026	Output Areas and Small Areas	OASA	196	7	54	23	24	40	126	71	126	11	11	31.74603175
77	286728	W00004027	Output Areas and Small Areas	OASA	334	13	60	33	48	46	168	97	168	17	20	27.38095238
78	286729	W00004028	Output Areas and Small Areas	OASA	344	25	33	31	58	20	117	47	117	28	31	17.09401709
79	286730	W00004029	Output Areas and Small Areas	OASA	270	12	60	29	24	77	184	139	184	16	13	41.84782609
80	286731	W00004030	Output Areas and Small Areas	OASA	235	9	116	43	6	3	193	18	193	49	64	2.250638088
81	286732	W00004031	Output Areas and Small Areas	OASA	254	27	91	89	5	2	141	12	141	72	48	1.418489716
82	286733	W00004032	Output Areas and Small Areas	OASA	231	19	84	44	7	4	129	18	129	49	62	3.100775194
83	286734	W00004033	Output Areas and Small Areas	OASA	362	17	135	51	7	11	195	43	195	61	69	5.641025641
84	286735	W00004034	Output Areas and Small Areas	OASA	220	11	83	27	6	5	155	30	155	70	40	3.225806452
85	286736	W00004035	Output Areas and Small Areas	OASA	239	27	85	31	8	5	126	10	126	50	56	3.968253968
86	286737	W00004036	Output Areas and Small Areas	OASA	241	25	66	36	8	12	154	45	154	30	30	7.792207792
87	286738	W00004037	Output Areas and Small Areas	OASA	207	18	74	30	3	1	118	15	118	51	50	0.847457627
88	286739	W00004038	Output Areas and Small Areas	OASA	206	19	70	30	6	1	118	85	118	40	45	0.847457627
89	286740	W00004039	Output Areas and Small Areas	OASA	143	7	46	13	1	5	121	51	121	26	16	4.132731405

