

Newforms of weight two for $\Gamma_0(N)$ with rational coefficients

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The following table contains coefficients a_p for all primes $p \leq 97$ of weight two newforms with rational coefficients for $\Gamma_0(N)$ with $N \leq 3000$ (and for the levels $N = 3200$ and $N = 6400$). They have been computed with the help of W. Stein's package HECKE which is included in the MAGMA computer algebra system (<http://magma.maths.usyd.edu.au/>). W. Stein has set up a web page containing large tables (<http://modular.fas.harvard.edu/Tables>).

The first column of the table contains the levels and the last 25 columns contain the coefficients of the newforms for the first 25 primes.

level	2	3	5	7	11	13	17	19	23	29	31	37	41	43	47	53	59	61	67	71	73	79	83	89	97
11	-2	-1	1	-2	1	4	-2	0	-1	0	7	3	-8	-6	8	-6	5	12	-7	-3	4	-10	-6	15	-7
14	-1	-2	0	1	0	-4	6	2	0	-6	-4	2	6	8	-12	6	-6	8	-4	0	2	8	-6	-6	-10
15	-1	-1	1	0	-4	-2	2	4	0	-2	0	-10	10	4	8	-10	-4	-2	12	-8	10	0	12	-6	2
17	-1	0	-2	4	0	-2	1	-4	4	6	4	-2	-6	4	0	6	-12	-10	4	-4	-6	12	-4	10	2
19	0	-2	3	-1	3	-4	-3	1	0	6	-4	2	-6	-1	-3	12	-6	-1	-4	6	-7	8	12	12	8
20	0	-2	-1	2	0	2	-6	-4	6	6	-4	2	6	-10	-6	-6	12	2	2	-12	2	8	6	-6	2
21	-1	1	-2	-1	4	-2	-6	4	0	-2	0	6	2	-4	0	6	12	-2	4	0	-6	-16	-12	-14	18
24	0	-1	-2	0	4	-2	2	-4	-8	6	8	6	-6	4	0	-2	4	-2	-4	8	10	-8	-4	-6	2
26	-1	1	-3	-1	6	1	-3	2	0	6	-4	-7	0	-1	3	0	-6	8	14	-3	2	8	12	-6	-10
26	1	-3	-1	1	-2	-1	-3	6	-4	2	4	3	0	-5	13	12	-10	-8	-2	-5	-10	-4	0	6	14
27	0	0	0	-1	0	5	0	-7	0	0	-4	11	0	8	0	0	0	-1	5	0	-7	17	0	0	-19
30	-1	1	-1	-4	0	2	6	-4	0	-6	8	2	-6	-4	0	-6	0	-10	-4	0	2	8	12	18	2
32	0	0	-2	0	0	6	2	0	0	-10	0	-2	10	0	0	14	0	-10	0	0	-6	0	0	10	18
33	1	-1	-2	4	1	-2	-2	0	8	-6	-8	6	-2	0	8	6	-4	6	-4	0	-14	-4	12	-6	2
34	1	-2	0	-4	6	2	-1	-4	0	0	-4	-4	6	8	0	-6	0	-4	8	0	2	8	0	-6	14
35	0	1	-1	1	-3	5	3	2	-6	3	-4	2	-12	-10	9	12	0	8	-4	0	2	-1	12	-12	-1
36	0	0	0	-4	0	2	0	8	0	0	-4	-10	0	8	0	0	0	14	-16	0	-10	-4	0	0	14
