Scenario Name	Component	Year 2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Note
Sc1	2016 Principal Projection	0	109553	110129	110663	111175	111641	112105	112512	112902	113319	113680	114008	114254	114511	114711	114883	115049	115211	115350	115475	115550	115647		Default HNDA Tool - Principal Projection
Sc1	Arising Need Year Change	0	576	534	512	466	464	407	390	417	361	328	246	257	200	172	166	162	139	125	75	97	97		Default HNDA Tool
Sc1	Existing Backlog Clearance	0	168	168	168	168	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Default HNDA Tool
Sc1	***OUTPUT***	***0***	***744***	***702***	***680***	***634***	***632***	***407***	***390***	***417***	***361***	***328***	***246***	***257***	***200***	***172***	***166***	***162***	***139***	***125***	***75***	***97***	***97***		***Default HNDA Tool***
Sc2	2016 High Migration	0	109769	110473	111138	111791	112395	113007	113569	114112	114687	115224	115729	116148	116580	116963	117318	117680	118030	118368	118698	118976	119285		Default HNDA Tool - High Migration projection
Sc2	Arising Need Year Change	0	704	665	653	604	612	562	543	575	537	505	419	432	383	355	362	350	338	330	278	309	309		Default HNDA Tool
Sc2	Exisiting 2016 High Migration	0	168	168	168	168	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Default HNDA Tool
Sc2	***OUTPUT***	***0***	***872***	***833***	***821***	***772***	***780***	***562***	***543***	***575***	***537***	***505***	***419***	***432***	***383***	***355***	***362***	***350***	***338***	***330***	***278***	***309***	***309***		***Default HNDA Tool***
Sc3	2016 Low Migration	0	109304	109761	110171	110538	110865	111181	111436	111663	111911	112109	112266	112336	112424	112451	112446	112435	112415	112373	112315	112197	112095		Default HNDA Tool - Low Migration projection
Sc3	Arising Need Year Change	0	457	410	367	327	316	255	227	248	198	157	70	88	27	-5	-11	-20	-42	-58	-118	-102	-102		Default HNDA Tool
Sc3	Existing Backlog Clearance	0	168	168	168	168	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Default HNDA Tool
Sc3	***OUTPUT***	***0***	***625***	***578***	***535***	***495***	***484***	***255***	***227***	***248***	***198***	***157***	***70***	***88***	***27***	***-5***	***-11***	***-20***	***-42***	***-58***	***-118***	***-102***	***-102***		***Default HNDA Tool***
Sc4	2016 High Migration	0	109769	110473	111138	111791	112395	113007	113569	114112	114687	115224	115729	116148	116580	116963	117318	117680	118030	118368	118698	118976	119285		Variations at HMA level only - otherwise as Scenario 2
Sc4	Arising Need Year Change	0	704	665	653	604	612	562	543	575	537	505	419	432	383	355	362	350	338	330	278	309	309		
Sc4	Existing Backlog Clearance	0	168	168	168	168	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sc4	***OUTPUT***	***0***	***872***	***833***	***821***	***772***	***780***	***562***	***543***	***575***	***537***	***505***	***419***	***432***	***383***	***355***	***362***	***350***	***338***	***330***	***278***	***309***	***309***		
Sc5	2016 High Migration	0	109769	110473	111138	111791	112395	113007	113569	114112	114687	115224	115729	116148	116580	116963	117318	117680	118030	118368	118698	118976	119285		1% per year growth in Lochaber for first 10 years but this doesn't appear to affect the output?