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89	286740	W00004039	W00004039	Output Areas and Small Areas	OASA	143	7	46	13	3	5	121	51	121	26	16	4.132231405	1.435406699	65.2892
90	286741	W00004040	W00004040	Output Areas and Small Areas	OASA	208	9	61	33	5	17	120	43	120	29	16	14.16666667	1.607717042	62.5
91	286742	W00004041	W00004041	Output Areas and Small Areas	OASA	203	16	78	22	2	9	123	28	123	48	45	4.06309085	0.811620795	24.2902
92	286743	W00004042	W00004042	Output Areas and Small Areas	OASA	200	10	45	32	4	6	122	44	122	32	29	4.918032787	1.393728223	50
93	286744	W00004043	W00004043	Output Areas and Small Areas	OASA	219	18	96	34	5	1	135	17	135	51	63	0.740740741	1.36239782	15.35555
94	286745	W00004044	W00004044	Output Areas and Small Areas	OASA	256	12	75	45	7	3	149	28	149	74	44	2.013422819	1.804123711	20.8053
95	286746	W00004045	W00004045	Output Areas and Small Areas	OASA	243	17	82	41	4	11	146	41	146	14	61	7.534246575	1.044366423	48.6301
96	286747	W00004046	W00004046	Output Areas and Small Areas	OASA	187	13	63	31	4	4	111	8	111	56	36	3.603603604	1.360544218	17.1171
97	286748	W00004047	W00004047	Output Areas and Small Areas	OASA	201	15	56	30	4	10	126	32	126	15	29	7.936507937	1.324503311	65.0793
98	286749	W00004048	W00004048	Output Areas and Small Areas	OASA	163	10	62	17	1	3	108	13	108	43	44	2.777777778	0.396825397	19.4444
99	286750	W00004049	W00004049	Output Areas and Small Areas	OASA	230	4	67	51	6	10	138	45	138	29	34	7.246378612	2.272727271	54.3478
100	286751	W00004050	W00004050	Output Areas and Small Areas	OASA	204	13	73	34	3	3	122	32	122	36	36	2.438016393	0.925925926	40.9816
101	286752	W00004051	W00004051	Output Areas and Small Areas	OASA	188	13	70	17	6	3	117	32	117	43	42	2.564102564	2.083333333	27.3504
102	286753	W00004052	W00004052	Output Areas and Small Areas	OASA	202	14	58	36	3	3	116	10	116	58	50	2.580206897	0.857142857	6.89055
103	286754	W00004053	W00004053	Output Areas and Small Areas	OASA	187	5	84	33	11	2	104	19	104	43	45	1.923076923	3.55987055	15.3846
104	286755	W00004054	W00004054	Output Areas and Small Areas	OASA	216	17	60	28	3	1	140	21	140	92	38	0.714285714	0.934579439	7.14285
105	286756	W00004055	W00004055	Output Areas and Small Areas	OASA	217	8	83	35	7	2	138	24	138	71	50	1.440275362	2.04016327	12.3188
106	286757	W00004056	W00004056	Output Areas and Small Areas	OASA	221	19	82	37	5	5	140	29	140	59	51	3.571428571	1.39275766	21.4285
107	286758	W00004057	W00004057	Output Areas and Small Areas	OASA	217	11	69	32	10	5	120	48	120	21	22	4.166666667	3.059513678	64.1666
108	286759	W00004058	W00004058	Output Areas and Small Areas	OASA	290	10	76	89	5	10	120	37	120	22	31	8.833333333	1.463450704	55.8333
109	286760	W00004059	W00004059	Output Areas and Small Areas	OASA	218	24	79	44	12	6	122	21	122	53	51	4.518032787	3.387871233	14.7546
110	286761	W00004060	W00004060	Output Areas and Small Areas	OASA	239	18	112	64	7	0	131	4	131	52	72	0	1.545253863	5.34351
111	286762	W00004061	W00004061	Output Areas and Small Areas	OASA	192	3	73	30	3	5	122	23	122	51	38	4.098360636	1.006711409	27.0491
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111	286762	W00004061	W00004061	Output Areas and Small Areas	OASA	192	3	73	30	3	5	122	23	122	51	38	4.098360636	1.006711409	27.0491	
112	286763	W00004062	W00004062	Output Areas and Small Areas	OASA	240	12	66	47	12	11	137	42	137	47	37	8.02519708	3.287871233	38.6861	
113	286764	W00004063	W00004063	Output Areas and Small Areas	OASA	196	12	53	38	6	6	120	28	120	29	26	5	2.006688963	54.1666	
114	286765	W00004064	W00004064	Output Areas and Small Areas	OASA	231	17	110	39	7	1	122	15	122	46	61	0.819672131	1.763224181	12.2950	
115	286766	W00004065	W00004065	Output Areas and Small Areas	OASA	249	14	91	51	6	7	132	13	132	33	57	5.303030303	1.481481481	31.8181	
116	286767	W00004066	W00004066	Output Areas and Small Areas	OASA	156	9	38	23	3	4	121	51	121	21	11	3.005785124	1.327433628	73.5537	
117	286768	W00004067	W00004067	Output Areas and Small Areas	OASA	235	17	79	88	8	10	157	62	157	26	53	6.386426752	2.186021668	48.4076	
118	286769	W00004068	W00004068	Output Areas and Small Areas	OASA	63	5	14	7	0	43	105	70	105	22	5	42.85714286	0	74.2857	
119	286770	W00004069	W00004069	Output Areas and Small Areas	OASA	146	7	33	24	4	3	113	55	113	8	14	2.654867257	1.904761905	80.5309	
120	286771	W00004070	W00004070	Output Areas and Small Areas	OASA	200	16	73	42	8	6	122	16	122	56	48	4.918032787	2.416918429	14.7540	
121	286772	W00004071	W00004071	Output Areas and Small Areas	OASA	425	31	180	79	13	7	227	23	227	59	114	3.083700441	1.818181818	23.7885	
122	286773	W00004072	W00004072	Output Areas and Small Areas	OASA	205	13	74	30	2	0	129	15	129	77	39	0	0.621118012	10.0775	
123	286774	W00004073	W00004073	Output Areas and Small Areas	OASA	343	22	134	48	8	2	189	19	189	79	72	1.058201038	1.462522852	20.1058	
124	286775	W00004074	W00004074	Output Areas and Small Areas	OASA	172	13	56	28	4	3	114	24	114	60	41	2.631578947	1.486988848	11.4035	
125	286776	W00004075	W00004075	Output Areas and Small Areas	OASA	418	24	174	68	15	6	250	54	250	66	126	2.4	2.209131075	25.2	
126	286777	W00004076	W00004076	Output Areas and Small Areas	OASA	211	7	89	36	5	1	131	30	131	65	48	0.761338779	1.457725348	13.7464	
127	286778	W00004077	W00004077	Output Areas and Small Areas	OASA	221	10	69	33	9	7	131	45	131	32	42	5.34351145	2.786377729	43.5314	
128	286779	W00004078	W00004078	Output Areas and Small Areas	OASA	343	29	151	55	10	12	198	29	198	63	89	6.060606061	1.796103806	23.2323	
129	286780	W00004079	W00004079	Output Areas and Small Areas	OASA	275	22	128	41	8	3	148	18	148	44	63	2.027027027	1.716738197	27.7027	
130	286781	W00004080	W00004080	Output Areas and Small Areas	OASA	198	17	77	27	6	8	126	35	126	45	44	6.340206349	1.880777473	29.3850	
131	286782	W00004081	W00004081	Output Areas and Small Areas	OASA	228	8	119	30	13	6	136	18	136	20	63	4.411764706	3.376623377	38.9703	
