

# CATA Curricular Code Change Proposal

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<b>Contest:</b>	Forestry
<b>Proposed by:</b> (Name, School, Email)	Matt Pritchard, Red Bluff HS, mpritcha@rbhsd.org

<b>Issue:</b> (Describe the reason/rationale for the proposed change.)
Clarifying details

**Please answer yes or no to ALL the questions below.**

This proposal will require a contest to open out of rotation	no
The change will affect General Rules	no
The change will affect the awards needed.	no
The proposed change will affect tabulations/scorecards	no
The proposed change will affect contest forms.	no
The proposed change will affect contest hosting site. (e.g. additional facilities, new sections, additional scoring, etc.)	no

**If you answered yes to any of the above questions, you need to include the following signatures: [Click here](#) for link to CDE Contest Advisor and Coordinator list.**

CATA Approved Contest Advisor's Signature	
CDE Host Site Contest Coordinator's Signature	

**If you answered yes to any of the above questions, please explain.**

\*It is highly recommended that you, or a representative, attend the pre-conference governing board meeting to answer any questions regarding proposed curricular code changes to contests that are requested to be opened out of rotation.

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**Description:** (Describe what is changing.)

All of the proposed changes are details that have always been question at contests. These changes will clarify the answers for these issues.

**Proposed CATA Code Change:** (Only include the section that the proposed change pertains to – do not include the entire contest. Reference numbered section. If editing text, show new text with old text in parenthesis. For large changes, set track changes in the Word document and attach the file, with edits, to this document when submitting.)

Changes are attached

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  - [Click Here](#) for contest Host and Advisor List
- Email completed Curricular Change Proposal **PDF** to [cata@calagteachers.org](mailto:cata@calagteachers.org) by June 1st.

**Warning:** Make sure you add all the topics or concerns you would like to discuss at the Curricular Code CDE meeting. If it's not posted on the CATA Curricular Code Changes website by June 1st, it **cannot** be discussed.

AREA 7	Tree Height	<del>20</del> 30	30	120
	Diameter	<del>20</del> 30	40	160
	Log Scaling	<del>20</del> 30	30	120

A. AREA 6 Graph and Table Interpretation: 50 points total.

2 Board foot volume

- a) The dbh and height for three trees will be given.
- b) Board foot volume will be determined using a volume table in units of Scribner's Decimal C, **board foot volume.**

X. Timber Measurements (Skillset IV)

A. AREA 7 Timber Measurement

1. Tree Height

- a) Contestants will measure tree heights on two trees **to the very top of the tree.**
2. The clinometer will be used on one tree for total height, and either a logger's tape or a one hundred (100) foot tape will be used for measuring distance from the tree. Answers will be given in feet.
3. The Merritt Hypsometer will be used on one tree for number logs, and either a logger's tape or a one hundred (100) foot tape will be used for measuring distance from the tree. Answers will be given in logs and ½ logs. When reading the hypsometer; answers will always be rounded down to the nearest half logs.
4. Scoring Information
  - a) Time allowed: ~~40~~ 30 minutes.

5. Tree Diameter

- a) Contestants will measure four (4) trees for diameters. Diameter will be determined at dbh (4.5 ft.).
- b) Trees A & B will be measured with a Biltmore Stick
- c) Trees C & D will be measured with a diameter tape to the nearest 0.1 in.
- d) Scoring Information
  - (1) Time allowed: ~~40~~ 30 minutes.
  - (2) Total points for this event: 40.
  - (3) Scoring: Ten points will be scored for each diameter. One point will be deducted for each two (2) inches of error for trees measured with a Biltmore Stick **½ points will not be used.** One

point will be deducted for each 0.1 inch of error for the trees measured with a diameter tape.

6. Log Scaling (Appendix F)

- a) A Scribner's Decimal C log scaling stick will be used.
- b) The answer will be given in board feet. A log defect may be indicated and will be identified by its volume in either board feet or in Scribner's Decimal C.
- c) No odd length logs will be used. If rounds are used for diameters, two rounds should be used, one for the small end and one for the large end. The log length will be given in even footage. Length rules are included in Appendix F. Rules for butt logs are also provided in Appendix F. If the contest is giving butt logs, this needs to be indicated on the log or score sheet clearly to the contestant.
- d) Scoring Information
  - (1) Time allowed: ~~10~~ 30 minutes.
  - (2) Total points for this event: 30.
  - (3) Scoring: Two logs will be measured at 15 points each. One point will be deducted for each 10 bd. ft. of error.

