

附	表
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附表1 2011年11月, 2013年4月, 2013年11月, 2014年11月における宮ノ森スギ人工林調査区内のスギ(CJ)及びヒノキ(CO)の胸高直径. 胸高直径5 cm以上の個体を対象とした. Thinning列のC, Tはそれぞれ対照区(未間伐), 間伐区, Fence列のI, Oはそれぞれ防鹿柵内, 防鹿柵外を表す.

Supplementary table 1 DBH of *Cryptomeria japonica* (CJ) and *Chamaecyparis obtusa* (CO) in cedar plantation Miyanomori in November 2011, April 2013, November 2013, and November 2014. C and T in row "Thinning" denote control and thinning area, respectively. I and O in row "Fence" denote inside and outside fenced area.

No	Species	Nov.2011	Apr.2013	Nov.2013	Nov.2014	Thinning	Fence	Comments
1	CO	28.9	29.3	30.2	31.1	T	O	
2	CO	19.8				T	O	
3	CO	17.7	18.3	19	19.4	T	O	
4	CO	19.1	19.7	20.3	20.9	T	O	
5	CO	21.3				T	O	
6	CO	20.5	21.2	21.7	22.3	T	O	
7	CO	16	16.1	16.4	16.3	T	O	
8	CO	23.6	24.1	25	26	T	O	
9	CO	22.9	22.6	23	23.5	T	O	
10	CO	19.4				T	O	
11	CO	20				T	O	
12	CO	21.4	22	22.5	23.1	T	O	
13	CO	15.2	15.4	15.7	15.9	T	O	
14	CO	9.6	9.4	9.5	9.4	T	O	
15	CO	13.8	14	14.2	14.5	T	O	
16	CO	13.1	13.2	13.3	13.4	T	O	
17	CO	17				T	O	
18	CO	27.7	27.9	28	28.2	T	O	
19	CO	16.6	16.9	17.3	17.5	T	O	
20	CO	9.5				T	O	
21	CO	15.5				T	O	
22	CO	26.9	27.6	28.3	29.1	T	O	
23	CO	24.8	25.8	26.5	27.3	T	O	
24	CO	24.1	25	25.6	26.5	T	O	
25	CO	20.8	20.9	21.2	21.3	T	O	
26	CO	22	22.6	23	23.6	T	O	
27	CJ	11.8				T	O	
28	CJ	12.3	12.6	12.7	13	T	O	
29	CO	26.8	27.7	28.2	28.9	T	O	
30	CJ	15.5	15.9	16.3	16.9	T	O	
31	CJ	15				T	O	
32	CJ	19				T	O	
33	CJ	24.2	25.1	26.3	25.5	T	O	*1, † 1
34	CJ	20.7	21.1	21.8	22.5	T	O	
35	CJ	25.8				T	O	
36	CJ	19.4				T	O	
37	CJ	18.1				T	O	
38	CO	15.9	16.1	16.5	16.6	T	O	
39	CO	16.1	16.1	16.1	16.3	T	O	
40	CO	17.2	17.4	17.5	17.7	T	O	
41	CO	13.7	13.6	13.6	13.6	T	O	
42	CJ	16.6	16.8	17	17.1	T	O	
43	CO	14.1	14.4	14.5	14.6	T	O	
44	CO	16.9				T	O	

45	CO	27.9	28.5	29	29.8	T	O
46	CO	10	10	10	10	T	O
47	CO	27.3	27.8	28.1	28.8	T	O
48	CO	16.2	16.5	16.9	17.1	T	O
49	CJ	15	15.4	15.7	16	T	O
50	CO	5.8	5.9	5.9	5.9	T	O
51	CO	11.3	11.7	11.8	12	T	O
52	CO	12.2	12.5	12.7	12.9	T	O
53	CO	24	24.8	25.3	26	T	O
54	CO	20.6	21.2	21.2	21.5	T	O
55	CJ	11.3	11.4	11.5	11.6	T	O
56	CO	12.8				T	O
57	CJ	16.2	16.7	16.9	17.6	T	O
58	CJ	9				T	O
59	CJ	11.2				T	O
60	CJ	10.6				T	O
61	CJ	14.1				T	O
62	CJ	15.8				T	O
63	CO	21				T	O
64	CJ	19	19.5	20.1	20.7	T	O
65	CJ	15.2	15.6	16	16.5	T	O
66	CJ	19.5	20	20.3	20.9	T	O
67	CO	13.6				T	O
68	CO	15	15.2	15.5	15.7	T	O
69	CO	21.6	22.5	22.9	23.5	T	O
70	CO	22.5				T	O
71	CO	16				T	O
72	CO	16.6				T	O
73	CO	16				T	O
74	CO	18				T	O
75	CO	19.6	20.3	20.7	20.9	T	O
76	CJ	13.1	13.3	13.9	14.3	T	O
77	CJ	27.9				T	O
78	CJ	35				T	O
79	CO	16.1				T	O
80	CO	21.5				T	O
81	CJ	38				T	O
82	CJ	22	22.5	23.3	24.1	T	O
83	CJ	17.5	18.4	19.3	19.8	T	O
84	CJ	14.6				T	O
85	CJ	28.3	29.6	30.5	31.5	T	O
86	CJ	11.3				T	O
87	CJ	27				T	O
88	CJ	15.5	16	16.6	17.3	T	O
89	CJ	13				T	O
90	CJ	10				T	O
91	CJ	15	15.4	15.8	16.2	T	O
92	CJ	13.2				T	O
93	CJ	21.1	22	22.5	23.3	T	O
94	CO	22.7	23.5	23.9	24.3	T	O
95	CO	24.6	25.2	25.8	26.2	T	O
96	CO	18.8				T	O
97	CJ	33.2				T	O
98	CJ	25.2	26.3	27.2	28.3	T	O
99	CJ	24	24.9	25.5	26	T	O

100	CJ	22.2	22.8	23.6	23.9	T	O	
101	CJ	27.9	28.7	29.6	30	T	O	
102	CJ	22	22.5	23	23.5	T	O	
103	CJ	25.5	26.4	27.1	27.6	T	O	
104	CJ	24.1				T	O	
105	CJ	16.6	17.5	18.1	18.8	T	O	
106	CJ	20.9				T	O	
107	CJ	29.1				T	O	
108	CJ	18.5	19.7	21	22.6	T	O	† 1
109	CJ	20.7				T	O	
110	CJ	30.2	31.8	33.3	35.4	T	O	
111	CJ	18.2				T	O	
112	CJ	22.5				T	O	
113	CJ	16.5				T	O	
114	CJ	21				T	O	
115	CO	23.2	23.4	24	24.5	T	O	
116	CJ	16				T	O	
117	CO	19.1	19.7	20.2	20.7	T	O	† 1
118	CJ	15.7				T	O	
119	CO	22.9				T	O	
120	CJ	36.7	37.9	39	40	T	O	
121	CO	23.7	24	24.3	24.9	T	O	
122	CO	25.3				T	O	
123	CO	25.4				T	O	
124	CO	22.6				T	O	
125	CO	18.2	18.5	18.8	19	T	O	
126	CO	19.9	20.5	21.1	21.5	T	O	
127	CO	11.8	12.1	12.4	12.9	T	O	
128	CO	17.4	17.5	17.7	18	T	O	
129	CO	14.4	14.4	14.4	14.3	T	O	
130	CO	14.8	15.3	15.7	15.8	T	O	
131	CO	13.2	13.3	13.5	13.5	T	O	
132	CJ	35.5	36.4	37.2	37.7	T	O	
133	CO	12.9	13	13.4	13.6	T	O	
134	CO	8.7	8.9	9.4	9.6	T	O	
135	CO	11.5	11.2	11.3	11.3	T	O	
136	CO	26.1	26.6	27.3	27.7	T	O	
137	CO	22.6	23.2	23.7	24.1	T	O	
138	CJ	17.9	18.3	18.6	18.7	T	O	
139	CJ	33	33.2	33.3	33.5	T	O	
140	CO	12.3	12.5	12.6	12.5	T	O	
141	CO	15.6	15.9	16.1	16.1	T	O	
142	CJ	10.8	10.8	11	10.8	T	O	
143	CO	24.2	24.6	24.8	25.1	T	O	
144	CJ	10				T	O	
145	CO	18.9	19.1	19.1	19.1	T	O	
146	CO	23.7				T	O	
147	CO	10.1				T	O	
148	CO	16.2				T	O	
149	CO	16.8				T	O	
150	CO	22.5				T	O	
151	CO	17.2	17.4	17.5	17.7	T	O	
152	CO	9.7	9.7	9.7	9.6	T	O	
153	CO	19.2	19.3	19.5	19.5	T	O	
154	CO	18.1	18.3	18.4	18.4	T	O	

155	CO	23.1	23.5	23.6	23.7	T	O
156	CO	23.3	23.7	23.9	24.2	T	O
157	CO	15.4	15.7	15.7	15.5	T	O
158	CO	18.6	18.8	19	19.1	T	O
159	CO	12.1	12.1	12.1	11.9	T	O
160	CO	19.2	19.5	19.7	19.9	T	O
161	CJ	26.4				T	O
162	CJ	24	24.9	26	27	T	O
163	CJ	32.1	33	34.6	37.1	T	O
164	CJ	20.9				T	O
165	CJ	20.6				T	O
166	CJ	21.3				T	O
167	CJ	18.6				T	O
168	CJ	18.4				T	O
169	CJ	31.1				T	O
170	CO	23.1	23.4	23.5	23.8	T	O
171	CJ	17	17.4	17.9	18.8	T	O
172	CO	24.9	25	25.2	25.6	T	O
173	CO	22				T	O
174	CJ	32.9				T	O
175	CO	21.7	21.9	22.2	23	T	O
176	CJ	24.2				T	O
177	CJ	23.3				T	O
178	CJ	25.2	25.9	26.7	27.6	T	O
179	CJ	12.8	12.6	12.6		T	O
180	CJ	30.2	31.5	33	34	T	O
181	CJ	30.5				T	O
182	CJ	23.7	24.4	25	25.6	T	O
183	CJ	24.5				T	O
184	CJ	24				T	O
185	CJ	17.5	18.1	17.5	19.9	T	O
186	CJ	18	18.5	19.3	19.9	T	O
187	CJ	12.6	12.9	13.3	13.3	T	O
188	CJ	17.9				T	O
189	CJ	26.7				T	O
190	CO	29.7	29.8	30.3	30.5	T	O
191	CO	25.2	25.6	25.8	26.5	T	O
192	CJ	9.7	9.7	9.7	9.5	T	O
193	CJ	16.5				T	O
194	CO	21.2	21.5	22.2	22.5	T	O
195	CJ	11	11.1	11.4	11.3	T	O
196	CJ	9				T	O
197	CJ	24.1	25	26	27.3	T	O
198	CJ	9				T	O
199	CJ	8.9				T	O
200	CJ	22.2				T	O
201	CJ	13.4	13.4	13.4	13.6	T	O
202	CJ	18.4				T	O
203	CJ	11.9				T	O
204	CJ	18.8				T	O
205	CJ	15.6	16	16	15.8	T	O
206	CJ	23.1	24.5	25.5	26.5	T	O
207	CJ	18.1				T	O
208	CJ	14.5				T	O
209	CJ	15.9	16.1	16.6	16.89	T	O