132	286783	W00004082	W00004082	Output Areas and Small Areas	OASA	220	9	59	35	3	5	112	41	112	11	25	4.464285714	0.92879257	67.8571	
133	286784	W00004083	W00004083	Output Areas and Small Areas	OASA	198	6	72	32	6	6	115	38	115	28	52	5.309734513	1.948051548	46.9058	
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133	286784	W00004083	Output Areas and Small Areas	OASA	198	6	72	32	6	6	113	38	113	28	32	5.309734513	1.948051948	46.90265
134	286785	W00004084	Output Areas and Small Areas	OASA	202	11	63	40	5	3	129	34	129	34	34	2.325581395	1.502278401	47.28665
135	286786	W00004085	Output Areas and Small Areas	OASA	290	28	88	38	6	2	150	22	150	82	58	1.333333333	1.485148315	8
136	286787	W00004086	Output Areas and Small Areas	OASA	243	17	90	50	10	3	135	21	135	37	54	2.222222222	0.5	32.59285
137	286788	W00004087	Output Areas and Small Areas	OASA	195	15	54	23	2	0	121	16	121	78	33	0	0.696804111	8.26446
138	286789	W00004088	Output Areas and Small Areas	OASA	247	20	86	42	8	7	142	28	142	59	57	4.925577465	2.025316456	18.30981
139	286790	W00004089	Output Areas and Small Areas	OASA	215	16	73	37	3	2	121	20	121	44	51	1.652892562	0.879705356	21.48706
140	286791	W00004090	Output Areas and Small Areas	OASA	197	2	69	33	7	6	124	47	124	25	23	4.838709677	2.325581395	61.29031
141	286792	W00004091	Output Areas and Small Areas	OASA	138	2	31	15	1	0	130	27	130	113	13	0	0.537634409	3.07692
142	286793	W00004092	Output Areas and Small Areas	OASA	185	12	53	26	3	15	121	49	121	24	17	12.39669421	1.086956522	68.11576
143	286794	W00004093	Output Areas and Small Areas	OASA	229	9	79	40	6	9	116	36	116	19	35	7.75862089	2.179846512	53.4462
144	286795	W00004094	Output Areas and Small Areas	OASA	175	8	44	23	4	14	126	61	126	23	21	11.11111111	1.6	65.07984
145	286796	W00004095	Output Areas and Small Areas	OASA	189	10	47	23	7	8	129	50	129	19	18	6.201530388	2.602230483	71.31785
146	286797	W00004096	Output Areas and Small Areas	OASA	245	18	105	34	2	3	156	24	156	52	65	2.205882353	0.497512438	13.97051
147	286798	W00004097	Output Areas and Small Areas	OASA	229	15	85	37	8	2	122	16	122	57	44	1.639344262	2.18379235	17.21311
148	286799	W00004098	Output Areas and Small Areas	OASA	233	17	92	45	5	132	23	132	52	56	3.787878788	1.291899664	18.18181	
149	286800	W00004099	Output Areas and Small Areas	OASA	222	13	86	31	9	8	123	38	123	50	40	6.504065041	2.556818182	26.82921
150	286801	W00004100	Output Areas and Small Areas	OASA	230	16	89	33	11	12	152	69	152	25	41	7.894738642	3.16091594	58.57899
151	286802	W00004101	Output Areas and Small Areas	OASA	230	12	70	34	8	2	125	45	125	56	42	1.6	2.453988773	21.6
152	286803	W00004102	Output Areas and Small Areas	OASA	170	11	55	24	8	3	105	38	105	32	28	7.615647619	1.153886154	42.83771
153	286804	W00004103	Output Areas and Small Areas	OASA	222	11	81	41	6	3	116	21	116	38	59	2.58036897	1.690140845	16.37951
154	286805	W00004104	Output Areas and Small Areas	OASA	249	17	107	40	9	7	136	30	136	57	55	5.420588284	2.129176755	17.64702
155	286806	W00004105	Output Areas and Small Areas	OASA	281	15	122	55	13	11	141	19	141	58	69	7.80141844	2.748414376	9.92907
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155	286806	W00004105	Output Areas and Small Areas	OASA	281	15	122	55	13	11	141	19	141	58	69	7.80141844	2.748414376	9.92907
156	286807	W00004106	Output Areas and Small Areas	OASA	156	5	72	26	4	6	99	24	99	38	40	6.060000601	1.544401544	21.21211
157	286808	W00004107	Output Areas and Small Areas	OASA	215	9	88	43	7	5	128	29	128	42	50	3.90625	1.971830986	28.12
158	286809	W00004108	Output Areas and Small Areas	OASA	233	12	100	47	3	3	141	32	141	50	55	2.127659574	0.765306122	25.53195
159	286810	W00004109	Output Areas and Small Areas	OASA	252	14	112	45	10	9	141	32	141	43	63	6.382978723	2.364066194	24.82266
160	286811	W00004110	Output Areas and Small Areas	OASA	247	10	98	54	10	8	129	28	129	39	53	4.65162791	2.444967775	28.68211
161	286812	W00004111	Output Areas and Small Areas	OASA	202	13	79	34	1	8	132	53	132	38	45	2.272727273	0.848678049	37.12121
162	286813	W00004112	Output Areas and Small Areas	OASA	248	15	125	50	7	7	137	32	137	40	61	5.109489631	1.598173516	26.27785
163	286814	W00004113	Output Areas and Small Areas	OASA	200	14	81	35	1	4	125	29	125	44	62	3.2	0.303030303	15.2
164	286815	W00004114	Output Areas and Small Areas	OASA	200	12	64	41	7	3	117	27	117	39	29	2.564102564	2.173913043	41.88094
165	286816	W00004115	Output Areas and Small Areas	OASA	184	12	79	38	5	4	118	22	118	37	47	3.389830508	1.597444089	28.81352
166	286817	W00004116	Output Areas and Small Areas	OASA	191	13	65	33	1	7	128	32	128	37	37	5.46875	0.331125828	42.181
167	286818	W00004117	Output Areas and Small Areas	OASA	249	14	94	50	18	4	137	21	137	58	63	2.919708029	4.422804423	11.67881
168	286819	W00004118	Output Areas and Small Areas	OASA	204	10	72	40	8	6	114	28	114	47	46	5.269317895	2.453988773	18.42102
169	286820	W00004119	Output Areas and Small Areas	OASA	183	7	57	30	4	14	126	44	126	35	36	11.11111111	1.484681321	43.65097
170	286821	W00004120	Output Areas and Small Areas	OASA	246	11	106	49	7	6	128	26	128	49	53	4.6875	1.699025126	20.311
171	286822	W00004121	Output Areas and Small Areas	OASA	180	9	60	40	7	0	116	30	116	50	44	0	2.422145329	18.96555
172	286823	W00004122	Output Areas and Small Areas	OASA	223	22	82	43	7	0	133	24	133	54	53	0	1.891891892	19.54681
173	286824	W00004123	Output Areas and Small Areas	OASA	155	2	50	16	0	9	137	74	137	18	14	6.569343066	0	76.64231
174	286825	W00004124	Output Areas and Small Areas	OASA	152	6	35	22	4	3	130	50	130	33	22	2.307892308	1.880485116	57.69221
175	286826	W00004125	Output Areas and Small Areas	OASA	194	6	62	23	8	2	118	7	118	68	41	1.694915254	2.807017544	7.627111
176	286827	W00004126	Output Areas and Small Areas	OASA	209	14	90	30	9	1	111	10	111	58	45	0.900909091	2.623906706	11.71177
177	286828	W00004127	Output Areas and Small Areas	OASA	171	14	67	21	5	1	125	17	125	71	43	0.8	1.851851852	7.9

