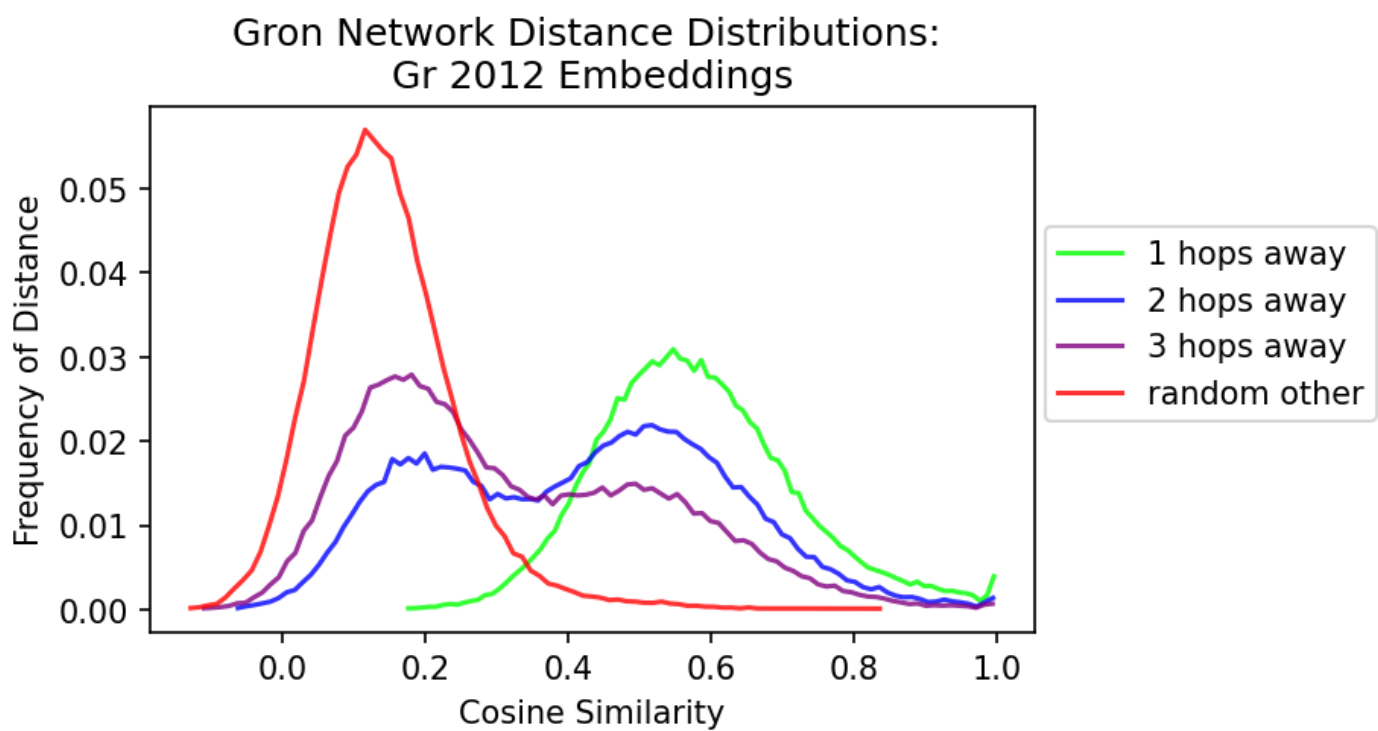
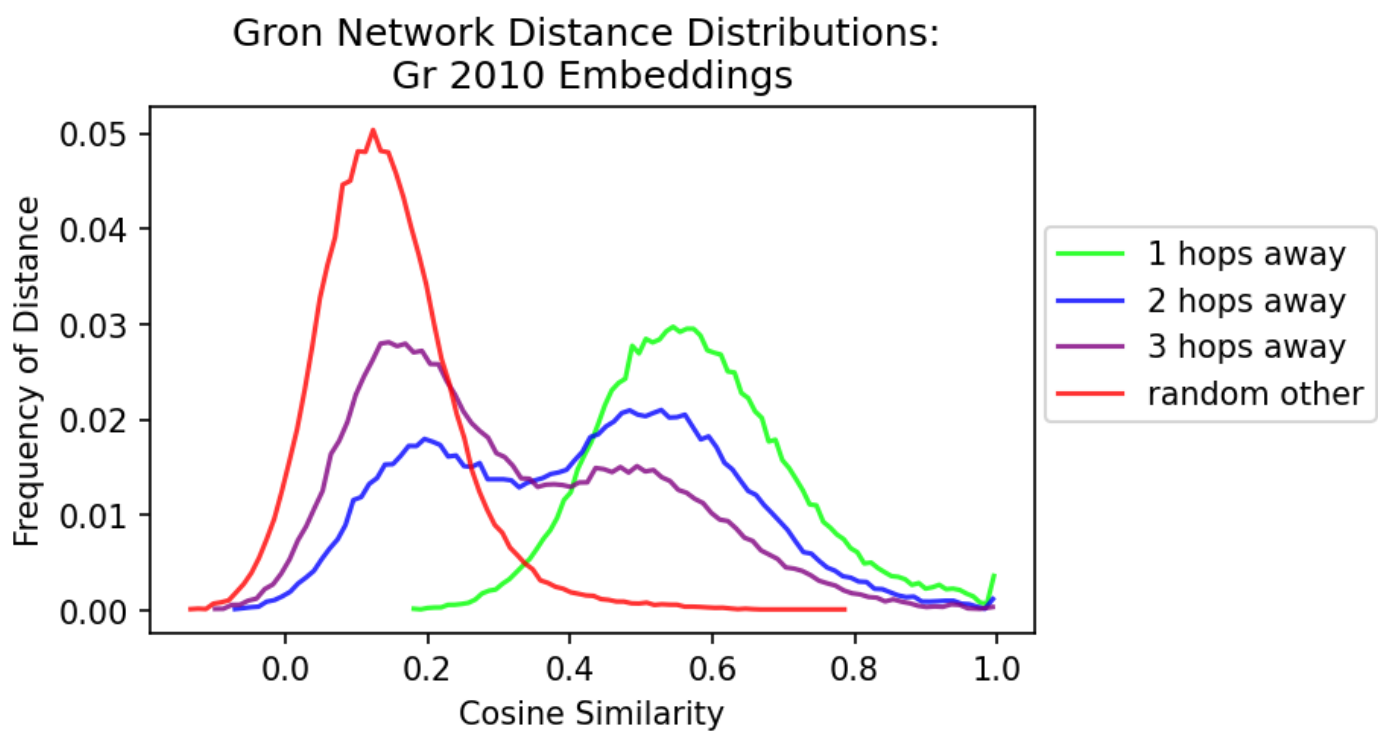