B. Compass and Tape Measurement – Team Event

1. The four (4) team members will be given data for a four-sided traverse.
2. Compass bearings will be to the nearest one (1) degree.
3. The traverse will be set up by the judge with a staff compass, transit or an advanced technique that is superior to a transit. If the course is laid out with a compass, bearings will be true bearings and the compass used will be adjusted for declination.

Contestants will be supplied with a Silva hand bearing compass and a 100 foot tape. All

Appendix H – Volume Table **insert Form class 65, delete Form Class 80**

<b>FORM CLASS 65</b>											
<b>TABLE 34.—Gross volume of tree, Scribner log rule</b>											
Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	16	19	22								
11	22	27	32								
12	28	35	42	46	50						
13	36	45	54	60	66						
14	43	55	67	75	83						
15	52	67	82	93	104						
16	61	79	97	111	125	133	141				
17	71	92	114	131	148	158	168				
18	81	106	132	151	170	183	196				
19	92	122	152	175	198	213	228				
20	104	138	173	200	226	243	260	273	286		
21	116	156	195	226	256	276	297	314	330		
22	129	173	217	252	287	310	334	354	375		
23	143	192	242	282	322	348	373	398	424		
24	157	212	267	312	356	384	412	442	472		
25	172	233	294	344	393	426	460	492	525		
26	187	254	320	375	430	468	507	542	578		
27	204	277	350	411	472	514	556	596	637		
28	221	300	380	446	513	559	605	650	696	737	778
29	239	326	412	484	557	606	656	708	760	808	857
30	257	350	444	522	601	654	708	766	825	880	936
31	276	378	479	565	651	711	771	832	894	957	1,020
32	296	405	514	608	701	768	834	898	962	1,033	1,104
33	316	434	551	652	753	826	898	967	1,036	1,114	1,193
34	337	462	588	696	805	883	961	1,036	1,110	1,196	1,282
35	360	495	630	747	864	948	1,032	1,113	1,194	1,284	1,373
36	382	527	672	797	922	1,012	1,102	1,190	1,279	1,372	1,464
37	406	560	714	850	986	1,082	1,178	1,275	1,372	1,470	1,568
38	429	592	756	902	1,049	1,151	1,253	1,358	1,464	1,568	1,672
39	454	628	803	958	1,113	1,224	1,334	1,443	1,552	1,663	1,774
40	478	664	850	1,014	1,177	1,296	1,414	1,526	1,639	1,757	1,875