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177	286528	W00004127	W00004127	Output Areas and Small Areas	OASA	171	14	62	23	5	1	125	17	125	73	43	0.8	1.851851852	7.2		
178	286529	W00004128	W00004128	Output Areas and Small Areas	OASA	187	15	68	35	5	1	112	11	112	53	47	0.892857143	1.639434442	10.7142		
179	286530	W00004129	W00004129	Output Areas and Small Areas	OASA	226	24	82	44	6	3	128	12	128	61	58	2.34375	1.959574481	7.0211		
180	286531	W00004130	W00004130	Output Areas and Small Areas	OASA	217	14	87	39	12	4	112	12	112	39	35	3.571428571	3.361344338	33.9285		
181	286532	W00004131	W00004131	Output Areas and Small Areas	OASA	232	28	75	35	5	3	128	11	128	62	51	2.34375	1.851851851	11.718		
182	286533	W00004132	W00004132	Output Areas and Small Areas	OASA	200	8	67	27	10	2	130	16	130	78	40	1.538461538	3.311258278	9.23070		
183	286534	W00004133	W00004133	Output Areas and Small Areas	OASA	155	16	63	32	5	4	126	14	126	75	37	3.174603175	1.633960928	11.1111		
184	286535	W00004134	W00004134	Output Areas and Small Areas	OASA	229	20	82	32	13	1	119	11	119	52	42	0.840336134	3.581267218	21.0084		
185	286536	W00004135	W00004135	Output Areas and Small Areas	OASA	251	13	119	48	12	1	131	9	131	48	67	0.763358779	2.784222738	12.2137		
186	286537	W00004136	W00004136	Output Areas and Small Areas	OASA	253	14	84	43	7	2	131	13	131	68	58	1.528717557	1.776649746	3.81679		
187	286538	W00004137	W00004137	Output Areas and Small Areas	OASA	208	24	66	35	5	0	117	14	117	64	44	0	1.501501502	7.692101		
188	286539	W00004138	W00004138	Output Areas and Small Areas	OASA	201	22	63	28	4	1	129	24	129	29	22	0.775193798	1.27883535	60.4051		
189	286540	W00004139	W00004139	Output Areas and Small Areas	OASA	234	20	100	43	18	6	123	10	123	33	64	4.87804878	4.316346763	21.1362		
190	286541	W00004140	W00004140	Output Areas and Small Areas	OASA	255	21	93	55	13	2	141	11	141	65	50	1.418439716	2.801724138	18.4397		
191	286542	W00004141	W00004141	Output Areas and Small Areas	OASA	154	25	72	36	12	1	108	10	108	47	53	0.925925926	3.695724771	7.40740		
192	286543	W00004142	W00004142	Output Areas and Small Areas	OASA	242	24	90	45	5	1	134	11	134	64	63	0.746268657	1.246882793	5.22388		
193	286544	W00004143	W00004143	Output Areas and Small Areas	OASA	301	38	96	48	17	1	145	5	145	86	55	0.689655172	3.519668737	2.75862		
194	286545	W00004144	W00004144	Output Areas and Small Areas	OASA	211	5	28	19	4	6	87	34	87	9	17	6.895551724	2.366863205	70.1149		
195	286546	W00004145	W00004145	Output Areas and Small Areas	OASA	287	28	109	41	7	4	148	11	148	75	58	2.702702703	1.54185022	10.1531		
196	286547	W00004146	W00004146	Output Areas and Small Areas	OASA	239	28	72	23	2	4	128	80	128	49	32	3.125	0.59477481	36.778		
197	286548	W00004147	W00004147	Output Areas and Small Areas	OASA	281	28	101	45	6	2	133	8	133	62	59	1.503750398	1.318681319	9.02254		
198	286549	W00004148	W00004148	Output Areas and Small Areas	OASA	177	8	59	30	1	1	124	14	124	59	22	0.806435163	0.354963504	7.25064		
199	286550	W00004149	W00004149	Output Areas and Small Areas	OASA	223	12	72	25	6	12	139	43	139	28	42	8.633893525	1.807728916	49.6002		
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199	286550	W00004149	W00004149	Output Areas and Small Areas	OASA	223	12	72	25	6	12	139	43	139	28	42	8.633893525	1.807728916	49.6002
200	286551	W00004150	W00004150	Output Areas and Small Areas	OASA	152	11	58	15	5	11	129	58	129	39	30	8.527131783	2.118644068	46.5116
201	286552	W00004151	W00004151	Output Areas and Small Areas	OASA	216	13	81	38	6	4	123	22	123	40	58	3.25203252	1.724137931	20.3252
202	286553	W00004152	W00004152	Output Areas and Small Areas	OASA	222	13	82	28	4	3	141	32	141	61	49	2.127659574	1.15942029	21.9858
203	286554	W00004153	W00004153	Output Areas and Small Areas	OASA	279	23	108	49	5	6	159	40	159	47	65	3.773584906	1.089324619	29.5057
204	286555	W00004154	W00004154	Output Areas and Small Areas	OASA	272	24	98	36	3	14	187	54	187	77	56	7.488611016	0.697674419	28.8770
205	286556	W00004155	W00004155	Output Areas and Small Areas	OASA	119	2	27	13	4	9	127	70	127	11	10	7.088616178	2.48847205	83.4654
206	286557	W00004157	W00004157	Output Areas and Small Areas	OASA	309	16	121	67	6	14	170	26	170	27	68	8.25294118	1.169590643	44.1176
207	286558	W00004158	W00004158	Output Areas and Small Areas	OASA	213	15	88	23	8	2	130	38	130	42	53	1.538461538	2.359882006	26.9230
208	286559	W00004159	W00004159	Output Areas and Small Areas	OASA	294	20	118	45	6	2	153	30	153	51	67	1.307189542	1.257861635	22.8758
209	286560	W00004160	W00004160	Output Areas and Small Areas	OASA	128	20	38	19	7	1	69	4	69	32	26	1.449275362	3.414634146	15.9420
210	286561	W00004161	W00004161	Output Areas and Small Areas	OASA	241	56	66	18	6	4	123	9	123	84	31	3.25203252	1.57480315	6.50406
211	286562	W00004162	W00004162	Output Areas and Small Areas	OASA	268	48	79	37	5	3	153	13	153	83	52	1.960784314	1.157407407	11.7647
212	286563	W00004163	W00004163	Output Areas and Small Areas	OASA	365	68	130	43	6	1	191	13	191	97	54	0.523560209	0.99039901	20.9424
213	286564	W00004164	W00004164	Output Areas and Small Areas	OASA	148	18	41	16	3	5	88	10	88	45	16	5.618181818	1.576146789	80.6818
214	286565	W00004165	W00004165	Output Areas and Small Areas	OASA	251	51	74	39	3	0	123	4	123	78	40	0	0.72281556	4.05504
215	286566	W00004166	W00004166	Output Areas and Small Areas	OASA	311	75	88	37	7	3	178	8	178	100	54	1.685392258	1.369863014	13.4834
216	286567	W00004167	W00004167	Output Areas and Small Areas	OASA	164	43	42	14	2	3	112	12	112	65	31	2.678571429	0.766456274	14.2857
217	286568	W00004168	W00004168	Output Areas and Small Areas	OASA	275	60	83	40	10	6	143	14	143	55	46	4.195804196	2.183406114	29.3706
218	286569	W00004169	W00004169	Output Areas and Small Areas	OASA	294	44	88	39	6	1	177	6	177	101	53	0.564971751	1.290322381	12.9943
219	286570	W00004170	W00004170	Output Areas and Small Areas	OASA	205	47	59	27	6	1	114	10	114	69	38	0.877192982	1.775147929	6.14035
220	286571	W00004171	W00004171	Output Areas and Small Areas	OASA	280	15	82	34	7	8	121	28	121	20	48	2.479388843	1.895058172	43.8016
221	286572	W00004172	W00004172	Output Areas and Small Areas	OASA	277	21	115	52	3	2	145	11	145	71	67	1.3793110345	0.64516192	4.87958