210	CJ	19.2				T	O
211	CJ	12.6	12.8	13	13.2	T	O
212	CJ	30.5	31.2	32.2	32.5	T	O
213	CJ	11.6				T	O
214	CJ	24.4				T	O
215	CJ	9.3				T	O
216	CJ	23.1				T	O
217	CJ	31.1	32	33.1	33.7	T	O
218	CJ	25.5	26.3	26.8	27.3	T	O
219	CJ	25.2				T	O
220	CO	20.2				T	O
221	CJ	44.1	45.2	46.5	48.1	T	O
222	CO	21.2	21.4	21.8	22	T	O
223	CO	14.6	14.9	15.3	15.7	T	O
224	CO	20.9	21.4	22	22	T	O
225	CJ	21.8				T	O
226	CO	12.7	12.8	13	13.3	T	O
227	CJ	18.4	18.9	19.5	20	T	O
228	CJ	21.5	22.1	22.3	22.7	T	O
229	CJ	18.1	18.6	18.8	19.3	T	O
230	CJ	7.9	7.9	7.9	7.9	T	O
231	CO	14	14.2	14.2	14.4	T	O
232	CO	18.7	19	19.2	19.9	T	O
233	CJ	27.3				T	O
234	CJ	20.9	21.5	22	22.7	T	O
235	CJ	11.8	11.9	12	12.1	T	O
236	CO	10.9	11.1	11.1	11	T	O
237	CO	28.1	28.1	29.1	29.5	T	O
238	CO	10.4				T	O
239	CJ	7.4				T	O
240	CJ	10.2	9.9	9.9	9.9	T	O
241	CJ	12.6	12.8	12.8	12.9	T	O
242	CO	20.6	20.9	21.3	21.5	T	O
243	CJ	11.2	11.2	11.2	11.4	T	O
244	CO	20.8	21	21.2	21.4	T	O
245	CO	17.5	18	18.2	18.3	T	O
246	CO	13.3	13.4	13.5	13.6	T	O
247	CJ	10.2	10.2	10.2	10.4	T	O
248	CO	19.9				T	O
249	CO	17.7				T	O
250	CO	7.7				T	O
251	CO	15.1				T	O
252	CJ	17.6				T	O
253	CO	16.2	16.5	16.7	17	T	O
254	CO	12.9	12.7	12.7	13	T	O
255	CO	22				T	O
256	CO	14.3	14.5	14.5	14.5	T	O
257	CO	17.5	17.7	18.2	18.3	T	O
258	CO	17.9				T	O
259	CO	19.2				T	O
260	CO	16.4	16.4	16.6	16.9	T	O
261	CO	16.2				T	O
262	CO	16	16.3	16.6	16.9	T	O
263	CO	9.4				T	O
264	CO	12.5				T	O

265	CO	11.8				T	O
266	CO	13.4				T	O
267	CO	22.1				T	O
268	CJ	26.3				T	O
269	CO	16.1				T	O
270	CJ	13.3				T	O
271	CJ	20.4				T	O
272	CJ	10.5				T	O
273	CJ	7.9				T	O
274	CJ	11.3				T	O
275	CJ	17.6				T	O
276	CJ	23.5				T	O
277	CJ	12.6				T	O
278	CJ	26				T	O
279	CJ	28.6	29.1			T	O
280	CJ	15.2				T	O
281	CJ	11.5				T	O
282	CJ	13.9				T	O
283	CJ	10.8				T	O
284	CJ	21.3				T	O
285	CJ	16.8				T	O
286	CJ	16				T	O
287	CJ	22.4				T	O
288	CJ	21.2				T	O
289	CJ	27.3	28.2	29.9	30.8	T	O
290	CJ	30.8	31.3	31.9	32.5	T	O
291	CJ	17.4				T	O
292	CJ	18.5				T	O
293	CJ	25.5				T	O
294	CJ	27	27.9	28.8	29.5	T	O
295	CJ	12.4	12.5	13	13.3	T	O
296	CJ	25.4				T	O
297	CJ	25.9				T	O
298	CJ	22.6	23.4	24	24.7	T	O
299	CJ	16.4				T	O
300	CJ	23.1	23.7	24.5	25	T	O
301	CJ	24.5				T	O
302	CJ	33.5				T	O
303	CJ	23.1	23.5	23.9	24	T	O
304	CJ	25.8	26.8	27.9	29.5	T	O
305	CJ	27.8				T	O
306	CJ	16.5	17.1	18	18.4	T	O
307	CJ	15.2				T	O
308	CJ	17.5				T	O
309	CJ	19.9	21	21.9	22.5	T	O
310	CJ	24.3				T	O
311	CO	19.2	20.2	20.9	21.8	T	O
312	CJ	7.6	7.6	7.8	7.8	T	O
313	CJ	16.6	17.1	17.5	18.3	T	O
314	CO	23.7	24.3	24.6	25.1	T	O
315	CO	25.9	26.9	27.9	27.9	T	O
316	CJ	16.2	17.1	17.7	18.1	T	O
317	CJ	10.1	10.1	10.2	10.1	T	O
318	CJ	11.8	11.9	11.9	11.9	T	O
319	CO	27.1	27.3	27.9	28.7	T	O

320	CJ	15				T	O
321	CJ	18.4	19.2	20	20.9	T	O
322	CJ	21.3				T	O
323	CJ	9.5	9.9	9.9	10	T	O
324	CJ	20.9				T	O
325	CJ	20.2	21.4	22.4	23.1	T	O
326	CJ	18.6	19.2	20	20.8	T	O
327	CJ	30.8	32.3	34.4	36	T	O
328	CJ	14.3	14.7	14.9	15	T	O
329	CJ	28.8				T	O
330	CJ	16.7	17.4	18	18.7	T	O
331	CJ	28.8	30.6	31.7	32.7	T	O
332	CJ	19.5				T	O
333	CJ	28.3				T	O
334	CJ	17				T	O
335	CJ	12.2	12.5	12.7	13	T	O
336	CJ	24.7	25.4	27.1	27.8	T	O
337	CJ	16.7				T	O
338	CJ	21.3				T	O
339	CJ	22.7				T	O
340	CJ	28.5				T	O
341	CJ	27.5				T	O
342	CJ	11.4				T	O
343	CJ	28.1				T	O
344	CJ	12.9	13.1	13.7	13.9	T	O
345	CJ	12.5	12.5	12.7	12.8	T	O
346	CJ	19.7	20.3	21.1	21.9	T	O
347	CJ	14				T	O
348	CJ	14.3	14.8	14.9	15.3	T	O
349	CJ	16.4	16.7	17.2	17.5	T	O
350	CJ	17.6				T	O
351	CJ	16	16.2	16.5	16.8	T	O
352	CO	16.5	16.8	17.2	17.4	T	O
353	CO	16.3				T	O
354	CO	20.9	21.2	21.6	22.1	T	O
355	CO	17.3	17.8	18.1	18.3	T	O
356	CO	17.6	18	18.4	18.9	T	O
357	CO	16.9	17.3	17.7	18.2	T	O
358	CO	11.6	11.6	11.6	11.5	T	O
359	CO	17	17.4	17.4	18	T	O
360	CO	22.7				T	O
361	CJ	11.3				T	O
362	CO	13.3	13.6	14	14.6	T	O
363	CO	15.8				T	O
364	CO	16.3				T	O
365	CO	23.4				T	O
366	CO	12.8				T	O
367	CO	15.9				T	O
368	CO	23.3				T	O
369	CO	18.7	18.8	19.2	19.6	T	O
370	CO	19.2	19.2	19.3	19.2	T	O
371	CO	13.3	13.8	13.9	14.1	T	O
372	CO	24.9				T	O
373	CO	20.3				T	O
374	CJ	10.6				T	O

375	CJ	15.1				T	O
376	CJ	12.1				T	O
377	CJ	14				T	O
378	CJ	12.5				T	O
379	CJ	15.1				T	O
380	CJ	12.4	12.4	12.4	12.8	T	O
381	CJ	27	27.6	28.3	29.9	T	O
382	CJ	10.9				T	O
383	CJ	11.8				T	O
384	CJ	23.8				T	O
385	CJ	25.2	26	26.6	27.8	T	O
386	CJ	24.9	25.7	26.5	27.6	T	O
387	CJ	22				T	O
388	CJ	10.1	10.2	10.6	11.2	T	O
389	CJ	9.4				T	O
390	CJ	16.7				T	O
391	CJ	11.1				T	O
392	CJ	23.3	23.4	24	24.7	T	O
393	CJ	14.8				T	O
394	CJ	20.3	20.7	21.9	22	T	O
395	CJ	23.4				T	O
396	CJ	15.6				T	O
397	CJ	28.8				T	O
398	CJ	29.4				T	O
399	CJ	16.3	16.7	17.8	18.7	T	O
400	CJ	17.3				T	O
401	CJ	22.9				T	O
402	CJ	13.5	13.7	14.2		T	O
403	CJ	24.7				T	O
404	CJ	23.6				T	O
405	CJ	28	28.3	29.7	30.6	T	O
406	CJ	27.1	28.5	30	30.4	T	O
407	CJ	15.3	15.5	16.1	16.3	T	O
408	CJ	20.6	21.3	22.1	22.9	T	O
409	CJ	16.2				T	O
410	CJ	15.5				T	O
411	CJ	17.1				T	O
412	CJ	15.2				T	O
413	CJ	26.2	27.5	29	30.2	T	O
414	CJ	26.4				T	O
415	CJ	18.5	19.1	20.2	21	T	O
416	CJ	19.1	19.8	20.5	21.4	T	O
417	CJ	32				T	O
418	CJ	26				T	O
419	CJ	20.8				T	O
420	CJ	30.3	31.1	32.2	32.6	T	O
421	CJ	28.8				T	O
422	CJ	17.2				T	O
423	CJ	21.5	21.6	23	23.8	T	O
424	CJ	23.5				T	O
425	CJ	13.5				T	O
426	CJ	31.3	32.9	34.2	35	T	O
427	CJ	20.4	21	22	22.7	T	O
428	CJ	34.7				T	O
429	CJ	33.6				T	O

430	CJ	26	26.1	27	26.9	T	O	
431	CJ	18.9	19.3	20	20.8	T	O	
432	CJ	8.9	8.9	9	9.4	T	O	
433	CJ	32.6				T	O	
434	CJ	15.4				T	O	
435	CJ	23.2	23.8	24.4	25.2	T	O	
436	CJ	23.1				T	O	
437	CJ	24.9	25.9	26.6	27.1	T	O	
438	CJ	21.8				T	O	
439	CJ	15.5	15.8	16.4	17.3	T	O	
440	CJ	32.4	33.5	35.1	35.3	T	O	
441	CJ	17.3	17.8	18.1	18.3	T	O	
442	CJ	19	19.4	20.1	20.8	T	O	
443	CJ	17.9	18.4	19.2	20.2	T	O	
444	CJ	18.8	19.3	19.5	19.7	T	O	
445	CJ	16.4	17.1	18	18.6	T	O	
446	CJ	13.1	13.5	14	14.2	T	O	
447	CJ	21.6	23.1	23.9	21	T	O	† 2
448	CJ	11.8	12.2	12.6	12.6	T	O	
449	CJ	12.3	12.3	12.5	12.3	T	O	
450	CJ	13.9	14.5	14.6	14.7	T	O	
451	CJ	46.4	46.2	46.2	46.7	T	O	*3
452	CJ	11.2	11.2	11.2	11.2	T	O	
453	CJ	19.1	20	20.4	20.5	T	O	
454	CJ	13.8	13.9	14.4	14	T	O	
455	CJ	17				T	O	
456	CJ	25.9	26.8	27.3	28.4	T	O	
457	CJ	23.3	23.8	24.1	24.4	T	O	
458	CJ	36.3	37	37.4	37.7	T	O	
459	CJ	30.3				T	O	
460	CJ	31.8	32	32.5	32.3	T	O	
461	CJ	30.7				T	O	
462	CJ	34				T	O	
463	CJ	32.3				T	O	
464	CJ	27.7	28.8	30.5	30.3	T	O	
465	CJ	20.1				T	O	
466	CJ	27.1	27.5	28.1	28.2	T	O	
467	CJ	24.9				T	O	
468	CJ	28.3				T	O	
469	CJ	31.3				T	O	
470	CJ	25.2				T	O	
471	CJ	13.7				T	O	
472	CJ	22.2				T	O	
473	CJ	18				T	O	
474	CJ	19.7	20.3	21.4	21.2	T	O	
475	CJ	19.8	20.1	20.8	21.3	T	O	
476	CJ	22.2				T	O	
477	CJ	29.2				T	O	
478	CJ	31.1	31.8	32.6	33.4	T	O	
479	CJ	34.3	35.7	36.7	37.1	T	O	
480	CJ	22.3				T	O	
481	CJ	26.7				T	O	
482	CJ	19.6				T	O	
483	CJ	11.9				T	O	
484	CJ	13.1	12.6			T	O	

