

Minutes 20 August 2018

Town of Groton

Joint meeting of Fire Dept Task Force Study Committee

Called to order 6:00PM

Attendees:

Peter Myette (PM)

John Kane (JK)

Jenifer Evans (JBE)

Ryan Monat (RM)

Old Business

None

New Business

Given paramedics come from adjacent towns, and sent by the dispatcher, how does the response time change regardless of the staffing levels? Paramedics response time may not change, but EMTs can get there faster when staffed and begin treatment, e.g., oxygen, CPR, etc.

RM: Mutual aid to Groton from Westford – 52 times for fire and EMT. (1 to cover the station, 2 for actual fire, 1 for ambulance, 48 times as paramedics.)

Westford had ~3200 calls last year. ~65% EMS, ~35% fire. The call rate increased ~50% over the last 10 years, primarily due to paramedic mutual aid.

Westford called for mutual aid from Groton 6 times (1 structure fire, 1 to cover station, 3 medical emergencies, 1 medical assist.)

Looking at Westford: 3 times the fire budget, 3 times the town budget, 2 times the people, comparable tax rate.

JBE: shared first cut cost/benefit heat map, showing methodology for quantifying the benefit. Also shared info on cohorts, and distribution of calls (see attached.) Discussed the cost/benefit concept and the Value of a Statistical Life (VSL).

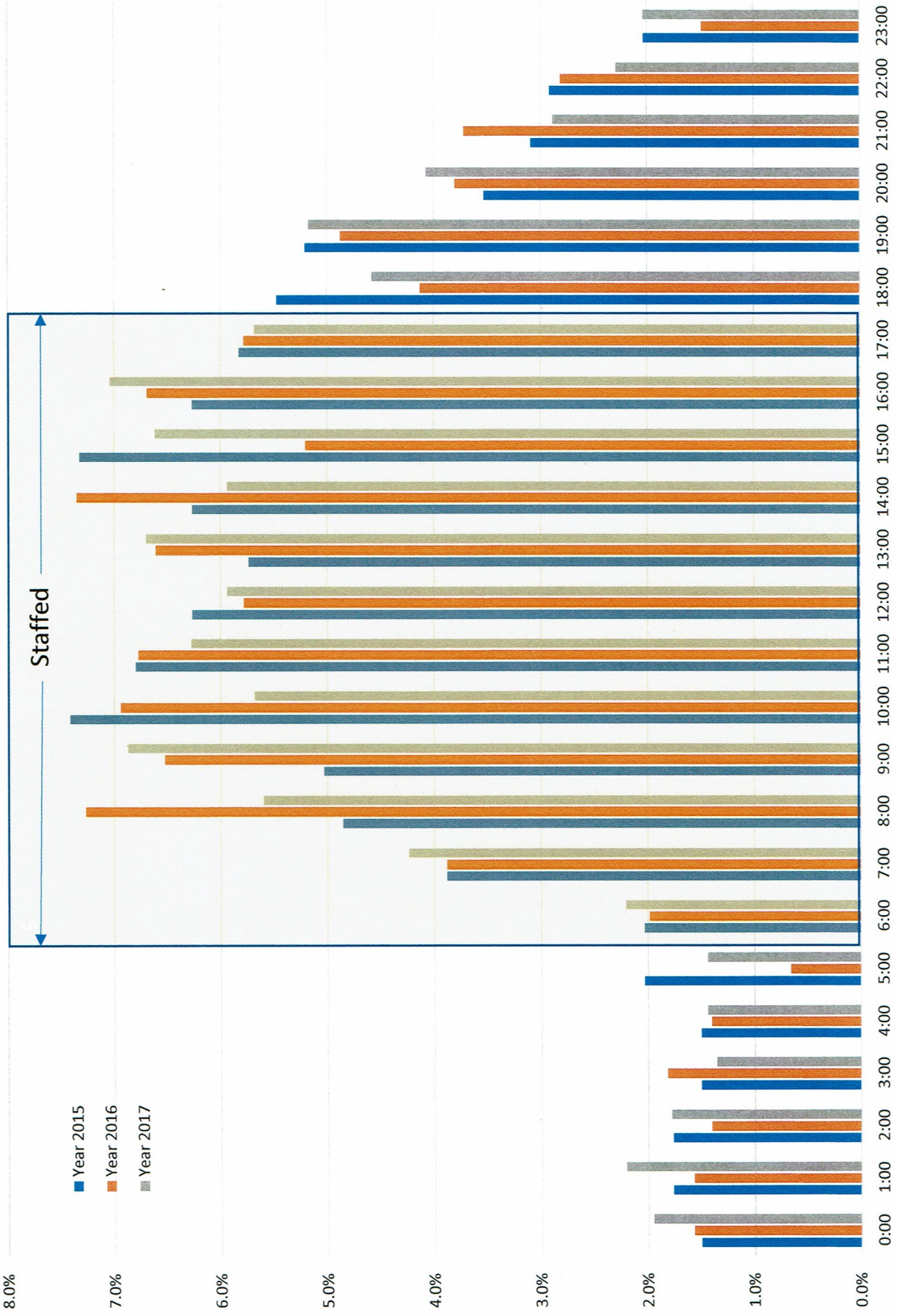
Aim for a public meeting by 27 Sept to begin community outreach aspect

