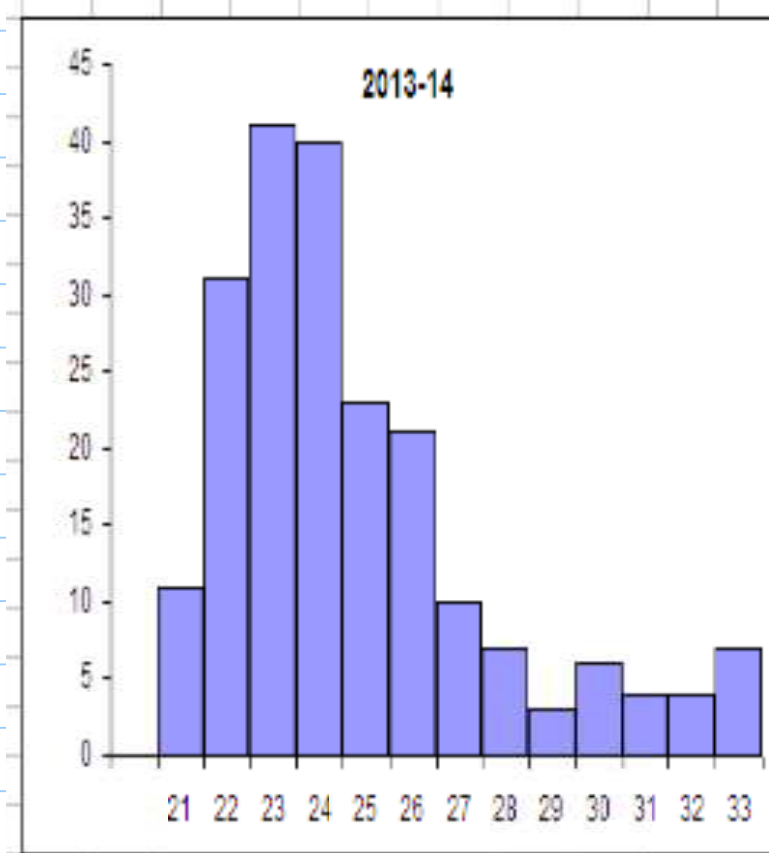
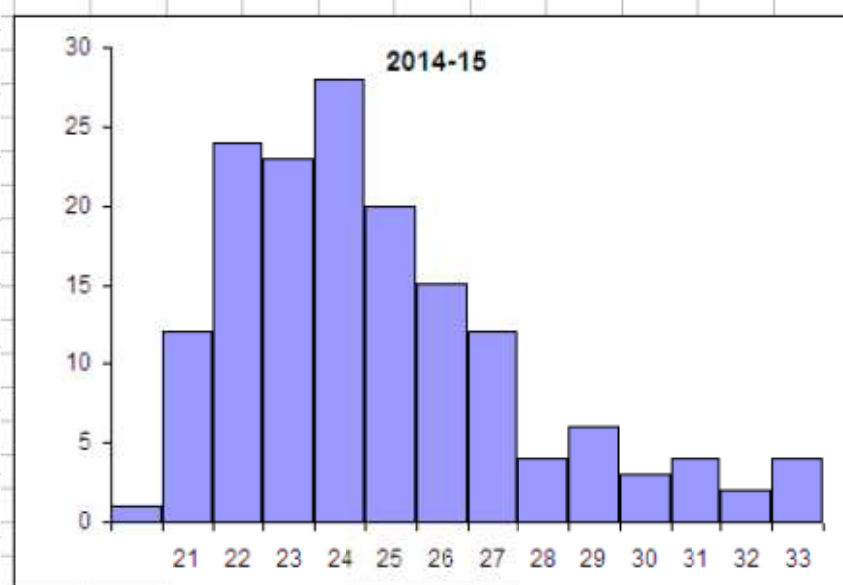
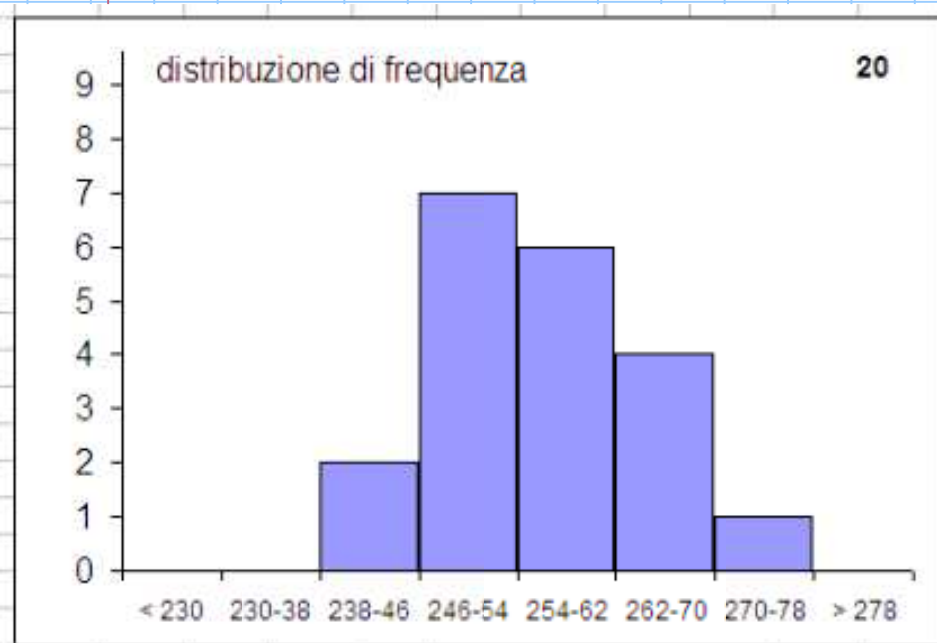