485	CJ	21.7	22.6	23.6	24.8	T	O
486	CJ	23.3				T	O
487	CJ	18.1	18.6	18.8	19.2	T	O
488	CJ	17.2				T	O
489	CJ	16.9				T	O
490	CJ	17.4	17.4	18.3	18.5	T	O
491	CJ	20.5	21.4	22.5	23	T	O
492	CJ	13.2	13.2	14.1	14.2	T	O
493	CJ	20.3	21.2	22.1	22.6	T	O
494	CJ	15.1	15.3	15.8	16.2	T	O
495	CJ	22.1				T	O
496	CJ	17.6	18.2	18.9	19.5	T	O
497	CJ	22.2				T	O
498	CJ	25.9				T	O
499	CJ	17.2	17.8	19	19.4	T	O
500	CJ	22.2				T	O
501	CJ	22				T	O
502	CJ	24.1	25	26.2	26.6	T	O
503	CJ	30.2	31.5	32.8	33.4	T	O
504	CJ	27.5				T	O
505	CJ	14.5	14.5	14.6	14.9	T	O
506	CJ	24.2				T	O
507	CJ	26.7	27.8	28.7	29.5	T	O
508	CJ	22.5	23.6	25.4	26	T	O
509	CJ	12.6				T	O
510	CJ	33	33.9	35.7	35.6	T	O
511	CJ	29.1	30.2	31	31.5	T	O
512	CJ	27.3				T	O
513	CJ	16.4	16.9	16.9	16.9	T	O
514	CJ	21.3	21.8	22.4	22.7	T	O
515	CJ	36.9	37.9	38.9	39.7	T	O
516	CJ	32.8				T	O
517	CJ	45				T	O
518	CJ	35.7				T	O
519	CJ	19.3	20.2	21	21.7	T	O
520	CJ	27.8	28.9	30	31.9	T	O
521	CJ	26.5				T	O
522	CJ	31.2	32	32.4	33.2	T	O
523	CJ	27				T	O
524	CJ	30.3				T	O
525	CJ	19.8				T	O
526	CJ	23.1				T	O
527	CJ	27.8	28.5	29.8	30.5	T	I
528	CJ	30				T	O
529	CJ	29.1	30.1	31.5	31.9	T	O
530	CJ	24.8				T	O
531	CJ	20.2				T	O
532	CJ	20.1	20.7	21.4	22	T	O
533	CJ	20.9	21.3	21.8	22.5	T	O
534	CJ	15.3	15.7	16.4	16.4	T	O
535	CJ	16.7	16.8	17.2	17.3	T	O
536	CJ	11.4	11.5	11.5	11.5	T	I
537	CJ	9.8	9.8	9.8	9.9	T	I
538	CJ	15.4	15.6	15.9	15.8	T	I
539	CJ	12	12	11.8	12	T	I

540	CJ	11.5	11.3	11.2	11.1	T	I	
541	CJ	17.7	18.1	18.5	18.5	T	I	
542	CJ	18.4	19.1	19.7	19.9	T	I	
543	CJ	13.7	14	14.9	14.9	T	I	
544	CJ	14.5				T	O	
545	CJ	14.8				T	O	
546	CJ	16.2				T	O	
547	CJ	39.8			0	T	I	
548	CJ	17.5	17.9	18.5	19.3	T	I	
549	CJ	28.8				T	O	
550	CJ	29.2				T	O	
551	CJ	12.6				T	O	
552	CJ	26.5	27.4	29.1	28.7	T	I	
553	CJ	27.3				T	O	
554	CJ	19.3				T	O	
555	CJ	30.9	31.2	32	31.9	T	O	
556	CJ	25.8	26.7	27.6	28.5	T	O	
557	CJ	20.3				T	O	
558	CJ	15.3				T	O	
559	CJ	19.5	20	20.5	21.1	T	O	
560	CJ	20.2	20.8	21.1	21.5	T	O	
561	CJ	26.1				T	O	
562	CJ	33.3				T	O	
563	CJ	30.2				T	O	
564	CJ	19.4				T	O	
565	CJ	40.4		43.3	44.9	T	O	*4
566	CJ	28.8	29.9	31	31.3	T	O	
567	CJ	29.8	31	31.6	32.5	T	O	
568	CJ	16.4				T	O	
569	CJ	17.2				T	O	
570	CJ	14.7				T	O	
571	CJ	20.9				T	O	
572	CJ	24				T	O	
573	CJ	29.7	30.6	31.7	32.7	T	O	
574	CJ	22.8	22.9	23.8	24	T	O	
575	CJ	24.2				T	O	
576	CJ	11.8	12.3	13.1	13.7	T	O	
577	CJ	16.5	17	17.7	18.3	T	O	
578	CJ	14.1	14.1	15	15.2	T	O	
579	CJ	12.7	12.6	12.7	12.5	T	O	
580	CJ	21.8	22.3	22.8	23.2	T	O	
581	CJ	21.9	22.4	23	23.5	T	O	
582	CJ	11.6	11.9	12.3	12.5	T	O	
583	CJ	14.6	15.1	15.5	15.9	T	O	
584	CJ	24				T	O	
585	CJ	19.1				T	O	
586	CJ	14	14.5	15.4	15.9	T	O	
587	CJ	10.9	11.3	11.8	12.1	T	O	
588	CJ	28.1	29.3	31.2	30.5	T	O	† 1
589	CJ	13.8				T	O	
590	CJ	16.6				T	O	
591	CJ	25.8	26.7	28	28.8	T	O	† 1
592	CJ	27.7				T	O	
593	CJ	17.8				T	O	
594	CJ	31.1				T	O	

595	CJ	15.9	16.4	17.1	17.4	T	O
596	CJ	20.1				T	O
597	CJ	33.7				T	O
598	CJ	41.9				T	O
599	CJ	29.5	30.2	30.9	31.4	T	O
600	CJ	32.9				T	O
601	CJ	24.7				T	O
602	CJ	35.9				T	O
603	CJ	39.1	39.9	41.8	43.2	T	O
604	CJ	26.8				T	O
605	CJ	17.8	17.6	17.9	17.5	T	O
606	CJ	26.5	27	28.1	29	T	O
607	CJ	22.4				T	O
608	CJ	37	38.2	39.7	40	T	O
609	CJ	14.6	14.8	15.2	15.4	T	O
610	CJ	22.3				T	O
611	CJ	22.2				T	O
612	CJ	21	21.5	22.4	23.5	T	O
613	CJ	12.4				T	O
614	CJ	30.6				T	O
615	CJ	27				T	O
616	CJ	35				T	O
617	CJ	26.7	27.5	28.1	28.8	T	I
618	CJ	20.5	20.7	21	21.3	T	I
619	CJ	35.2	35.7	36.7	37.2	T	I
620	CJ	22	22.7	24.2	25.3	T	I
621	CJ	29.2	30.5	32.1	33.6	T	I
622	CJ	31.5	32.2	32.9	34.2	T	I
623	CJ	28.2				T	O
624	CJ	16.2	17.1	17.5	17.7	T	I
625	CJ	12.6	12.6	12.6	12.6	T	O
626	CJ	18.8	19.1	19.5	20.1	T	I
627	CJ	22.5	22.9	23.5	23.7	T	I
628	CJ	25				T	O
629	CJ	22.7	23.5	24.1	25.5	T	I
630	CJ	17.2				T	O
631	CJ	36.8	38.1	38.9	40.4	T	I
632	CJ	36.1	37.7	37	38.3	T	I
633	CJ	26.8				T	O
634	CJ	28.9				T	O
635	CJ	18.8	19.3	20.6	20.3	T	I
636	CJ	35.1	35.7	38.5	37.2	T	I
637	CJ	22.4	22.7	23.1	23.6	T	I
638	CJ	32.2				T	O
639	CJ	12.5				T	O
640	CJ	35.9	37.4	39	40.3	T	I
641	CJ	21.4				T	O
642	CJ	17.8				T	O
643	CJ	20.3	21.1	21.7	22	T	O
644	CJ	23.6				T	O
645	CJ	32.9	33.2	33.7	34.4	T	O
646	CJ	27.2	28	28.8	29.1	T	O
647	CJ	37.3				T	O
648	CJ	34.4	35.2	36	37.1	T	O
649	CJ	29				T	O

650	CJ	25.6	26.4	27.3	28.3	T	O	
651	CJ	30.6				T	O	
652	CJ	27.1	27.6	28.7	29.1	T	O	
653	CJ	27.2				T	O	
654	CJ	27.5				T	O	
655	CJ	16.8				T	O	
656	CJ	18				T	O	
657	CJ	25.9	26.7	27.6	28.1	T	O	
658	CJ	14.9	15.9	16.5	17.1	T	O	
659	CJ	24.5				T	O	
660	CJ	19.3	20.4	21.8	23	T	O	
661	CJ	23.3	24.8	24.4	25	T	O	
662	CJ	14.6	14.8	15.1	15.4	T	O	
663	CJ	16.6	17.4	18.3	18.6	T	O	
664	CJ	17.6				T	O	
665	CJ	18.3				T	O	
666	CJ	24.9	26.6	28.6	30	T	O	
667	CJ	20	20.9	22	22.8	T	O	
668	CJ	25.3				T	O	
669	CJ	18.5	18.5	18.7	18.7	T	O	*1
670	CJ	27.6	27.5	28	28.6	T	O	
671	CJ	23.3	24	24.6	25.4	T	O	
672	CJ	18.5	19	20	20.9	T	O	
673	CJ	20.5	21.1	21.8	22.5	T	O	
674	CJ	30.2				T	O	
675	CJ	27				T	O	
676	CJ	17.9	18.4	19.1	19.7	T	O	
677	CJ	8.5	8.5	9.5	9.9	T	O	
678	CJ	16.4	16.9	17.4	17.9	T	O	
679	CJ	20				T	O	
680	CJ	25.3				T	O	
681	CJ	27.8				T	O	
682	CJ	21.3				T	O	
683	CJ	27.5	27.8	29	29.5	T	O	
684	CJ	32.6				T	O	
685	CJ	14	14.2	14.7		T	O	
686	CJ	25.4				T	O	
687	CJ	32.7				T	O	
688	CJ	13				T	O	
689	CJ	24.3	24.3	24.6	25.3	T	O	
690	CJ	34.7	36.1	37.3	37.7	T	O	
691	CJ	31.5	32.2	32.5	33.3	T	O	
692	CJ	12.8				T	O	
693	CJ	35.7				T	O	
694	CJ	44.4				T	O	
695	CJ	11.7				T	O	
696	CJ	33.7	34.9	35.9	37	T	O	
697	CJ	17.5				T	O	
698	CJ	26	26.4	27	27.4	T	I	
699	CJ	27				T	O	
700	CJ	30.5	31.3	32	33.2	T	I	
701	CJ	29.6		30.5	30.8	T	I	*2, 4
702	CJ	28.1				T	O	
703	CJ	28	29.3	29.5	30.5	T	I	
704	CJ	41	42	34.2	44.7	T	I	† 1

705	CJ	30.8	31.1	32.6	33.7	T	I
706	CJ	23				T	O
707	CJ	19.1	19.5	19.7	20.3	T	I
708	CJ	18				T	O
709	CJ	15.9				T	O
710	CJ	13.3				T	O
711	CJ	21.9	22.3	22.7	23.5	T	I
712	CJ	9.5	9.5	9.5	9.6	T	I
713	CJ	9.7	9.7	9.7	10	T	I
714	CJ	21.3				T	O
715	CJ	11.5	11.5	11.6	11.6	T	I
716	CJ	9				T	O
717	CJ	17.6				T	O
718	CJ	23.7	24.1	24.6	25.2	T	I
719	CJ	33.3	34.3	34.3	35	T	I
720	CJ	15.9				T	O
721	CJ	21.4				T	O
722	CJ	18.4				T	O
723	CJ	28.8	28.9			T	I
724	CJ	27.5				T	O
725	CJ	12.7				T	O
726	CJ	36.9				T	O
727	CJ	34.4	34.6	35.5	36.8	T	I
728	CJ	11.1				T	O
729	CJ	23.8				T	O
730	CJ	27.7				T	O
731	CJ	19.9				T	O
732	CJ	28.3	28.3	28.4	29.5	T	O
733	CJ	41.4				T	O
734	CJ	33.5	34.9	35.7	35.5	T	O
735	CJ	24.9	25	25.8	25.7	T	O
736	CJ	36.3	38	39.1	39.4	T	O
737	CJ	20.4				T	O
738	CJ	21.4	21.8	22.4	22.5	T	O
739	CJ	22.3				T	O
740	CJ	31.7				T	O
741	CJ	30.6				T	O
742	CJ	20.2	20.6	21	21.1	T	O
743	CJ	34.3	35	36.8	37.1	T	O
744	CJ	26.9	27.7	28.5	29.8	T	O
745	CJ	31.1	32.5	33.2	34	T	O
746	CJ	27.2				T	O
747	CJ	25.5				T	O
748	CJ	15.8				T	O
749	CJ	21.1	21.7	22.2	22.7	T	O
750	CJ	15.5	15.7	16.1	16.2	T	O
751	CJ	18.8	19	19.7	20	T	O
752	CJ	18.1	18.4	19	19.5	T	O
753	CJ	15.2	15.2	15.2	15.1	T	O
754	CJ	13.4				T	O
755	CJ	18.1	18.6	19.3	20.1	T	O
756	CJ	19	19.4	20.2	20.7	T	O
757	CJ	18.2				T	O
758	CJ	16.4	16.6	17	17.7	T	O
759	CJ	19.3				T	O

