

Supporting Information

# Effects of Endogenous Hormone on the Flowering and Fruiting of *Glycyrrhiza uralensis*

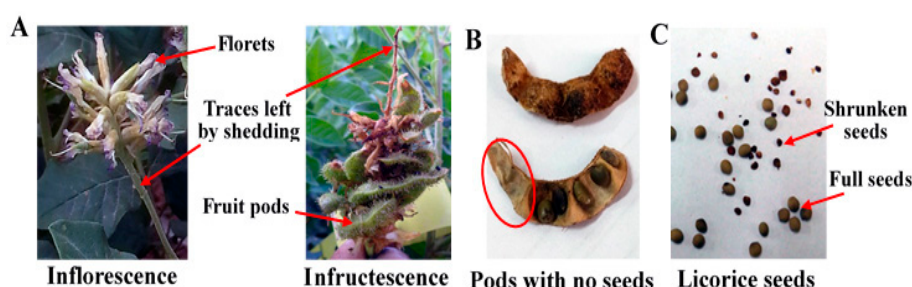
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**Figure 1.** Flower and fruit falling, empty seed plants and licorice seeds. (A) Florets, fruit pods and traces after shedding; (B) Pods with no seeds; (C) Shrunken seeds and full seeds.

**Table 1.** Flowering and fruiting situations of plants in different sampling plots.

Age	Flowering and yield fruit / plants	No flowering / plants	Inflorescence fall off / plants
5y	52	28	20
5y	64	27	8
5y	70	19	11
7y	67	14	19
7y	70	27	4
7y	65	29	5
12y	73	21	6
12y	60	36	4
12y	69	25	6

**Table 2.** Rate of flower and fruit falling in different sampling plots (n=100).

Age	5y	5y	5y	7y	7y	7y	12y	12y	12y
Rate of flower and fruit falling /%	55.63 + 9.00	51.96 + 8.00	56.78 + 9.00	44.43 + 6.00	47.38 + 5.00	44.02 + 5.00	48.97 + 8.00	51.48 + 6.00	48.46 + 6.00

Notes: Numbers denote the average rate of flower and fruit falling of 100 plants in each sample  $\pm$  SD.

$$\text{Rate of flower and fruit falling(\%)} = \frac{\text{Falling trace number of single infructescence}}{\text{Falling trace number of single infructescence} + \text{Fruit pods number of single infructescence}} \times 100\%$$

The number of traces refers to the number of traces left on the rachis after falling of flowers or pods.

**Table 3.** Rate of empty seeds, rate of shrunken seeds and TKW in different sampling plots (n=100).

Age	5y	5y	5y	7y	7y	7y	12y	12y	12y
Rate of empty seeds /%	41.21 + 13.00	30.07 + 12.00	21.50 + 6.00	16.33 + 7.00	12.53 + 6.00	10.03 + 8.00	21.09 + 12.00	16.92 + 9.00	24.12 + 13.00
Rate of shrunken seeds /%	13.51 + 6.00	7.88 + 4.00	8.54 + 5.00	8.39 + 6.00	6.80 + 5.00	5.71 + 5.00	5.40 + 5.00	6.96 + 4.00	3.45 + 4.00
TKW /g	13.78 + 0.31	13.68 + 0.60	13.78 + 0.79	15.92 + 0.41	15.10 + 0.54	14.83 + 0.48	16.86 + 0.58	16.75 + 0.54	15.92 + 0.57

Notes: Numbers denote the average of empty seed rate, shrunken seeds rate and TKW in each sampling plots.

$$\text{Empty seed rate(\%)} = \frac{\text{Theoretical seed number of single infructescence} - \text{Practical seed number of single infructescence}}{\text{Theoretical seed number of single infructescence}} \times 100\%$$

$$\text{Shrunken seeds rate(\%)} = \frac{\text{Shrunken seeds number of single infructescence}}{\text{Seeds number of single infructescence}} \times 100\%$$