Figures captions

Figure 1
Title: Ring indexing ("pith-to-bark" or "bark-to-pith") and references ("cambial age", "calendar year" and "tree age") for annual rings.
Represented is a wood density scan over tree rings from year 1994 to year 2004.

Figure 2
Title: Annual ring density (RD) according to three references: cambial age (a), calendar year (b) and tree age (c).

Figure 3
Title: Development of variability parameters for wood density (RD) over year based on annual data.
Legend:
    a) heritability (h^2)
    b) additive genetic coefficient of variation (CV_A)
    c) phenotypic coefficient of variation (CV_P)

Figure 4
Title: Development of variability parameters for wood density components (EWD, LWD and LWP) over years based on annual data.
Legend:
    a) heritability (h^2)
    b) additive genetic coefficient of variation (CV_A)
    c) phenotypic coefficient of variation (CV_P)
EWD: earlywood density
LWD: latewood density
LWP: latewood proportion

Figure 5
Title: Development of variability parameters for ring width (RW) and ring density (RD) over years base on cumulative data.

Figure 6
Title: Distribution of calendar years for cambial age 2 (a) and distribution of cambial ages for calendar year 2004 (b) in each test.

Figure 7
Title: Correlation between annual phenotypic coefficient of variation (CV_P) of Rousset and Hermitage for earlywood density (EWD).
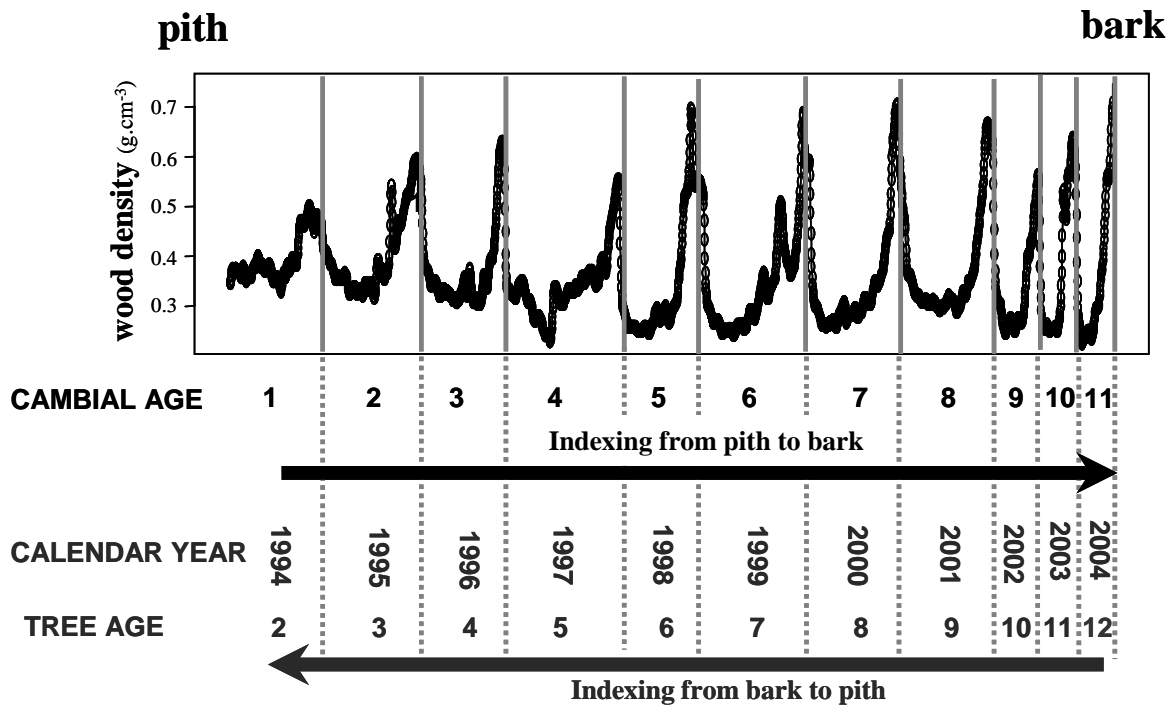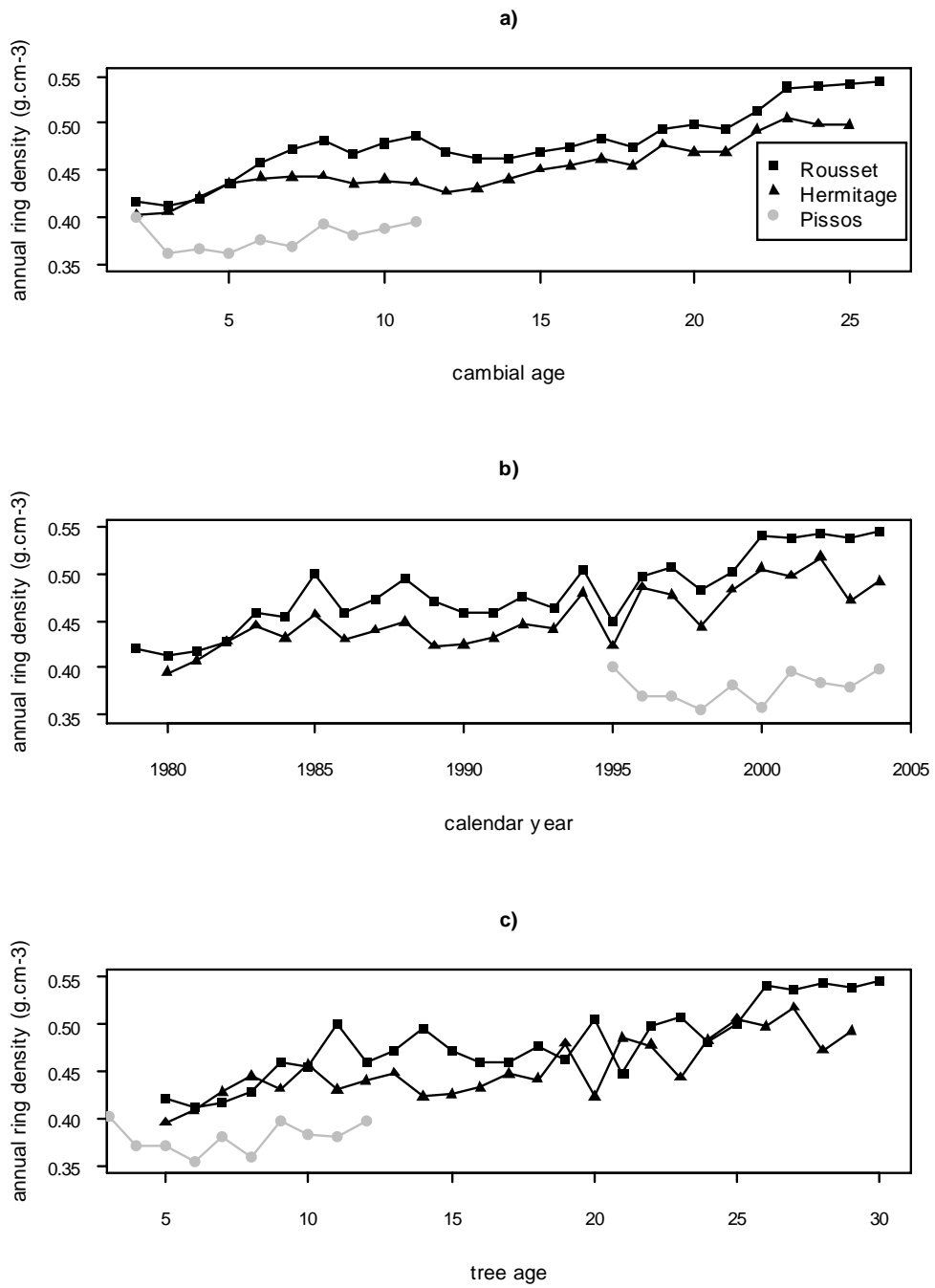
Figures