760	CJ	16				T	O	
761	CJ	15.4				T	O	
762	CJ	23.9	24.7	25.5	26.6	T	O	
763	CJ	22.7	23.4	24.6	25.6	T	O	
764	CJ	22.9				T	O	
765	CJ	15.7				T	O	
766	CJ	19.6	20.7	21.5	22.9	T	O	
767	CJ	31.8	33.3	34.1	35	T	O	
768	CJ	28.5				T	O	
769	CJ	16.4				T	O	
770	CJ	14.3	14.5	15.2	15.4	T	O	
771	CJ	17.7				T	O	
772	CJ	18	18.3	19.1	19.5	T	O	
773	CJ	12.5				T	O	
774	CJ	22.9				T	O	
775	CJ	12.7				T	O	
776	CJ	22.3				T	O	
777	CJ	31.9	32.5	33.8	35.1	T	O	
778	CJ	23.5				T	O	
779	CJ	24.9				T	O	
780	CJ	22.1	22.7	22.7	24.6	T	O	
781	CJ	20.1		20.6	21	T	O	
782	CJ	30.9				T	O	
783	CJ	19				T	O	
784	CJ	29.5				T	O	
785	CJ	25.3	25.8	26.8	27.2	T	O	
786	CJ	34.4	36	37.5	39.2	T	O	
787	CJ	14.3				T	O	
788	CJ	20				T	O	
789	CJ	10.1				T	O	
790	CJ	30.1	31.2	32.9	33.4	T	O	
791	CJ	21.5	21.6	22.4	22.6	T	O	
792	CJ	29.1				T	O	
793	CJ	23.2				T	O	
794	CJ	14.2				T	O	
795	CJ	20.3				T	O	
796	CJ	34.2	35.3	35.5	38.3	T	I	† 1
797	CJ	32.8				T	O	
798	CJ	29.4	29.6	30.4	30.6	T	I	
799	CJ	35.1				T	O	
800	CJ	27.7	28.6	30	31.5	T	I	
801	CJ	23.1				T	O	
802	CJ	35.6	35.6	36	36.8	T	I	
803	CJ	31.4	32.5	32.8	33.9	T	I	
804	CJ	21				T	O	
805	CJ	26.7				T	O	
806	CJ	31.1	31.8	31.9	32.9	T	O	
807	CJ	25.8	26.3	27.2	28	T	O	
808	CJ	23.3				T	O	
809	CJ	32	32.6	33.4	34	T	O	
810	CJ	21.2	21.4	22.1	22.6	T	O	
811	CJ	25.8	26.7	27.5	28.6	T	O	
812	CJ	16.5	16.8	17	17.1	T	O	
813	CJ	17	17.3	17.8	17.6	T	O	
814	CJ	21.9	22.1	22.5	23	T	O	

815	CJ	13.9				T	O	
816	CJ	24				T	O	
817	CJ	23				T	O	
818	CJ	21.8				T	O	
819	CJ	20.6				T	O	
820	CJ	18	18	18.5	18.9	T	O	
821	CJ	18.5				T	O	
822	CJ	23.4	23.9	24.2	25.3	T	O	
823	CJ	22.3	22.4	23.2	23.2	T	O	
824	CJ	41.5				T	O	
825	CJ	24.8				T	O	
826	CJ	33.4				T	O	
827	CJ	26.5				T	O	
828	CJ	34.6	35.1	36.6	38.4	T	I	
829	CJ	17.9				T	O	
830	CJ	35.5	35.5	36.4	37.2	T	I	
831	CJ	23.8				T	O	
832	CJ	23.5				T	O	
833	CJ	29.1				T	O	
834	CJ	42.6				T	O	
835	CJ	26.7	27.1	28	29.1	T	O	
836	CJ	30.4				T	O	
837	CJ	18.9				T	O	
838	CJ	27.1				T	O	
839	CJ	37.5	38.5	39	40.6	T	O	
840	CJ	16.7				T	O	
841	CJ	24.7				T	O	
842	CJ	30.3				T	O	
843	CJ	23.1	23.9	24.6	25.6	T	O	
844	CJ	23.9				T	O	
845	CJ	13.2				T	O	
846	CJ	14.5				T	O	
847	CJ	38.4	40.1	40.4	40.1	T	O	† 1
848	CJ	24.2	24.7	25.5	26.5	T	O	
849	CJ	19.9				T	O	
850	CJ	20.8				T	O	
851	CJ	17.1				T	O	
852	CJ	23.8	24.2	24.5	25.5	T	O	
853	CJ	29.7				T	O	
854	CJ	36.3				T	O	
855	CJ	15.3				T	O	
856	CJ	33	34.2	35.2	36.5	T	O	
857	CJ	15.8				T	O	
858	CJ	15.5				T	O	
859	CJ	13.3	13.6	13.9	14.2	T	O	
860	CJ	23.3				T	O	
861	CJ	17.2	17.7	18.4	19.2	T	O	
862	CJ	30.2				T	O	
863	CJ	25.5	26.4	27.1	28.1	T	O	
864	CJ	19.9	20.4	20.6	21	T	O	
865	CJ	16.4	16.6	16.8	17.1	T	O	
866	CJ	16.4	16.7	17	17.5	T	O	
867	CJ	15.8	16.5	16.5	16.8	T	O	
868	CJ	11.1	11.8	11.8	11.9	T	O	
869	CJ	11.5	11.5	11.6	11.5	T	O	

870	CJ	30.5	31.5	32	33.5	T	O
871	CJ	25.3	25.4	25.6		T	O
872	CJ	24.3				T	O
873	CJ	20.8	21.7	22.6	24	T	O
874	CJ	22.9				T	O
875	CJ	24				T	O
876	CJ	16.7				T	O
877	CJ	12.5				T	O
878	CJ	11.6				T	O
879	CJ	18.3	18.6	19	19.6	T	O
880	CJ	27.5				T	O
881	CJ	23.7				T	O
882	CJ	25.4				T	O
883	CJ	32	33.5	34.6	36.1	T	O
884	CJ	33.3				T	O
885	CJ	31.6	32.9	33.3	34.9	T	O
886	CJ	36	37.1	37.9	38.9	T	O
887	CJ	38.9				T	O
888	CJ	23.4	23.5	24.1	24.2	T	O
889	CJ	22.1	22.1	22.8	23.5	T	O
890	CJ	20	20.4	21	22.3	T	I
891	CJ	13.9				T	O
892	CJ	18.9				T	O
893	CJ	20.5				T	O
894	CJ	25.4				T	O
895	CJ	23.6				T	O
896	CJ	32.5	32.7	34	34.1	T	I
897	CJ	26.3				T	O
898	CJ	39.5	40.3	40.7	41.5	T	O
899	CJ	22				T	O
900	CJ	28.6				T	O
901	CJ	31				T	O
902	CJ	34.4				T	O
903	CJ	22.9				T	O
904	CJ	27.1				T	O
905	CJ	19.6				T	O
906	CJ	26.4				T	O
907	CJ	16.4				T	O
908	CJ	23.8	24.5	25.6	26.7	T	O
909	CJ	21.8				T	O
910	CJ	29.8				T	O
911	CJ	23.4	23.5	24.3	24.5	T	O
912	CJ	23.8				T	O
913	CJ	16.4				T	O
914	CJ	9				T	O
915	CJ	20.5	20.9	21.7	22.2	T	O
916	CJ	12.2	12.3	12.6	12.5	T	O
917	CJ	16.7	16.9	17.4	17.5	T	O
918	CJ	27.7	28.5	29.2	30.1	T	O
919	CJ	25.9				T	O
920	CJ	17.9				T	O
921	CJ	23.6	24.1	25.2	25.1	T	O
922	CJ	29.2	30.1	31.1	31.9	T	O
923	CJ	13.6				T	O
924	CJ	20.9				T	O

925	CJ	14.6				T	O
926	CJ	20.2	20.9	21.3	22.2	T	O
927	CJ	28.5	29	29.6	30.3	T	O
928	CJ	15.7				T	O
929	CJ	25.4	26.7	27	28.9	T	O
930	CJ	21				T	O
931	CJ	26	27.3	27.7	28.6	T	O
932	CJ	29.1				T	O
933	CJ	29.7	30.4	30.5	32.6	T	O
934	CJ	42	42.6	43.8	46.4	T	O
935	CJ	23.6				T	O
936	CJ	17.6				T	O
937	CJ	24.5				T	O
938	CJ	23.6	24.3	25.1	25.9	T	O
939	CJ	11.1				T	O
940	CJ	25.7				T	O
941	CJ	33.7	34.3	35.6	35.8	T	O
942	CJ	27.1				T	O
943	CJ	34.2	35	36.5	37.8	T	O
944	CJ	39				T	O
945	CJ	24.9				T	O
946	CJ	26.2	27.1	28	28.3	T	O
947	CJ	21.7				T	O
948	CJ	27.2	28	28.8	29.2	T	O
949	CJ	11.8				T	O
950	CJ	20.9				T	O
951	CJ	15.4				T	O
952	CJ	29.7				T	O
953	CJ	21.2	21.9	22.3	22.9	T	O
954	CJ	18.9				T	O
955	CJ	12	12	12.1	12.5	T	O
956	CJ	19.4				T	O
957	CJ	12.2				T	O
958	CJ	15.8				T	O
959	CJ	15				T	O
960	CJ	22.7	23.3	23.8	24	T	O
961	CJ	23.5	24	24.5	25.1	T	O
962	CJ	16				T	O
963	CJ	14.9				T	O
964	CJ	26				T	O
965	CJ	22.9	23.6	24.2	24.6	T	O
966	CJ	24.1	25	26	26.8	T	O
967	CJ	18.2				T	O
968	CJ	13.1				T	O
969	CJ	19.1	19.4	19.7	19.7	T	O
970	CJ	18.8	19.4	20.3	21.1	T	O
971	CJ	26.7				T	O
972	CJ	27.7	28.6	29.8	30.5	T	O
973	CJ	25.2	25.7	26.1	27.5	T	O
974	CJ	22.9	23.2	24	24.5	T	O
975	CJ	22.7	23.3	23.9	24.6	T	O
976	CJ	30				T	O
977	CJ	30.7				T	O
978	CJ	35.1	35.7	36.8	37.8	T	O
979	CJ	25.5	26	26.3	26.5	T	O