Next meeting: 27 August.

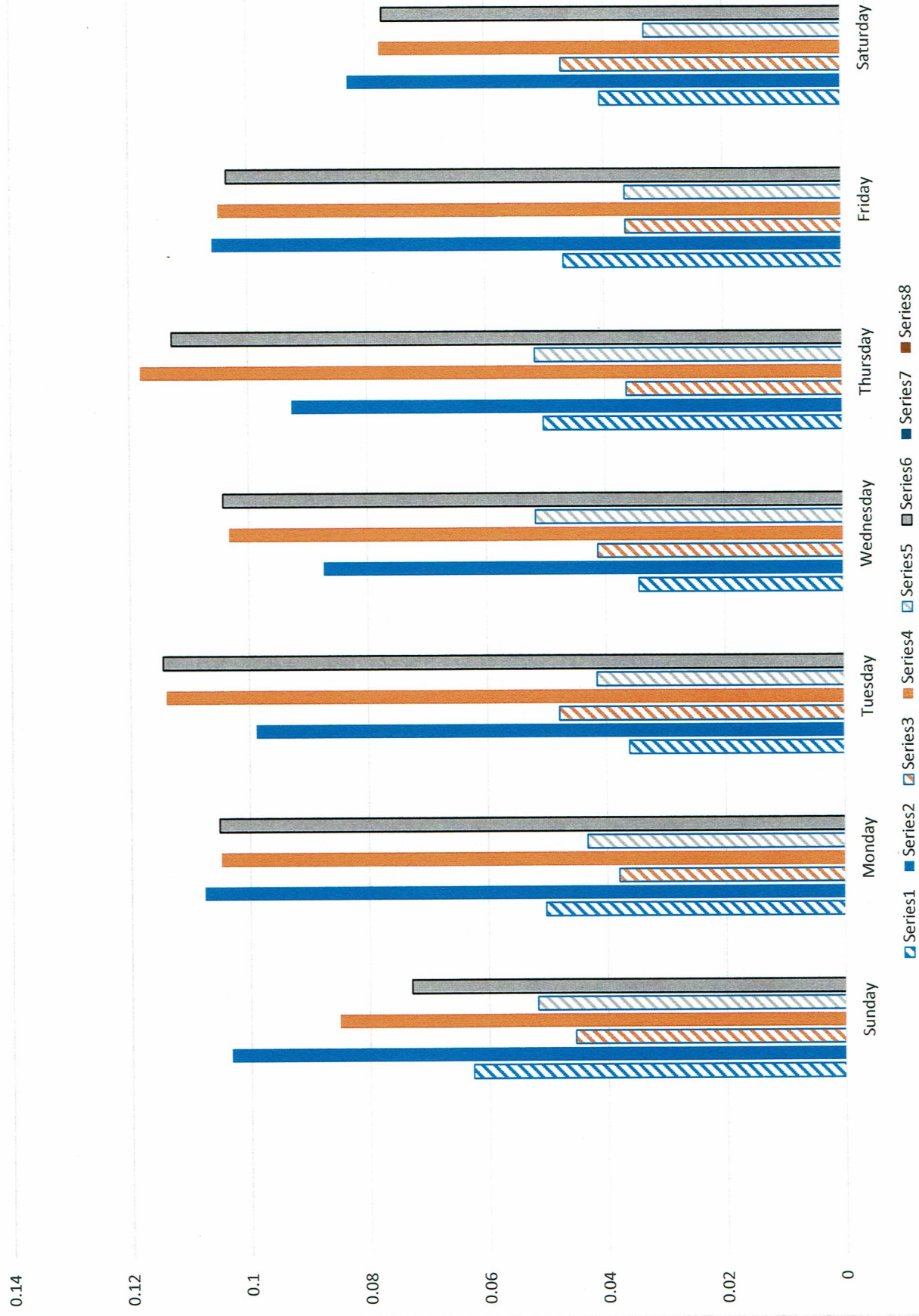
Adjourned at 6:56 PM

Jenifer Evans

Calls By Hour



Calls by Day of Week



Reward (0-1)