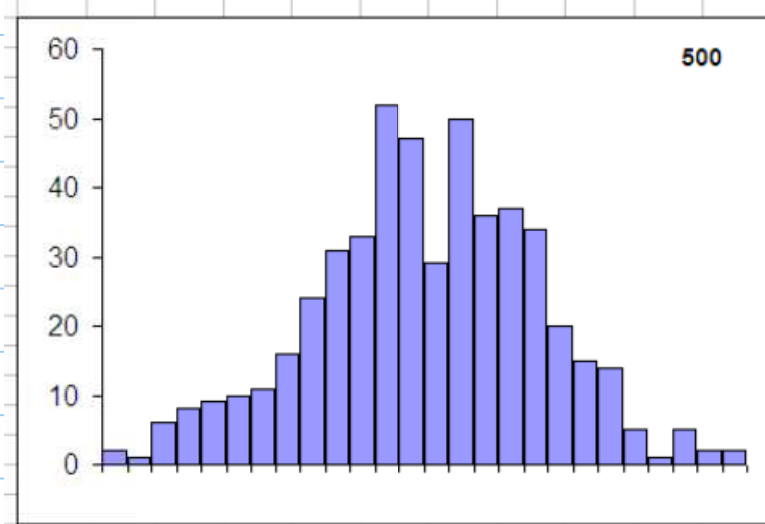
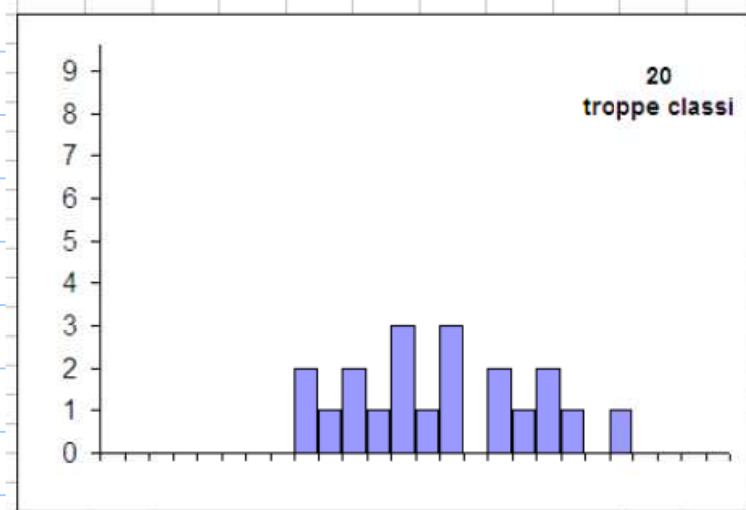