# FORM CLASS 80

TABLE 49.—Gross volume of tree, Scribner log rule

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10.....	30	38	47	52	57	-----	-----	-----	-----	-----	-----
11.....	40	52	64	72	80	-----	-----	-----	-----	-----	-----
12.....	50	65	80	91	102	108	115	-----	-----	-----	-----
13.....	62	82	101	116	130	139	148	-----	-----	-----	-----
14.....	74	98	122	140	158	170	181	-----	-----	-----	-----
15.....	88	117	146	169	192	208	223	-----	-----	-----	-----
16.....	101	136	170	198	226	246	265	-----	-----	-----	-----
17.....	116	156	197	230	264	288	312	-----	-----	-----	-----
18.....	131	178	224	263	302	330	359	-----	-----	-----	-----
19.....	148	202	256	300	345	378	411	-----	-----	-----	-----
20.....	166	226	287	338	388	426	463	492	522	-----	-----
21.....	185	254	322	379	436	480	523	558	594	-----	-----
22.....	204	280	357	420	484	534	583	624	666	-----	-----
23.....	226	311	396	468	540	594	648	697	746	-----	-----
24.....	248	342	435	515	595	654	712	770	827	-----	-----
25.....	272	376	479	568	656	722	788	852	917	-----	-----
26.....	296	410	523	620	716	790	865	936	1,007	-----	-----
27.....	322	446	570	677	784	865	946	1,025	1,104	-----	-----
28.....	348	482	617	734	851	940	1,028	1,114	1,200	1,278	1,357
29.....	376	522	667	794	921	1,017	1,113	1,210	1,306	1,396	1,487
30.....	403	560	717	854	991	1,094	1,198	1,306	1,413	1,515	1,617
31.....	434	604	773	922	1,072	1,186	1,300	1,413	1,526	1,640	1,755
32.....	464	646	829	991	1,153	1,278	1,402	1,520	1,639	1,766	1,893
33.....	495	690	886	1,061	1,236	1,370	1,504	1,632	1,761	1,900	2,038
34.....	526	735	944	1,131	1,318	1,462	1,607	1,745	1,883	2,034	2,184
35.....	559	783	1,007	1,208	1,408	1,563	1,718	1,868	2,018	2,175	2,332
36.....	592	831	1,070	1,284	1,498	1,664	1,830	1,992	2,153	2,317	2,481
37.....	628	882	1,136	1,366	1,597	1,774	1,950	2,126	2,302	2,475	2,648
38.....	665	934	1,203	1,450	1,696	1,883	2,070	2,260	2,451	2,634	2,816
39.....	703	989	1,275	1,536	1,796	1,998	2,200	2,396	2,593	2,788	2,984
40.....	741	1,044	1,347	1,622	1,897	2,113	2,329	2,532	2,735	2,944	3,153

# CATA Curricular Code Change Proposal

<b>Contest:</b>	Forestry
<b>Proposed by:</b> (Name, School, Email)	Katie Alling, Nevada Union, kalling@njuhsd.com

<b>Issue:</b> (Describe the reason/rationale for the proposed change.)
Competitors have expressed a need to have a ruler and a display of needles for plant ID.

**Please answer yes or no to ALL the questions below.**

This proposal will require a contest to open out of rotation	No
The change will affect General Rules	No
The change will affect the awards needed.	No
The proposed change will affect tabulations/scorecards	No
The proposed change will affect contest forms.	No
The proposed change will affect contest hosting site. (e.g. additional facilities, new sections, additional scoring, etc.)	Not really- add rulers and tape out needle displays for ID component..

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CDE Host Site Contest Coordinator's Signature	

**If you answered yes to any of the above questions, please explain.**

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**Description:** (Describe what is changing.)

Students would be able to use a ruler for identification.

If contestants are not permitted to touch plant samples, some plants (pine trees) would have a typical bundle taped on a 3x5 card so students can easily count the needles and see the length.

**Proposed CATA Code Change:** (Only include the section that the proposed change pertains to – do not include the entire contest. Reference numbered section. If editing text, show new text with old text in parenthesis. For large changes, set track changes in the Word document and attach the file, with edits, to this document when submitting.)

I. Identification (Skillset I)

A. AREA 1 Plant Identification (Appendix A)

1. Fifty specimens from the Plants Identification list in Appendix A will be displayed.

2. Fresh foliage is preferred and if fruit, flowers or cones are available they will be part of the identification specimen. Otherwise cones, fruit or flower, and stems shall be used with a pressed specimen (no more than five pressed items are allowed).

3. The list in Appendix A and the score card shall list plants by scientific name, in alphabetical order, with common names listed on the right.

4. Fruit and/or cones can be displayed by themselves if they are underlined in the plant list (not to exceed five fruits and/or cones on the contest).

5. If contestants are not permitted to touch plant samples, needled plants should have a typical group displayed by taping to a 3x5 card next to the sample so needle length and other features can be observed.

6. Students are permitted to use a ruler.

7.5. Scoring Information

a) Time allowed: 30 minutes.

b) Total points for this event: 100.

8. 6-- Scoring: 2 points for each correctly identified plant species.



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<b>Contest:</b>	Forestry
<b>Proposed by:</b> (Name, School, Email)	Katie Alling, Nevada Union, kalling@njuhsd.com

<b>Issue:</b> (Describe the reason/rationale for the proposed change.)
The host site has noted an obsolete dendrology list and provided an updated list.