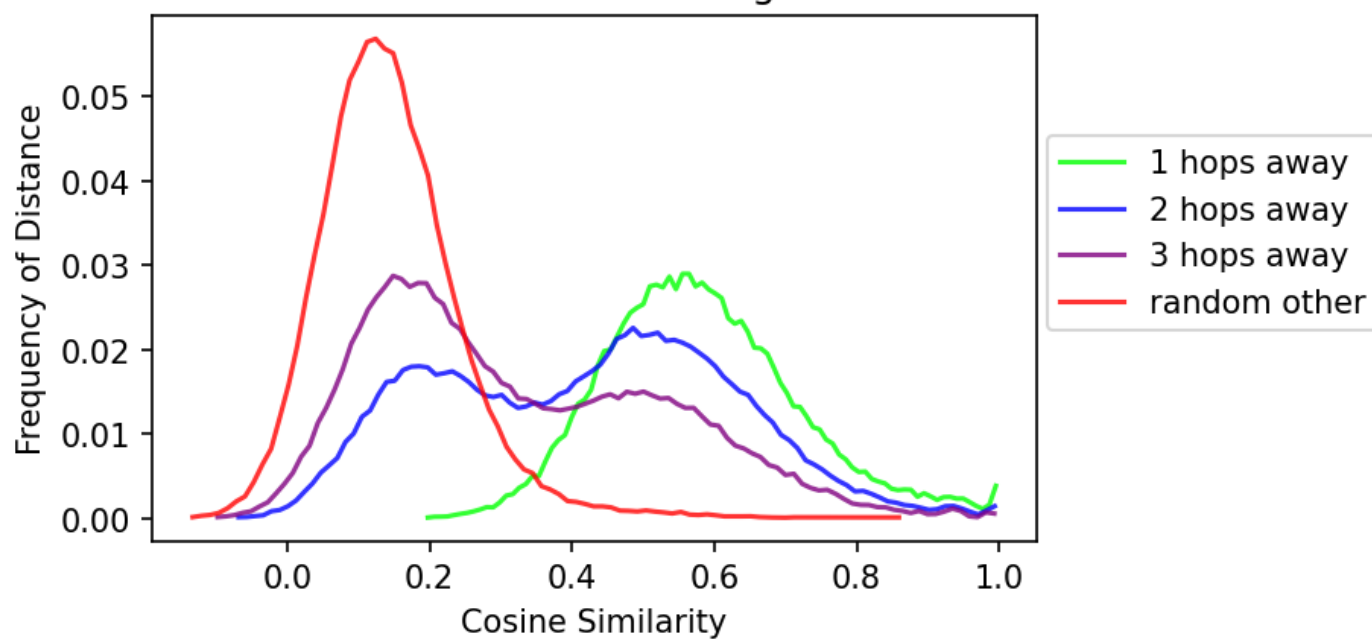
# 0. Embedding Descriptions/Comparisons

	<i>Gr 2010</i>	<i>Gr 2012</i>	<i>Gr 2014</i>
<i>type</i>	NET	NET	NET
<i>year</i>	2010	2012	2014
<i>n_samples</i>	197761	204636	210530
<i>dimensions</i>	128	128	128