Penalty 1

0.5

Maximum

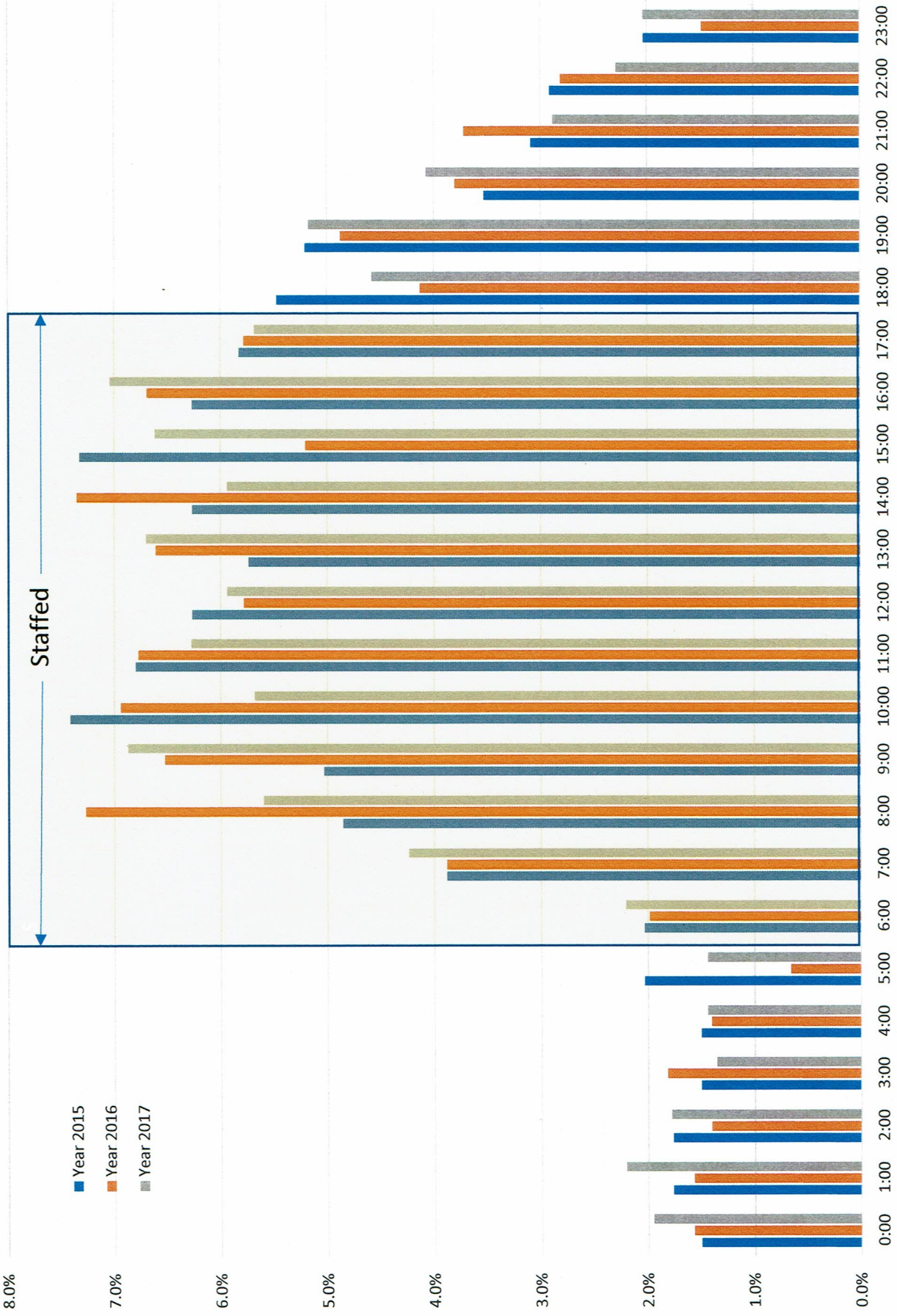
0.05667509

Average

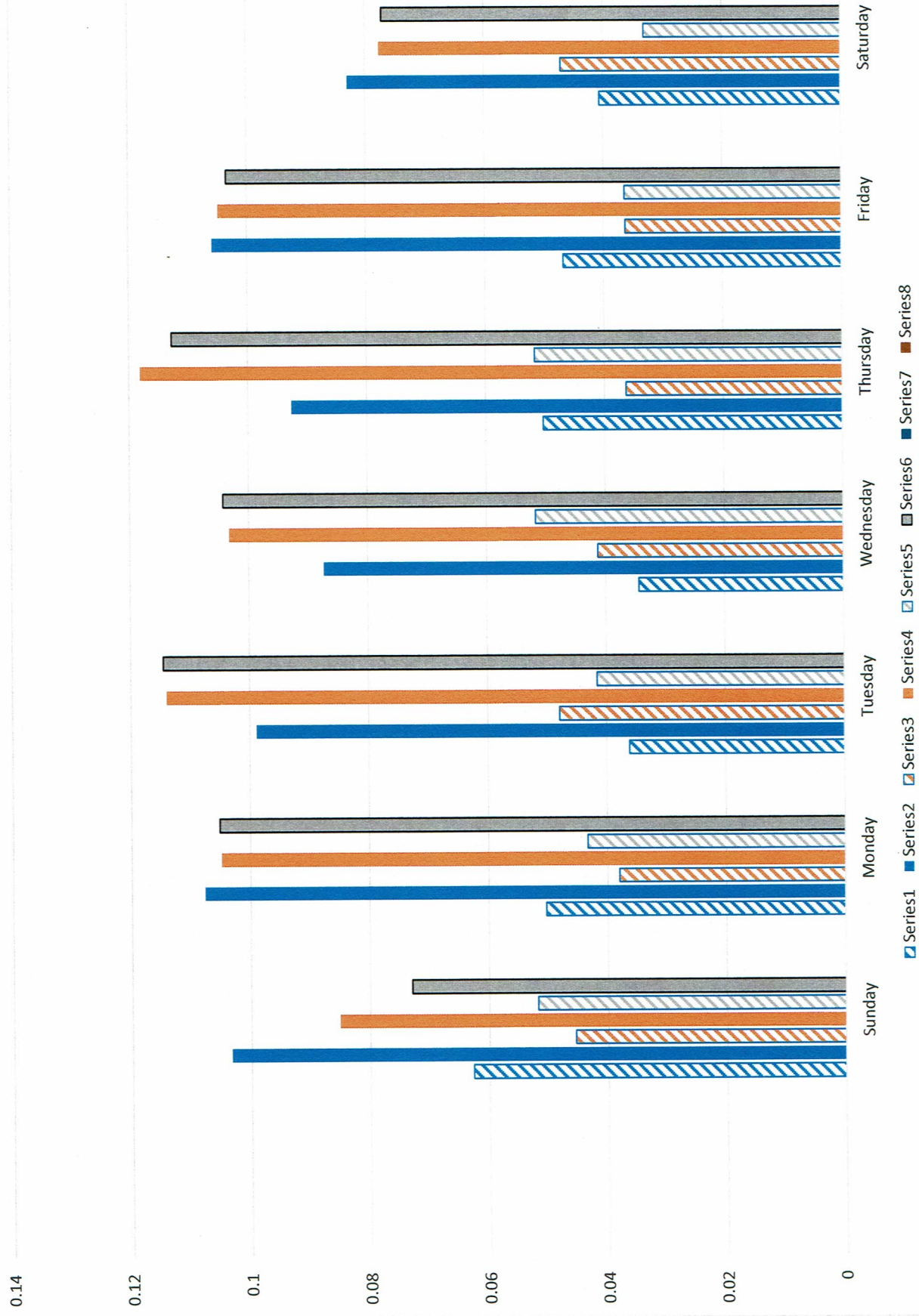
-0.010165795

Shift Start	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Shift Start
0:00	-0.4749	-0.2236	-0.14082	-0.09977	-0.07547	-0.05945	-0.04651	-0.0332	-0.01966	-0.00849	0.001392	0.009544	0.015727	0.021405	0.026496	0.030822	0.03489	0.037754	0.039499	0.041137	0.042083	0.042372	0.042271	0.041667	0:00
1:00	-0.4723	-0.22378	-0.14139	-0.10061	-0.07636	-0.05845	-0.04152	-0.02526	-0.01222	-0.00098	0.00813	0.014946	0.021121	0.026595	0.031203	0.035502	0.038498	0.040299	0.04192	0.043734	0.043195	0.043052	0.042387	0.041667	1:00
2:00	-0.47525	-0.22594	-0.14338	-0.10079	-0.07682	-0.05845	-0.04152	-0.02526	-0.01222	-0.00098	0.00813	0.014946	0.021121	0.026595	0.031203	0.035502	0.038498	0.040299	0.04192	0.043734	0.043195	0.043052	0.042387	0.041667	2:00
3:00	-0.47663	-0.22745	-0.14475	-0.10237	-0.07862	-0.05996	-0.04262	-0.02632	-0.01323	-0.00109	0.00917	0.01603	0.022203	0.027778	0.03283	0.03748	0.04104	0.04362	0.04518	0.04641	0.04734	0.04800	0.04840	0.04867	3:00
4:00	-0.47827	-0.2288	-0.14617	-0.10417	-0.08096	-0.06009	-0.04362	-0.02732	-0.01423	-0.00139	0.01033	0.01719	0.02336	0.02893	0.03398	0.03863	0.04228	0.04486	0.04641	0.04774	0.04874	0.04940	0.04980	0.05000	4:00