37	-2	-3	-2	-1	-5	-2	0	0	2	6	-4	-1	-9	2	-9	1	8	-8	8	9	-1	4	-15	4	4
37	0	1	0	-1	3	-4	6	2	6	-6	-4	1	-9	8	3	-3	12	8	-4	-15	11	-10	9	6	8
38	-1	1	0	-1	-6	5	3	1	3	9	-4	2	0	8	0	-3	9	-10	5	-6	-7	-10	-6	-12	-10
38	1	-1	-4	3	2	-1	3	-1	-1	-5	-8	-2	-8	4	8	-1	15	2	3	2	9	-10	-6	0	-2
39	1	-1	2	-4	4	1	2	0	0	-10	4	-2	6	-12	0	6	12	-2	-8	0	2	8	4	-2	10
40	0	0	1	-4	4	-2	2	4	4	-2	-8	6	-6	-8	4	6	-4	-2	8	0	-6	0	-16	-6	-14
42	1	-1	-2	-1	-4	6	2	-4	8	-2	0	-10	-6	-4	0	6	4	6	4	8	10	0	-4	-6	-14
43	-2	-2	-4	0	3	-5	-3	-2	-1	-6	-1	0	5	-1	4	-5	-12	2	-3	2	2	-8	15	-4	7
44	0	1	-3	2	-1	-4	6	8	-3	0	5	-1	0	-10	0	-6	3	-4	-1	15	-4	2	6	-9	-7
45	1	0	-1	0	4	-2	-2	4	0	2	0	-10	-10	4	-8	10	4	-2	12	8	10	0	-12	6	2
46	-1	0	4	-4	2	-2	-2	-2	1	2	0	-4	6	10	0	-4	12	-8	-10	0	6	-12	14	-6	6
48	0	1	-2	0	-4	-2	2	4	8	6	-8	6	-6	-4	0	-2	-4	-2	4	-8	10	8	4	-6	2
49	1	0	0	0	4	0	0	0	8	2	0	-6	0	-12	0	-10	0	0	4	16	0	8	0	0	0
50	-1	1	0	2	-3	-4	-3	5	6	0	2	2	-3	-4	12	6	0	2	-13	12	11	-10	-9	15	2
50	1	-1	0	-2	-3	4	3	5	-6	0	2	-2	-3	4	-12	-6	0	2	13	12	-11	-10	9	15	-2
51	0	1	3	-4	-3	-1	-1	-1	9	6	2	-4	-3	-7	-6	-6	6	8	-4	12	2	-10	-6	0	-16
52	0	0	2	-2	-2	-1	6	-6	8	2	10	-6	-6	4	-2	6	-10	-2	10	10	2	-4	-6	-6	2
53	-1	-3	0	-4	0	-3	-3	-5	7	-7	4	5	6	-2	-2	-1	-2	-8	-12	1	-4	-1	-1	-14	1
54	-1	0	3	-1	-3	-4	0	2	-6	6	5	2	-6	-10	6	9	12	8	14	0	-7	8	-3	-18	-1
54	1	0	-3	-1	3	-4	0	2	6	-6	5	2	6	-10	-6	-9	-12	8	14	0	-7	8	3	18	-1
55	1	0	1	0	-1	2	6	-4	4	6	-8	-2	2	4	-12	-2	4	-10	-16	8	14	8	-4	10	10
56	0	2	-4	1	0	0	-2	-2	8	2	4	-6	-2	8	-4	-10	6	4	-12	0	-14	-8	6	10	-2
56	0	0	2	-1	-4	2	-6	8	0	6	8	-2	2	-4	-8	6	0	-6	-4	-8	10	16	8	-6	-6
57	-2	-1	-3	-5	1	2	-1	-1	-4	-2	-6	0	0	-1	-9	10	-8	-1	8	-12	-11	16	12	-6	-10
57	1	1	-2	0	0	6	-6	-1	4	2	8	-10	-2	-4	12	-6	-12	-2	-4	0	10	0	16	-2	10
57	-2	1	1	3	-3	-6	3	-1	4	-10	2	8	-8	-1	3	-6	0	7	8	12	-11	0	4	10	-2
58	-1	-3	-3	-2	-1	3	-4	-8	0	-1	3	-8	-2	7	11	1	-4	4	-4	-2	-12	-7	0	-6	-6
58	1	-1	1	-2	-3	-1	8	0	4	-1	-3	8	2	-11	13	-11	0	-8	-12	2	4	15	4	-10	-2
61	-1	-2	-3	1	-5	1	4	-4	-9	-6	0	8	5	-8	4	6	9	-1	-7	-8	-11	3	4	-4	-14