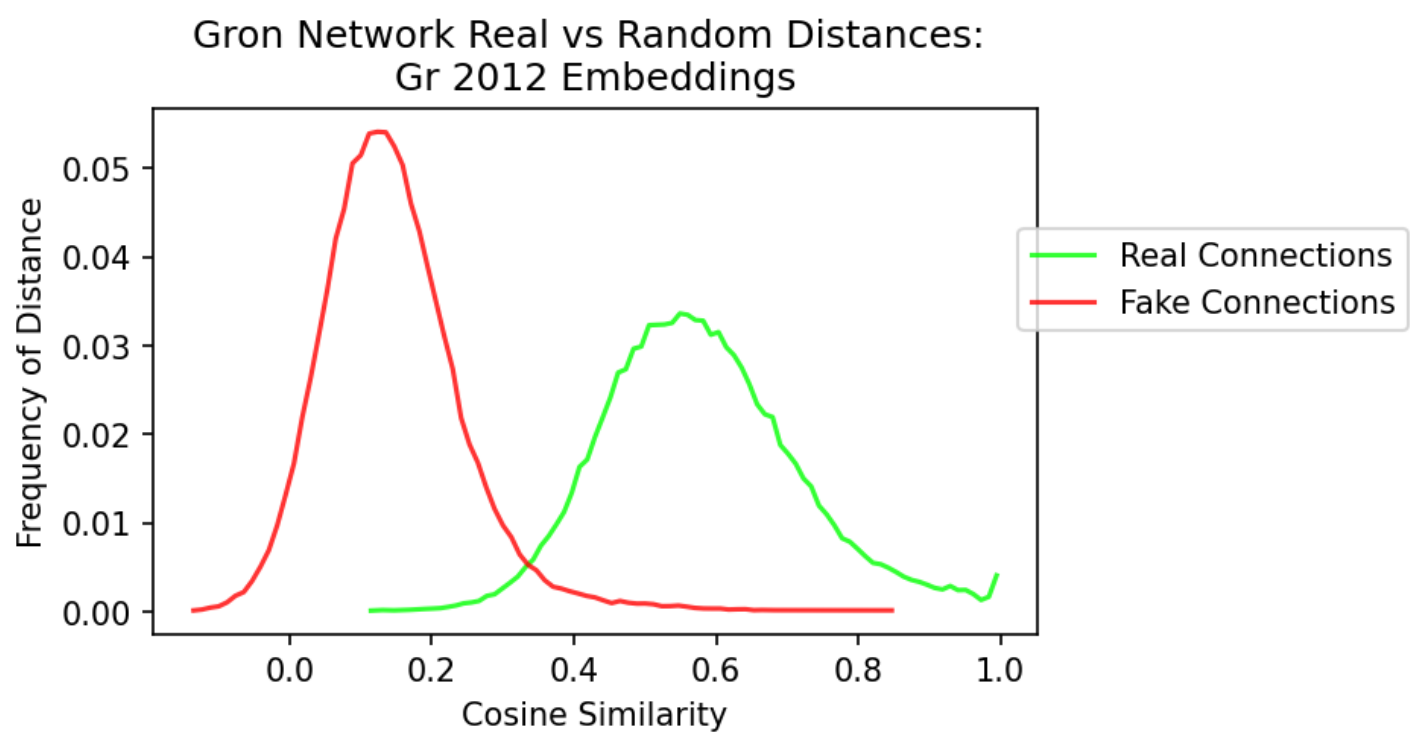
