

## RAPTOREUM REWARD STRUCTURE

As I mentioned previously, in order to make the emission of the coins smooth and unique, I propose to make reduction every 21,262 blocks which is 29 days 12 hours and 44 minutes. Decreasing slowly the block reward every full moon (for which an owling is a cool name), would ensure a smooth emission of the RTM in comparison with other major coins such as BTC or RVN (which share the same basic structure).

Each phase will be of 8 years (2 regular 4 years halving), which correspond to almost exactly 99 lunar months.

*FYI that cycle is called an octaeteris ( <https://en.wikipedia.org/wiki/Octaeteris> )*

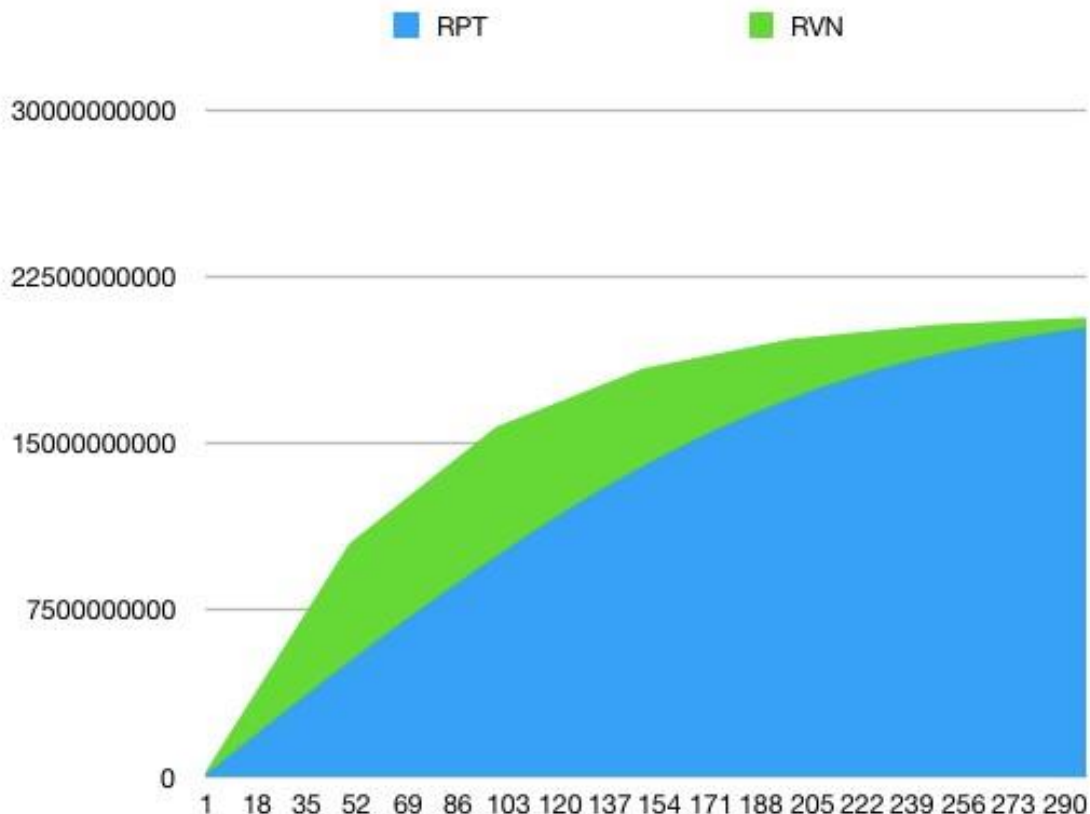
**Phase 1:** 26 lunar months with 5000 Block reward, during which the collateral is adjusted as shown in the Litepaper, then 73 lunar months with a 10 RTM block reward reduction every full moon

**Phase 2:** 99 lunar months with a 20 RTM block reward reduction every full moon

**Phase 3:** 50 lunar months with a 20 RTM block reward reduction every full moon followed by 49 months with a 10 RTM block reward reduction every full moon

That would be the first 24 years of Raptoreum RTM emission. After those first 24 years (or 6,314,814 blocks), 20,223,989,880 RTM will be in circulation (96.3% of total supply), a number very close to the 20,674,189,687 Ravencoin RVN after the same 24 years (98.44%), but those will have been issued in a much smoother way.