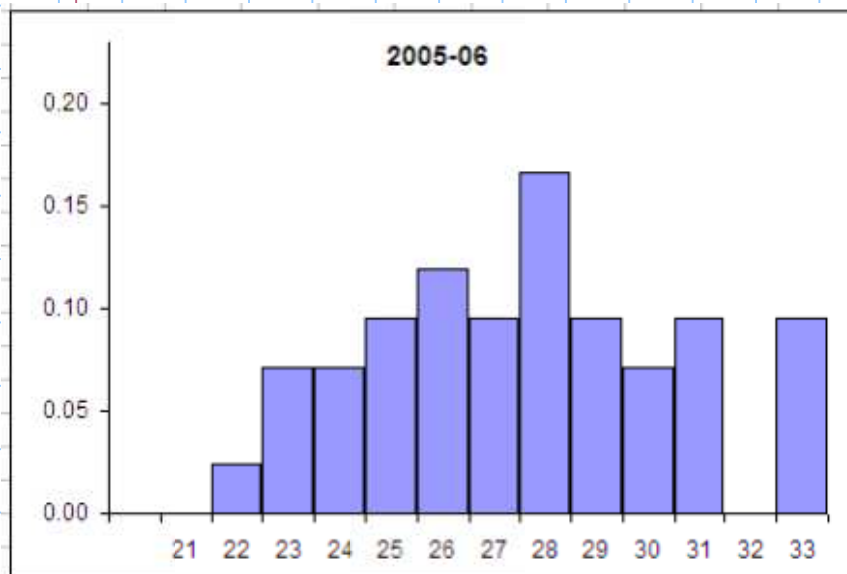
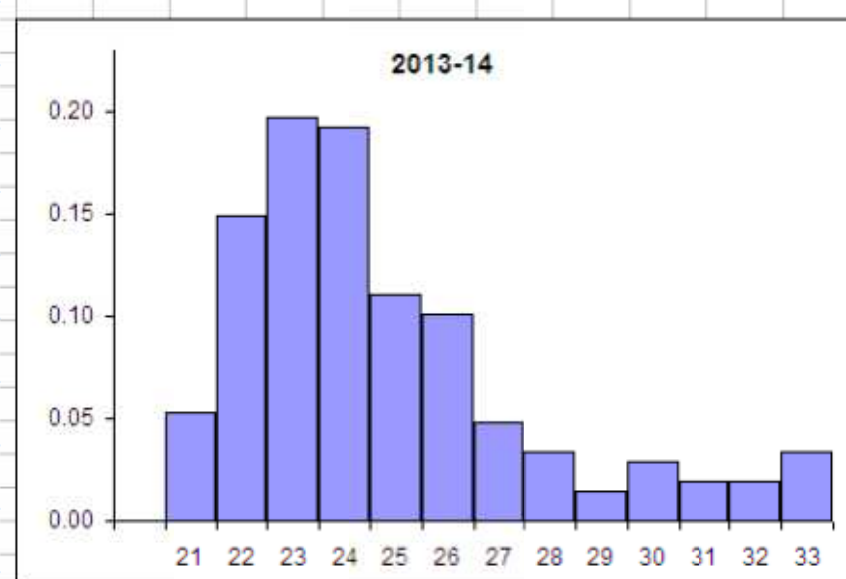
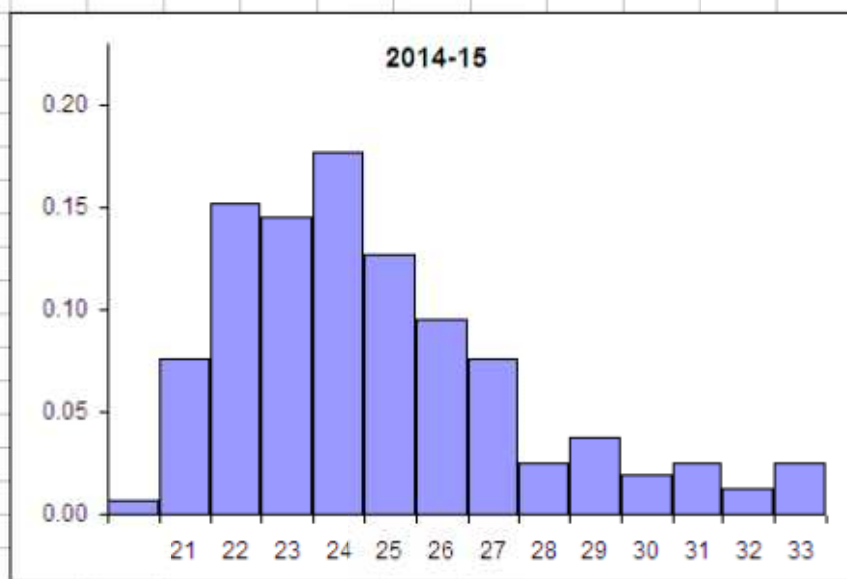
DISTRIBUZIONE DI FREQUENZA