980	CJ	20.5	20.9	21	21.1	T	O
981	CJ	16.6	17	17.2	17.4	T	O
982	CJ	28.3	29.1	29.6	30.5	T	O
983	CJ	16	16.1	16.1	16.1	T	O
984	CJ	17.5	17.7	17.7	17.7	T	O
985	CJ	22.1	22.8	22.9	23.1	T	O
986	CJ	26.9	27.8	28.1	28.2	T	O
987	CJ	19.3	19.3	19.5	19.7	T	O
988	CJ	21.4	22	22.4	23	C	O
989	CJ	26.3	27	27.5	28.5	C	O
990	CJ	14.5	14.6	14.5	14.5	C	O
991	CJ	19.5	19.5	19.8	19.9	C	O
992	CJ	19.7	20.2	20.7	21	C	O
993	CJ	25.6	26.3	26.7	27.2	T	O
994	CJ	16.9	16.9	16.9	16.9	T	O
995	CJ	30.5	31.2	31.8	32.6	C	O
996	CJ	27.7	28.4	28.4	28.5	C	O
997	CJ	26	26.5	26.7	27.4	C	O
998	CJ	29	29.9	30.3	30.9	C	O
999	CJ	15.5	15.5	15.5	15.3	C	O
1000	CJ	31.8	32.9	33.3	33.9	C	O
1001	CJ	21.3	21.8	22	22	T	O
1002	CJ	12.5	12.5	12.5	12.3	T	O
1003	CJ	16.5	16.8	17.4	17.8	T	O
1004	CJ	16.7				T	O
1005	CJ	35.7				T	O
1006	CJ	24.7				T	O
1007	CJ	34.2				T	O
1008	CJ	22.1	22.6	23	23.6	T	O
1009	CJ	31.2				T	O
1010	CJ	29	30.6	31.3	32.3	T	O
1011	CJ	34.1				T	O
1012	CJ	24.5	25.2	25.9	26.5	T	O
1013	CJ	27				T	O
1014	CJ	13.2				T	O
1015	CJ	24.3				T	O
1016	CJ	26	26.4	27.1	27.9	T	O
1017	CJ	19				T	O
1018	CJ	17.3				T	O
1019	CJ	29				T	O
1020	CJ	32.6	33.5	34.5	35.4	T	O
1021	CJ	28.4				T	O
1022	CJ	21.1				T	O
1023	CJ	28.5	29.1	30.7	32	T	O
1024	CJ	20.7				T	O
1025	CJ	19.3				T	O
1026	CJ	19.7				T	O
1027	CJ	16				T	O
1028	CJ	16				T	O
1029	CJ	20.2				T	O
1030	CJ	11.6				T	O
1031	CJ	32.8	34	35.3	36.2	T	O
1032	CJ	26				T	O
1033	CJ	15.8				T	O
1034	CJ	19.2				T	O

1035	CJ	20.6				T	O	
1036	CJ	19				T	O	
1037	CJ	13.2				T	O	
1038	CJ	9.2				T	O	
1039	CJ	13.9				T	O	
1040	CJ	18.5	18.9	19.4	19.5	T	O	
1041	CJ	10	10.2	10.2	10.2	T	O	
1042	CJ	18.9	19.6	20.3	20.9	T	O	
1043	CJ	22.5	22.9	23.2	23.5	T	O	
1044	CJ	19.1	19.8	20	20.5	T	O	
1045	CJ	30.5	31.3	32	32.7	T	O	
1046	CJ	15.2	15.6	15.7	15.4	T	O	
1047	CJ	13.2	13.3	13.5	13.1	T	O	
1048	CJ	18.7	19.1	19.5	19.5	T	O	
1049	CJ	17.7	18.4	18.6	19.1	T	O	
1050	CJ	22.8				T	O	
1051	CJ	14.4	14.9	15.4	15.8	T	O	
1052	CJ	30.1	31.6	31.6	32.6	T	O	
1053	CJ	23.6				T	O	
1054	CJ	27.8	28.7	29.3	32.5	T	O	
1055	CJ	18.5				T	O	
1056	CJ	12.7				T	O	
1057	CJ	20.2				T	O	
1058	CJ	23.3				T	O	
1059	CJ	16.5				T	O	
1060	CJ	26.5				T	O	
1061	CJ	26.6				T	O	
1062	CJ	28.5	29.5	31	32.2	T	O	
1063	CJ	28.2				T	O	
1064	CJ	35.7	37.1	37.5	38.4	T	O	
1065	CJ	30.6				T	O	
1066	CJ	30	31.3	32.3	33.5	T	O	
1067	CJ	29.1				T	O	
1068	CJ	31				T	O	
1069	CJ	22.9				T	O	
1070	CJ	22.6				T	O	
1071	CJ	27.1	28.6	29.6	30.8	T	O	
1072	CJ	27.3				T	O	
1073	CJ	33				T	O	
1074	CJ	29.9				T	O	
1075	CJ	21.7				T	O	
1076	CJ	24				T	O	
1077	CJ	20.5				T	O	
1078	CJ	43.6	45	46.4	48.2	T	O	*3
1079	CJ	27.4				T	O	
1080	CJ	21.8	22.7	23	23.5	T	O	
1081	CJ	14.9	14.9	15	15	T	O	
1082	CJ	15				T	O	
1083	CJ	18.2				T	O	
1084	CJ	14.9				T	O	
1085	CJ	12.2				T	O	
1086	CJ	25.5	26.8	28	28.2	T	O	
1087	CJ	21	21.5	21.8	22.2	T	O	
1088	CJ	25.5	26.7	27.1	28.3	C	O	
1089	CJ	16				T	O	

1090	CJ	16.6	16.9	17.1	17.2	T	O
1091	CJ	11.7	11.7	11.7	11.6	C	O
1092	CJ	9.4	9.7	9.7	9.5	C	O
1093	CJ	12	12.2	12.2	12.2	C	O
1094	CJ	19.5	19.7	20	20.1	C	O
1095	CJ	20.7	21.3	21.7	21.9	C	O
1096	CJ	27.2	28.1	29	29.9	C	O
1097	CJ	16.7	16.8	16.8	16.8	C	O
1098	CJ	22.5	23.1	23.4	23.7	C	O
1099	CJ	21	21.8	22	22.5	C	O
1100	CJ	24.9	25.8	26	26.3	C	O
1101	CJ	22.1	22.7	23	23.2	C	O
1102	CJ	25.2	25.8	26.1	25.9	C	O
1103	CJ	22.6	23.1	23.2	23.4	C	O
1104	CJ	18.9	19.2	19.5	19.5	C	O
1105	CJ	11.5	11.7	11.7	11.6	C	O
1106	CJ	15.9	16.2	16.2	16.3	C	O
1107	CJ	16.5	16.9	16.9	16.9	C	O
1108	CJ	20.9	20.9	20.9	20.8	C	O
1109	CJ	21.4	22	22.3	22.6	C	O
1110	CJ	16	16	16.2	16.1	C	O
1111	CJ	28	28.8	29.1	29.7	C	O
1112	CJ	14.4	14.5	14.5	14.4	C	O
1113	CJ	24.1	24.8	25.4	26	C	O
1114	CJ	14.8	14.9	14.9	14.7	C	O
1115	CJ	15.1	15.4	15.5	15.6	C	O
1116	CJ	21.6	22.5	22.7	23.1	C	O
1117	CJ	17.7	18.1	18.4	18.5	C	O
1118	CJ	22.2	22.9	23.1	23.6	C	O
1119	CJ	12	12.6	12	12	C	O
1120	CJ	19.8	20.6	20.7	21.2	C	O
1121	CJ	23	23.5	23.7	23.7	C	O
1122	CJ	16.5	16.5	16.5	16.5	C	O
1123	CJ	21	21.6	21.7	21.8	C	O
1124	CJ	23.6	24.3	24.4	24.4	C	O
1125	CJ	11.6	11.8	11.8	11.7	C	O
1126	CJ	14.3	14.4	14.5	14.4	C	O
1127	CJ	21.4	22	22.4	22.8	C	O
1128	CJ	21.2	21.6	21.6	21.6	C	O
1129	CJ	21.3	22.2	22.6	23	C	O
1130	CJ	31.4	32.7	33.5	34.5	C	O
1131	CJ	18.6				T	O
1132	CJ	14.7				T	O
1133	CJ	15.8				T	O
1134	CJ	37				T	O
1135	CJ	28.2	29.3	30	30.4	T	O
1136	CJ	26.3	27.2	27.8	28.4	T	O
1137	CJ	49				T	O
1138	CJ	35.8	37.3	38	38.4	T	O
1139	CJ	30.3				T	O
1140	CJ	24.4				T	O
1141	CJ	30.4	31.3	32.3	33.4	T	O
1142	CJ	22.4				T	O
1143	CJ	25.8	26.7	27.7	28.7	T	O
1144	CJ	16				T	O

1145	CJ	27.1	28.8	29.8	29.3	T	O	
1146	CJ	22.7				T	O	
1147	CJ	23				T	O	
1148	CJ	15.3	15.3	15.7		T	O	*4
1149	CJ	32.7	33.9	34.3	34.8	T	O	
1150	CJ	20.4	20.7	20.8	20.3	T	O	
1151	CJ	23	23.5	24.1	24.1	T	O	
1152	CJ	12	12.1	12.1	12.3	T	O	
1153	CJ	12	12.3	12.3	12.1	T	O	
1154	CJ	18.6	19.3	20	20.4	T	O	
1155	CJ	16.7	17.2	17.5	17.4	T	O	
1156	CJ	22	22.5	23	22.8	T	O	
1157	CJ	20.6	21.4	21.5	21.9	T	O	
1158	CJ	18.2	18.6	19.1	19	T	O	
1159	CJ	17.9	18.5	18.8	18.9	T	O	
1160	CJ	15.9	16.1	16.4	16	T	O	
1161	CJ	24.6	25.4	26.1	26.4	T	O	
1162	CJ	23.5	24.3	24.8	25.5	T	O	
1163	CJ	21.6	22.3	22.8	23.2	C	O	
1164	CJ	29.6	30.5	31.4	31.5	C	O	
1165	CJ	16.7	16.8	16.9	16.7	T	O	
1166	CJ	28.4	29.4	30.4	31.3	T	O	
1167	CJ	17.1				T	O	
1168	CJ	29.5	29.5	31.2	31.9	T	O	
1169	CJ	19.3				T	O	
1170	CJ	14.2				T	O	
1171	CJ	16.4				T	O	
1172	CJ	35.5				T	O	
1173	CJ	19.7				T	O	
1174	CJ	14.7				T	O	
1175	CJ	33.7	34.2	36.5	37	T	O	
1176	CJ	27.8	27.9	29.1	29.8	T	O	
1177	CJ	15				T	O	
1178	CJ	25.3				T	O	
1179	CJ	36.7				T	O	
1180	CJ	21.8				T	O	
1181	CJ	36				T	O	
1182	CJ	28.8	29.9	30.2	29.8	T	O	
1183	CJ	29.5	30.8	31.5	32	T	O	
1184	CJ	24.4	25.7	26.3	27.1	T	O	
1185	CJ	19.5	19.7	20.1	20.1	T	O	
1186	CJ	27.4				T	O	
1187	CJ	18	18.6	18.9	19.2	T	O	
1188	CJ	15.9				T	O	
1189	CJ	14				T	O	
1190	CJ	19.4	20	20.5	20.9	T	O	
1191	CJ	14				T	O	
1192	CJ	25.1	26	26.4	26.6	T	O	
1193	CJ	18.2	19	18.2	18.3	C	O	*4
1194	CJ	14.2	15.3	14.7	14.7	C	O	*4
1195	CJ	21.2	22	22.5	23.2	C	O	
1196	CJ	16	16.5	16.5	16.8	C	O	
1197	CJ	17.8	18.3	18.6	18.7	C	O	
1198	CJ	24	24	24.5	24.9	C	O	
1199	CJ	13.2	13.2	13.6	13.6	C	O	