Find below a graph showing the first 24 years emission of both RTM and RVN (RVN halvings are obvious on the graph)



You can find below a detailed table of the first 297 lunar months (24 years) emissions

``` First 720 is 4 so first lunar month is less then month reward in this calculation```

Month            End Height    B-Reward    Month Rew    Circulating Supply

1	21262	5000	106310000	102,712,880.00
2	42524	5000	106310000	209,022,880.00
3	63786	5000	106310000	315,332,880.00
4	85048	5000	106310000	421,642,880.00
5	106310	5000	106310000	527,952,880.00
6	127572	5000	106310000	634,262,880.00
7	148834	5000	106310000	740,572,880.00
8	170096	5000	106310000	846,882,880.00
9	191358	5000	106310000	953,192,880.00
10	212620	5000	106310000	1,059,502,880.00
11	233882	5000	106310000	1,165,812,880.00
12	255144	5000	106310000	1,272,122,880.00
13	276406	5000	106310000	1,378,432,880.00
14	297668	5000	106310000	1,484,742,880.00
15	318930	5000	106310000	1,591,052,880.00
16	340192	5000	106310000	1,697,362,880.00
17	361454	5000	106310000	1,803,672,880.00
18	382716	5000	106310000	1,909,982,880.00
19	403978	5000	106310000	2,016,292,880.00
20	425240	5000	106310000	2,122,602,880.00
21	446502	5000	106310000	2,228,912,880.00
22	467764	5000	106310000	2,335,222,880.00
23	489026	5000	106310000	2,441,532,880.00
24	510288	5000	106310000	2,547,842,880.00
25	531550	5000	106310000	2,654,152,880.00
26	552812	5000	106310000	2,760,462,880.00
27	574074	4990	106097380	2,866,560,260.00
28	595336	4980	105884760	2,972,445,020.00
29	616598	4970	105672140	3,078,117,160.00
30	637860	4960	105459520	3,183,576,680.00
31	659122	4950	105246900	3,288,823,580.00
32	680384	4940	105034280	3,393,857,860.00
33	701646	4930	104821660	3,498,679,520.00
34	722908	4920	104609040	3,603,288,560.00
35	744170	4910	104396420	3,707,684,980.00
36	765432	4900	104183800	3,811,868,780.00
37	786694	4890	103971180	3,915,839,960.00

38	807956	4880	103758560	4,019,598,520.00
39	829218	4870	103545940	4,123,144,460.00
40	850480	4860	103333320	4,226,477,780.00
41	871742	4850	103120700	4,329,598,480.00
42	893004	4840	102908080	4,432,506,560.00
43	914266	4830	102695460	4,535,202,020.00
44	935528	4820	102482840	4,637,684,860.00
45	956790	4810	102270220	4,739,955,080.00
46	978052	4800	102057600	4,842,012,680.00
47	999314	4790	101844980	4,943,857,660.00
48	1020576	4780	101632360	5,045,490,020.00
49	1041838	4770	101419740	5,146,909,760.00
50	1063100	4760	101207120	5,248,116,880.00
51	1084362	4750	100994500	5,349,111,380.00
52	1105624	4740	100781880	5,449,893,260.00
53	1126886	4730	100569260	5,550,462,520.00
54	1148148	4720	100356640	5,650,819,160.00
55	1169410	4710	100144020	5,750,963,180.00
56	1190672	4700	99931400	5,850,894,580.00
57	1211934	4690	99718780	5,950,613,360.00
58	1233196	4680	99506160	6,050,119,520.00
59	1254458	4670	99293540	6,149,413,060.00
60	1275720	4660	99080920	6,248,493,980.00
61	1296982	4650	98868300	6,347,362,280.00
62	1318244	4640	98655680	6,446,017,960.00
63	1339506	4630	98443060	6,544,461,020.00
64	1360768	4620	98230440	6,642,691,460.00
65	1382030	4610	98017820	6,740,709,280.00
66	1403292	4600	97805200	6,838,514,480.00
67	1424554	4590	97592580	6,936,107,060.00
68	1445816	4580	97379960	7,033,487,020.00
69	1467078	4570	97167340	7,130,654,360.00
70	1488340	4560	96954720	7,227,609,080.00
