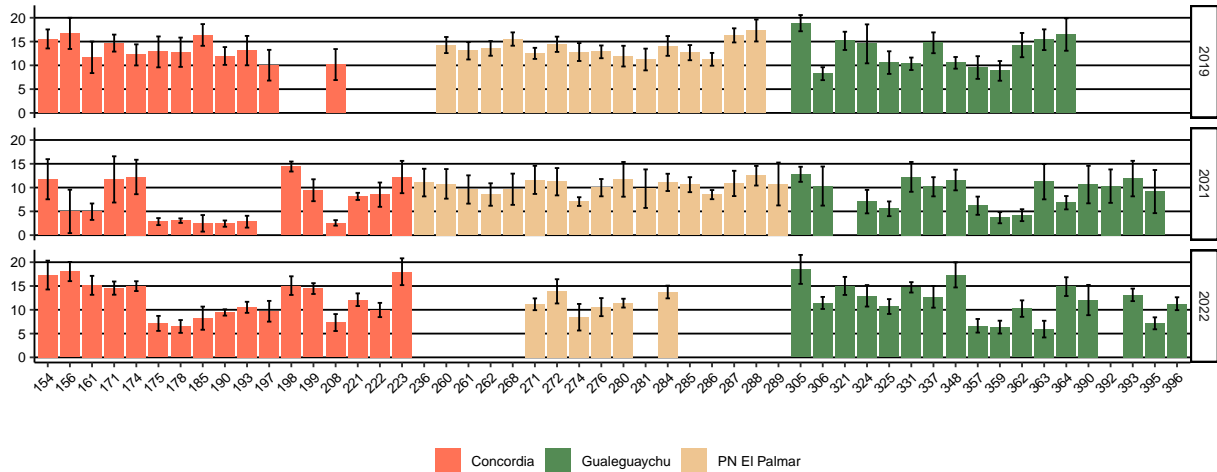


# Variables reproductivas

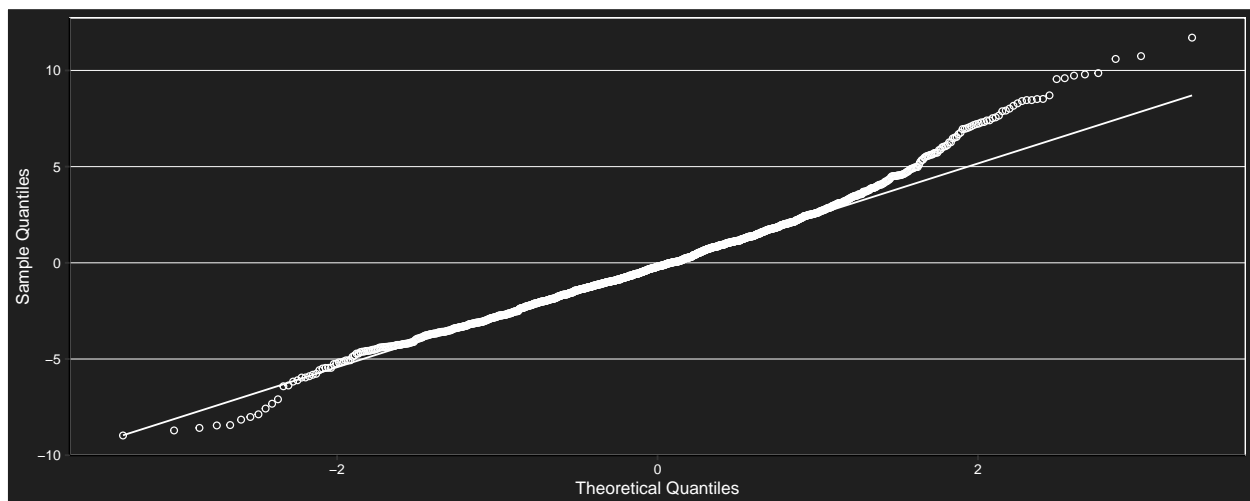
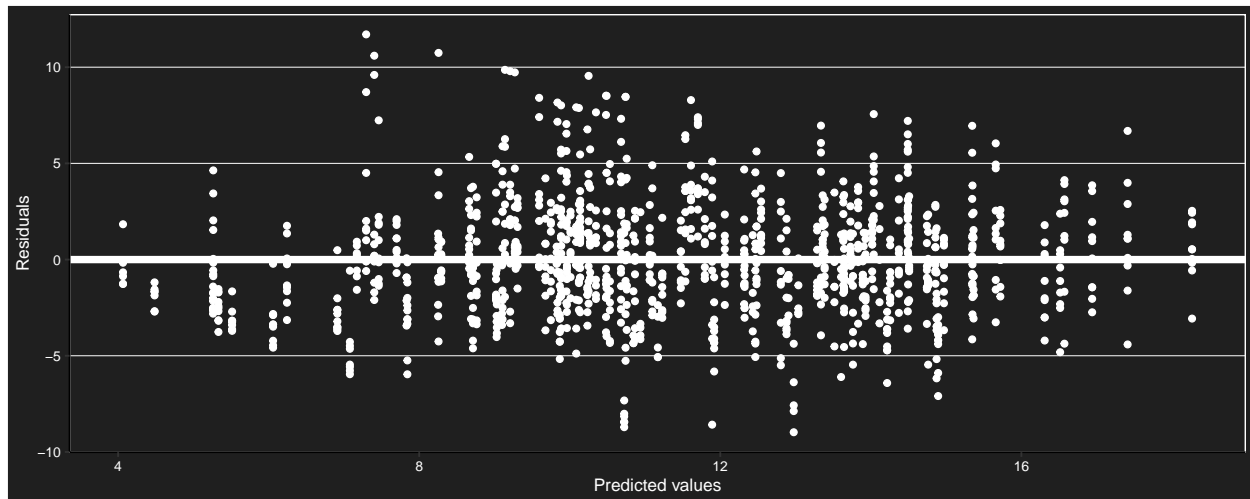
## Peso seco de botones florales en fases C/D