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221	286872	W00004172	W00004172	Output Areas and Small Areas	OASA	277	21	115	52	3	2	145	11	145	71	67	1.379310345	0.64516129	4.822588
222	286873	W00004173	W00004173	Output Areas and Small Areas	OASA	136	24	35	27	2	1	68	4	68	36	26	1.470580235	0.90090901	8.823252
223	286874	W00004174	W00004174	Output Areas and Small Areas	OASA	265	24	101	51	15	3	145	12	145	58	62	2.08696517	3.401280544	17.24121
224	286875	W00004175	W00004175	Output Areas and Small Areas	OASA	209	18	87	33	11	2	117	21	117	28	50	1.709401709	3.170026818	33.33331
225	286876	W00004176	W00004176	Output Areas and Small Areas	OASA	807	24	131	45	11	4	170	81	170	52	75	2.352841176	2.169625247	25.29411
226	286877	W00004177	W00004177	Output Areas and Small Areas	OASA	243	26	112	44	9	1	128	10	128	44	72	0.78125	2.117647055	9.37
227	286878	W00004178	W00004178	Output Areas and Small Areas	OASA	240	14	96	31	5	2	126	23	126	45	42	1.587301587	1.312335958	30.95231
228	286879	W00004179	W00004179	Output Areas and Small Areas	OASA	209	18	76	34	6	2	121	25	121	41	44	1.652892562	1.78041543	29.75201
229	286880	W00004180	W00004180	Output Areas and Small Areas	OASA	246	20	105	43	6	3	133	13	133	58	65	2.255639098	1.449275362	7.518791
230	286881	W00004181	W00004181	Output Areas and Small Areas	OASA	218	11	80	28	6	0	119	10	119	67	45	0	1.78041543	5.882351
231	286882	W00004182	W00004182	Output Areas and Small Areas	OASA	258	18	123	57	6	2	130	4	130	36	78	1.538461538	1.315709474	13.84611
232	286883	W00004183	W00004183	Output Areas and Small Areas	OASA	156	8	42	22	4	2	115	27	115	45	29	1.738130445	1.754853865	35.65211
233	286884	W00004184	W00004184	Output Areas and Small Areas	OASA	177	8	82	43	2	3	116	16	116	24	59	2.586206897	0.04516129	28.44821
234	286885	W00004185	W00004185	Output Areas and Small Areas	OASA	207	22	82	35	5	6	125	16	125	44	50	4.8	1.445086705	24.8
235	286886	W00004186	W00004186	Output Areas and Small Areas	OASA	186	12	71	28	8	2	125	16	125	82	30	1.6	2.693602694	10.4
236	286887	W00004187	W00004187	Output Areas and Small Areas	OASA	194	13	61	29	8	1	116	10	116	68	41	0.862068966	2.693602694	6.034482
237	286888	W00004188	W00004188	Output Areas and Small Areas	OASA	183	15	60	34	3	1	124	16	124	86	32	0.806451612	1.02729726	4.638702
238	286889	W00004189	W00004189	Output Areas and Small Areas	OASA	195	18	73	23	8	0	125	15	125	67	45	0	2.588968764	10.4
239	286890	W00004190	W00004190	Output Areas and Small Areas	OASA	240	19	116	42	10	0	114	4	114	30	75	0	2.388081335	7.894731
240	286891	W00004191	W00004191	Output Areas and Small Areas	OASA	151	12	54	19	3	4	104	14	104	68	28	3.846153846	1.271186441	7.682301
241	286892	W00004192	W00004192	Output Areas and Small Areas	OASA	157	11	67	38	11	1	125	14	125	57	49	0.8	3.545370597	15.2
242	286893	W00004193	W00004193	Output Areas and Small Areas	OASA	187	21	60	23	6	3	123	22	123	75	25	2.43902439	2.06855567	18.69931
243	286894	W00004194	W00004194	Output Areas and Small Areas	OASA	247	26	96	35	6	2	129	11	129	63	57	1.550382797	1.485148315	6.976731
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265	286916	W00004221	W00004221	Output Areas and Small Areas	OASA	200	12	79	36	4	8	120	44	120	40	35	6.66666667	1.22324159	37.5	
266	286917	W00004222	W00004222	Output Areas and Small Areas	OASA	221	11	68	38	3	14	114	40	114	33	34	12.28070175	0.88757264	41.2260	
267	286918	W00004223	W00004223	Output Areas and Small Areas	OASA	224	13	69	39	10	11	128	40	128	38	47	8.59275	2.8884428	32.592	
268	286919	W00004224	W00004224	Output Areas and Small Areas	OASA	190	13	60	40	7	9	116	44	116	29	34	7.75842069	2.310231023	45.6896	
269	286920	W00004225	W00004225	Output Areas and Small Areas	OASA	230	8	76	27	9	10	140	53	140	33	38	7.142857143	2.639296188	49.2857	
270	286921	W00004226	W00004226	Output Areas and Small Areas	OASA	155	5	58	35	7	9	122	50	122	37	28	7.37704918	2.389078498	46.7213	
271	286922	W00004227	W00004227	Output Areas and Small Areas	OASA	219	4	65	42	12	12	140	63	140	44	42	8.571428571	3.636363636	38.5714	
272	286923	W00004228	W00004228	Output Areas and Small Areas	OASA	168	6	51	21	5	11	108	58	108	33	37	10.18518519	2.032520325	35.1851	