Sc5	Arising Need Year Change	0	800	763	752	705	714	666	648	682	537	505	419	432	383	355	362	350	338	330	278	309	309		Notice that the Locahber HH projection figures are manually input
Sc5	Existing Backlog Clearance	0	168	168	168	168	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sc5	***OUTPUT***	***0***	***968***	***931***	***920***	***873***	***882***	***666***	***648***	***682***	***537***	***505***	***419***	***432***	***383***	***355***	***362***	***350***	***338***	***330***	***278***	***309***	***309***		
Sc6	2016 High Migration	0	109864	110664	111426	112178	112883	113597	114263	114911	115593	116130	116635	117054	117486	117869	118224	118586	118936	119274	119604	119882	120191		High Migration and an actual 2144 figure for existing need
Sc6	2016 High Migration Change	0	800	763	752	705	714	666	648	682	537	505	419	432	383	355	362	350	338	330	278	309	309		Lochaber growth
Sc6	Existing Backlog Clearance	0	429	429	429	429	429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		5 years to clear backlog
Sc6	***Total 2016 High Migration***	***0***	***1229***	***1191***	***1181***	***1133***	***1143***	***666***	***648***	***682***	***537***	***505***	***419***	***432***	***383***	***355***	***362***	***350***	***338***	***330***	***278***	***309***	***309***		
Sc7	2016 High Migration	0	109864	110664	111426	112178	112883	113597	114263	114911	115593	116130	116635	117054	117486	117869	118224	118586	118936	119274	119604	119882	120191		High Migration and an actual 2144 figure for existing need
Sc7	Arising Need Year Change	0	800	763	752	705	714	666	648	682	537	505	419	432	383	355	362	350	338	330	278	309	309		Lochaber growth
Sc7	Existing Backlog Clearance	0	214	214	214	214	214	214	214	214	214	214	0	0	0	0	0	0	0	0	0	0	0		10 years to clear backlog
Sc7	***OUTPUT***	***0***	***1014***	***977***	***967***	***919***	***929***	***880***	***863***	***896***	***751***	***719***	***419***	***432***	***383***	***355***	***362***	***350***	***338***	***330***	***278***	***309***	***309***		
Sc8	2016 High Migration	0	109864	110664	111426	112178	112883	113597	114263	114911	115593	116130	116635	117054	117486	117869	118224	118586	118936	119274	119604	119882	120191		
Sc8	Arising Need Year Change	0	800	763	752	705	714	666	648	682	537	505	419	432	383	355	362	350	338	330	278	309	309		
Sc8	Existing Backlog Clearance	0	431	431	431	431	431	431	431	431	431	431	0	0	0	0	0	0	0	0	0	0	0		***Incorrect Existing Need figures used***
Sc8	***OUTPUT***	***0***	***1231***	***1193***	***1183***	***1135***	***1145***	***1096***	***1079***	***1112***	***968***	***935***	***419***	***432***	***383***	***355***	***362***	***350***	***338***	***330***	***278***	***309***	***309***		
Sc9	2016 High Migration	0	109861	110657	111416	112164	112865	113574	114235	114878	115553	116090	116595	117014	117446	117829	118184	118546	118896	119234	119564	119842	120151		Slight differences to above due to roundings in Locally input HH counts (due to splits by pop per HMA)
Sc9	Arising Need Year Change	0	797	759	748	700	709	661	643	676	537	505	419	432	383	355	362	350	338	330	278	309	309		Differences here are at HMA level
Sc9	Existing Backlog Clearance	0	431	431	431	431	431	431	431	431	431	431	0	0	0	0	0	0	0	0	0	0	0		***Incorrect Existing Need figures used***
Sc9	***OUTPUT***	***0***	***1227***	***1189***	***1179***	***1131***	***1140***	***1091***	***1073***	***1106***	***967***	***936***	***419***	***432***	***383***	***355***	***362***	***350***	***338***	***330***	***278***	***309***	***309***		
Sc10	2016 High Migration	0	109769	110473	111138	111791	112395	113007	113569	114112	114687	115224	115729	116148	116580	116963	117318	117680	118030	118368	118698	118976	119285		Removal of 1% Lochaber Growth returns these figures to 2016 High Mig HH projections
Sc10	Arising Need Year Change	0	704	665	653	604	612	562	543	575	537	505	419	432	383	355	362	350	338	330	278	309	309		Differences from SC4 are only at HMA levelhere are at HMA level
Sc10	Existing Backlog Clearance	0	431	431	431	431	431	431	431	431	431	431	0	0	0	0	0	0	0	0	0	0	0		***Incorrect Existing Need figures used***
Sc10	***OUTPUT***	***0***	***1134***	***1096***	***1084***	***1035***	***1043***	***992***	***973***	***1006***	***967***	***936***	***419***	***432***	***383***	***355***	***362***	***350***	***338***	***330***	***278***	***309***	***309***		
Sc11	2016 High Migration	0	107573	108319	109059	109769	110473	111138	111791	112395	113007	113569	114112	114687	115224	115729	116148	116580	116963	117318	117680	118030	118368		Lower start numbers as using Council Tax derived residential figures and applying calculated change only to the HMAs where increasing populations
Sc11	Arising Need Year Change	0	746	740	710	704	665	653	604	612	562	543	575	537	505	419	432	383	355	362	350	338	338		Where negative population change is forecast in a year for any HMA then no additional HH demand is allocated tot heat HMA - Ca - Zero from Arising, BS none afer 2022, ER, Lo and SU none.