1200	CJ	13.7	14	14	13.8	C	O
1201	CJ	19.1	19.5	19.9	20.1	C	O
1202	CJ	16.6	16.9	17.4	17.5	C	O
1203	CJ	31.5	32.1	33.5	34.3	C	O
1204	CJ	24.9	25.1	25.8	25.9	C	O
1205	CJ	26.5	27.5	28.2	29	C	O
1206	CJ	20.1	20.9	20.6	20.7	C	O
1207	CJ	15.8	15.8	15.9	15.9	C	O
1208	CJ	18.4	18.6	18.4	18.2	C	O
1209	CJ	22.2	22.7	23.2	23.5	C	O
1210	CJ	20.9	21.3	21.5	21.5	C	O
1211	CJ	20.8	21.2	21.4	21.5	C	O
1212	CJ	21.1	21.7	21.9	22.6	C	O
1213	CJ	11.3	11.5	11.5	11.2	C	O
1214	CJ	12.2	12.5	12.2	12.2	C	O
1215	CJ	17.6	18.1	18.2	18.2	C	O
1216	CJ	22.5	22.8	23.4	23.5	C	O
1217	CJ	11.1	11.2	11.2	11	C	O
1218	CJ	21.4	22.3	22.6	22.8	C	O
1219	CJ	17.7	18.2	18.5	18.9	C	O
1220	CJ	12.2	12.8	12.9	12.8	C	O
1221	CJ	18.6	19.1	19.3	19.6	C	O
1222	CJ	16.2	16.7	16.3	16.4	C	O
1223	CJ	24	24.8	25	25.3	C	O
1224	CJ	24.8	26	26.8	27.7	C	O
1225	CJ	17.1	17.8	18.1	18.3	C	O
1226	CJ	22.2	22.8	23.7	24.7	C	O
1227	CJ	14	14.2	14.2	14.2	C	O
1228	CJ	11	11.1	12	12	C	O
1229	CJ	8.2	8.3	8.3	8.1	C	O
1230	CJ	24.5	26.4	27	27.8	T	O
1231	CJ	22.3	22.8	23	23.4	T	O
1232	CJ	23.6				T	O
1233	CJ	25.3				T	O
1234	CJ	26.1				T	O
1235	CJ	19.6	20	20	20.1	T	O
1236	CJ	24	24.5	24.1	25.6	T	O
1237	CJ	22.8	23.5	23.9	24.6	T	O
1238	CJ	24.3				T	O
1239	CJ	23				T	O
1240	CJ	30.1				T	O
1241	CJ	19.1				T	O
1242	CJ	29.7				T	O
1243	CJ	27.4				T	O
1244	CJ	27.2		29	30	T	O
1245	CJ	12.8				T	O
1246	CJ	13.4				T	O
1247	CJ	22.4				T	O
1248	CJ	11.1				T	O
1249	CJ	21.4	21.8	22.1	22.1	T	O
1250	CJ	28.7	30	31	32.8	T	O
1251	CJ	20.9	21.2	21.2	21.1	C	O
1252	CJ	14.3	14.5	14.7	14.7	C	O
1253	CJ	11.5	11.7	11.8	11.6	C	O
1254	CJ	11.1	11.2	11.2	11.1	C	O

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1255	CJ	20.9	21.4	21.4	21.5	C	O
1256	CJ	20.6	21	21.4	21.6	C	O
1257	CJ	10.9	11.1	11.1	11	C	O
1258	CJ	18.9	19.4	19.5	19.7	C	O
1259	CJ	10				C	O
1260	CJ	11.7	12	12	11.9	C	O
1261	CJ	20.3	20.9	21.4	22.1	C	O
1262	CJ	24.8	26	26.4	26.8	C	O
1263	CJ	31.9	33.1	33.3	34.5	C	O
1264	CJ	31.1	31.5	31.9	33	C	O
1265	CJ	27.3	27.6	28.5	29.5	C	O
1266	CJ	28.2	29	29.3	30	C	O
1267	CJ	20.1	20.3	20.5	20.9	C	O
1268	CJ	32.9	34.1	35	36.5	C	O
1269	CJ	21.3				T	O
1270	CJ	19	19.9	20.5	21.5	T	O
1271	CJ	24.1				T	O
1272	CJ	39.9	41.3	42.6	43.6	T	O
1273	CJ	37.9	38.5	39.5	41.7	T	O
1274	CJ	26.8				T	O
1275	CJ	29.3	30.5	31.1	32.4	T	O
1276	CJ	26.7				T	O
1277	CJ	27.3				T	O
1278	CJ	21.5	22.5	22.5	23.5	T	O
1279	CJ	21.8	22	22.4	22.7	T	O
1280	CJ	26.7	27.8	27.8	28.5	T	O
1281	CJ	17.4	18.8	17.9	18	C	O
1282	CJ	18.7	19	18.9	18.9	C	O
1283	CJ	24.4	25.2	25.7	26.2	C	O
1284	CJ	26.9	27.7	27.8	28.3	T	O
1285	CJ	13.7	13.9	13.7	13.5	T	O
1286	CJ	29.5	30.3	30.6	30.7	C	O
1287	CJ	31.6	32.5	33.1	33.2	T	O
1288	CJ	8.5	8.8	8.9	8.7	C	O
1289	CJ	23.5	24.9	25	25.5	T	O
1290	CJ	21.9				T	O
1291	CJ	15.5				T	O
1292	CJ	28	29.7	30.5	31.7	T	O
1293	CJ	15.8	16.1	16.2	16.3	T	O
1294	CJ	10.2	10.6	10.2	10.2	T	O
1295	CJ	15.6	15.9	16	16.1	T	O
1296	CJ	15.6	15.8	15.9	16.1	T	O
1297	CJ	20.4	20.8	21.2	21.4	T	O
1298	CJ	18.7	19.2	19.5	19.5	T	O
1299	CJ	14.8				T	O
1300	CJ	16.4	16.8	17	17.1	T	O
1301	CJ	30.2	31.5	31.8	32.3	C	O
1302	CJ	25.4	26	26	26	T	O
1303	CJ	22	22.9	23	23.4	T	O
1304	CJ	14.9				T	O
1305	CJ	18.1				T	O
1306	CJ	22.3	22.8	23.4	23.7	T	O
1307	CJ	18.3	19	19.1	19.1	T	O
1308	CJ	10.7	10.7	10.6	10.6	T	O
1309	CJ	26.3	26.8	27.1	27.3	T	O

1310	CJ	14				T	O
1311	CJ	13.1				T	O
1312	CJ	24.4	25.2	25.2	25.8	T	O
1313	CJ	20.8				T	O
1314	CJ	29.1				T	O
1315	CJ	16	16	16	16	T	O
1316	CJ	20.2	20.8	21.2	21.4	T	O
1317	CJ	28.2	28.9	29.8	30.3	T	O
1318	CJ	29.5	31.6	32.1	32.9	T	O
1319	CJ	25.9	27.5	28.1		T	O
1320	CJ	28.5				T	O
1321	CJ	34.1	35	35.7	36.2	T	O
1322	CJ	31.6	33.2	34.4	34	T	O
1323	CJ	20.2	20.6	20.8	21.2	T	O
1324	CJ	34.5				T	O
1325	CJ	15.8	16			T	O
1326	CJ	28	29			T	O
1327	CJ	45.6				T	O
1328	CJ	23.1	23.9	24.5	25.1	T	O
1329	CJ	20.4				T	O
1330	CJ	28.9	29.3	30.6	31.2	T	O
1331	CJ	22.2	22.8	23.2	24.1	C	O
1332	CJ	14.5	14.5	14.7	14.4	C	O
1333	CJ	23.1	24.5	25.1	25.2	C	O
1334	CJ	14	14	14	13.9	C	O
1335	CJ	20.5	20.6	20.6	20	C	O
1336	CJ	20.5	21.5	22.1	22.2	C	O
1337	CJ	21.4	21.8	22.1	22.4	C	O
1338	CJ	10.8	10.8	11	10.8	C	O
1339	CJ	21.9	22.5	23.6	23.4	C	O
1340	CJ	15.7	15.9	16.2	16.3	C	O
1341	CJ	20.7	21.2	21.8	21.8	C	O
1342	CJ	23.1				T	O
1343	CJ	12.6	12.8	12.8	12.6	C	O
1344	CJ	23.3	23.9	24.5	24.9	C	O
1345	CJ	14.7	14.8	15	14.9	C	O
1346	CJ	24.8	25.4	26.2	26.4	C	O
1347	CJ	19	19.1	19.1	18.9	C	O
1348	CJ	13.7	13.9	13.9	14.5	C	O
1349	CJ	27.4	28.4	30	29.8	C	O
1350	CJ	25.9	27	27.2	27.9	C	O
1351	CJ	20.5	20.9	21.8	21.7	C	O
1352	CJ	24.2	24.9	25.8	26.2	C	O
1353	CJ	17.1	17.3	17.7	17.8	C	O
1354	CJ	25.3	25.8	26.3	26.8	C	O
1355	CJ	10.3	10.4	10.5	10.1	C	O
1356	CJ	29.5	30.3	30.9	30.6	C	O
1357	CJ	26.1	26.3	26.7	26.8	C	O
1358	CJ	16.9				T	O
1359	CJ	32.5				T	O
1360	CJ	31.1	32.4			T	O
1361	CJ	38.7				T	O
1362	CJ	34.3				T	O
1363	CJ	26.9	27.4	28	29.1	T	O
1364	CJ	22.2	22.3	22.6	23	T	O

1365	CJ	29.7	30.4	31.2	32.2	T	O
1366	CJ	37.8				T	O
1367	CJ	36.8				T	O
1368	CJ	23.1	23.5	24	24.5	T	O
1369	CJ	22.3				T	O
1370	CJ	17.3				T	O
1371	CJ	22.5				T	O
1372	CJ	26.1				T	O
1373	CJ	24.8	25.3	26	27.1	T	O
1374	CJ	36.9	38.6	39.5	40.8	T	O
1375	CJ	19.1	19.5	19.9	20.4	T	O
1376	CJ	19.9				T	O
1377	CJ	25.1				T	O
1378	CJ	15.7				T	O
1379	CJ	28.3				T	O
1380	CJ	18.3	18.8	18.8	19.1	T	O
1381	CJ	28.5	29.9	30.1	31.1	T	O
1382	CJ	22.4				T	O
1383	CJ	22.4				T	O
1384	CJ	26.8				T	O
1385	CJ	18.7				T	O
1386	CJ	15.8				T	O
1387	CJ	22.7	23.6	24.3	25.1	T	O
1388	CJ	12.8				T	O
1389	CJ	24.1	25	26	26.6	T	O
1390	CJ	34.7				T	O
1391	CJ	24.7	26	27.1	27.7	T	O
1392	CJ	14				T	O
1393	CJ	23.7	24.4	25.3	26.2	T	O
1394	CJ	14.6				T	O
1395	CJ	13.6				T	O
1396	CJ	19.8	20.2	20.9	21.3	T	O
1397	CJ	13.5				T	O
1398	CJ	17.1				T	O
1399	CJ	13.1				T	O
1400	CJ	16.8	17	17.6	17.4	T	O
1401	CJ	14	14.2	14.2	14.3	T	O
1402	CJ	19.1				T	O
1403	CJ	28.8	29.7	30.1	30.5	T	O
1404	CJ	25.1				T	O
1405	CJ	14.3	14.4	14.4	14.4	T	O
1406	CJ	39.7	41.9	43	44.7	T	O
1407	CJ	19.4				T	O
1408	CJ	15.9				T	O
1409	CJ	28.8				T	O
1410	CJ	17.9	18.3	18.6	19.5	T	O
1411	CJ	19.4	19.8	20.5	20.3	T	O
1412	CJ	27.1				T	O
1413	CJ	36.7				T	O
1414	CJ	25.4	26.5	27.5	28.7	T	O
1415	CJ	28.2				T	O
1416	CJ	31.2	32.1	32.9	33.5	T	O
1417	CJ	30.7				T	O
1418	CJ	24.7	24.8	25.1	25.5	T	O
1419	CJ	27.8				T	O