71	1509602	4550	96742100	7,324,351,180.00
72	1530864	4540	96529480	7,420,880,660.00
73	1552126	4530	96316860	7,517,197,520.00
74	1573388	4520	96104240	7,613,301,760.00
75	1594650	4510	95891620	7,709,193,380.00
76	1615912	4500	95679000	7,804,872,380.00
77	1637174	4490	95466380	7,900,338,760.00
78	1658436	4480	95253760	7,995,592,520.00
79	1679698	4470	95041140	8,090,633,660.00

80	1700960	4460	94828520	8,185,462,180.00
81	1722222	4450	94615900	8,280,078,080.00
82	1743484	4440	94403280	8,374,481,360.00
83	1764746	4430	94190660	8,468,672,020.00
84	1786008	4420	93978040	8,562,650,060.00
85	1807270	4410	93765420	8,656,415,480.00
86	1828532	4400	93552800	8,749,968,280.00
87	1849794	4390	93340180	8,843,308,460.00
88	1871056	4380	93127560	8,936,436,020.00
89	1892318	4370	92914940	9,029,350,960.00
90	1913580	4360	92702320	9,122,053,280.00
91	1934842	4350	92489700	9,214,542,980.00
92	1956104	4340	92277080	9,306,820,060.00
93	1977366	4330	92064460	9,398,884,520.00
94	1998628	4320	91851840	9,490,736,360.00
95	2019890	4310	91639220	9,582,375,580.00
96	2041152	4300	91426600	9,673,802,180.00
97	2062414	4290	91213980	9,765,016,160.00
98	2083676	4280	91001360	9,856,017,520.00
99	2104938	4270	90788740	9,946,806,260.00
100	2126200	4250	90363500	10,037,169,760.00
101	2147462	4230	89938260	10,127,108,020.00
102	2168724	4210	89513020	10,216,621,040.00
103	2189986	4190	89087780	10,305,708,820.00
104	2211248	4170	88662540	10,394,371,360.00
105	2232510	4150	88237300	10,482,608,660.00
106	2253772	4130	87812060	10,570,420,720.00
107	2275034	4110	87386820	10,657,807,540.00
108	2296296	4090	86961580	10,744,769,120.00
109	2317558	4070	86536340	10,831,305,460.00
110	2338820	4050	86111100	10,917,416,560.00
111	2360082	4030	85685860	11,003,102,420.00
112	2381344	4010	85260620	11,088,363,040.00
113	2402606	3990	84835380	11,173,198,420.00
114	2423868	3970	84410140	11,257,608,560.00
115	2445130	3950	83984900	11,341,593,460.00
116	2466392	3930	83559660	11,425,153,120.00
117	2487654	3910	83134420	11,508,287,540.00
118	2508916	3890	82709180	11,590,996,720.00
119	2530178	3870	82283940	11,673,280,660.00
120	2551440	3850	81858700	11,755,139,360.00
121	2572702	3830	81433460	11,836,572,820.00

122	2593964	3810	81008220	11,917,581,040.00
123	2615226	3790	80582980	11,998,164,020.00
124	2636488	3770	80157740	12,078,321,760.00
125	2657750	3750	79732500	12,158,054,260.00
126	2679012	3730	79307260	12,237,361,520.00
127	2700274	3710	78882020	12,316,243,540.00
128	2721536	3690	78456780	12,394,700,320.00
129	2742798	3670	78031540	12,472,731,860.00
130	2764060	3650	77606300	12,550,338,160.00
131	2785322	3630	77181060	12,627,519,220.00
132	2806584	3610	76755820	12,704,275,040.00
133	2827846	3590	76330580	12,780,605,620.00
134	2849108	3570	75905340	12,856,510,960.00
135	2870370	3550	75480100	12,931,991,060.00
136	2891632	3530	75054860	13,007,045,920.00
137	2912894	3510	74629620	13,081,675,540.00
138	2934156	3490	74204380	13,155,879,920.00
139	2955418	3470	73779140	13,229,659,060.00
140	2976680	3450	73353900	13,303,012,960.00
141	2997942	3430	72928660	13,375,941,620.00
142	3019204	3410	72503420	13,448,445,040.00
143	3040466	3390	72078180	13,520,523,220.00
144	3061728	3370	71652940	13,592,176,160.00
145	3082990	3350	71227700	13,663,403,860.00
146	3104252	3330	70802460	13,734,206,320.00
147	3125514	3310	70377220	13,804,583,540.00