**Please answer yes or no to ALL the questions below.**

This proposal will require a contest to open out of rotation	No
The change will affect General Rules	No
The change will affect the awards needed.	No
The proposed change will affect tabulations/scorecards	No
The proposed change will affect contest forms.	Not Really - ID form only not judging card.
The proposed change will affect contest hosting site. (e.g. additional facilities, new sections, additional scoring, etc.)	No

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The coded list would need to be updated. Not the judging card.
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**Description:** (Describe what is changing.)

The dendrology list would be updated to current names of plants.

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See attached documents.

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Appendix A -- Plant Identification List

1	<u><i>Abies concolor</i></u>	white fir
2	<i>Abies magnifica</i>	red fir
3	<i>Abies grandis</i>	grand fir
4	<del><i>Acer negundo californicum</i></del>	California box-elder
5	<i>Acer macrophyllum</i>	big-leaf maple
6	<i>Adenostoma fasciculatum</i>	chamise
7	<u><i>Aesculus californica</i></u>	California buckeye
8	<i>Alnus rhombifolia</i>	white alder
9	<i>Alnus rubra</i>	red alder
10	<i>Arbutus menziesii</i>	Pacific madrone
11	<i>Arctostaphylos</i> spp.	manzanita (California native)
12	<i>Baccharis pilularis</i>	coyote brush
13	<del><i>Betula papyrifera occidentalis</i></del>	paper-water birch
14	<u><i>Calocedrus decurrens</i></u>	incense cedar
15	<del><i>Castanopsis Chrysolepis chrysophylla</i></del>	golden chinkapin
16	<i>Ceanothus cuneatus</i>	buckbrush
17	<i>Ceanothus integerrimus</i>	deer brush
18	<i>Ceanothus leucodermis</i>	chaparral whitethorn
19	<i>Cercis occidentalis</i>	western redbud
20	<i>Cercocarpus betuloides</i>	mountain mahogany
21	<i>Chamaebatia foliolosa</i>	Sierra mountain misery
22	<u><i>Chamaecyparis lawsoniana</i></u>	Port Orford-cedar
23	<i>Cornus nuttallii</i>	Pacific dogwood
24	<del><i>Cupressus Hesperocyparis macrocarpa</i></del>	Monterey cypress
25	<i>Eriodictyon</i> spp.	yerba santa
26	<i>Fraxinus latifolia</i>	Oregon ash
27	<i>Fremontodendron californica</i>	flannelbush
28	<i>Heteromeles arbutifolia</i>	toyon
29	<u><i>Juglans californica</i></u>	California black walnut
30	<i>Juniperus californica</i>	California juniper
31	<del><i>Lithocarpus</i></del> <i>Notholithocarpus densiflorus</i>	tanoak or tanbark oak
32	<i>Lupinus</i> spp. (albifrons or arboreus)	bush lupine or tree lupine
33	<del><i>Mahonia</i></del> <i>Berberis aquifolium</i>	Oregon grape
34	<del><i>Mimulus Diplacus</i></del> spp.	monkey flower (California native, shrub)
35	<u><i>Picea sitchensis</i></u>	Sitka spruce
36	<i>Pinus attenuata</i>	knobcone pine
37	<i>Pinus contorta</i>	lodgepole pine
38	<i>Pinus coulteri</i>	Coulter pine
39	<i>Pinus jeffreyi</i>	Jeffrey pine

**Commented [JJR1]:** If you reject all of my suggested changes, the list and names are all as they were originally but with correct spelling, capitalization, and italicization.

Capitalization is according to how the names would be written in text and not titles; students generally have a problem with over-capitalizing common names so it's good to start them early with proper capitalization.

I'll include comments for all of my suggested changes to the names themselves.

There are several name updates that make this list no longer in alphabetical order. I've fixed that for the other document, but it messes with the track changes to do it here. Likewise, some of the spacing is off because I can't see it well with track changes activated.

Suggested updates are according to the Jepson eFlora, up through the Dec 2022 revision.

**Commented [JJR2]:** Current Jepson notes the subspecies but does not accept it. Hosts will have a difficult time ensuring that they have collected a pure *Acer negundo* ssp. *californicum* as eastern genotypes have been planted throughout California and may have crossed with the native genotypes.

