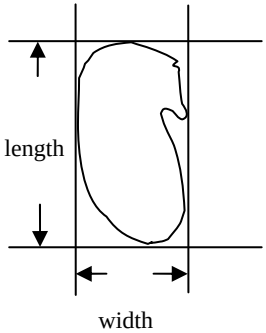


Average length 5.45 mm
Average width 4.53 mm
Average thickness 3.46 mm
Every thousand grains weight 62.4 g



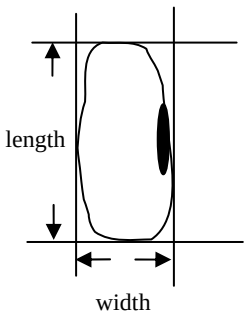
圖一、青皮豆種子物理性狀
Fig. 1. Physical properties of blue soybean seed.



Average length 6.67 mm
Average width 4.78 mm
Average thickness 2.27 mm
Every thousand grains weight 45.6 g



圖二、太陽麻種子物理性狀
Fig. 2. Physical properties of sun hemp seed.



Average length 4.02 mm
Average width 2.46 mm
Average thickness 2.05 mm
Every thousand grains weight 18.4 g



圖三、田菁種子物理性狀
Fig. 3. Physical properties of sesbania seed.



圖四、綠肥作物播種不同深度田間發芽情形

Fig. 4. Germination condition of green manure plants in different depth of fields.

表一、綠肥作物播種培養皿發芽率情形

Table 1. Germination ratio(%) of green manure crops planted at culture dish.

Germination rate	Culture dish germination ratio(%)
Blue soybean	95.00
Sesbania	97.83
Sun hemp	97.04

表二、綠肥作物播種不同深度發芽率情形

Table 2. Germination ratio(%) of green manure crops planted at different depths.

Crop	Sowing depth (cm)							
	1	3	5	8	10	13	15	18
Blue soybean	91	97	99	93	90	75	67	50
Sesbania	73	80	83	82	77	54	43	22
Sun hemp	83	86	68	68	68	62	62	56

表三、機械式傳動作業不同速比與綠肥作物播種量及損傷率之關係

Table 3. Relationship between sowing norm and damage ratio at various mechanical transmission speeds.

Items	Gear(T)	Seeds needed (kg/ha)	Damage ratio (%)
Blue soybean	15-18	20-30	3.88
Sesbania	27	32	1.87
Sun hemp	21-24	20-30	6.43

表四、機械式傳動田間機播發芽率情形

Table 4. Sowing and germination condition of mechanical transmission field sowing machine.

Germination rate	Seed germination ratio of field sowing machine (%)
Blue soybean	80.37
Sesbania	81.08
Sun hemp	79.55

表五、油壓式及機電式傳動田間機播損傷率與發芽率情形

Table 5. Sowing and germination conditions of hydraulic and electromechanical transmission field sowing machine.

Crop*	Speed of sowing wheel (rpm)	Sowing volume (tablets)	Damaged grains (tablets)	Damage ratio(%)	Field germination ratio (%)
Blue Soybean	5	877	19	2.17	87.13
	10	1681	44	2.62	
	15	2626	59	2.25	
	20	3327	85	2.55	
	25	4098	106	2.59	
Sun hemp	5	1153	7	0.61	89.56
	10	2316	18	0.78	
	15	3396	27	0.80	
	20	4514	35	0.78	
	25	5445	51	0.94	
Sesbania	5	1814	2	0.11	86.13
	10	3584	4	0.11	
	15	3653	8	0.22	
	20	5015	16	0.32	
	25	6267	24	0.38	

* One thousand grains per crop