5:00	-0.47934	-0.22943	-0.14691	-0.10491	-0.08169	-0.06096	-0.04444	-0.02814	-0.01504	-0.00169	0.01063	0.01749	0.02366	0.02923	0.03428	0.03893	0.04258	0.04516	0.04671	0.04799	0.04899	0.04965	0.05000	0.05017	5:00
6:00	-0.48091	-0.23044	-0.14766	-0.10564	-0.08269	-0.06196	-0.04544	-0.02894	-0.01584	-0.00204	0.01103	0.01789	0.02406	0.02963	0.03468	0.03933	0.04298	0.04556	0.04711	0.04839	0.04939	0.05000	0.05017	0.05034	6:00
7:00	-0.48397	-0.17569	-0.08642	-0.03977	-0.01197	0.00509	0.01789	0.02787	0.03541	0.04187	0.04593	0.04772	0.04855	0.04888	0.04899	0.04899	0.04888	0.04863	0.04828	0.04784	0.04734	0.04671	0.04600	0.04527	7:00
8:00	-0.4114	-0.15964	-0.07304	-0.02997	-0.006	0.010874	0.023287	0.032341	0.039617	0.04514	0.04893	0.05132	0.05308	0.05413	0.05466	0.05488	0.05488	0.05463	0.05428	0.05384	0.05334	0.05271	0.05200	0.05127	8:00
9:00	-0.40788	-0.1586	-0.07204	-0.02904	-0.006	0.010874	0.023287	0.032341	0.039617	0.04514	0.04893	0.05132	0.05308	0.05413	0.05466	0.05488	0.05488	0.05463	0.05428	0.05384	0.05334	0.05271	0.05200	0.05127	9:00
10:00	-0.39983	-0.15031	-0.07023	-0.02887	-0.00354	0.01301	0.025426	0.03353	0.039617	0.04514	0.04893	0.05132	0.05308	0.05413	0.05466	0.05488	0.05488	0.05463	0.05428	0.05384	0.05334	0.05271	0.05200	0.05127	10:00
11:00	-0.40078	-0.15543	-0.07188	-0.02947	-0.00443	0.01297	0.025466	0.03353	0.039617	0.04514	0.04893	0.05132	0.05308	0.05413	0.05466	0.05488	0.05488	0.05463	0.05428	0.05384	0.05334	0.05271	0.05200	0.05127	11:00