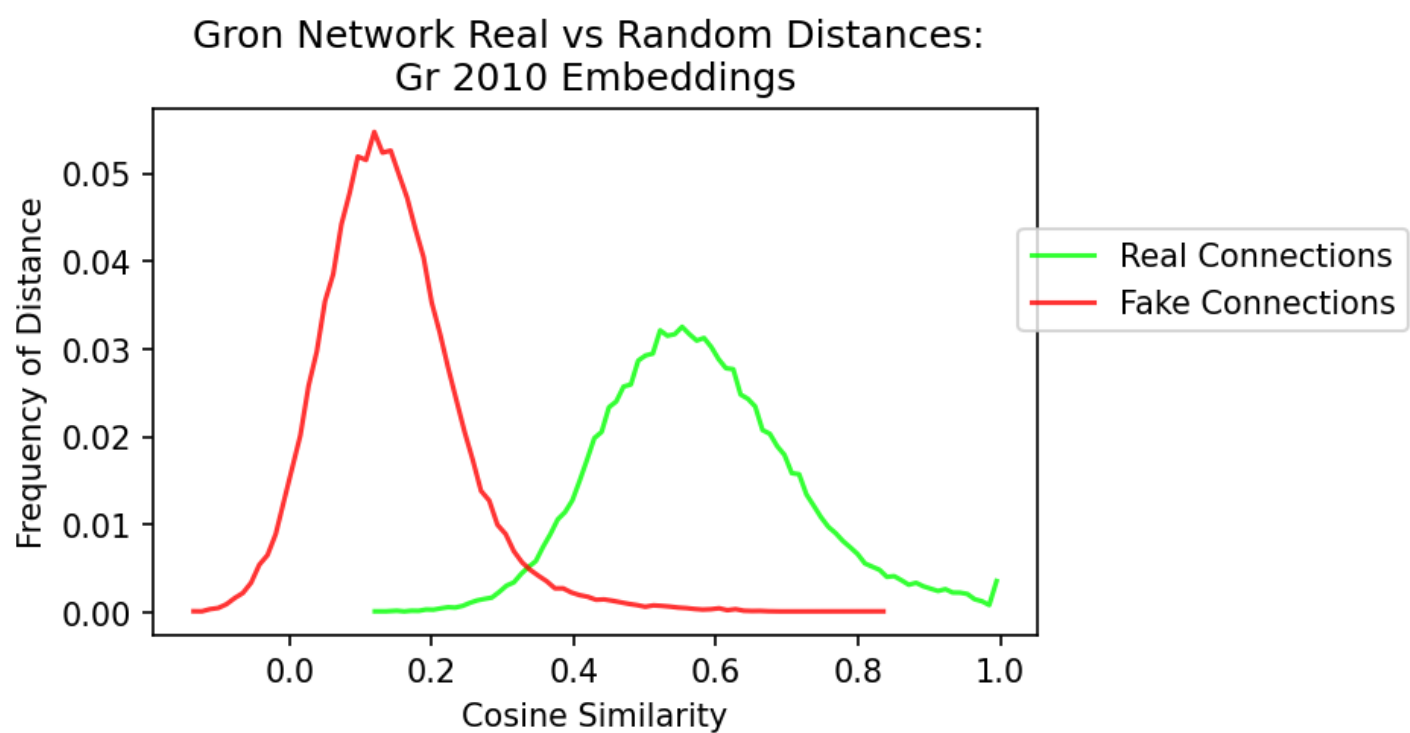
# 1. Distance Distributions by Hop