62	1	0	-2	0	0	2	-6	4	8	2	-1	10	-6	8	-8	-6	-12	-6	-12	8	10	-8	8	-6	2
63	1	0	2	-1	-4	-2	6	4	0	2	0	6	-2	-4	0	-6	-12	-2	4	0	-6	-16	12	14	18
64	0	0	2	0	0	-6	2	0	0	10	0	2	10	0	0	-14	0	10	0	0	-6	0	0	10	18
65	-1	-2	-1	-4	2	-1	2	-6	-6	2	-10	-2	-6	10	4	2	6	2	-4	6	-6	-12	-16	2	-2
66	-1	1	0	2	-1	-4	-6	-4	6	6	8	-10	6	8	-6	0	0	8	-4	6	2	14	-12	-6	14

level	2	3	5	7	11	13	17	19	23	29	31	37	41	43	47	53	59	61	67	71	73	79	83	89	97
66	1	-1	2	-4	-1	-6	2	4	4	6	0	6	-6	4	-12	2	12	-14	4	-12	-6	-4	4	10	-14
66	1	1	-4	-2	1	4	-2	0	-6	10	-8	-2	2	4	-2	4	0	-8	-12	2	-6	10	4	10	-2
67	2	-2	2	-2	-4	2	3	7	9	-5	-10	-1	0	-2	-1	10	9	-2	1	0	-7	-8	4	7	0
69	1	1	0	-2	4	-6	4	2	-1	2	4	2	2	10	0	-12	-12	-6	-10	8	-14	10	12	-16	-10
70	1	0	-1	-1	4	-6	2	0	0	6	8	-10	2	4	8	-2	-8	-14	-12	-16	2	-8	8	10	2
72	0	0	2	0	-4	-2	-2	-4	8	-6	8	6	6	4	0	2	-4	-2	-4	-8	10	-8	4	6	2
73	1	0	2	2	-2	-6	2	8	4	2	-2	-6	6	-2	6	10	-6	-14	8	0	1	-4	-14	-6	-10
75	2	-1	0	-3	2	1	2	-5	6	10	-3	2	-8	1	2	-4	-10	7	-3	-8	-14	0	6	0	17
75	1	1	0	0	-4	2	-2	4	0	-2	0	10	10	-4	-8	10	-4	-2	-12	-8	-10	0	-12	-6	-2
75	-2	1	0	3	2	-1	-2	-5	-6	10	-3	-2	-8	-1	-2	4	-10	7	3	-8	14	0	-6	0	-17
76	0	2	-1	-3	5	-4	-3	-1	8	-2	4	10	10	1	-1	-4	6	-13	-12	2	9	8	-12	12	-8
77	0	-3	-1	-1	-1	-4	2	-6	-5	10	1	-5	-2	-8	8	-6	3	-2	-3	1	10	6	12	-15	-5
77	1	2	-2	-1	1	4	4	0	-4	-6	10	-6	4	12	-10	-6	2	0	8	-12	-8	8	0	-6	-10
77	0	1	3	1	-1	-4	-6	2	3	-6	5	11	6	8	0	-6	-9	-10	5	9	2	-10	12	-3	-1
78	-1	-1	2	4	-4	1	2	-8	0	6	-4	-2	-10	4	8	-10	4	-2	-16	-8	2	8	12	14	10
79	-1	-1	-3	-1	-2	3	-6	4	2	-6	-10	-2	-10	4	7	8	-3	-4	8	15	2	-1	-6	-7	-19
80	0	0	1	4	-4	-2	2	-4	-4	-2	8	6	-6	8	-4	6	4	-2	-8	0	-6	0	16	-6	-14
80	0	2	-1	-2	0	2	-6	4	-6	6	4	2	6	10	6	-6	-12	2	-2	12	2	-8	-6	-6	2
82	-1	-2	-2	-4	-2	4	-2	6	-8	0	-8	2	-1	-12	4	-4	8	-14	-2	8	10	4	12	-14	6
83	-1	-1	-2	-3	3	-6	5	2	-4	-7	5	-11	-2	-8	0	6	5	5	-2	2	0	14	-1	0	-8
84	0	-1	4	-1	2	-6	-4	-4	2	-2	0	2	0	-4	12	-6	-8	6	-8	14	-2	12	-4	0	-2
84	0	1	0	1	-6	2	0	-4	-6	6	8	2	12	-4	12	-6	0	-10	8	6	-10	-4	-12	12	-10