12:00	-0.41008	-0.15743	-0.07237	-0.03034	-0.00428	0.01084	0.019421	0.026527	0.029913	0.031766	0.032519	0.032123	0.031582	0.031005	0.030688	0.030399	0.030158	0.029969	0.029839	0.029769	0.029749	0.029769	0.029799	0.029829	12:00
13:00	-0.40478	-0.15351	-0.07043	-0.02783	-0.00498	0.007671	0.01747	0.02412	0.025304	0.026779	0.027668	0.028104	0.028375	0.028518	0.028631	0.028713	0.028781	0.028831	0.028871	0.028904	0.028931	0.028954	0.028974	0.028994	13:00
14:00	-0.40223	-0.15326	-0.06885	-0.03002	-0.00984	0.004512	0.012011	0.016565	0.019175	0.020033	0.020494	0.021094	0.021375	0.021518	0.021592	0.021639	0.021678	0.021708	0.021731	0.021748	0.021764	0.021779	0.021794	0.021809	14:00
15:00	-0.40428	-0.15215	-0.07262	-0.03674	-0.01414	-0.00228	0.004965	0.009351	0.011396	0.012767	0.014124	0.01501	0.015653	0.016087	0.016392	0.016639	0.016831	0.016974	0.017076	0.017139	0.017184	0.017221	0.017254	0.017284	15:00
16:00	-0.40002	-0.15679	-0.08089	-0.0416	-0.02188	-0.01016	-0.00299	0.008856	0.00355	0.005964	0.007672	0.008981	0.009961	0.010726	0.0112083	0.011508	0.011694	0.011844	0.011964	0.012059	0.012139	0.012204	0.012264	0.012319	16:00
17:00	-0.41356	-0.17133	-0.0888	-0.05235	-0.03219	-0.02015	-0.0133	-0.0085	-0.00448	-0.00156	0.000708	0.00236	0.00386	0.005805	0.00942	0.014368	0.018942	0.023455	0.027422	0.030566	0.033645	0.036559	0.039131	0.041667	17:00
