

**Technical Committee**

**TC/57/20**

**Fifty-Seventh Session  
Geneva, October 25 and 26, 2021**

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**PARTIAL REVISION OF THE TEST GUIDELINES FOR ACTINIDIA**

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1. The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for Actinidia (document TG/98/7 Rev. Corr.).
2. The background to the proposed partial revision of the Test Guidelines for Actinidia is presented in document TC/57/2 “Test Guidelines”.
3. The Technical Working Party for Fruit Crops (TWF), at its fifty-second session<sup>1</sup>, considered a proposal for a partial revision of the Technical Questionnaire (TQ) of the Test Guidelines for Actinidia (*Actinidia* Lindl.) on the basis of document TWP/5/13 “Revision of Test Guidelines”, paragraph 17 and Annex XV. The TWF agreed to propose the inclusion of the following characteristics in the TQ (characteristics for inclusion indicated in highlight and underline) (see document TWF/52/10 “Report”, paragraph 88):

<b>Char. No.</b>	<b>(*)</b>	<b>Characteristic Name</b>
13	(*)	<u>Stem: presence of bud cover</u>
14	(*)	<u>Stem: size of hole in bud cover</u>
17	(*)	<u>Leaf blade: shape</u>
19	(*)	<u>Leaf blade: shape of apex</u>
42		<u>Petal: main color on adaxial side</u>
46		<u>Anther: color</u>
47	(*)	Fruit: weight
51	(*)	Fruit: shape
52	(*)	<u>Fruit: shape in cross section (at median)</u>
53	(*)	Fruit: stylar end
56	(*)	<u>Fruit: shape of shoulder at stalk end</u>
60	(*)	Fruit: hairiness of skin
64	(*)	<u>Fruit: color of skin</u>
66	(*)	Fruit: color of outer pericarp
67	(*)	Fruit: color of locules
72	(*)	<u>Fruit: color of core</u>
75	(*)	<u>Time of vegetative bud burst</u>
76	(*)	Time of beginning of flowering
77	(*)	Time of maturity for harvest

4. The proposed additions to TQ 5 are presented in highlight and underline.

<sup>1</sup> hosted by China and organized by electronic means, from July 12 to 16, 2021

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5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

Characteristics	Example Varieties	Note
<b>5.1 Time of beginning of flowering (for all varieties)</b> <b>(76)</b>		
very early		1[ ]
very early to early		2[ ]
early	Hort16A (A), Yukimusume (B)	3[ ]
early to medium		4[ ]
medium	Abbott (A), Kousui (B)	5[ ]
medium to late		6[ ]
late	Hayward (A)	7[ ]
late to very late		8[ ]
very late		9[ ]
<b>5.2 Stem: presence of bud cover</b> <b>(13)</b>		
<u>absent</u>	<u>Hort16A (A), Kousui (B)</u>	<u>1[ ]</u>
<u>present</u>	<u>Hayward (A), Mitsukou (B)</u>	<u>9[ ]</u>
<b>5.3 Stem: size of hole in bud cover</b> <b>(14)</b>		
<u>small</u>	<u>Abbott (A), Mitsukou (B)</u>	<u>1[ ]</u>
<u>medium</u>	<u>Hayward (A), r-Awaji (B)</u>	<u>2[ ]</u>
<u>large</u>	<u>Elmwood (A), r-Nagano (B)</u>	<u>3[ ]</u>
<b>5.4 Leaf blade: shape</b> <b>(17)</b>		
<u>lanceolate</u>	<u>Kaimai (A)</u>	<u>1[ ]</u>
<u>ovate</u>	<u>Hayward (A)</u>	<u>2[ ]</u>
<u>obovate</u>	<u>Bruno (A)</u>	<u>3[ ]</u>