**Commented [JJR3]:** See Rosa comment

**Commented [JJR4]:** Every other plant on this list is native to California, so I assume that the inclusion of a nonnative *Betula* was an oversight.

However, *Betula occidentalis* is difficult to source, and *Betula papyrifera* is easily found in many urban areas [1]

**Commented [JJR5]:** Genus update; I'm not sure when.

**Commented [JJR6]:** Genus update

**Commented [JJR7]:** All *Eriodictyon* species are native to California, so no need to leave that comment here

**Commented [JJR8]:** To differentiate between species with multiple names, and genera with multiple options of species to choose from.

**Commented [JJR9]:** The common names are of two species; may as well call them out.

**Commented [JJR10]:** Genus update, but still under debate. The Jepson uses *Berberis*.

**Commented [JJR11]:** Genus update

**Commented [JJR12]:** There are a lot of *Diplacus* species; unless you want them to learn them all I think it's a good idea to specify the California shrub species.

- 40 *Pinus lambertiana* sugar pine
- 41 *Pinus monophylla* singleleaf pinyon pine
- 42 *Pinus monticola* western white pine
- 43 *Pinus muricata* Bishop pine
- 44 *Pinus ponderosa* ponderosa ~~or~~ yellow pine
- 45 *Pinus radiata* Monterey pine
- 46 *Pinus sabiniana* foothill pine ~~or~~ grey pine
- 47 *Pinus torreyana* Torrey pine
- 48 *Platanus racemosa* California sycamore
- 49 *Populus fremontii* Frémont cottonwood
- 50 *Populus trichocarpa* black cottonwood
- 51 *Populus tremuloides* quaking aspen
- 52 *Pseudotsuga menziesii* Douglas-fir
- 53 *Pteridium aquilinum* bracken fern
- 54 *Quercus agrifolia* ~~California~~ coast live oak
- 55 *Quercus chrysolepis* canyon live oak
- 56 *Quercus douglasii* blue oak
- 57 *Quercus kelloggii* California black oak
- 58 *Quercus lobata* valley oak
- 59 *Quercus wislizeni* interior live oak
- 60 *Rhamnus* spp. coffee berry
- 61 *Rhododendron occidentale* western azalea
- 62 *Ribes* spp. currant or gooseberry (California native)
- 63 *Rosa* spp. ~~California wild rose~~ (California native)
- 64 *Rubus parvifolius**parviflorus* thimbleberry
- 65 *Salix* spp. ~~native willow~~ (California native)
- 66 *Sambucus ~~caerulea~~ mexicana* blue elderberry
- 67 *Sequoiadendron giganteum* giant sequoia
- 68 *Sequoia sempervirens* coast redwood
- 69 *Taxus brevifolia* western yew
- 70 *Thuja plicata* western redcedar
- 71 *Torreya californica* California nutmeg
- 72 *Tsuga* spp. mountain hemlock or western hemlock
- 73 *Umbellularia californica* California bay laurel
- 74 *Woodwardia fimbriata* giant chain fern

\*Fruits and/or cones may be displayed by themselves from the plants that are underlined.

Commented [JJR13]: See tanoak comment

Commented [JJR14]: See tanoak comment

Commented [JJR15]: Either "California live oak" or "coast live oak"; I use and prefer the latter.

Commented [JJR16]: Adding native to this one because there are A LOT of nonnative options

Commented [JJR17]: "California wild rose" refers to a species (*Rosa californica*) so if you want to ensure the hosts specifically use a wild rose I think it's better to call it out in parenthetical.

Commented [JJR18]: *Rubus parvifolius* is the Australian raspberry, so I'm pretty sure you intended *Rubus parviflorus* here.

Commented [JJR19]: Same as the *Rosa* comment.

Commented [JJR20]: This one has flipfopped a few times between *S. mexicana*, *S. caerulea*, *S. nigra* ssp. *caerulea* but as of Dec 2022 it's back to *Sambucus mexicana*

Every other plant on this list is native to California, so I assume that the inclusion of a nonnative *Betula* was an oversight.

However, *Betula occidentalis* is difficult to source, and *Betula papyrifera* is easily found in many urban areas, so if the organizers are not wed to the idea of an entirely California-native list, you may choose to keep *Betula papyrifera*.