## Modelo ajustado

```
## Linear mixed model fit by REML ['lmerModLmerTest']
## Formula: ps_flor ~ (1 | year) + (1 | site/phenotype)
## Data: datosff
## REML criterion at convergence: 6086.551
## Random effects:
## Groups      Name      Std.Dev.
## phenotype:site (Intercept) 2.2939
## site         (Intercept) 0.3143
## year         (Intercept) 2.4651
## Residual              3.0106
## Number of obs: 1178, groups:  phenotype:site, 52; site, 3; year, 3
## Fixed Effects:
## (Intercept)
## 11.68
```

## Verificación de supuestos



```
##
##  Shapiro-Wilk normality test
##
## data:  e
## W = 0.98207, p-value = 6.87e-11

##
##  Shapiro-Wilk normality test
##
## data:  betai
## W = 0.98051, p-value = 0.5477
```

Resumen del modelo

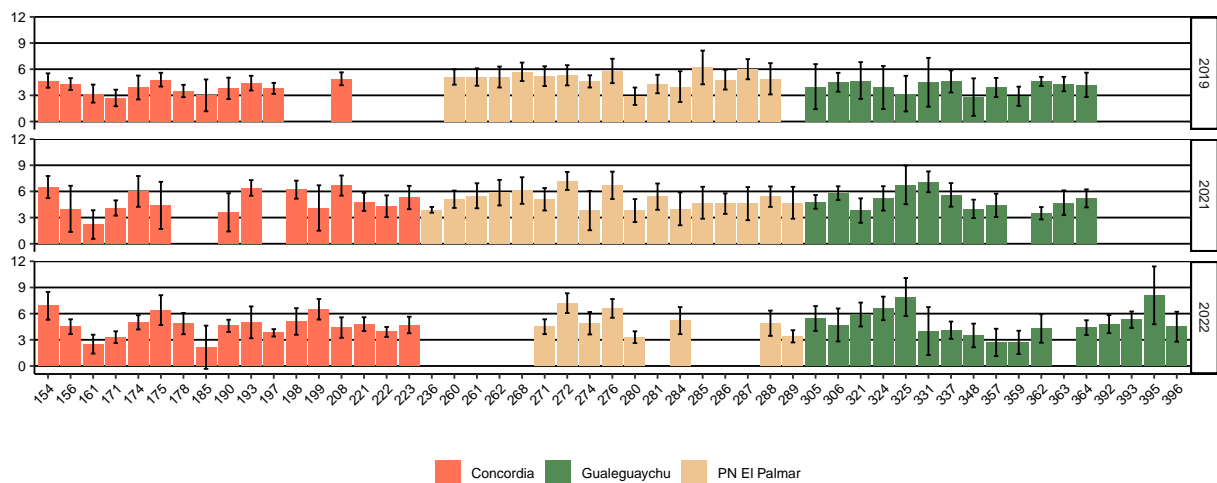
```
## Linear mixed model fit by REML. t-tests use Satterthwaite's method ['lmerModLmerTest']
## Formula: ps_flor ~ (1 | year) + (1 | site/phenotype)
##   Data: datosff
##
```