1420	CJ	26				T	O	
1421	CJ	32				T	O	
1422	CJ	30.9	32	32.5	32.7	T	O	
1423	CJ	24.9				T	O	
1424	CJ	22.8				T	O	
1425	CJ	23.8	24.9	26.5	26.7	T	O	
1426	CJ	25.8	26.4	26.8	27.2	C	O	
1427	CJ	32.1	33.1	33.5	34.5	C	O	
1428	CJ	31.7	32.8	33.5	34.1	C	O	
1429	CJ	32.8	33.7	34	33.8	C	O	
1430	CJ	28.6	29.7	30.1	30.1	C	O	
1431	CJ	24.2	24.6	25.7	25.3	C	O	
1432	CJ	13.3	13.4	13.4	13.3	C	O	
1433	CJ	18.9	19.1	19.4	19.1	C	O	
1434	CJ	21.8	22.4	23	23	C	O	
1435	CJ	24.4	24.6	24.9	25.3	C	O	
1436	CJ	19.3	19.9	20.2	20.6	C	O	
1437	CJ	23.4	23.5	23.6	23.2	C	O	† 2
1438	CJ	26.7	27.7	28.7	28.5	C	O	† 1
1439	CJ	30.3	31.4	31.5	31.4	C	O	
1440	CJ	19.6	19.8	20	20.1	C	O	
1441	CJ	24.3	24.7	25		T	O	
1442	CJ	23.1	23.9	24.7	25	T	O	
1443	CJ	26	26.5	26.9	27.4	T	O	
1444	CJ	29.4	29.8	30.6	30.4	T	O	
1445	CJ	32.4	33.3	34.2	34.1	T	O	
1446	CJ	38.1	39.1	39.5	39.8	T	O	
1447	CJ	23.6	23.6	23.6		T	O	
1448	CJ	25	25.4	25.9	25.8	T	O	
1449	CJ	16.8	16.9	17.1	16.8	T	O	
1450	CJ	24.5				T	O	
1451	CJ	34.7				T	O	
1452	CJ	29.9	31.3	32.2	33	T	O	
1453	CJ	17.7				T	O	
1454	CJ	32.2				T	O	
1455	CJ	22.5	23.1	23.3	23.7	T	O	
1456	CJ	26.8	27.5	28.3	29	T	O	
1457	CJ	28.2				T	O	
1458	CJ	23.4				T	O	
1459	CJ	33.7	34.8	35.2	36.1	T	O	
1460	CJ	18.2	18.6	18.9	19.3	T	O	
1461	CJ	16.6				T	O	
1462	CJ	17.7				T	O	
1463	CJ	17.7				T	O	
1464	CJ	13.2				T	O	
1465	CJ	14.1				T	O	
1466	CJ	26.5				T	O	
1467	CJ	23.6				T	O	
1468	CJ	17.2				T	O	
1469	CJ	18.7	19.3	19.8	20.3	T	O	
1470	CJ	18.8				T	O	
1471	CJ	16				T	O	
1472	CJ	19.7	20.3	20.6	21.8	T	O	
1473	CJ	20.1	20.3	20.5	21	T	O	
1474	CJ	25.2				T	O	

1475	CJ	25.2	25.8	26.2	27	T	O
1476	CJ	20.2				T	O
1477	CJ	20.4				T	O
1478	CJ	33				T	O
1479	CJ	15	15.1	15.2	15.1	T	O
1480	CJ	36.7	37.7	38.5	39.5	T	O
1481	CJ	21.8				T	O
1482	CJ	12.3	12.3	12.3	12.5	T	O
1483	CJ	20.6				T	O
1484	CJ	29.6				T	O
1485	CJ	13.6				T	O
1486	CJ	14.5				T	O
1487	CJ	18.8				T	O
1488	CJ	25.1	26.1	27.1	28.4	T	O
1489	CJ	23.5	24.5	24.7	25.3	T	O
1490	CJ	33.3	34.4	34.1	35.2	T	O
1491	CJ	30.4				T	O
1492	CJ	18				T	O
1493	CJ	23.8				T	O
1494	CJ	27.7				T	O
1495	CJ	30.6	31.6	32.1	32.7	T	O
1496	CJ	17.4				T	O
1497	CJ	23	23.6	24.2	24.5	T	O
1498	CJ	23.4	23.4	24.3	23.3	T	O
1499	CJ	44.6	44.7	45.3	45.9	T	O
1500	CJ	33.9	35.3	36.6	37.3	T	O
1501	CJ	38	39.3	41	41.3	T	O
1502	CJ	33.7	34.8	36.6	36.5	T	O
1503	CJ	20.7	21.3	21.5	22.1	C	O
1504	CJ	15.9	16.2	16.4	16.7	C	O
1505	CJ	25.4				C	O
1506	CJ	20.5	20.7	20.8	20.8	C	O
1507	CJ	17.8	18.1	18.5	18.6	C	O
1508	CJ	22	22.2	22.5	22.7	C	O
1509	CJ	26.8	27	27.5	27.5	C	O
1510	CJ	23.8	24.2	24.7	24.8	C	O
1511	CJ	27.4	28.8	28.7	29.7	C	O
1512	CJ	22	22.3	22.6	22.6	C	O
1513	CJ	27.6	28.6	29.1	29.3	C	O
1514	CJ	26.6	27.5	28.1	28.2	C	O
1515	CJ	21.6	22.1	22.5	22.7	C	O
1516	CJ	25.3	25.9	25.4		C	O
1517	CJ	27.8	28.5	29.2	29.5	C	O
1518	CJ	15.9	15.9	15.9	15.9	C	O
1519	CJ	20.6	20.9	21.2	21.2	C	O
1520	CJ	17	17.6	17.2	17.1	C	O
1521	CJ	24.4	24.8	25.2	25.6	T	O
1522	CJ	40.7	41.4	41.8	42.6	T	O
1523	CJ	18.9				T	O
1524	CJ	22.9				T	O
1525	CJ	25.6	26.3	26.7	27.3	T	O
1526	CJ	28	28.8	29	29.9	T	O
1527	CJ	25.4				T	O
1528	CJ	23.5				T	O
1529	CJ	32.5				T	O

1530	CJ	18.6				T	O	
1531	CJ	13.8				T	O	
1532	CJ	32.2	33.5	34.5	36	T	O	
1533	CJ	12.9				T	O	
1534	CJ	20.3				T	O	
1535	CJ	20.9	21.4	21.8	22.2	T	O	
1536	CJ	11.1				T	O	
1537	CJ	19.7	20.3	20.7	21.2	T	O	
1538	CJ	21.5				T	O	
1539	CJ	20.5	20.8	21.3	21.6	T	O	
1540	CJ	13.2	13.2	13.3	13.1	T	O	
1541	CJ	29.4	30.6	31.5	32.7	T	O	
1542	CJ	24.6				T	O	
1543	CJ	20.8	21.4	21.8	23	T	O	
1544	CJ	40.9				T	O	
1545	CJ	25.5				T	O	
1546	CJ	26.8				T	O	
1547	CJ	21.3				T	O	
1548	CJ	22.8	23.1	23.6	24.1	T	O	
1549	CJ	31.7	32.5	33.5	34.7	T	O	
1550	CJ	22.4				T	O	
1551	CJ	15.6	16	16.3	16.6	T	O	*3
1552	CJ	27				T	O	
1553	CJ	28.8	29.3	30.1	31.4	T	O	
1554	CJ	31	31.5	32	32.7	T	O	
1555	CJ	36.4	37.1	37.6	39	T	O	
1556	CJ	21.9				T	O	
1557	CJ	23.5	24	24.6	25	T	O	
1558	CJ	22.1	22.4	23.3	23.2	T	O	
1559	CJ	20.9	21.4	21.7	21.9	C	O	
1560	CJ	28.5	28.6	28.6	28.4	C	O	
1561	CJ	35	35.9	36.8	36.9	C	O	
1562	CJ	27.6	28.2	28.8	28.7	C	O	
1563	CJ	16.7	16.8	17	16.8	C	O	
1564	CJ	31.1	31.8	32.3	32.3	C	O	
1565	CJ	35.5	36.4	37.2	37.5	C	O	
1566	CJ	25.2	25.8	25.9	26.1	C	O	
1567	CJ	24	24.5	25	24.9	C	O	
1568	CJ	26.8	27.5	28.2	28	C	O	
1569	CJ	27.7	28	28.8	28.9	C	O	
1570	CJ	26.2	26.6	27.1	27.2	C	O	
1571	CJ	23.1	23.3	23.6	23.5	C	O	
1572	CJ	28.5	29.1	29.5	29.9	C	O	
1573	CJ	31.5	32.1	32.8	33.1	C	O	
1574	CJ	14.8	14.8	14.8	14.7	C	O	
1575	CJ	26.8	26.8	26.8	27.1	C	O	
1576	CJ	23.6	23.8	24.2	24.1	C	O	
1577	CJ	19.8	20	20.1	19.9	C	O	
1578	CJ	21.1	21.5	21.6	21.4	C	O	
1579	CJ	25.6	26.3	27.2	27.7	C	O	
1580	CJ	12.6	12.6	12.6	12.6	C	O	
1581	CJ	20.3	20.9	21.1	21.3	C	O	
1582	CJ	15.3	15.5	15.6	15.3	C	O	
1583	CJ	23.3	24.1	24.7	25.2	C	O	
1584	CJ	21.4	21.9	22.4	22.4	C	O	

1585	CJ	15.9	16	16	15.9	C	O
1586	CJ	19.9	20.3	19.9	19.8	C	O
1587	CJ	17.6	17.7	17.7	17.4	C	O
1588	CJ	24.7				T	O
1589	CJ	35.1	36.1	36.7	37.1	T	O
1590	CJ	34.2				T	O
1591	CJ	17.2				T	O
1592	CJ	28.3				T	O
1593	CJ	32.1				T	O
1594	CJ	23.1	24.3	25.1	25.8	T	O
1595	CJ	31.5	32.8	33.8	35	T	O
1596	CJ	28.4				T	O
1597	CJ	12				T	O
1598	CJ	21.3				T	O
1599	CJ	32	33.6	34.7	36.4	T	O
1600	CJ	12.5				T	O
1601	CJ	17.1				T	O
1602	CJ	20.5				T	O
1603	CJ	18.3				T	O
1604	CJ	24	24.8	25.2	25.8	T	O
1605	CJ	20.3				T	O
1606	CJ	18.6				T	O
1607	CJ	19.1				T	O
1608	CJ	29	30.1	30.5	31.2	T	O
1609	CJ	30.4	31.6	32.2	33.4	T	O
1610	CJ	20.4	20.7	20.8	21	T	O
1611	CJ	32	32.2	33.3	34	T	O
1612	CJ	16.8				T	O
1613	CJ	27.7				T	O
1614	CJ	23.3	23.8	24	24.7	T	O
1615	CJ	24				T	O
1616	CJ	13.6				T	O
1617	CJ	23.3	23.8	24.5	25.5	T	O
1618	CJ	24.4				T	O
1619	CJ	27.5				T	O
1620	CJ	19.1				T	O
1621	CJ	23.1				T	O
1622	CJ	16.9				T	O
1623	CJ	29.4				T	O
1624	CJ	24.2				T	O
1625	CJ	27.1	29	30	31.4	T	O
1626	CJ	15.5				T	O
1627	CJ	34.7				T	O
1628	CJ	19.8				T	O
1629	CJ	30.5	31.3	32	33	T	O
1630	CJ	25.4	26.5	26.8	28.4	T	O
1631	CJ	17.7				T	O
1632	CJ	38.2				T	O
1633	CJ	20.8				T	O
1634	CJ	30.5	31.3	31.3	31.6	T	O
1635	CJ	35.4	36.7	36.8	37.9	T	O
1636	CJ	18.8				T	O
1637	CJ	18.2				T	O
1638	CJ	36.7	38	38.5	39.2	T	O
1639	CJ	36.5	37.9	38.4	39.6	C	O