Sc11	Existing Backlog Clearance	0	431	431	431	431	431	431	431	431	431	431	0	0	0	0	0	0	0	0	0	0	0		***Incorrect Existing Need figures used***
Sc11	***OUTPUT***	***0***	***1177***	***1170***	***1141***	***1135***	***1096***	***1083***	***1035***	***1043***	***993***	***973***	***575***	***537***	***505***	***419***	***432***	***383***	***355***	***362***	***350***	***338***	***338***		
Sc12	2016 High Migration	0	109758	110461	111128	111780	112383	112995	113558	114102	114674	115213	115718	116136	116569	116952	117305	117669	118019	118356	118686	118964	119272		Calculation of Relets per year by HMA made. Used to reduce the backlog of Need by 1400
Sc12	Arising Need Year Change	0	703	667	652	603	612	563	544	572	539	505	418	433	383	353	364	350	337	330	278	308	308		
Sc12	Existing Backlog Clearance	0	260	260	260	260	260	260	260	260	260	260	0	0	0	0	0	0	0	0	0	0	0		2546 to be cleared over 10 years
Sc12	***OUTPUT***	***0***	***963***	***927***	***912***	***863***	***872***	***823***	***804***	***832***	***799***	***765***	***418***	***433***	***383***	***353***	***364***	***350***	***337***	***330***	***278***	***308***	***308***		
Sc13	2016 High Migration	0	109751	110456	111121	111774	112377	112992	113552	114095	114671	115207	115713	116131	116561	116947	117302	117663	118013	118352	118683	118959	119267		
Sc13	Arising Need Year Change	0	705	665	653	603	615	560	543	576	536	506	418	430	386	355	361	350	339	331	276	308	308		
Sc13	Existing Backlog Clearance	0	255	255	255	255	255	255	255	255	255	255	0	0	0	0	0	0	0	0	0	0	0		2546 to be cleared over 10 years
Sc13	***OUTPUT***	***0***	***960***	***920***	***908***	***858***	***870***	***815***	***798***	***831***	***791***	***761***	***418***	***430***	***386***	***355***	***361***	***350***	***339***	***331***	***276***	***308***	***308***		
Sc14	2016 High Migration	0	109751	110456	111121	111774	112377	112992	113552	114095	114671	115207	115713	116131	116561	116947	117302	117663	118013	118352	118683	118959	119267		
Sc14	Arising Need Year Change	0	705	665	653	603	615	560	543	576	536	506	418	430	386	355	361	350	339	331	276	308	308		
Sc14	Existing Backlog Clearance	0	95	95	95	95	95	95	95	95	95	95	0	0	0	0	0	0	0	0	0	0	0		952 over 10 years
Sc14	***OUTPUT***	***0***	***800***	***760***	***748***	***698***	***710***	***655***	***638***	***671***	***631***	***601***	***418***	***430***	***386***	***355***	***361***	***350***	***339***	***331***	***276***	***308***	***308***		
Sc15	2016 High Migration	0	109751	110456	111121	111774	112377	112992	113552	114095	114671	115207	115713	116131	116561	116947	117302	117663	118013	118352	118683	118959	119267		
Sc15	Arising Need Year Change	0	705	665	653	603	615	560	543	576	536	506	418	430	386	355	361	350	339	331	276	308	308		
Sc15	Existing Backlog Clearance	0	89	89	89	89	89	89	89	89	89	89	0	0	0	0	0	0	0	0	0	0	0		882 over 10 years
Sc15	***OUTPUT***	***0***	***794***	***754***	***742***	***692***	***704***	***649***	***632***	***665***	***625***	***595***	***418***	***430***	***386***	***355***	***361***	***350***	***339***	***331***	***276***	***308***	***308***		
Sc16	2016 High Migration	0	109751	110456	111121	111774	112377	112992	113552	114095	114671	115207	115713	116131	116561	116947	117302	117663	118013	118352	118683	118959	119267		
Sc16	Arising Need Year Change	0	705	665	653	603	615	560	543	576	536	506	418	430	386	355	361	350	339	331	276	308	308		
Sc16	Existing Backlog Clearance	0	113	113	113	113	113	113	113	113	113	113	0	0	0	0	0	0	0	0	0	0	0		1123 over 10 year is only difference to Sc 15
Sc16	***OUTPUT***	***0***	***818***	***778***	***766***	***716***	***728***	***673***	***656***	***689***	***649***	***619***	***418***	***430***	***386***	***355***	***361***	***350***	***339***	***331***	***276***	***308***	***308***		
Sc17	2016 High Migration	0	109751	110456	111121	111774	112377	112992	113552	114095	114671	115207	115713	116131	116561	116947	117302	117663	118013	118352	118683	118959	119267		
Sc17	Arising Need Year Change	0	705	665	653	603	615	560	543	576	536	506	418	430	386	355	361	350	339	331	276	308	308		
Sc17	Existing Backlog Clearance	0	224	224	224	224	224	224	224	224	224	224	0	0	0	0	0	0	0	0	0	0	0		Actual figure of 2236 derived from from HHR
