

Table 11

PRIMES: 1st 78 Known Maximal Gaps and Squared Prime Differences / 24									
M	start	Gap, g	end	Sqrd Diff/24	M	start	Gap, g	end	Sqrd Diff/24
1	2	1	3	-	40	42652618343	464	42652618807	1649234584900
2	3	2	5	-	41	127976334671	468	127976335139	4991077061295
3	7	4	11	3	42	182226896239	474	182226896713	7197962410802
4	23	6	29	13	43	241160624143	486	241160624629	9767005287633
5	89	8	97	62	44	297501075799	490	297501076289	12147960605130
6	113	14	127	140	45	303371455241	500	303371455741	12640477312125
7	523	18	541	798	46	304599508537	514	304599509051	13047012293343
8	887	20	907	1495	47	416608695821	516	416608696337	17914173931397
9	1129	22	1151	2090	48	461690510011	532	461690510543	20468279288947
10	1327	34	1361	3808	49	614487453523	534	614487454057	27344691693655
11	9551	36	9587	28707	50	738832927927	540	738832928467	33247481768865
12	15683	44	15727	57585	51	1346294310749	582	1346294311331	65295274085440
13	19609	52	19661	85085	52	1408695493609	588	1408695494197	69026079201247
14	31397	72	31469	188598	53	1968188556461	602	1968188557063	98737459264227
15	155921	86	156007	1117742	54	2614941710599	652	2614941711251	142078499626925
16	360653	96	360749	2885608	55	7177162611713	674	7177162612387	403117300043475
17	370261	112	370373	3456292	56	13829048559701	716	13829048560417	825133230750187
18	492113	114	492227	4675615	57	19581334192423	766	19581334193189	1249941832640783
19	1349533	118	1349651	13270988	58	42842283925351	778	42842283926129	2777608074518810
20	1357201	132	1357333	14929937	59	90874329411493	804	90874329412297	6088580070596965
21	2010733	148	2010881	24799953	60	171231342420521	806	171231342421327	11501038499272062
22	4652353	154	4652507	59706185	61	218209405436543	906	218209405437449	16474810110493198
23	17051707	180	17051887	255776955	62	1189459969825483	916	1189459969826399	90795444363380163
24	20831323	210	20831533	364549990	63	1686994940955803	924	1686994940956727	129898610453632405
25	47326693	220	47326913	867658055	64	1693182318746371	1132	1693182318747503	*159723532068461057
26	122164747	222	122164969	2260049873	65	43841547845541059	1184	43841547845542243	4325699387426776232
27	189695659	234	189695893	3699067632	66	55350776431903243	1198	55350776431904441	5525852513785066893
28	191912783	248	191913031	3966200078	67	80873624627234849	1220	80873624627236069	8222151837102271665
29	387096133	250	387096383	8064505375	68	203986478517455989	1224	203986478517457213	20806620808780573302
30	436273009	282	436273291	10252419025	69	218034721194214273	1248	218034721194215521	22675611004198349288
31	1294268491	288	1294268779	31062447240	70	305405826521087869	1272	305405826521089141	32373017611235381530
32	1453168141	292	1453168433	35360428317	71	352521223451364323	1328	352521223451365651	39012348728617725228
33	2300942549	320	2300942869	61358472240	72	401429925999153707	1356	401429925999155063	45361581637904445505
34	3842610773	336	3842611109	107593106348	73	418032645936712127	1370	418032645936713497	47725393744441379370
35	4302407359	354	4302407713	126921022312	74	804212830686677669	1442	804212830686679111	96639575154182519865
36	10726904659	382	10726905041	341473137725	75	1425172824437699411	1476	1425172824437700887	175296257405837118327
37	20678048297	384	20678048681	661697551648	76	5733241593241196731	1488	5733241593241198219	710921957561908486900
38	22367084959	394	22367085353	734385962622	77	6787988999657777797	1510	6787988999657779307	854155282456937134460
39	25056082087	456	25056082543	952131127970	78	15570628755536096243	1526	15570628755536097769	1980064956745673669263
					NOTE: While the Sqrd Diff/24 remain TRUE for ALL PRIMES, many calculators and spreadsheet apps are limited to 15 digit precision and will throw out errors above that. These 15 *digit results are approaching that limit. WolframAlpha for all calculations above 15-25 digits for accurate results! * Magic Number App (Mac) for up to 25 digit accuracy.				
Each ROW = million Primes from "start" to "end." The (END Prime ² - START Prime ²) ÷ 24 = Sqrd Diff/24. It is ALWAYS a whole number.					Each ROW = million Primes from "start" to "end." The (END Prime ² - START Prime ²) ÷ 24 = Sqrd Diff/24. It is ALWAYS a whole number.				
source: https://en.wikipedia.org/wiki/Prime_gap					source: https://arxiv.org/pdf/1309.4053.pdf https://primes.utm.edu/largest.html				
Table XI. PRIMES: 1st 78 Known Maximal Gaps and Squared Prime Differences / 24					Copyright©2018, Reginald Brooks. Brooks Design. All rights reserved.				