273	286924	W00004229	W00004229	Output Areas and Small Areas	OASA	263	6	78	45	5	18	154	76	154	39	38	11.68831169	1.275510204	50	
274	286925	W00004230	W00004230	Output Areas and Small Areas	OASA	206	9	65	41	2	10	119	53	119	47	39	8.403381345	0.62305296	27.7310	
275	286926	W00004231	W00004231	Output Areas and Small Areas	OASA	193	12	59	31	2	7	113	39	113	28	26	6.19499265	0.677966102	43.3628	
276	286927	W00004232	W00004232	Output Areas and Small Areas	OASA	223	14	101	86	4	6	181	84	181	29	60	4.580152872	1.089518717	32.0680	
277	286928	W00004233	W00004233	Output Areas and Small Areas	OASA	240	24	93	38	9	4	135	21	135	53	57	2.962962963	2.278401013	18.5185	
278	286929	W00004234	W00004234	Output Areas and Small Areas	OASA	200	8	78	31	4	6	134	67	134	33	40	4.47761194	1.261826553	45.5233	
279	286930	W00004235	W00004235	Output Areas and Small Areas	OASA	248	10	107	44	7	11	143	47	143	34	50	7.692307692	1.711491443	41.2587	
280	286931	W00004236	W00004236	Output Areas and Small Areas	OASA	233	15	74	47	8	138	55	138	33	50	5.797101449	2.16802168	39.8550		
281	286932	W00004237	W00004237	Output Areas and Small Areas	OASA	248	11	111	41	12	11	135	28	135	38	61	8.148148148	2.919708029	26.6666	
282	286933	W00004238	W00004238	Output Areas and Small Areas	OASA	201	11	78	43	1	5	130	34	130	55	49	3.846153846	0.3003003	20	
283	286934	W00004239	W00004239	Output Areas and Small Areas	OASA	223	15	86	32	9	9	186	41	186	38	41	6.617647059	2.528898888	41.9117	
284	286935	W00004240	W00004240	Output Areas and Small Areas	OASA	219	18	84	36	6	13	153	51	153	42	39	9.77448409	1.704545455	39.0979	
285	286936	W00004241	W00004241	Output Areas and Small Areas	OASA	221	11	124	26	7	6	125	13	125	34	72	4.8	1.832460753	15.2	
286	286937	W00004242	W00004242	Output Areas and Small Areas	OASA	284	14	160	46	18	3	164	10	164	30	111	1.829268293	3.571428571	14.0243	
287	286938	W00004243	W00004243	Output Areas and Small Areas	OASA	329	12	166	54	5	8	172	6	172	53	102	4.651162791	0.891765597	9.88322	
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287	286938	W00004243	W00004243	Output Areas and Small Areas	OASA	329	12	166	54	5	8	172	6	172	58	102	4.651162791	0.891205597	9.88372
288	286939	W00004244	W00004244	Output Areas and Small Areas	OASA	165	13	47	35	1	2	111	24	111	51	31	1.801801802	0.384615385	26.1261
289	286940	W00004245	W00004245	Output Areas and Small Areas	OASA	175	9	102	27	6	14	109	10	109	20	55	12.8440367	1.916932907	31.1926
290	286941	W00004246	W00004246	Output Areas and Small Areas	OASA	349	45	132	56	7	1	183	16	183	82	86	0.546448087	1.202749141	8.19672
291	286942	W00004247	W00004247	Output Areas and Small Areas	OASA	124	10	71	24	3	2	64	2	64	12	47	3.125	1.310043668	7.812
292	286943	W00004248	W00004248	Output Areas and Small Areas	OASA	233	27	108	25	7	4	134	9	134	41	72	2.985074627	1.79028113	15.6728
293	286944	W00004249	W00004249	Output Areas and Small Areas	OASA	287	15	87	87	4	1	126	16	126	66	56	0.788650794	1.63036943	8.17460
294	286945	W00004250	W00004250	Output Areas and Small Areas	OASA	232	14	131	47	8	2	124	2	124	28	90	1.612903226	1.886792453	8.87096
295	286946	W00004251	W00004251	Output Areas and Small Areas	OASA	199	8	78	33	5	1	123	4	123	60	52	0.81100813	1.57237044	8.54308
296	286947	W00004252	W00004252	Output Areas and Small Areas	OASA	400	33	226	63	8	1	216	7	216	26	145	0.462962963	1.108033241	20.8333
297	286948	W00004253	W00004253	Output Areas and Small Areas	OASA	213	28	71	27	7	2	115	7	115	49	50	1.739130435	2.06486755	13.9130
298	286949	W00004254	W00004254	Output Areas and Small Areas	OASA	248	27	117	30	6	1	118	5	118	41	63	0.847457627	1.421800948	11.8644
299	286950	W00004255	W00004255	Output Areas and Small Areas	OASA	337	25	188	50	10	3	204	23	204	78	100	1.470588225	1.724137921	12.7450
300	286951	W00004256	W00004256	Output Areas and Small Areas	OASA	428	48	187	65	12	1	215	8	215	74	120	0.460116279	1.648351648	9.76744
301	286952	W00004257	W00004257	Output Areas and Small Areas	OASA	266	18	117	44	7	10	150	17	150	48	72	6.66666667	1.573935708	20