148	3146776	3290	69951980	13,874,535,520.00
149	3168038	3270	69526740	13,944,062,260.00
150	3189300	3250	69101500	14,013,163,760.00
151	3210562	3230	68676260	14,081,840,020.00
152	3231824	3210	68251020	14,150,091,040.00
153	3253086	3190	67825780	14,217,916,820.00
154	3274348	3170	67400540	14,285,317,360.00
155	3295610	3150	66975300	14,352,292,660.00
156	3316872	3130	66550060	14,418,842,720.00
157	3338134	3110	66124820	14,484,967,540.00
158	3359396	3090	65699580	14,550,667,120.00
159	3380658	3070	65274340	14,615,941,460.00
160	3401920	3050	64849100	14,680,790,560.00
161	3423182	3030	64423860	14,745,214,420.00
162	3444444	3010	63998620	14,809,213,040.00
163	3465706	2990	63573380	14,872,786,420.00

164	3486968	2970	63148140	14,935,934,560.00
165	3508230	2950	62722900	14,998,657,460.00
166	3529492	2930	62297660	15,060,955,120.00
167	3550754	2910	61872420	15,122,827,540.00
168	3572016	2890	61447180	15,184,274,720.00
169	3593278	2870	61021940	15,245,296,660.00
170	3614540	2850	60596700	15,305,893,360.00
171	3635802	2830	60171460	15,366,064,820.00
172	3657064	2810	59746220	15,425,811,040.00
173	3678326	2790	59320980	15,485,132,020.00
174	3699588	2770	58895740	15,544,027,760.00
175	3720850	2750	58470500	15,602,498,260.00
176	3742112	2730	58045260	15,660,543,520.00
177	3763374	2710	57620020	15,718,163,540.00
178	3784636	2690	57194780	15,775,358,320.00
179	3805898	2670	56769540	15,832,127,860.00
180	3827160	2650	56344300	15,888,472,160.00
181	3848422	2630	55919060	15,944,391,220.00
182	3869684	2610	55493820	15,999,885,040.00
183	3890946	2590	55068580	16,054,953,620.00
184	3912208	2570	54643340	16,109,596,960.00
185	3933470	2550	54218100	16,163,815,060.00
186	3954732	2530	53792860	16,217,607,920.00
187	3975994	2510	53367620	16,270,975,540.00
188	3997256	2490	52942380	16,323,917,920.00
189	4018518	2470	52517140	16,376,435,060.00
190	4039780	2450	52091900	16,428,526,960.00
191	4061042	2430	51666660	16,480,193,620.00
192	4082304	2410	51241420	16,531,435,040.00
193	4103566	2390	50816180	16,582,251,220.00
194	4124828	2370	50390940	16,632,642,160.00
195	4146090	2350	49965700	16,682,607,860.00
196	4167352	2330	49540460	16,732,148,320.00
197	4188614	2310	49115220	16,781,263,540.00
198	4209876	2290	48689980	16,829,953,520.00
199	4231138	2270	48264740	16,878,218,260.00
200	4252400	2250	47839500	16,926,057,760.00
201	4273662	2230	47414260	16,973,472,020.00
202	4294924	2210	46989020	17,020,461,040.00
203	4316186	2190	46563780	17,067,024,820.00
204	4337448	2170	46138540	17,113,163,360.00
205	4358710	2150	45713300	17,158,876,660.00

206	4379972	2130	45288060	17,204,164,720.00
207	4401234	2110	44862820	17,249,027,540.00
208	4422496	2090	44437580	17,293,465,120.00
209	4443758	2070	44012340	17,337,477,460.00
210	4465020	2050	43587100	17,381,064,560.00
211	4486282	2030	43161860	17,424,226,420.00
212	4507544	2010	42736620	17,466,963,040.00
213	4528806	1990	42311380	17,509,274,420.00
214	4550068	1970	41886140	17,551,160,560.00
215	4571330	1950	41460900	17,592,621,460.00
216	4592592	1930	41035660	17,633,657,120.00
217	4613854	1910	40610420	17,674,267,540.00
218	4635116	1890	40185180	17,714,452,720.00
219	4656378	1870	39759940	17,754,212,660.00
220	4677640	1850	39334700	17,793,547,360.00
221	4698902	1830	38909460	17,832,456,820.00
222	4720164	1810	38484220	17,870,941,040.00