1640	CJ	29.3	30.5	31.3	31.9	C	O
1641	CJ	14.4	14.4	14.4	14.5	C	O
1642	CJ	27.4	28.2	28.6	30.1	C	O
1643	CJ	11.3	11.3	11.3	11.2	C	O
1644	CJ	35.7	36.3	37.5	37.7	C	O
1645	CJ	15.8	15.9	16	15.9	C	O
1646	CJ	24	24.6	24.9	25.1	C	O
1647	CJ	25	25.6	25.6	25.7	C	O
1648	CJ	23.5	24.1	24.2	23.8	C	O
1649	CJ	15.7	15.8	15.8	15.9	C	O
1650	CJ	31	31.8	32.2	32.3	C	O
1651	CJ	26.2	26.8	27.2	27.7	C	O
1652	CJ	24.6	25	25.5	25.7	C	O
1653	CJ	15.6	15.6	15.6	15.5	C	O
1654	CJ	20.2	20.5	20.9	20.7	C	O
1655	CJ	19.1	19.7	20	19.9	C	O
1656	CJ	21.7	21.8	22	22.9	C	O
1657	CJ	28.6	29.7	30.5	30.9	C	O
1658	CJ	17.5	17.6	17.6	17.5	C	O
1659	CJ	31.5	33	33.8	34.4	C	O
1660	CJ	18.1	18.2	18.2	18	C	O
1661	CJ	27.5	28.2	28.4	29.2	C	O
1662	CJ	22.5	23.2	23.9	24	C	O
1663	CJ	20.6	21	21.4	21.6	C	O
1664	CJ	16.5	16.7	16.8	16.7	C	O
1665	CJ	18.1	18.4	18.5	18.2	C	O
1666	CJ	14.9	14.9	14.9	14.6	C	O
1667	CJ	40	42.4	42.6	43	C	O
1668	CJ	22.9	23.4	23.7	23.6	C	O
1669	CJ	26.7	27.3	27.6	27.5	C	O
1670	CJ	35.1	36.5	36.6	36.1	C	O
1671	CJ	26.4	27.3	28.1	28.5	C	O
1672	CJ	28.8	29.1	29.1	29.1	C	O
1673	CJ	31.6	32.4	32.4	31.8	C	O
1674	CJ	14.5	14.8	14.9	14.8	C	O
1675	CJ	20.9	21.2	21.4	22	C	O
1676	CJ	28.2				T	O
1677	CJ	37.8	38.8	39.4	39.8	T	O
1678	CJ	26.6				T	O
1679	CJ	29.5				T	O
1680	CJ	22.3	22.9	23.5	24.5	T	O
1681	CJ	17				T	O
1682	CJ	30.5				T	O
1683	CJ	31.4				T	O
1684	CJ	27.5	29.1	30.5	31.3	T	O
1685	CJ	15.4				T	O
1686	CJ	22.5				T	O
1687	CJ	24				T	O
1688	CJ	30.5	31.7	32.1	33.6	T	O
1689	CJ	28.9				T	O
1690	CJ	26.8				T	O
1691	CJ	18.3				T	O
1692	CJ	21.3	21.9	22.1	22.6	T	O
1693	CJ	28.9	29.7	30.3	30.8	T	O
1694	CJ	27.4	28.6	28.7	29.3	T	O

1695	CJ	21.5	21.9	22.5	22.8	T	O
1696	CJ	21.4				T	O
1697	CJ	21.4				T	O
1698	CJ	25.4				T	O
1699	CJ	19.1	19.7	20.2	20.9	T	O
1700	CJ	22				T	O
1701	CJ	23.2				T	O
1702	CJ	19.4				T	O
1703	CJ	28.4				T	O
1704	CJ	31.4				T	O
1705	CJ	23	23.7	24.1	24.7	T	O
1706	CJ	15.4	15.8	16	16.2	T	O
1707	CJ	13.1	13.3	13.3	13.6	T	O
1708	CJ	17.4				T	O
1709	CJ	33.3				T	O
1710	CJ	34.9	35.4	36.7	37.2	T	O
1711	CJ	25.3				T	O
1712	CJ	40.3	42	43	44.2	T	O
1713	CJ	18.8				T	O
1714	CJ	29.4				T	O
1715	CJ	34.9	35.1	35.3	35.7	T	O
1716	CJ	15.1				T	O
1717	CJ	28.1	28.5	29.1	29.2	T	O
1718	CJ	19.6				T	O
1719	CJ	25.8				T	O
1720	CJ	18.2				T	O
1721	CJ	25.4				T	O
1722	CJ	23.2	23.3	23.3	23	C	O
1723	CJ	25.6	26.3	26.4	27.1	C	O
1724	CJ	40.1	42.2	43.1	44.6	C	O
1725	CJ	27.7	28.5	29.3	29.8	C	O
1726	CJ	24.3	24.4	24.7	24.5	C	O
1727	CJ	20.1	20.6	20.7	20.8	C	O
1728	CJ	20.4	20.8	21.1	21.1	C	O
1729	CJ	23.3	24	24.5	25.2	C	O
1730	CJ	14.4	14.5	14.5	14.3	C	O
1731	CJ	17.8	17.9	18	17.7	C	O
1732	CJ	27.2	28.3	29.3	29.4	C	O
1733	CJ	22	22.7	23.2	23.7	C	O
1734	CJ	20.2	20.6	20.6	20.1	C	O
1735	CJ	28.4				T	O
1736	CJ	19.7	20	20.1	20.1	C	O
1737	CJ	24.4	25	25.5	26	C	O
1738	CJ	25.9	26.7	27.9	28.2	C	O
1739	CJ	19.1	19.4	19.4	19.8	T	O
1740	CJ	11				T	O
1741	CJ	19.1	19.5	19.8	20.2	T	O
1742	CJ	29.9	31	31.8	32.2	T	O
1743	CJ	39.3				T	O
1744	CJ	33.4	34.4	35.5	36	T	O
1745	CJ	18	18.6	19	19	T	O
1746	CJ	21.2	21.6	21.7	22	T	O
1747	CJ	14.5	14.8	14.9	15.5	T	O
1748	CJ	34.5				T	O
1749	CJ	21.4	21.7	22.1	22.5	T	O

1750	CJ	20.5	21.4	21.8	22.6	T	O
1751	CJ	28.5	29.9	30.6	30.8	T	O
1752	CJ	27.7				T	O
1753	CJ	32.6	33.5	34	35.5	T	O
1754	CJ	27.8				T	O
1755	CJ	21.5				T	O
1756	CJ	40.8	42.4	43.5	44.5	T	O
1757	CJ	19.5	20.2	20.7	21.1	T	O
1758	CJ	22.1				T	O
1759	CJ	30.6				T	O
1760	CJ	23.2	24.2	24.9	25.8	T	O
1761	CJ	15	15.1	15.1	15	T	O
1762	CJ	27.8				T	O
1763	CJ	29.5	30.1	29.5	29.8	T	O
1764	CJ	36.1				T	O
1765	CJ	24				T	O
1766	CJ	21.3				T	O
1767	CJ	42.1				T	O
1768	CJ	19.6	19.4	19.6	20.2	T	O
1769	CJ	30.1				T	O
1770	CJ	38.6	40.1	40.9	41.7	T	O
1771	CJ	31.5				T	O
1772	CJ	27				T	O
1773	CJ	24.7	25.3	26	26.7	T	O
1774	CJ	28.9	29.9	30.8	31.5	T	O
1775	CJ	21.1				T	O
1776	CJ	23.8	24.4	25.1	25.7	T	O
1777	CJ	31.8	33	33.9	34.3	T	O
1778	CJ	20	20.6	21.1	21.5	T	O
1779	CJ	27.5	28.3	29.1	29.6	T	O
1780	CJ	13.3				T	O
1781	CJ	29.3	30.4	30.8	31.2	T	O
1782	CJ	24.1	25	24.7	24.9	T	O
1783	CJ	18.7				T	O
1784	CJ	24.9	25.8	26.3	27	T	O
1785	CJ	25.7	26.1	26.5	26.8	T	O
1786	CJ	34.2	39	39.8	40.9	T	O
1787	CJ	24.8	25.2	25.5	25.7	T	O
1788	CJ	23.3				T	O
1789	CJ	26.5	27.2	27.9	28.7	T	O
1790	CJ	21.8	22.4	22.8	23.5	T	O
1791	CJ	28.2				T	O
1792	CJ	26.7				T	O
1793	CJ	25.8	26.7	27.4	28.2	T	O
1794	CJ	32.1	33.1	34	34.9	T	O
1795	CJ	13.8				T	O
1796	CJ	32.1	33	34.1	34.9	T	O
1797	CJ	39.9	40.3	40.7	41.6	T	O
1798	CJ	37				T	O
1799	CJ	22.7				T	O
1800	CJ	28.7	29.2	29.8	30.4	T	O
1801	CJ	24.8				T	O
1802	CJ	34				T	O
1803	CJ	39.4	40.6	41.6	43.1	T	O
1804	CJ	26.3				T	O

1805	CJ	35.5	36.2	36.8	38	T	O
1806	CJ	24.7				T	O
1807	CJ	33.1	33.9	34.8	35.8	T	O
1808	CJ	26.6				T	O
1809	CJ	21.4				T	O
1810	CJ	20.9				T	O
1811	CJ	20.4				T	O
1812	CJ	28.7	28.7	28.9	28.9	T	O
1813	CJ	35	35.4	36.7	36.3	T	O
1814	CJ	25.9				T	O
1815	CJ	40.2	41.3	42	42.9	T	O
1816	CJ	30.5				T	O
1817	CJ	21.9				T	O
1818	CJ	29.4	30.5	31.6	32.3	T	O
1819	CJ	25.3				T	O
1820	CJ	34.7	35.7	36.6	37.4	T	O
1821	CJ	21.5				T	O
1822	CJ	21.4				T	O
1823	CJ	27.2				T	O
1824	CJ	23.2	23.5	23.8	24.6	T	O
1825	CJ	20				T	O
1826	CJ	23.6				T	O
1827	CJ	27	27.6	28.5	29.1	T	O
1828	CJ	24.5				T	O
1829	CJ	28	29.2	29.8	30.7	T	O
1830	CJ	14.7				T	O
1831	CJ	15.5				T	O
1832	CJ	29	29.6	29.9	30.2	T	O
1833	CJ	25.4				T	O
1834	CJ	25.9	27	28	28.7	T	O
1835	CJ	33.6	34.2	34.8	35.7	T	O
1836	CJ	33				T	O
1837	CJ	30.6				T	O
1838	CJ	29				T	O
1839	CJ	35.8				T	O
1840	CJ	14.9				T	O
1841	CJ	30.6	31.2	32.1	32.5	T	O
1842	CJ	25.5				T	O
1843	CJ	27.1	27.8	28	28.7	T	O
1844	CJ	25	25	25.4	25.8	T	O
1845	CJ	22.1				T	O
1846	CJ	13.5	13.3	13.4		T	O
1847	CJ	38.8	39.1	39.3	39.6	T	O
1848	CJ	35.4				T	O
1849	CJ	37.8				T	O
1850	CJ	20.6				T	O
1851	CJ	21.3				T	O
1852	CJ	23.9				T	O
1853	CJ	39.3	40.6	41.5	42.4	T	O
1854	CJ	17				T	O
1855	CJ	26				T	O
1856	CJ	32.9	33.5	34.5	35	T	O
1857	CJ	33.2	34.2	34.8	35.9	T	O
1858	CJ	35.1				T	O
1859	CJ	36.2	37.2	37.9	39	T	O

1860	CJ	16.4				T	O
1861	CJ	37.2	38	38.8	39.7	T	O
1862	CJ	20.3				T	O
1863	CJ	34	34.7	35.7	36.7	T	O
1864	CJ	32.8	33.7	34.5	35.1	T	O
1865	CJ	34.6				T	O
1866	CJ	21.4				T	O
1867	CJ	21.8				T	O
1868	CJ	32				T	O
1869	CJ	15.2				T	O
1870	CJ	31.7				T	O
1871	CJ	42.7				T	O
1872	CJ	22.6				T	O
1873	CJ	26.8				T	O
1874	CJ	24.3				T	O
1875	CJ	42.2	44.3	45.5	46.7	T	O
1876	CJ	37.1				T	O
1877	CJ	35.8	36.9	37.6	38.6	T	O
1878	CJ	19.7				T	O
1879	CJ	33.8				T	O
1880	CJ	26				T	O
1881	CJ	32.6	33.3	33.5	33.8	T	O
1882	CJ	43.1	44.3	44.8	45.6	T	O
1883	CJ	18.4				T	O
1884	CJ	17.7				T	O
1885	CJ	21.6				T	O
1886	CJ	29.8	30.7	31.9	32.6	T	O
1887	CJ	31.9	33.3	34.1	35	T	O
1888	CJ	20.9				T	O
1889	CJ	25.7	26.3	26.9	27.4	T	O
1890	CJ	25				T	O
1891	CJ	34.3	35.2	36.4	36.8	T	O
1892	CJ	17.1				T	O
1893	CJ	23.5				T	O
1894	CJ	25.5	25.8	26.6	27	T	O
1895	CJ	27.9	28	28	27.6	T	O

*1 Position of measurement was changed in nov. 2014.

*2 Position of measurement was changed in nov. 2013.

*3 Measured over vines

*4 Missed measurement

†1 Surface of stem was flawed or barked.

†2 There is a break in upper part of the trunk.