302	286953	W00004258	W00004258	Output Areas and Small Areas	OASA	237	15	75	43	6	4	134	29	134	35	52	2.585074627	2.162102162	32.0895
303	286954	W00004259	W00004259	Output Areas and Small Areas	OASA	297	8	172	50	9	5	167	13	167	29	99	2.994011576	1.707779886	23.3532
304	286955	W00004260	W00004260	Output Areas and Small Areas	OASA	240	12	127	36	9	1	120	3	120	21	82	0.833333333	2.168674699	14.1666
305	286956	W00004261	W00004261	Output Areas and Small Areas	OASA	211	18	97	34	5	2	131	3	131	57	64	1.526717557	1.388888889	7.63358
306	286957	W00004262	W00004262	Output Areas and Small Areas	OASA	271	11	130	49	7	4	132	14	132	54	67	3.03030303	1.518484178	8.33333
307	286958	W00004263	W00004263	Output Areas and Small Areas	OASA	244	17	100	33	8	1	188	16	188	69	58	0.724637681	2.030456853	7.97101
308	286959	W00004264	W00004264	Output Areas and Small Areas	OASA	289	11	81	87	5	8	181	88	181	31	88	6.106870229	1.858950552	47.8282
309	286960	W00004265	W00004265	Output Areas and Small Areas	OASA	216	7	69	27	9	7	150	27	150	16	33	5.384615385	2.821116614	63.3078
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331	286582	W00004289	W00004289	Output Areas and Small Areas	OASA	223	25	88	24	11	5	129	30	129	46	51	3.875968992	3.055555556	24.8062
332	286583	W00004290	W00004290	Output Areas and Small Areas	OASA	266	10	106	55	9	4	136	20	136	50	64	2.941176471	2.059465658	16.1764
333	286584	W00004291	W00004291	Output Areas and Small Areas	OASA	248	22	103	43	8	9	138	24	138	42	61	6.52173913	1.923076923	25.3623
334	286585	W00004292	W00004292	Output Areas and Small Areas	OASA	221	23	107	30	2	16	132	25	132	41	61	12.12121212	0.524934383	22.7272
335	286586	W00004293	W00004293	Output Areas and Small Areas	OASA	182	10	63	35	3	4	105	13	105	36	42	3.80952381	1.034482759	25.7142
336	286587	W00004294	W00004294	Output Areas and Small Areas	OASA	262	21	92	45	10	4	142	18	142	49	71	2.816904408	2.380952381	15.4926
337	286588	W00004295	W00004295	Output Areas and Small Areas	OASA	224	10	66	20	8	9	137	44	137	16	30	6.59848866	2.5	66.4234
338	286589	W00004296	W00004296	Output Areas and Small Areas	OASA	197	6	52	34	5	5	130	48	130	32	23	3.846153846	1.790103806	57.6928
339	286590	W00004297	W00004297	Output Areas and Small Areas	OASA	296	16	123	45	8	2	142	5	142	59	73	1.408450704	1.666666667	7.04225
340	286591	W00004298	W00004298	Output Areas and Small Areas	OASA	195	9	71	26	9	7	132	37	132	39	36	5.303030303	2.99003223	43.1818
341	286592	W00004299	W00004299	Output Areas and Small Areas	OASA	142	11	35	30	1	6	93	35	93	19	27	6.451612903	0.458715596	50.5376
342	286593	W00004300	W00004300	Output Areas and Small Areas	OASA	423	36	207	71	2	3	234	23	234	73	135	1.282051282	0.271370421	11.1111
343	286594	W00004301	W00004301	Output Areas and Small Areas	OASA	222	21	84	37	3	2	126	14	126	55	63	1.587301587	0.824178524	6.34920
344	286595	W00004302	W00004302	Output Areas and Small Areas	OASA	255	48	81	33	6	2	152	3	152	80	33	1.515151515	1.438848921	14.3939
345	286596	W00004303	W00004303	Output Areas and Small Areas	OASA	249	50	95	28	4	3	129	12	129	60	48	2.32581395	0.847867299	16.2790
346	286597	W00004304	W00004304	Output Areas and Small Areas	OASA	163	12	53	17	3	4	101	27	101	30	23	3.56035604	1.224405796	47.5247
347	286598	W00004305	W00004305	Output Areas and Small Areas	OASA	262	31	105	32	7	2	138	15	138	55	64	1.440275362	1.627906977	13.7681
348	286599	W00004306	W00004306	Output Areas and Small Areas	OASA	230	29	76	38	6	1	141	22	141	63	43	0.709219658	1.60857088	24.8226
349	287000	W00004307	W00004307	Output Areas and Small Areas	OASA	299	31	84	30	4	4	219	37	219	112	48	1.82649018	0.900909091	26.9406
350	287001	W00004308	W00004308	Output Areas and Small Areas	OASA	185	21	72	31	8	3	124	18	124	65	48	2.41934839	2.588996784	8.8709
351	287002	W00004309	W00004309	Output Areas and Small Areas	OASA	172	10	63	31	4	1	111	12	111	68	41	0.900909091	1.449275362	6.30630
352	287003	W00004310	W00004310	Output Areas and Small Areas	OASA	218	14	68	32	6	1	118	6	118	71	33	0.847457627	1.834862385	11.8644
353	287004	W00004311	W00004311	Output Areas and Small Areas	OASA	161	15	59	12	2	7	136	32	136	45	51	5.035971935	0.881057269	9.35251