Figure 1

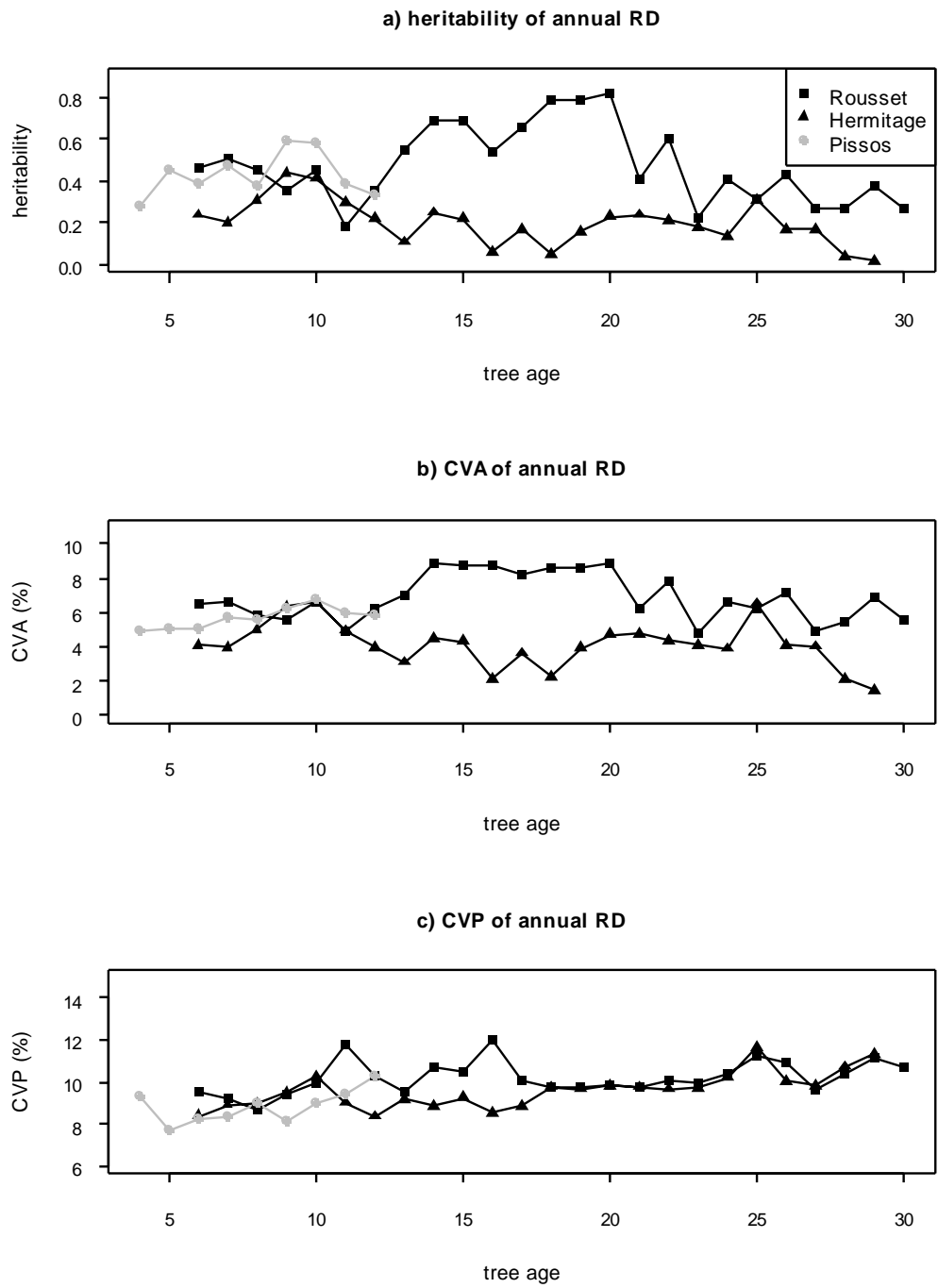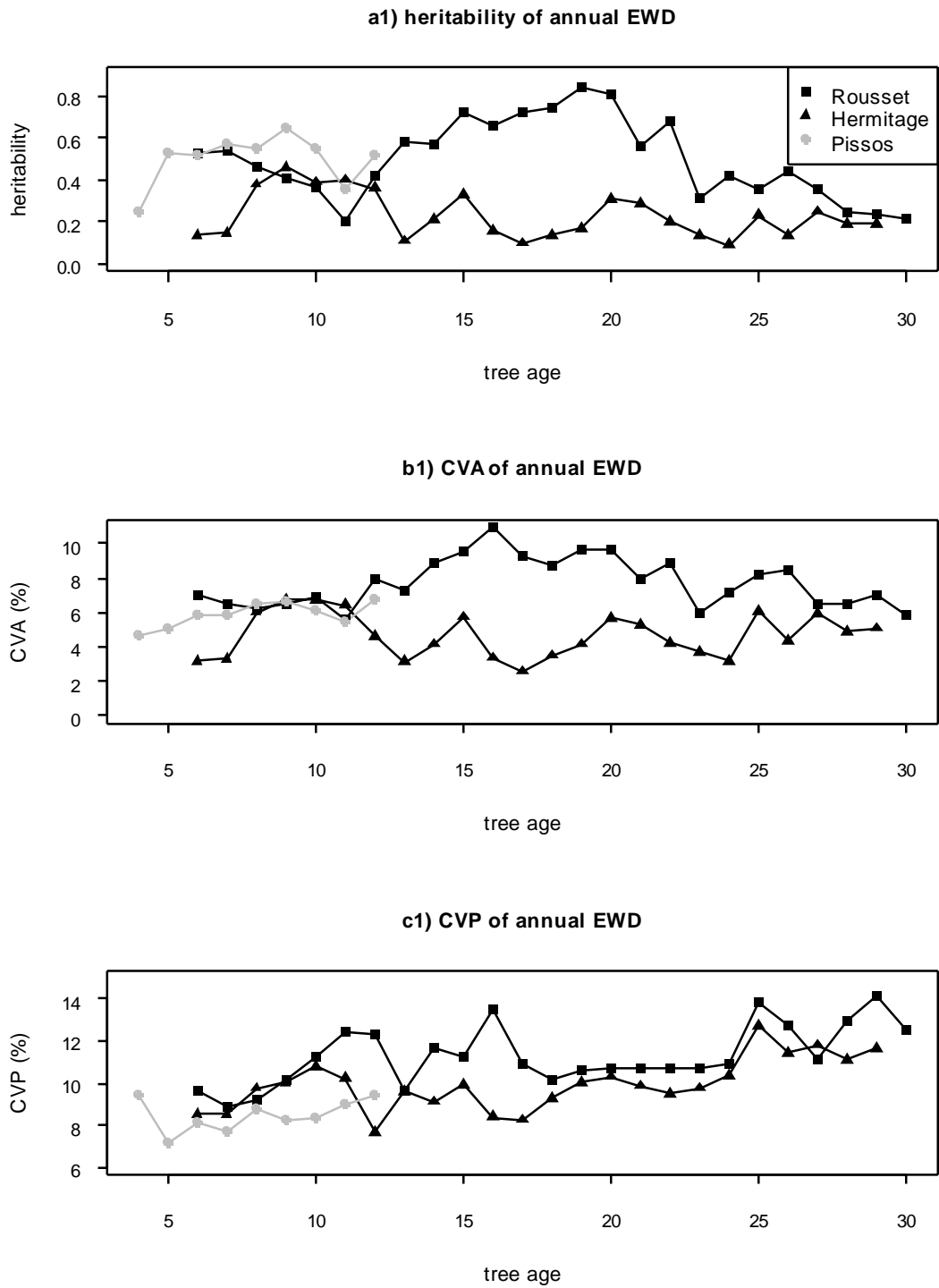**pith**   **bark**