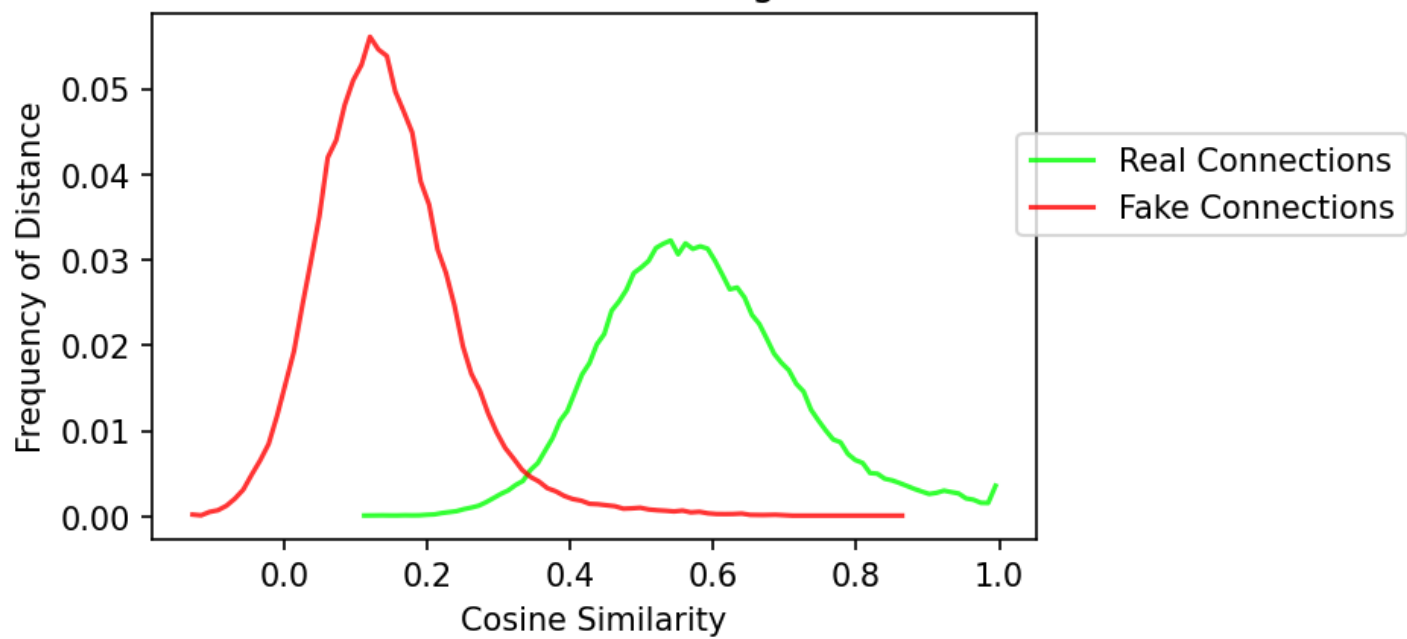
Gron Network Distance Distributions:  
Gr 2014 Embeddings