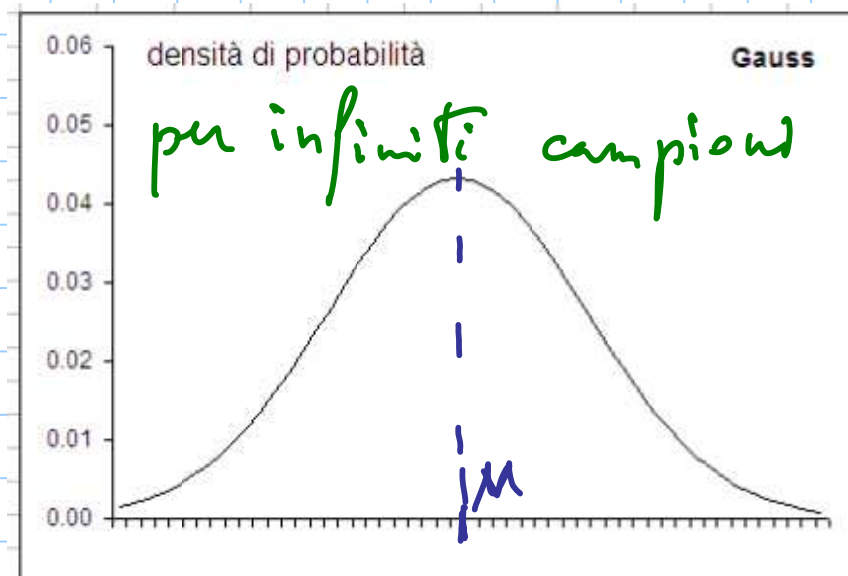
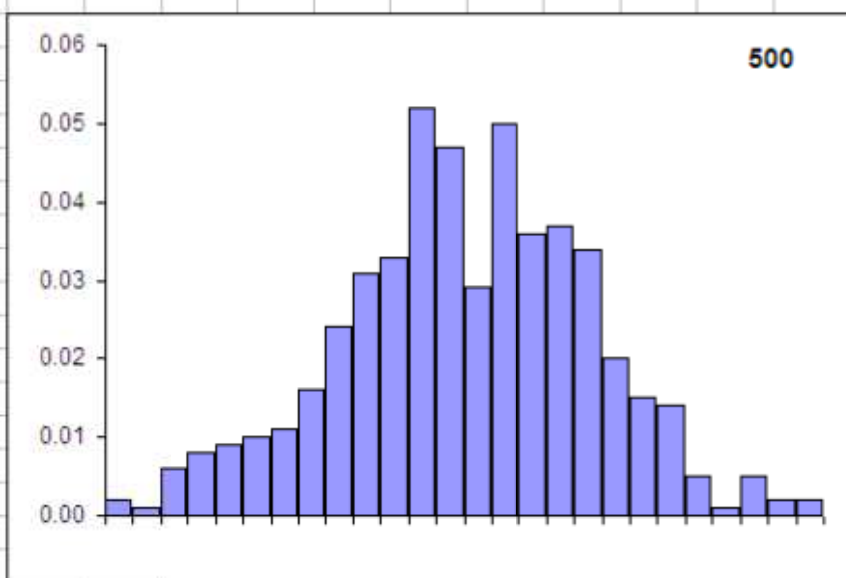