85	1	2	0	-2	2	2	1	0	6	-6	-10	2	10	4	12	-10	8	-14	8	-2	-14	-14	4	6	2
88	0	-3	-3	-2	-1	0	-6	4	1	-8	-7	-1	4	6	-8	2	-1	4	-5	3	16	2	-2	15	-7
89	-1	-1	-1	-4	-2	2	3	-5	7	0	-9	-2	0	-7	-12	-3	4	6	12	-10	7	-6	12	-1	9
89	1	2	-2	2	-4	2	6	-2	2	-6	6	10	-6	2	12	-6	-10	-6	12	4	10	-12	-6	1	-18
90	-1	0	1	2	6	-4	-6	-4	0	-6	-4	8	0	8	0	-6	6	2	-4	-12	-10	-4	12	12	2
90	1	0	-1	2	-6	-4	6	-4	0	6	-4	8	0	8	0	6	-6	2	-4	12	-10	-4	-12	-12	2
90	1	0	1	-4	0	2	-6	-4	0	6	8	2	6	-4	0	6	0	-10	-4	0	2	8	-12	-18	2
91	-2	0	-3	-1	-6	-1	4	5	3	-5	-3	-4	-6	-1	7	-9	8	-10	-6	-8	-13	3	15	3	7
91	0	-2	-3	1	0	1	-6	-7	3	-9	5	2	-6	-1	3	-9	0	-10	14	-6	11	-1	3	15	-1
92	0	1	0	2	0	-1	-6	2	-1	-3	5	8	3	8	9	6	-12	14	8	-15	-7	-10	6	0	-10
92	0	-3	-2	-4	2	-5	4	-2	1	-7	-3	2	-9	-8	9	2	0	-2	14	-3	-3	-6	8	12	0
94	1	0	0	0	2	-4	-2	-2	4	4	4	2	6	6	-1	2	12	2	2	8	-14	-16	-16	-10	-14
96	0	1	2	-4	4	-2	-6	-4	0	2	4	-2	2	4	8	10	-4	6	4	-16	-6	4	12	10	-14
96	0	-1	2	4	-4	-2	-6	4	0	2	-4	-2	2	-4	-8	10	4	6	-4	16	-6	-4	-12	10	-14
98	-1	2	0	0	0	4	-6	-2	0	-6	4	2	-6	8	12	6	6	-8	-4	0	-2	8	6	6	10
99	-1	0	-4	-2	-1	-2	2	-6	4	-6	4	-6	-10	6	-8	0	4	-6	8	0	-2	-10	12	0	2
99	1	0	4	-2	1	-2	-2	-6	-4	6	4	-6	10	6	8	0	-4	-6	8	0	-2	-10	-12	0	2
99	-1	0	2	4	-1	-2	2	0	-8	6	-8	6	2	0	-8	-6	4	6	-4	0	-14	-4	-12	6	2
99	2	0	-1	-2	-1	4	2	0	1	0	7	3	8	-6	-8	6	-5	12	-7	3	4	-10	6	-15	-7
100	0	2	0	-2	0	-2	6	-4	-6	6	-4	-2	6	10	6	6	12	2	-2	-12	-2	8	-6	-6	-2
101	0	-2	-1	-2	-2	1	3	-5	1	-4	-9	-2	8	-8	7	-2	-14	4	2	13	8	-9	-4	14	2
102	-1	-1	-4	-2	0	-6	-1	4	6	-4	-6	-4	-10	-4	4	-2	12	-4	-12	-6	2	10	-12	-2	6
102	-1	1	0	2	0	2	-1	-4	-6	0	-10	8	6	-4	12	6	-12	8	-4	6	2	-10	12	-18	14
102	1	1	-2	0	-4	-2	1	4	0	-10	8	-2	10	12	0	6	12	-10	-12	0	10	-8	4	-6	-14
104	0	1	-1	5	-2	-1	-3	-2	4	-6	-4	11	8	-1	9	-12	6	0	6	7	-2	12	-16	-10	-10
105	1	1	1	1	0	-6	2	-8	8	-2	4	-2	-6	4	8	10	4	-2	4	-12	-2	8	-4	-6	-18
106	-1	-1	-4	0	-4	1	5	-7	1	5	-4	1	-10	-10	-6	-1	-6	4	4	15	-8	1	-3	2	17
106	-1	2	1	-2	5	-4	3	-4	-3	-6	7	-6	2	7	4	1	7	2	16	12	-12	-7	-14	17	3