## 2. Distance Distributions: Real vs Fake Connections



Gron Network Real vs Random Distances:  
Gr 2014 Embeddings



### 3. Prediction - Income at Age 30 (R^2)

	<i>Baseline</i>	<i>Gr 2010</i>	<i>Gr 2010 + Base</i>	<i>Gr 2012</i>	<i>Gr 2012 + Base</i>	<i>Gr 2014</i>	<i>Gr 2014 + Base</i>
<b>2011</b>	-0.053	-0.006	<b>0.675</b>	0.005	0.646	0.085	0.625
<b>2012</b>	-0.031	0.003	0.493	0.016	<b>0.551</b>	0.075	0.532
<b>2013</b>	-0.003	-0.023	0.406	-0.063	0.441	0.047	<b>0.471</b>
<b>2014</b>	-0.01	0.023	0.41	0.019	<b>0.472</b>	0.05	0.366
<b>2015</b>	-0.02	0.062	0.315	0.023	0.3	0.064	<b>0.34</b>
<b>2016</b>	-0.018	0.112	<b>0.247</b>	0.077	0.202	0.104	0.183
<b>2017</b>	-0.013	0.133	<b>0.183</b>	0.1	0.125	0.119	0.176
<b>2018</b>	-0.008	0.16	0.148	0.131	0.149	0.145	<b>0.164</b>
<b>2019</b>	-0.004	0.101	0.149	0.099	0.143	<b>0.169</b>	0.161
<b>2020</b>	-0.001	0.123	0.158	0.137	0.183	0.147	<b>0.188</b>
<b>2021</b>	-0.012	0.072	<b>0.177</b>	0.06	0.164	0.041	0.168
<b>OVERALL</b>	0.099	0.035	<b>0.206</b>	0.029	0.205	0.052	0.201

Test Counts

	<i>Gr 2010</i>	<i>Gr 2010 + Base</i>	<i>Gr 2012</i>	<i>Gr 2012 + Base</i>	<i>Gr 2014</i>	<i>Gr 2014 + Base</i>
<b>2011</b>	711	635	641	571	564	515
<b>2012</b>	744	679	706	608	606	541
<b>2013</b>	790	725	729	642	654	570
<b>2014</b>	881	817	776	691	739	622
<b>2015</b>	999	937	851	774	785	677
<b>2016</b>	1159	1105	958	884	835	736
<b>2017</b>	1220	1175	1056	995	903	818
<b>2018</b>	1258	1209	1169	1107	971	888
<b>2019</b>	1246	1198	1282	1215	1094	1012
<b>2020</b>	1178	1139	1375	1315	1265	1192
<b>2021</b>	971	939	1357	1302	1373	1303
<b>OVERALL</b>	11157	10558	10900	10104	9789	8874