Sc17	***OUTPUT***	***0***	***929***	***889***	***877***	***827***	***839***	***784***	***767***	***800***	***760***	***730***	***418***	***430***	***386***	***355***	***361***	***350***	***339***	***331***	***276***	***308***	***308***		
Sc18_10_2018	2018 High Migration	0	109514	109986	110483	111152	111794	112381	112894	113332	113777	114168	114553	114847	115180	115465	115721	116001	116295	116607	116910	117160	117482		Note change to 2018 NRS HH projection figures
Sc18_10_2018	2018 High Migration Change	0	472	497	669	642	587	513	438	445	391	385	294	333	285	256	280	294	312	303	250	322	322		High Migration Projection
Sc18_10_2018	Existing Backlog Clearance	0	224	224	224	224	224	224	224	224	224	224	0	0	0	0	0	0	0	0	0	0	0		2236 from HHR
Sc18_10_2018	***Total 2016 High Migration***	***0***	***696***	***721***	***893***	***866***	***811***	***737***	***662***	***669***	***615***	***609***	***294***	***333***	***285***	***256***	***280***	***294***	***312***	***303***	***250***	***322***	***322***		
Sc19_HIGH_10_2020	2018 High Migration	0	0	109986	110483	111152	111794	112381	112894	113332	113777	114168	114553	114847	115180	115465	115721	116001	116295	116607	116910	117160	117482	117792	Note change to 2018 NRS HH projection figures
Sc19_HIGH_10_2020	2018 High Migration Change	0	0	497	669	642	587	513	438	445	391	385	294	333	285	256	280	294	312	303	250	322	310	310	High Migration Projection
Sc19_HIGH_10_2020	Existing Backlog Clearance	0	0	224	224	224	224	224	224	224	224	224	224	0	0	0	0	0	0	0	0	0	0	0	2236 from HHR
Sc19_HIGH_10_2020	***OUTPUT***	***0***	***0***	***721***	***893***	***866***	***811***	***737***	***662***	***669***	***615***	***609***	***518***	***333***	***285***	***256***	***280***	***294***	***312***	***303***	***250***	***322***	***310***	***310***	**Selected Scenario**
Sc20_LOW_10_2020	2018 Low Migration	0	0	109955	110396	110990	111533	112024	112413	112720	113032	113288	113532	113681	113856	113988	114084	114203	114327	114461	114588	114655	114782	114892	Note change to 2018 NRS HH projection figures
Sc20_LOW_10_2020	2018 Low Migration Change	0	0	441	594	543	491	389	307	312	256	244	149	175	132	96	119	124	134	127	67	127	110	110	Low Migration Projection
Sc20_LOW_10_2020	Existing Backlog Clearance	0	0	224	224	224	224	224	224	224	224	224	224	0	0	0	0	0	0	0	0	0	0	0	2236 from HHR
Sc20_LOW_10_2020	***OUTPUT***	***0***	***0***	***665***	***818***	***767***	***715***	***613***	***531***	***536***	***480***	***468***	***373***	***175***	***132***	***96***	***119***	***124***	***134***	***127***	***67***	***127***	***110***	***110***	
Sc21_PP_10_2020	2018 Principal	0	0	109973	110436	111067	111657	112181	112633	113007	113383	113704	114016	114239	114495	114699	114878	115072	115280	115501	115719	115871	116092	116297	Note change to 2018 NRS HH projection figures
Sc21_PP_10_2020	2018 Principal Change	0	0	463	631	590	524	452	374	376	321	312	223	256	204	179	194	208	221	218	152	221	205	205	Principal Projection
Sc21_PP_10_2020	Existing Backlog Clearance	0	0	224	224	224	224	224	224	224	224	224	224	0	0	0	0	0	0	0	0	0	0	0	2236 from HHR
Sc21_PP_10_2020	***OUTPUT***	***0***	***0***	***687***	***855***	***814***	***748***	***676***	***598***	***600***	***545***	***536***	***447***	***256***	***204***	***179***	***194***	***208***	***221***	***218***	***152***	***221***	***205***	***205***	
Sc22_HIGH_10_2020_V2	2018 High Migration	0	0	109986	110483	111152	111794	112381	112894	113332	113777	114168	114553	114847	115180	115465	115721	116001	116295	116607	116910	117160	117482	117792	Note change to 2018 NRS HH projection figures
Sc22_HIGH_10_2020_V2	2018 High Migration Change	0	0	497	669	642	587	513	438	445	391	385	294	333	285	256	280	294	312	303	250	322	310	310	High Migration Projection
Sc22_HIGH_10_2020_V2	Existing Backlog Clearance AND "In Year Ch	0	0	418	418	418	418	418	418	418	418	418	418	194	194	194	194	194	194	194	194	194	194	194	2236 from HHR and 194 per year as "In Year arising need"
Sc22_HIGH_10_2020_V2	**OUTPUT**	**0**	**0**	**915**	**1087**	**1060**	**1005**	**931**	**856**	**863**	**809**	**803**	**712**	**527**	**479**	**450**	**474**	**488**	**506**	**497**	**444**	**516**	**504**	**504**	***Final Scenario Figures***