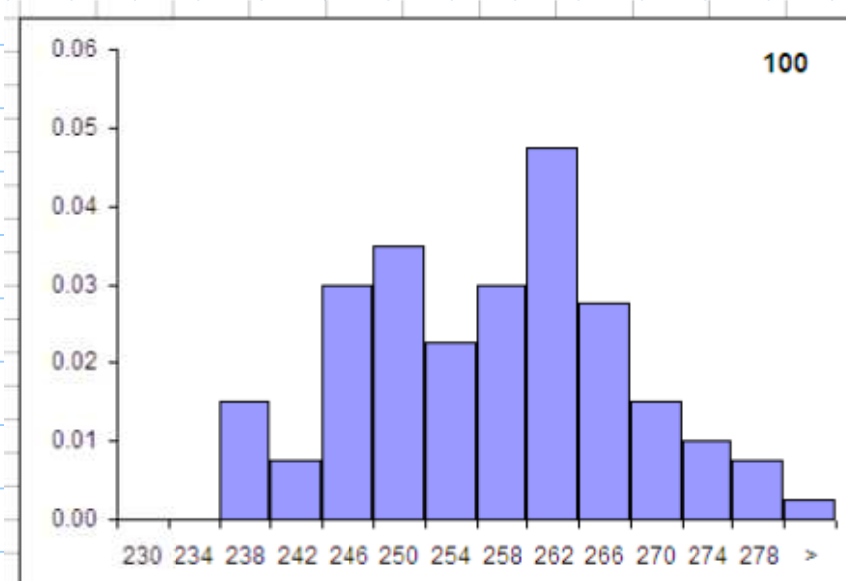
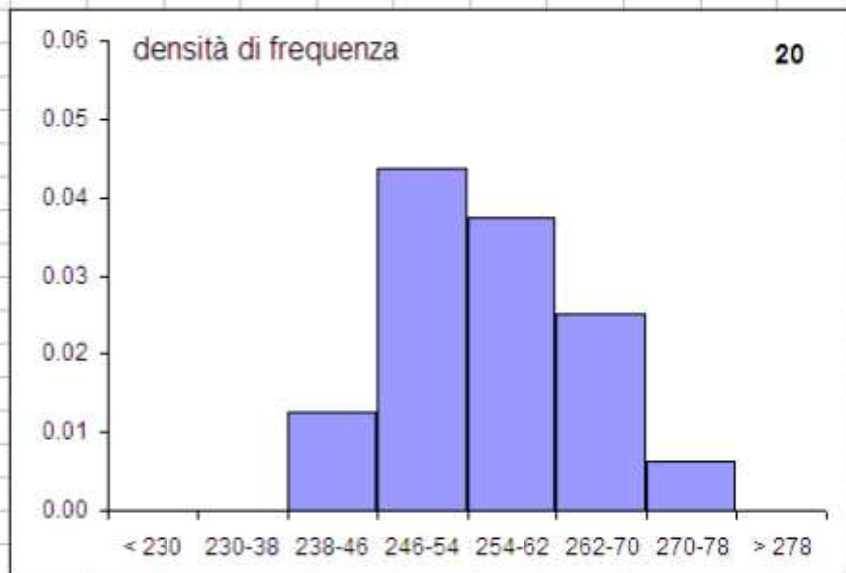
↑
 f_y relativo