18:00	-0.42909	-0.17641	-0.09861	-0.06185	-0.04147	-0.02993	-0.02027	-0.01585	-0.01134	-0.00787	-0.00517	-0.00302	-0.004	0.003918	0.009563	0.014723	0.019749	0.024164	0.027625	0.030566	0.033645	0.036559	0.039131	0.041667	18:00
19:00	-0.42373	-0.18337	-0.1061	-0.06956	-0.0501	-0.03756	-0.02824	-0.02162	-0.01662	-0.01278	-0.00974	-0.00634	-0.00223	0.005182	0.010978	0.016552	0.021415	0.025221	0.028905	0.032348	0.035366	0.038302	0.040395	0.041667	19:00
20:00	-0.443	-0.19728	-0.11817	-0.08169	-0.06033	-0.04566	-0.0356	-0.02823	-0.02268	-0.01834	-0.01385	-0.00769	-0.00229	0.006314	0.012571	0.017987	0.022218	0.026274	0.030036	0.033321	0.036495	0.039397	0.041667	0.041667	20:00
21:00	-0.45156	-0.20575	-0.12791	-0.08966	-0.06619	-0.05103	-0.0404	-0.03264	-0.02671	-0.02093	-0.01557	-0.00956	-0.002415	0.009398	0.015386	0.020044	0.024466	0.028538	0.032074	0.035469	0.038789	0.041667	0.041667	0.041667	21:00
22:00	-0.45995	-0.21609	-0.1357	-0.09485	-0.07093	-0.05521	-0.04472	-0.03611	-0.02864	-0.02198	-0.01592	-0.00942	-0.006394	0.013024	0.018151	0.022968	0.027367	0.031165	0.034786	0.037369	0.039866	0.041667	0.041667	0.041667	22:00
23:00	-0.47224	-0.22357	-0.13981	-0.09867	-0.07426	-0.05826	-0.04699	-0.03723	-0.02642	-0.01492	-0.00519	0.003589	0.00945	0.016586	0.021829	0.026575	0.030642	0.034494	0.037228	0.038912	0.040691	0.041432	0.041667	0.041667	23:00