```

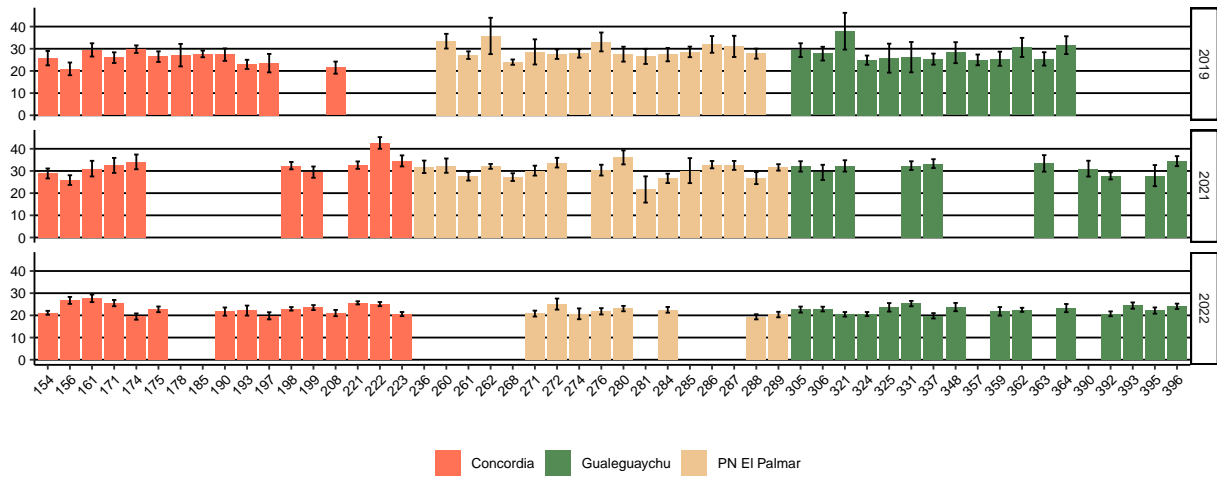
## REML criterion at convergence: 6086.6
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -2.9813 -0.6367 -0.0643  0.5496  3.8878
##
## Random effects:
##   Groups             Name             Variance Std.Dev.
## phenotype:site (Intercept)  5.2620     2.2939
## site           (Intercept)  0.0988     0.3143
## year           (Intercept)  6.0769     2.4651
## Residual                        9.0637     3.0106
## Number of obs: 1178, groups:  phenotype:site, 52; site, 3; year, 3
##
## Fixed effects:
##              Estimate Std. Error    df t value Pr(>|t|)
## (Intercept)   11.683      1.473   2.262   7.934   0.0107 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

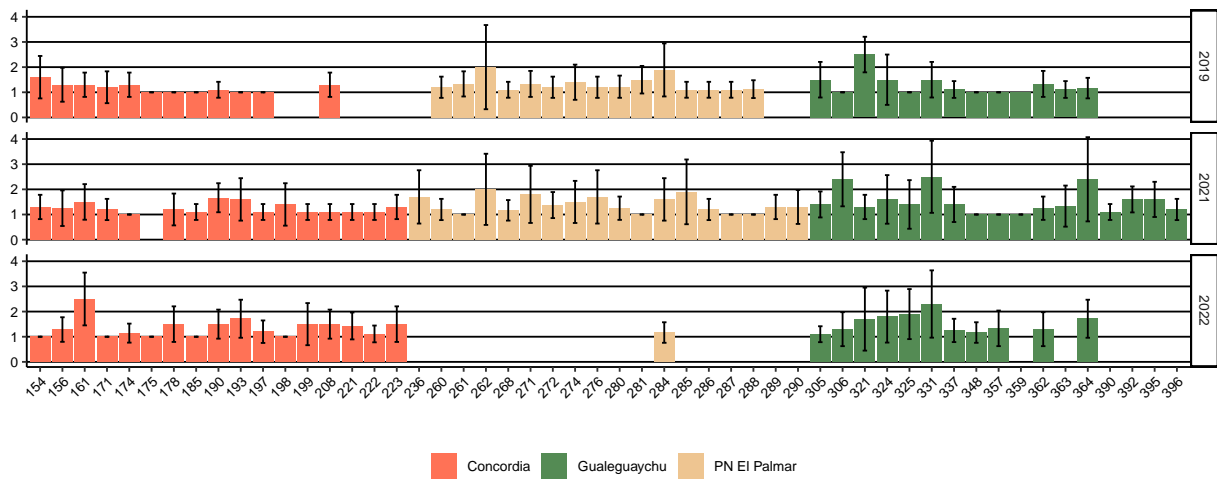
## Número de óvulos por flor



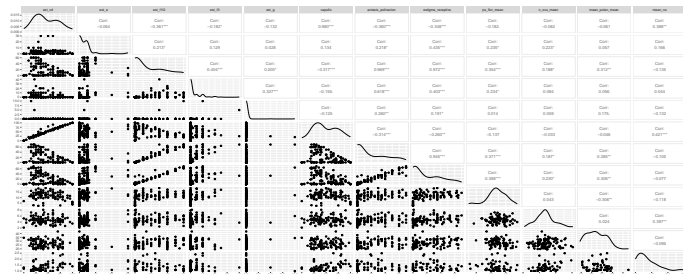