# 5. Prediction - Marriage (Mean Accuracy)

## 5.1 Binary Prediction (Real vs. Fake Pairs)

	<i>Baseline</i>	<i>Gr 2010</i>	<i>Gr 2010 + Base</i>	<i>Gr 2012</i>	<i>Gr 2012 + Base</i>	<i>Gr 2014</i>	<i>Gr 2014 + Base</i>
<b>2011</b>	0.0	0.988	-0.051	0.988	0.0	<b>0.994</b>	0.0
<b>2012</b>	0.0	0.976	-0.088	0.983	-0.113	<b>0.987</b>	0.0
<b>2013</b>	-0.01	0.976	-0.088	<b>0.99</b>	-0.073	0.979	-0.053
<b>2014</b>	-0.002	0.98	-0.116	0.964	-0.116	<b>0.982</b>	-0.063
<b>2015</b>	-0.003	0.959	-0.096	0.973	0.0	<b>0.976</b>	-0.09
<b>2016</b>	-0.003	0.976	-0.226	0.971	-0.079	<b>0.988</b>	-0.133
<b>2017</b>	-0.002	0.975	-0.075	0.979	-0.095	<b>0.982</b>	-0.162
<b>2018</b>	0.0	0.966	-0.16	0.973	-0.073	<b>0.977</b>	0.0
<b>2019</b>	-0.007	0.959	-0.087	0.973	-0.194	<b>0.974</b>	-0.135
<b>2020</b>	-0.016	0.95	-0.121	<b>0.97</b>	-0.007	0.963	-0.067
<b>2021</b>	-0.008	0.959	-0.055	0.978	-0.085	<b>0.982</b>	-0.158
<b>OVERALL</b>	-0.009	0.972	-0.122	0.978	-0.195	<b>0.982</b>	-0.281

Test Counts

	<i>Gr 2010</i>	<i>Gr 2010 + Base</i>	<i>Gr 2012</i>	<i>Gr 2012 + Base</i>	<i>Gr 2014</i>	<i>Gr 2014 + Base</i>
<b>2011</b>	146	37	151	37	134	27
<b>2012</b>	152	56	167	57	157	47
<b>2013</b>	139	61	137	54	136	46
<b>2014</b>	137	64	145	65	144	59
<b>2015</b>	123	66	127	65	135	61
<b>2016</b>	124	69	129	63	133	59
<b>2017</b>	127	69	133	67	136	61
<b>2018</b>	116	70	124	67	129	62
<b>2019</b>	108	67	124	70	132	66
<b>2020</b>	76	42	88	45	92	40
<b>2021</b>	74	38	92	44	98	41
<b>OVERALL</b>	1578	721	1696	718	1700	643

## 5.2 Actual Partner Rank vs. Random Pairings

	<i>Gr 2010</i>	<i>Gr 2012</i>	<i>Gr 2014</i>
<b>2011</b>	5.568	<b>2.488</b>	3.126
<b>2012</b>	4.238	3.268	<b>1.963</b>
<b>2013</b>	4.259	3.766	<b>1.487</b>
<b>2014</b>	6.234	5.152	<b>3.998</b>
<b>2015</b>	6.208	5.55	<b>4.545</b>
<b>2016</b>	6.748	6.939	<b>5.727</b>
<b>2017</b>	<b>7.172</b>	7.528	7.548
<b>2018</b>	9.334	9.416	<b>7.636</b>
<b>2019</b>	11.69	11.485	<b>10.786</b>
<b>2020</b>	17.186	16.249	<b>12.88</b>
<b>2021</b>	19.389	19.395	<b>18.564</b>
<b>OVERALL</b>	7.849	7.558	<b>7.133</b>

### Test Counts

	<i>Gr 2010</i>	<i>Gr 2012</i>	<i>Gr 2014</i>
<b>2011</b>	1466	1522	1354
<b>2012</b>	1498	1662	1560
<b>2013</b>	1384	1374	1358
<b>2014</b>	1334	1404	1416
<b>2015</b>	1182	1248	1320
<b>2016</b>	1208	1254	1302
<b>2017</b>	1226	1304	1344
<b>2018</b>	1128	1208	1258
<b>2019</b>	1032	1204	1292
<b>2020</b>	720	854	902
<b>2021</b>	720	902	972
<b>OVERALL</b>	15442	16696	16792