Calls By Hour



Calls by Day of Week



Reward (0-1)

Penalty 0.5

Maximum
0.050667509

Average
-0.010165795

Shift Start	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Shift Start
0:00	-0.4749	-0.2236	-0.14082	-0.09977	-0.07547	-0.05945	-0.04651	-0.0332	-0.01966	-0.00849	0.001392	0.009544	0.015727	0.021405	0.026496	0.030822	0.03489	0.037754	0.039499	0.041137	0.042083	0.042372	0.042271	0.041667	0:00
1:00	-0.4723	-0.22378	-0.14139	-0.10061	-0.07636	-0.05845	-0.04152	-0.02526	-0.01222	-0.00098	0.00813	0.014946	0.021121	0.026595	0.031203	0.035502	0.038498	0.040299	0.04192	0.043734	0.043195	0.043052	0.042387	0.041667	1:00
2:00	-0.47525	-0.22594	-0.14338	-0.10079	-0.07682	-0.05806	-0.04152	-0.02526	-0.01222	-0.00098	0.00813	0.014946	0.021121	0.026595	0.031203	0.035502	0.038498	0.040299	0.04192	0.043734	0.043195	0.043052	0.042387	0.041667	2:00
3:00	-0.47663	-0.22745	-0.14475	-0.10169	-0.07758	-0.05845	-0.04152	-0.02526	-0.01222	-0.00098	0.00813	0.014946	0.021121	0.026595	0.031203	0.035502	0.038498	0.040299	0.04192	0.043734	0.043195	0.043052	0.042387	0.041667	3:00
4:00	-0.47827	-0.2288	-0.14617	-0.10262	-0.07858	-0.05896	-0.04152	-0.02526	-0.01222	-0.00098	0.00813	0.014946	0.021121	0.026595	0.031203	0.035502	0.038498	0.040299	0.04192	0.043734	0.043195	0.043052	0.042387	0.041667	4:00
5:00	-0.47934	-0.22943	-0.14691	-0.10291	-0.07891	-0.05904	-0.04152	-0.02526	-0.01222	-0.00098	0.00813	0.014946	0.021121	0.026595	0.031203	0.035502	0.038498	0.040299	0.04192	0.043734	0.043195	0.043052	0.042387	0.041667	5:00
6:00	-0.48091	-0.23044	-0.14766	-0.10366	-0.07966	-0.05974	-0.04152	-0.02526	-0.01222	-0.00098	0.00813	0.014946	0.021121	0.026595	0.031203	0.035502	0.038498	0.040299	0.04192	0.043734	0.043195	0.043052	0.042387	0.041667	6:00
7:00	-0.48397	-0.17569	-0.08642	-0.03977	-0.01197	0.00509	0.017896	0.027879	0.035417	0.041873	0.045925	0.048006	0.05018	0.050668	0.050519	0.049865	0.048565	0.047261	0.046232	0.045158	0.04412	0.043102	0.042127	0.041667	7:00
8:00	-0.48114	-0.15964	-0.07304	-0.02997	-0.006	0.010874	0.023287	0.032341	0.039617	0.044514	0.046914	0.04936	0.049948	0.04984	0.049188	0.047848	0.04651	0.045465	0.044375	0.043325	0.042296	0.041313	0.040668	0.041667	8:00
9:00	-0.40788	-0.15386	-0.0695	-0.0284	-0.006	0.010874	0.023287	0.032341	0.039617	0.044514	0.046914	0.04936	0.049948	0.04984	0.049188	0.047848	0.04651	0.045465	0.044375	0.043325	0.042296	0.041313	0.040668	0.041667	9:00
10:00	-0.39983	-0.15031	-0.07023	-0.02847	-0.006	0.010874	0.023287	0.032341	0.039617	0.044514	0.046914	0.04936	0.049948	0.04984	0.049188	0.047848	0.04651	0.045465	0.044375	0.043325	0.042296	0.041313	0.040668	0.041667	10:00
11:00	-0.40078	-0.15543	-0.07188	-0.02947	-0.006	0.010874	0.023287	0.032341	0.039617	0.044514	0.046914	0.04936	0.049948	0.04984	0.049188	0.047848	0.04651	0.045465	0.044375	0.043325	0.042296	0.041313	0.040668	0.041667	11:00