DENSITA' DI FREQUENZA

$\frac{n}{N_{\text{tot}}}$ n. Totale a n. numero di elementi nelle classi
 per $N \rightarrow \infty$ DENSITA' DI PROBABILITA'



quali parametri

valore medio $\mu = \frac{\sum_{i=1}^N n_i}{N}$

scarto quadratico
med.

$$\sigma = \sqrt{\frac{\sum (n_i - \mu)^2}{N-1}}$$

(deviazione
standard)

distribuzione
Gaussiana

$$p(x) = \frac{e^{-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2}}{\sqrt{2\pi} \cdot \sigma}$$

frattile 10%

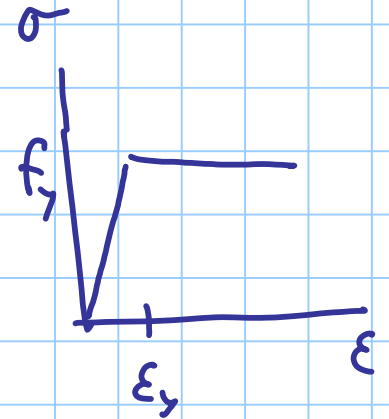
il valore al di sotto del quale ricade il 10%
del campione

RESISTENZA DEL MATERIALE

uso come riferimento

il frattile 5% — detto valore
CARATTERISTICO

Tensione di snervamento dell'acciaio



$$f_{yk} = 235 \text{ MPa}$$



valore caratteristico

$$1 \text{ MPa} = 10^6 \text{ Pa}$$

$$1 \text{ Pa} = \frac{1 \text{ N}}{\text{m}^2}$$

CARICHI

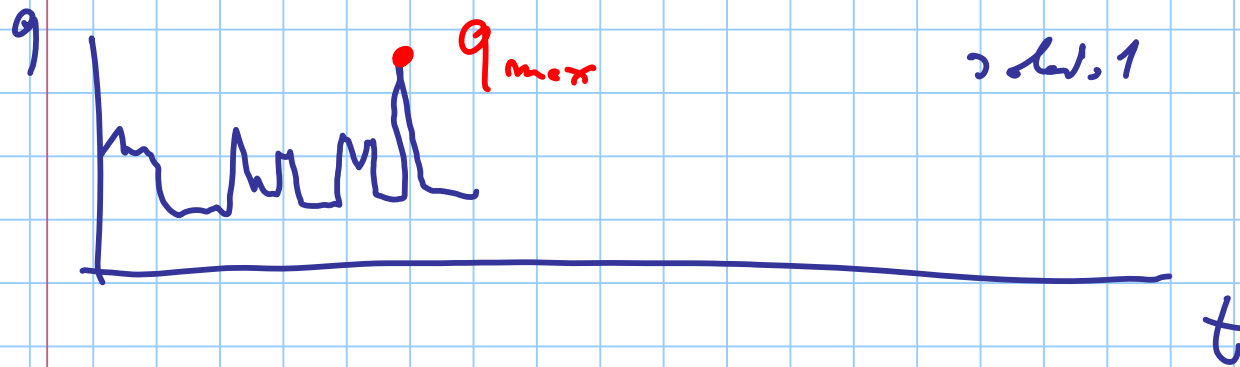
g_k

nel
tempo

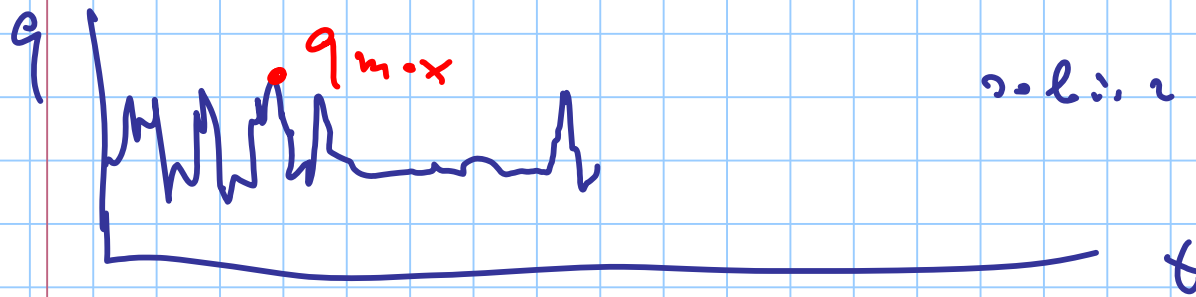
— g permanenti \Rightarrow facciamo riferimento al
partile 95%

— g variabili

CARICO VARIABILE



q_{max} massima
in 50 anni



valore caratteristico : frazione 95% dei q_{max}