

Table S1. Average full flowering date (FFD) and ripening date (RD) for the cultivars analyzed (148 and 86, respectively). In addition, range of variation and cluster classification for FFD and RD for each cultivar.

Code	Cultivar	FFD				RD			
		Group	Avg ----- (DOY)-----	Max	Min	Group	Avg ----- (DOY)-----	Max	Min
1	Abbadí Shalal	F8	122.2	125.0	119.0				
2	Abou Satl Mohazam	F5	120.4	125.0	116.0	R3	290.3	304.5	268.0
3	Adramitini or Ayvalik	F7	121.3	124.7	116.8	R3	289.6	305.6	264.6
4	Alameño Blanco	F5	120.3	124.0	117.0				
5	Alameño de Cabra	F5	120.0	123.0	117.5	R3	288.5	296.5	275.7
6	Alameño de Montilla	F6	120.9	123.4	119.0				
7	Alfafara	F8	121.8	123.7	119.5	R8	315.7	332.3	297.3
8	Aloreña de Iznalloz	F5	120.2	124.0	117.0				
9	Amygdalolia Nana	F6	120.8	125.0	115.0				
10	Arbequina	F3	119.6	123.7	114.5	R8	314.5	334.9	287.0
11	Argudell	F7	121.3	125.0	118.5				
12	Arroniz	F2	119.0	125.0	116.0				
13	Ascolana Tenera	F9	123.3	126.5	119.0				
14	Asnal	F8	122.4	125.0	119.0				
15	Azapa	F7	121.2	124.0	119.0				
16	Azul	F7	121.1	124.0	116.0	R7	309.0	320.5	298.0
17	Azulejo	F5	120.2	123.0	117.0	R5	300.7	320.3	268.0
18	Barnea	F9	122.9	126.0	117.5				
19	Beladí	F7	121.4	124.0	118.5	R7	309.5	325.3	293.5
20	Belluti	F6	121.0	125.0	115.3	R6	306.0	317.0	287.3
21	Blanqueta	F10	123.8	128.5	118.3	R5	300.1	313.3	280.8
22	Bolvino	F8	122.1	124.8	119.5	R2	284.9	303.4	275.3
23	Borriolenca	F1	114.9	118.5	111.0	R6	304.0	346.0	282.7
24	Bouteillan	F3	119.7	123.0	116.0	R10	326.6	341.0	311.0
25	Buidiego	F5	120.3	123.0	118.0				
26	Caballo	F9	123.2	126.0	119.0	R6	307.0	317.3	293.5
27	Callosina	F5	120.5	123.1	118.3	R6	303.8	318.9	280.0
28	Canetera	F1	116.3	121.0	113.0	R6	302.5	313.5	280.0
29	Caninese					R7	312.8	334.0	298.0
30	Cañivano Negro	F6	120.7	125.0	116.0	R10	329.1	349.5	307.3
31	Carrasqueño de Alcaudete	F8	121.8	125.0	119.0				
32	Carrasqueño de la Sierra	F8	121.9	125.0	117.5				
33	Carrasquillo	F9	123.0	125.0	119.0				
34	Changlot Real	F7	121.2	125.0	116.0	R6	305.1	329.0	287.0
35	Chetoui	F4	119.8	123.0	116.0				
36	Cipresino	F9	123.3	126.5	119.0				
37	Corbella	F4	119.9	123.0	116.0	R3	287.5	297.5	276.5
38	Cornicabra de Jerez Caballeros	F5	120.3	125.0	117.0	R7	312.5	336.5	290.5
39	Cornicabra de Mérida	F7	121.4	125.0	119.0				

