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(Walters & Jasa, 1998)

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(Han &

(FAO, 2007)

.Simmons, 2001)

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- 1. Conventional Tillage
  - 2. Conservation Tillage
  - 3. Reduced Tillage
  - 4. Minimum Tillage
  - 5. Ridge Tillage
  - 6. Stripe Tillage

(Rasmussen & Rhode, 1998)

karpavrv@shirazu.ac.ir :

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(Shafiei, 1995)

Sturny .

(1998)

(Debicki & Shaw, 1996)

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(1987) Adekoya & Buchele .

(1995) Gray et al.

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(1990) Eikel & Siebertz .

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Dwyer et .

(1995) al.

(2002) Dowlati & Karparvarfard .

(1997) Opoku et al..

Shahsavandi & .

Kravchenko .

(2007) & Thelen .

(2008) Karparvarfard

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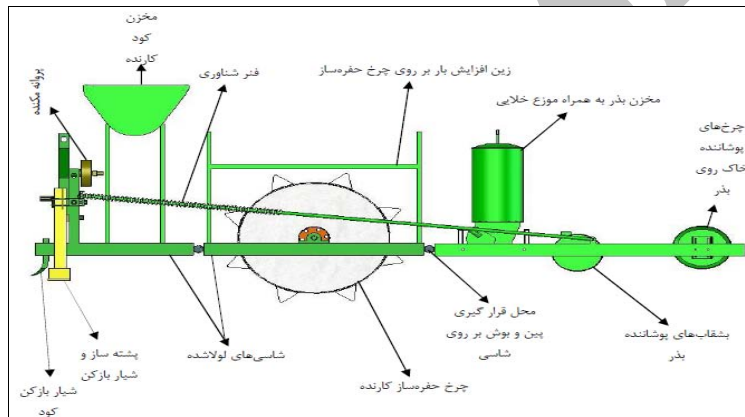
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## 2. Mower

## 1. Quadrat



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$$[ \quad / X_{ref} ] : \\ [ / X_{ref} ] [ / X_{ref} / X_{ref} ] [ / X_{ref} / X_{ref} ] \\ [ / X_{ref} \infty ] [ / X_{ref}$$

3. به درصد بذور جوانه زده شده در شرایط ایده آل قوه نامیه گفته می شود.  
4. Top Paper (ISIA)

(Kachman, & Smith, 1995)

(n<sub>1</sub>,n<sub>2</sub>,...,n<sub>5</sub>)

(Noggle &

:Fritz, 1976)

$$M = \left[ \frac{A}{B \times P \times G} \right] \times 100$$

$$M = \frac{n_3 + n_4 + n_5}{N} \times 100$$

:A

(D)

:P

$n_1$

:B

N

:G

$$D = \frac{n_1}{N} \times 100$$

(C)

:(Noggle & Fritz, 1976)

$$RGR = \frac{Lnw_2 - Lnw_1}{t_2 - t_1}$$

$S_2$

$X_{ref}$

(day) :  $t_2$   $\frac{gr}{(day)}$   
 (day) :  $t_1$  (gr)  
 (gr)

: RGR

:  $w_2$

:  $w_1$

$$C = \frac{S_2}{X_{ref}}$$

$$A = \frac{n_2}{N} \times 100$$

(A)

:(Geetha & Sivaprakasam, 1993)

$$VI_1 = S.L \times M$$

: M

:  $VI_1$

(cm)

: S.L

:(Abdul-Baki, & Anderson, 1973)

$$VI_2 = (S.L + R.L) \times M$$

(cm)

: R.L

:  $VI_2$

(cm)

: S.L

.(ISTA, 2002)

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4. Relative Growth Rate
5. Vigour Seed

1. Shoot & Root Height
2. Shoot & Root Dry Weight
3. Emergence Rate

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(Shahsavandi & Karparvarfard, .

2008).

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(Sanavi Shiri & .

Raoufat. 2008; Shahsavandi, & Karparvarfard, 2008)

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(Sanavi Shiri & Roufat, 2008; .

(Shahsavandi, & Karparvarfard, 2008).

.Shahsavandi & Karparvarfard, 2008)

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(Kravchenko &amp; Thelen, 2007; .

.Dwyer et al 1995)

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/	/	/	/
/ **	/ **	/ **	/ ns
/	/	/	/
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علامت\*\*و\*\* نشان دهنده اختلاف معنی داری در سطح ۵ و ۱ درصد ns عدم وجود اختلاف معنی داری می باشد.

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/	/	/	/	/	/	/	/	/
/ *	/ ns	/ ns	/ ns	/ **	/ ns	/ *	/ ns	/ ns
/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/

علامت\*\*و\*\* نشان دهنده اختلاف معنی داری در سطح ۱ درصد، و ns عدم وجود اختلاف معنی داری می باشد.

(%)		
/ a	/ ab	/ ab
/ a	/ b	/ b
/ a	/ b	/ cd
/ d	/ cd	/ cd
/ c	/ a	/ b
/ c	/ a	/ b
/ ab	/ a	/ ab
/ c	/ ab	/ b
/ c	/ a	/ c
/ b	/ a	/ b
/ c	/ bc	/ ab
/ b	/ a	/ a

(%)		
/ ab	/ ab	/ b
/ bc	/ cd	/ d
/ b	/ c	/ d
/ bc	/ b	/ a
/ bc	/ a	/ bc
/ b	/ a	/ b
/ c	/ a	/ b
/ c	/ a	/ ab
/ c	/ ab	/ bc
/ b	/ a	/ b
/ ab	/ ab	/ a
/ b	/ a	/ a

میانگین‌های با حروف مشترک در هر ردیف، از نظر آماری اختلاف معنی داری در سطح احتمال ۵ درصد بر اساس آزمون چند دامنه ای دانکن ندارند.

میانگین‌های با حروف مشترک در هر ردیف، از نظر آماری اختلاف معنی داری در سطح احتمال ۵ درصد بر اساس آزمون چند دامنه‌ای دانکن ندارند.

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(Kravchenko, & Thelen, 2007; Shahsavandi & Karparvarfard, 2008)

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( $p < /$  )

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(Gray et al. 1995; Dwyer et al. 1995; Shahsavandi & Karparvarfard, 2008)

(Shahsavandi, & .

.Karparvarfard, 2008)

( $p < /$  )

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(Dwyer et .

.al. 1995; Shahsavandi, & Karparvarfard, 2008)

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(Gray et al. 1995; Dwyer et al. 1995; Opoko et al. 1997; Swan, 1994)



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