12:00	-0.41008	-0.15743	-0.07237	-0.03034	-0.00428	0.01084	0.019421	0.026527	0.029913	0.031766	0.032519	0.032123	0.031582	0.031305	0.030868	0.030399	0.029889	0.029377	0.029467	0.030095	0.030378	0.030632	0.030857	0.030959	12:00
13:00	-0.40478	-0.15351	-0.07043	-0.02783	-0.00498	0.007671	0.01747	0.02412	0.025304	0.026779	0.026868	0.026721	0.026796	0.02665	0.026431	0.026138	0.025815	0.026108	0.027893	0.030029	0.033843	0.037039	0.039328	0.041667	13:00
14:00	-0.40223	-0.15326	-0.06885	-0.03002	-0.00984	0.004512	0.012011	0.016565	0.019175	0.020033	0.020494	0.021094	0.021375	0.021518	0.021532	0.021478	0.022043	0.023453	0.027545	0.030774	0.034078	0.037039	0.039328	0.041667	14:00
15:00	-0.40428	-0.15215	-0.07262	-0.03674	-0.01414	-0.00228	0.004965	0.009351	0.011396	0.012767	0.014124	0.01501	0.015653	0.016087	0.016392	0.01731	0.019823	0.023644	0.027248	0.030894	0.034147	0.036683	0.039328	0.041667	15:00
16:00	-0.40002	-0.15679	-0.08089	-0.0416	-0.02188	-0.01016	-0.00299	0.008856	0.00355	0.005964	0.00767	0.008881	0.009961	0.010726	0.012083	0.01508	0.019404	0.023444	0.027482	0.031069	0.033871	0.03666	0.039317	0.041667	16:00
17:00	-0.401356	-0.17133	-0.0888	-0.05235	-0.03219	-0.02015	-0.0133	-0.0085	-0.00448	-0.00156	0.000708	0.00236	0.00386	0.005805	0.00942	0.014368	0.019942	0.023455	0.027422	0.030566	0.033645	0.036559	0.039131	0.041667	17:00
18:00	-0.42909	-0.17641	-0.09861	-0.06185	-0.04147	-0.02993	-0.02027	-0.01585	-0.01134	-0.00787	-0.00517	-0.00302	-0.004	0.003918	0.009563	0.014723	0.019749	0.024164	0.027625	0.030105	0.032446	0.034802	0.036981	0.03972	18:00
19:00	-0.42373	-0.18337	-0.1061	-0.06956	-0.0501	-0.03756	-0.02824	-0.02162	-0.01662	-0.01278	-0.00974	-0.00634	-0.00423	0.005182	0.010978	0.016552	0.021415	0.025221	0.028905	0.032341	0.035495	0.038165	0.040162	0.041667	19:00
20:00	-0.443	-0.19728	-0.11817	-0.08169	-0.06033	-0.04566	-0.0356	-0.02823	-0.02268	-0.01834	-0.01385	-0.00769	-0.00429	0.006314	0.012571	0.017987	0.022218	0.026274	0.030036	0.033321	0.036495	0.039397	0.041	0.041667	20:00
21:00	-0.45156	-0.20575	-0.12791	-0.08966	-0.06619	-0.05103	-0.0404	-0.03264	-0.02671	-0.02093	-0.01557	-0.00906	-0.004215	0.009398	0.015386	0.020044	0.024466	0.028538	0.032074	0.035469	0.037897	0.039397	0.041	0.041667	21:00
22:00	-0.45995	-0.21609	-0.1357	-0.09485	-0.07093	-0.05521	-0.04472	-0.03611	-0.02864	-0.01978	-0.00992	-0.0042	0.006394	0.013024	0.018151	0.022968	0.027367	0.031165	0.034786	0.037369	0.038966	0.040662	0.041372	0.041667	22:00
23:00	-0.47224	-0.22357	-0.13981	-0.09867	-0.07426	-0.05826	-0.04699	-0.03723	-0.02642	-0.01492	-0.00519	0.003589	0.00945	0.016586	0.021829	0.026575	0.030642	0.034494	0.037228	0.038912	0.040691	0.041432	0.041737	0.041667	23:00