40	Curivell	F2	118.3	123.0	113.0	R3	289.2	304.3	271.5
41	Datilero	F8	121.8	125.0	119.0				
42	Dokkar	F10	123.8	129.0	119.0	R2	285.9	294.0	272.3
43	Dulzal de Carmona	F7	121.5	123.3	119.0	R5	299.6	314.5	287.5
44	Empeltre	F2	118.6	123.0	115.0	R4	292.4	308.0	277.3
45	Escarabajillo	F2	118.8	123.0	114.5	R2	281.5	295.5	268.0
46	Escarabajuelo de Atarfe	F7	121.4	123.0	119.0	R6	304.5	318.5	291.5
47	Escarabajuelo de Posadas	F6	121.0	123.0	119.0	R10	326.5	342.8	307.0
48	Farga	F1	117.3	123.0	113.0				
49	Figueretes	F1	116.9	124.0	113.0	R1	272.6	301.0	254.5
50	Forastera de Tortosa	F2	117.8	122.0	115.0				
51	Frantoio	F7	121.4	124.5	117.5	R5	301.4	316.9	285.6
52	Fulla de Salze	F2	118.0	122.0	115.8	R2	282.1	290.1	274.5
53	Gemlik	F7	121.1	124.0	117.2	R2	285.6	297.5	276.5
54	Genovesa	F6	120.8	123.5	117.0	R2	282.7	304.8	261.5
55	Gerboui	F3	119.4	123.0	116.0	R10	330.0	353.3	314.0
56	Gordal de Granada	F7	121.4	124.6	118.5	R6	305.3	318.4	295.0
57	Gordal de Vélez Rubio	F9	122.9	125.0	119.0	R8	314.7	348.0	284.5
58	Gordal Sevillana	F8	121.8	125.0	117.5				
59	Grosal Vimbodí	F6	120.8	125.0	117.0				
60	Hojiblanca	F8	122.0	124.7	118.5	R7	312.4	324.8	302.3
61	Istarska Bjelica	F7	121.3	123.0	117.0				
62	Itrana	F10	123.7	127.0	119.0				
63	Jabaluna	F5	120.3	123.5	117.5	R8	315.7	330.5	306.5
64	Jaljali	F8	122.1	125.0	117.0	R4	294.5	322.8	271.5
65	Jaropo	F7	121.2	124.0	118.0				
66	Joanenca	F8	121.8	125.0	117.0	R4	291.7	305.0	277.5
67	Kalamon	F9	123.1	127.0	119.0	R2	285.5	296.3	278.0
68	Kolybada	F7	121.7	125.0	119.0				
69	Koroneiki	F2	119.2	123.7	116.0				
70	Lastovka	F2	118.3	123.0	114.5	R7	310.0	326.5	295.3
71	Leccino	F9	122.8	126.0	119.0	R1	274.5	282.0	271.5
72	Lechín de Granada	F9	123.3	126.5	119.0	R8	315.7	332.3	304.5
73	Lechín de Sevilla	F5	120.2	124.5	117.1	R3	288.1	294.4	281.6
74	Lentisca	F9	123.0	127.0	119.0	R7	309.5	320.0	287.3
75	Limoncillo	F6	120.8	124.0	117.5				
76	Llorón de Atarfe	F4	119.8	123.0	116.0				
77	Llumeta	F2	118.6	123.0	114.5				
78	Loaime	F8	122.2	125.0	119.5				
79	Lucio	F8	121.8	124.3	117.0				
80	Lucques	F5	120.3	123.0	116.0	R4	291.3	311.3	273.3
81	Machorrón	F8	121.8	124.0	119.0				
82	Madural / Cordovil de Serpa	F9	123.0	125.0	119.0	R8	314.9	333.8	304.5
83	Mahati1010	F2	118.3	124.0	113.0				
84	Mahati846	F9	122.8	128.0	119.0				
85	Majhol1059	F8	121.8	124.0	117.5	R2	283.3	306.8	261.5