223	4741426	1790	38058980	17,909,000,020.00
224	4762688	1770	37633740	17,946,633,760.00
225	4783950	1750	37208500	17,983,842,260.00
226	4805212	1730	36783260	18,020,625,520.00
227	4826474	1710	36358020	18,056,983,540.00
228	4847736	1690	35932780	18,092,916,320.00
229	4868998	1670	35507540	18,128,423,860.00
230	4890260	1650	35082300	18,163,506,160.00
231	4911522	1630	34657060	18,198,163,220.00
232	4932784	1610	34231820	18,232,395,040.00
233	4954046	1590	33806580	18,266,201,620.00
234	4975308	1570	33381340	18,299,582,960.00
235	4996570	1550	32956100	18,332,539,060.00
236	5017832	1530	32530860	18,365,069,920.00
237	5039094	1510	32105620	18,397,175,540.00
238	5060356	1490	31680380	18,428,855,920.00
239	5081618	1470	31255140	18,460,111,060.00
240	5102880	1450	30829900	18,490,940,960.00
241	5124142	1430	30404660	18,521,345,620.00
242	5145404	1410	29979420	18,551,325,040.00
243	5166666	1390	29554180	18,580,879,220.00
244	5187928	1370	29128940	18,610,008,160.00
245	5209190	1350	28703700	18,638,711,860.00
246	5230452	1330	28278460	18,666,990,320.00
247	5251714	1310	27853220	18,694,843,540.00

248	5272976	1290	27427980	18,722,271,520.00
249	5294238	1280	27215360	18,749,486,880.00
250	5315500	1270	27002740	18,776,489,620.00
251	5336762	1260	26790120	18,803,279,740.00
252	5358024	1250	26577500	18,829,857,240.00
253	5379286	1240	26364880	18,856,222,120.00
254	5400548	1230	26152260	18,882,374,380.00
255	5421810	1220	25939640	18,908,314,020.00
256	5443072	1210	25727020	18,934,041,040.00
257	5464334	1200	25514400	18,959,555,440.00
258	5485596	1190	25301780	18,984,857,220.00
259	5506858	1180	25089160	19,009,946,380.00
260	5528120	1170	24876540	19,034,822,920.00
261	5549382	1160	24663920	19,059,486,840.00
262	5570644	1150	24451300	19,083,938,140.00
263	5591906	1140	24238680	19,108,176,820.00
264	5613168	1130	24026060	19,132,202,880.00
265	5634430	1120	23813440	19,156,016,320.00
266	5655692	1110	23600820	19,179,617,140.00
267	5676954	1100	23388200	19,203,005,340.00
268	5698216	1090	23175580	19,226,180,920.00
269	5719478	1080	22962960	19,249,143,880.00
270	5740740	1070	22750340	19,271,894,220.00
271	5762002	1060	22537720	19,294,431,940.00
272	5783264	1050	22325100	19,316,757,040.00
273	5804526	1040	22112480	19,338,869,520.00
274	5825788	1030	21899860	19,360,769,380.00
275	5847050	1020	21687240	19,382,456,620.00
276	5868312	1010	21474620	19,403,931,240.00
277	5889574	1000	21262000	19,425,193,240.00
278	5910836	990	21049380	19,446,242,620.00
279	5932098	980	20836760	19,467,079,380.00
280	5953360	970	20624140	19,487,703,520.00
281	5974622	960	20411520	19,508,115,040.00
282	5995884	950	20198900	19,528,313,940.00
283	6017146	940	19986280	19,548,300,220.00
284	6038408	930	19773660	19,568,073,880.00
285	6059670	920	19561040	19,587,634,920.00
286	6080932	910	19348420	19,606,983,340.00
287	6102194	900	19135800	19,626,119,140.00
288	6123456	890	18923180	19,645,042,320.00
289	6144718	880	18710560	19,663,752,880.00



290	6165980	870	18497940	19,682,250,820.00
291	6187242	860	18285320	19,700,536,140.00
292	6208504	850	18072700	19,718,608,840.00
293	6229766	840	17860080	19,736,468,920.00
294	6251028	830	17647460	19,754,116,380.00
295	6272290	820	17434840	19,771,551,220.00
296	6293552	810	17222220	19,788,773,440.00
297	6314814	800	17009600	19,805,783,040.00