## Diámetro medio de polen ( )



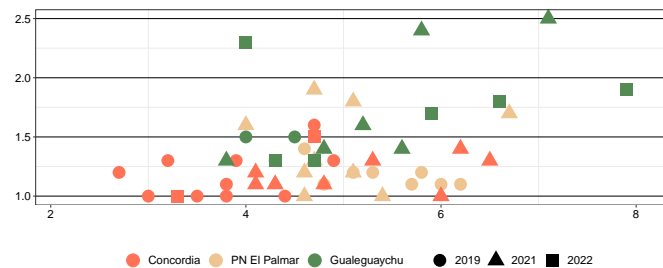
## Número de semillas por fruto



## Correlaciones



## Correlación N° de semillas y N° de óvulos

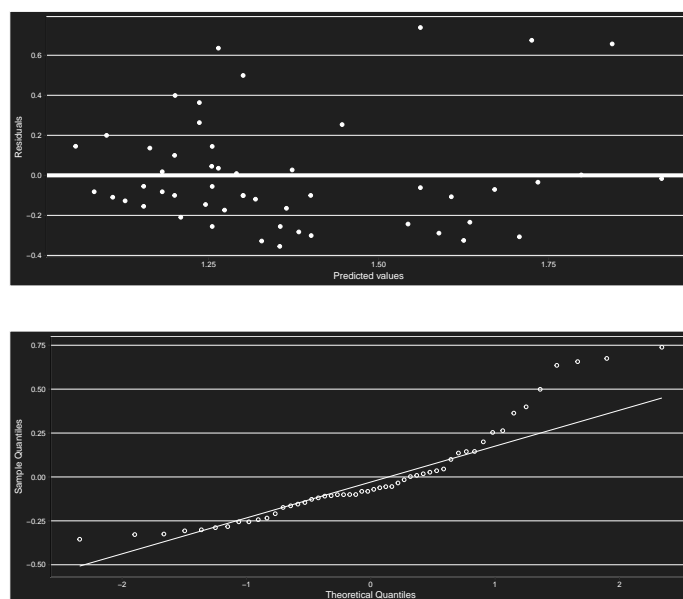


```
## [1] 0.3966561
```

Modelo

```
## Linear mixed model fit by REML ['lmerModLmerTest']
## Formula: mean_ns ~ n_ovu_mean + (1 | year) + (1 | site)
## Data: df_ovusem
## REML criterion at convergence: 28.0874
## Random effects:
## Groups Name Std.Dev.
## year (Intercept) 0.0000
## site (Intercept) 0.2272
## Residual 0.2818
## Number of obs: 52, groups: year, 3; site, 3
## Fixed Effects:
## (Intercept) n_ovu_mean
## 0.94804 0.09094
## optimizer (nloptwrap) convergence code: 0 (OK) ; 0 optimizer warnings; 1 lme4 warnings
```

Verificación de supuestos



```
##
## Shapiro-Wilk normality test
##
## data: e
## W = 0.88056, p-value = 8.662e-05
```