106	1	1	0	-4	0	5	-3	-1	3	9	-4	5	6	-10	6	-1	6	8	-4	-3	-4	-13	3	18	-7
106	1	-2	3	2	-3	-4	3	-4	-9	6	5	-10	6	-1	0	-1	15	-10	-4	12	8	11	-6	9	-13

level	2	3	5	7	11	13	17	19	23	29	31	37	41	43	47	53	59	61	67	71	73	79	83	89	97
108	0	0	0	5	0	-7	0	-1	0	0	-4	-1	0	8	0	0	0	-13	11	0	17	-13	0	0	5
109	1	0	3	2	1	0	-8	-5	7	-5	6	2	2	-4	9	12	12	-5	-12	-6	-5	8	-2	1	1
110	-1	1	-1	5	1	2	3	-7	-6	-3	-7	-7	6	8	6	-3	-6	-1	8	3	2	-10	-6	9	-4
110	1	1	-1	-1	-1	2	-3	-1	6	-9	5	5	-6	8	6	9	6	5	8	-9	-10	14	-6	-15	8
110	1	-1	1	3	1	-6	-7	5	-6	5	-3	3	2	4	-2	-1	-10	7	8	7	14	10	-6	-15	-12
112	0	-2	-4	-1	0	0	-2	2	-8	2	-4	-6	-2	-8	4	-10	-6	4	12	0	-14	8	-6	10	-2
112	0	0	2	1	4	2	-6	-8	0	6	-8	-2	2	4	8	6	0	-6	4	8	10	-16	-8	-6	-6
112	0	2	0	-1	0	-4	6	-2	0	-6	4	2	6	-8	12	6	6	8	4	0	2	-8	6	-6	-10
113	-1	2	2	0	0	2	-6	6	-6	-6	-4	2	-2	6	6	10	6	6	2	-6	2	10	-4	-14	-14
114	-1	-1	0	4	4	0	-2	1	-2	-6	6	-8	10	-12	10	2	4	-10	0	-16	-2	10	-16	-2	-10
114	1	-1	2	0	-4	2	-6	-1	-4	-2	4	10	10	4	-4	-10	12	14	-12	8	-6	-4	12	-6	10
114	1	1	0	-4	0	-4	6	1	-6	6	2	-4	6	-4	6	6	-12	14	8	0	14	-10	-12	-6	-10
115	2	0	-1	1	2	-2	3	-2	1	7	-5	11	1	0	0	11	-13	-8	5	5	6	-12	9	4	-14
116	0	1	3	-4	3	5	-6	-4	-6	-1	5	8	0	-1	-3	3	6	2	8	6	-16	11	6	-12	8
116	0	2	-2	4	-6	2	2	-6	4	-1	-6	2	2	10	-2	10	0	10	-12	8	10	-6	16	2	10
116	0	-3	3	4	-1	-3	2	4	-6	-1	9	-8	-8	-5	-7	-5	-10	10	8	-2	0	-1	6	12	0
117	-1	0	-2	-4	-4	1	-2	0	0	10	4	-2	-6	-12	0	-6	-12	-2	-8	0	2	8	-4	2	10
118	-1	-1	-3	-1	-2	-2	-2	3	0	-1	10	-12	7	-6	-6	-11	-1	-12	10	4	12	-15	-14	4	0
118	-1	2	2	-3	1	3	-1	-8	8	-4	-4	-1	5	-9	2	12	1	10	4	-15	10	11	-11	-6	14
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level	2	3	5	7	11	13	17	19	23	29	31	37	41	43	47	53	59	61	67	71	73	79	83	89	97
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level	2	3	5	7	11	13	17	19	23	29	31	37	41	43	47	53	59	61	67	71	73	79	83	89	97
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2403	-1	0	2	2	-2	2	0	-8	-5	-6	-6	-8	9	8	6	-6	7	-12	3	-4	-11	-15	12	-1	15
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