Data UKRAT UNIT

MMR Assignment

GRADEMARK REPORT

FINAL GRADE

63/100

GENERAL COMMENTS

Instructor

19,21,8,8,7 (63)

1) A good introduction describing MMR – try to proof read your work as there are some simple grammatical errors throughout.

A well presented document in terms of your research, describing cartographic visualisation. You link your research well and demonstrate a good understanding of the concept of visualisation through GIS.

2) Where you have stated a better understanding of GIS through investigation do you mean a better understanding of the MMR outbreak through the use of GIS software.

A suitable map of Wales provides a national picture of MMR data to 2007. Perhaps in your report the two national maps could be viewed side-by-side i.e. the 2011 and 2013. The visual would then depict the rising uptake of the vaccination.

You will need to review your income map male/female is a not sure what you want to prove with this data correlation and is the data correct?

You need to look at percentage data as this will give a better overall visual comparison between the data sets. Your second stage of analysis is okay but your pictures only mark the centroid of the land polygon – it is better to use an overall colour scheme at this stage however your representation is correct.

You have downloaded some very good statistics but you just provide a colourful map with the percentage of each overlaid. This doesn't really help the person viewing if you had used thematic map and a lighter to darker shade this helps to pinpoint areas of greater or lesser uptake of MMR – I do feel is highlighting demonstrate a slight lack of understanding of the software and thematic mapping in general.

3) You have discussed your case study to suitable level and use both whole of Wales and will focus data – however no towns an index or deprivation study has been presented therefore you cannot look at data correlation

4) you discuss different data with regards to GIS but what about your case study you haven't used all of your data and perhaps this would have helped with the overall representation.

5) Generally report has been well written component parts constructed well – appropriate use of case study GIS content has been displayed. Try to proof read as there were grammatical errors however report has a good overall flow in terms of its content.

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