86	Majhol152	F6	120.8	123.0	119.0	R9	320.7	331.0	305.0
87	Manzanilla Cacereña	F4	119.8	123.0	118.0	R5	298.3	315.9	280.0
88	Manzanilla de Abia	F4	119.8	125.0	114.5				
89	Manzanilla de Agua	F5	120.4	123.7	118.0	R6	306.6	320.3	293.3
90	Manzanilla de Almería	F5	120.1	124.0	114.5				
91	Manzanilla de Hellín	F6	120.8	125.0	118.5				
92	Manzanilla de Sevilla	F6	120.9	124.1	117.4	R6	306.4	314.7	296.7
93	Manzanilla Prieta	F5	120.6	124.0	118.5	R4	294.8	320.3	276.5
94	Maurino	F8	122.2	125.0	119.0	R3	290.4	325.5	268.5
95	Mavreya	F7	121.3	125.0	119.0	R1	271.7	280.3	258.8
96	Menya	F5	120.5	125.0	117.0	R1	276.6	290.5	268.5
97	Meski	F6	120.7	123.0	117.5	R4	294.3	306.8	282.5
98	Mollar Basto	F6	120.8	125.0	118.5	R8	316.1	341.0	301.5
99	Mollar de Cieza	F5	120.2	123.3	117.9	R4	292.0	302.8	280.5
100	Moraiolo	F9	123.3	127.7	119.2	R4	292.3	302.8	278.1
101	Morisca	F9	123.1	126.0	119.5	R8	314.3	333.8	304.5
102	Morona	F8	122.3	126.0	118.4				
103	Negrillo de Arjona					R9	318.7	335.5	297.5
104	Negrillo de la Carlota	F8	121.8	124.0	119.0				
105	Negrillo Redondo	F8	121.9	125.0	119.5				
106	Nevado Azul	F5	120.6	123.0	117.3	R4	292.1	316.7	278.5
107	Nevado Rizado	F8	122.0	125.0	119.0				
108	Ocal	F5	120.4	123.7	116.1	R9	321.1	339.8	301.8
109	Olivo de Mancha Real	F6	120.7	125.0	116.0				
110	Olivo de Maura	F8	122.2	124.0	119.0				
111	Palomar	F2	118.2	123.0	113.0	R6	303.1	322.3	277.3
112	Pavo	F6	120.7	123.7	117.0	R5	297.1	309.2	285.5
113	Pequeña de Casas Ibañez	F7	121.4	123.5	118.5	R3	287.0	300.3	274.7
114	Perafort	F6	120.7	125.0	117.0	R4	294.8	322.0	261.5
115	Picholine Marocaine	F6	121.0	124.0	118.4	R9	320.8	332.8	308.2
116	Pico Limón de Grazalema	F3	119.5	123.0	117.5				
117	Picual	F9	123.2	125.0	121.0	R7	312.3	322.0	297.1
118	Picudo	F8	122.0	124.5	117.5	R7	311.6	327.9	299.5
119	Plementa Bjelica	F8	121.8	126.5	113.0				
120	Racimal de Jaén	F8	121.8	124.0	119.0				
121	Real Sevillana	F8	121.8	125.0	118.0				
122	Rechino	F7	121.2	123.5	119.0	R6	304.0	315.9	289.3
123	Redondilla de Grazalema	F8	122.3	125.0	119.0				
124	Rosciola	F4	119.9	125.0	115.0				
125	Safrwai	F4	118.4	124.0	115.5				
126	Salonenque	F2	118.9	123.0	116.0	R4	293.4	330.8	271.5
127	Sandalio	F7	121.6	125.0	119.0	R6	302.8	315.3	283.5
128	Sayfi	F3	119.5	124.0	116.0				
129	Sevillana de Abia	F7	121.2	125.0	119.0				
130	Sevillano de Jumilla	F6	120.9	126.0	116.0	R7	309.5	330.5	292.8
131	Shami	F6	120.7	125.0	117.0	R7	309.2	325.5	292.5

132	Sinop	F8	121.9	125.0	119.0				
133	Sollana	F6	120.8	125.0	117.0	R5	297.2	313.3	287.5
134	Sorani	F3	119.8	124.5	116.0				
135	Tempranillo de Lucena	F3	119.5	122.8	117.3	R2	285.7	308.8	272.2
136	Tempranillo de Yeste	F4	119.9	123.0	116.0				
137	Toruno	F7	121.6	125.0	119.0				
138	Ulliri i Kuq	F10	124.3	126.0	121.0				
139	Vallesa	F1	116.8	123.0	113.0				
140	Varudo	F8	122.0	124.3	116.8	R9	321.6	348.0	297.0
141	Vera	F1	117.3	123.0	113.0				
142	Verdale	F2	119.2	122.5	116.0				
143	Verde Verdelho	F7	121.2	125.0	117.0	R4	293.5	313.5	281.5
144	Verdial de Badajoz	F3	119.5	123.1	116.9	R8	315.2	331.1	301.1
145	Verdial de Cádiz	F4	119.8	123.0	118.0				
146	Verdial de Huévar	F9	122.8	124.4	118.7				
147	Verdiell	F7	121.6	125.0	116.5	R4	291.9	308.3	284.3
148	Villalonga	F5	120.4	124.0	116.5	R6	305.3	320.3	279.5
149	Vinyols	F6	120.7	125.0	117.0	R5	299.5	313.3	284.3
150	Zalmati	F3	119.6	125.0	117.0	R2	283.3	302.5	268.5