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Characteristics	Example Varieties	Note
<b>5.5</b> <b>(19)</b> <b><u>Leaf blade: shape of apex</u></b>		
<u>caudate</u>	<u>Hortgem Tahi (B)</u>	<u>1</u> <input type="checkbox"/>
<u>acuminate</u>	<u>Kaimai (A), Yukimusume (B)</u>	<u>2</u> <input type="checkbox"/>
<u>acute</u>	<u>Hayward (A)</u>	<u>3</u> <input type="checkbox"/>
<u>emarginate with cuspidate</u>		<u>4</u> <input type="checkbox"/>
<u>rounded</u>	<u>Satoizumi (B)</u>	<u>5</u> <input type="checkbox"/>
<u>retuse</u>	<u>Shinzan (B)</u>	<u>6</u> <input type="checkbox"/>
<u>emarginate</u>	<u>Kuimi (A)</u>	<u>7</u> <input type="checkbox"/>
<b>5.6</b> <b>(42)</b> <b><u>Petal: main color on adaxial side</u></b>		
<u>white</u>	<u>Hayward (A), Shinzan (B)</u>	<u>1</u> <input type="checkbox"/>
<u>greenish white</u>	<u>Hortgem Tahi (B), Satoizumi (B)</u>	<u>2</u> <input type="checkbox"/>
<u>yellowish white</u>	<u>Bruce (A), Mitsukou (B)</u>	<u>3</u> <input type="checkbox"/>
<u>yellowish green</u>		<u>4</u> <input type="checkbox"/>
<u>yellow</u>		<u>5</u> <input type="checkbox"/>
<u>light pink</u>		<u>6</u> <input type="checkbox"/>
<u>red pink</u>		<u>7</u> <input type="checkbox"/>
<u>red</u>		<u>8</u> <input type="checkbox"/>
<b>5.7</b> <b>(46)</b> <b><u>Anther: color</u></b>		
<u>yellow</u>	<u>r-Nagano (B)</u>	<u>1</u> <input type="checkbox"/>
<u>yellow orange</u>	<u>Bruce (A)</u>	<u>2</u> <input type="checkbox"/>
<u>grey</u>		<u>3</u> <input type="checkbox"/>
<u>dark purple</u>	<u>Mitsukou (B)</u>	<u>4</u> <input type="checkbox"/>
<u>black</u>	<u>a-Shouwa (B)</u>	<u>5</u> <input type="checkbox"/>

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Characteristics	Example Varieties	Note
<b>5.2 8</b> <b>(47)</b>	<b>Fruit: weight (for female and hermaphrodite varieties)</b>	
very low		1[ ]
very low to low		2[ ]
low	Huaguang2 (A)	3[ ]
low to medium		4[ ]
medium	Hort16A (A), Hortgem Tahī (B), Tomua (A)	5[ ]
medium to high		6[ ]
high	Hayward (A), Jin Feng (A)	7[ ]
high to very high		8[ ]
very high	Jade Moon (A)	9[ ]
<b>5.3 9</b> <b>(51)</b>	<b>Fruit: shape (for female and hermaphrodite varieties)</b>	
ovate	Hort16A (A), Jecy Gold (A), Yamagatamusume (B)	1[ ]
oblong	Hortgem Toru (B), Wilkins Super (A)	2[ ]
elliptic	Hayward (A), Mitsukou (B)	3[ ]
circular	Hort51-1785 (A)	4[ ]
oblate	Kuimi (A), Shinzan (B)	5[ ]
obovate	Monty (A)	6[ ]
<b>5.10</b> <b>(52)</b>	<b>Fruit: shape in cross section (at median)</b>	
<u>circular</u>	<u>Bruno (A), Mitsukou (B)</u>	<u>1[ ]</u>
<u>oblate</u>	<u>Hortgem Tahī (B), Kousui (B), Wilkins Super (A)</u>	<u>2[ ]</u>
<u>transverse elliptic</u>	<u>Hayward (A)</u>	<u>3[ ]</u>
<b>5.4 11</b> <b>(53)</b>	<b>Fruit: stylar end (for female and hermaphrodite varieties)</b>	
strongly depressed		1[ ]
weakly depressed	Jade Moon (A)	2[ ]
flat	Hayward (A), Satoizumi (B)	3[ ]
rounded	Kousui (B), Tomua (A)	4[ ]
weakly blunt protruding	Skelton (A)	5[ ]
strongly blunt protruding	Hort16A (A)	6[ ]
pointed protrusion	Hortgem Toru (B)	7[ ]

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Characteristics	Example Varieties	Note	
<b>5.12</b>	<b>Fruit: shape of shoulder at stalk end</b>		
<b>(56)</b>			
<u>truncate</u>	<u>Hortgem Tahi (B), Mitsukou (B)</u>	<u>1[ ]</u>	
<u>weakly sloping</u>	<u>Hayward (A), Kousui (B)</u>	<u>2[ ]</u>	
<u>strongly sloping</u>	<u>Skelton (A)</u>	<u>3[ ]</u>	
<b>5.5 13</b>	<b>Fruit: hairiness of skin (for female and hermaphrodite varieties)</b>		
<b>(60)</b>			
absent	Shinzan (B), a-Shouwa (B)	1[ ]	
present	Hayward (A)	9[ ]	
<b>5.14</b>	<b>Fruit: color of skin</b>		
<b>(64)</b>			
<u>light green</u>	<u>Hortgem Rua (B)</u>	<u>1[ ]</u>	
<u>medium green</u>	<u>Hortgem Tahi (B), Mitsukou (B)</u>	<u>2[ ]</u>	
<u>reddish green</u>		<u>3[ ]</u>	
<u>yellow</u>		<u>4[ ]</u>	
<u>greenish brown</u>	<u>Hayward (A), Shinzan (B)</u>	<u>5[ ]</u>	
<u>reddish brown</u>		<u>6[ ]</u>	
<u>light brown</u>	<u>Hort16A (A)</u>	<u>7[ ]</u>	
<u>medium brown</u>	<u>Sanuki Gold (A)</u>	<u>8[ ]</u>	
<u>dark brown</u>	<u>Kousui (B), Tomua (A)</u>	<u>9[ ]</u>	
<u>purple red</u>		<u>10[ ]</u>	
<b>5.6 15</b>	<b>Fruit: color of outer pericarp (for female and hermaphrodite varieties)</b>		
<b>(66)</b>			
light green	Shinzan (B)	1[ ]	
medium green	Hayward (A)	2[ ]	
dark green	Hortgem Toru (B)	3[ ]	
greenish yellow	Hort22D (A), Satoizumi (B)	4[ ]	
medium yellow	Hort16A (A), Kousui (B)	5[ ]	
dark yellow	Hort51-1785 (A)	6[ ]	
yellowish orange		7[ ]	
orange		8[ ]	
red		9[ ]	
red purple		10[ ]	

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Characteristics	Example Varieties	Note
<b>5.7.16</b> <b>Fruit: color of locules (for female and hermaphrodite varieties)</b> <b>(67)</b>		
light green	Shinzan (B)	1[ ]
medium green	Hayward (A), Hortgem Tahī (B)	2[ ]
dark green	Hortgem Toru (B)	3[ ]
greenish yellow	Satoizumi (B)	4[ ]
medium yellow	Hort16A (A), Kousui (B)	5[ ]
dark yellow	Hort51-1785 (A)	6[ ]
red	Hort22D (A), Hortgem Rua (B)	7[ ]
red purple		8[ ]
<b>5.17</b> <b>Fruit: color of core</b> <b>(72)</b>		
white	Hort22D (A)	1[ ]
greenish white	Hayward (A), Hortgem Tahī (B)	2[ ]
yellow white	Hort16A (A), Shinzan (B)	3[ ]
red purple		4[ ]
<b>5.18</b> <b>Time of vegetative bud burst</b> <b>(75)</b>		
very early	Hort16A (A), Hortgem Rua (B)	1[ ]
very early to early		2[ ]
early	Tomua (A), Yukimusume (B)	3[ ]
early to medium		4[ ]
medium	Hayward (A), Shinzan (B)	5[ ]
medium to late		6[ ]
late	Mitsukou (B)	7[ ]
late to very late		8[ ]
very late		9[ ]

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Characteristics	Example Varieties	Note
<b>5.8 19</b> <b>(77)</b>		
very early	Hortgem Rua (B)	1[ ]
very early to early		2[ ]
early	Hort 22D (A), Hortgem Tahī (B), Yamagatamusume (B)	3[ ]
early to medium		4[ ]
medium	Kousui (B), Tomua (A)	5[ ]
medium to late		6[ ]
late	Hayward (A), Yukimusume (B)	7[ ]
late to very late		8[ ]
very late		9[ ]

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