Figure 2

Figure 3

a) heritability of annual RD

b) CVA of annual RD

c) CVP of annual RD

Figure 4

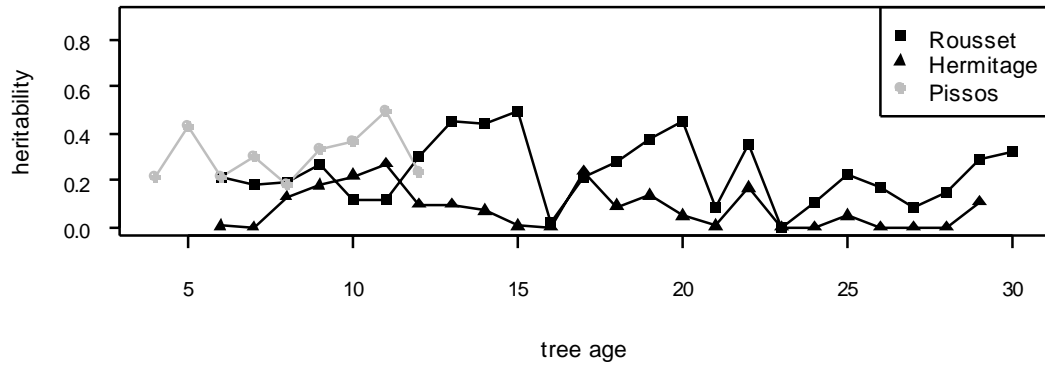**a1) heritability of annual EWD**

b1) CVA of annual EWD

c1) CVP of annual EWD

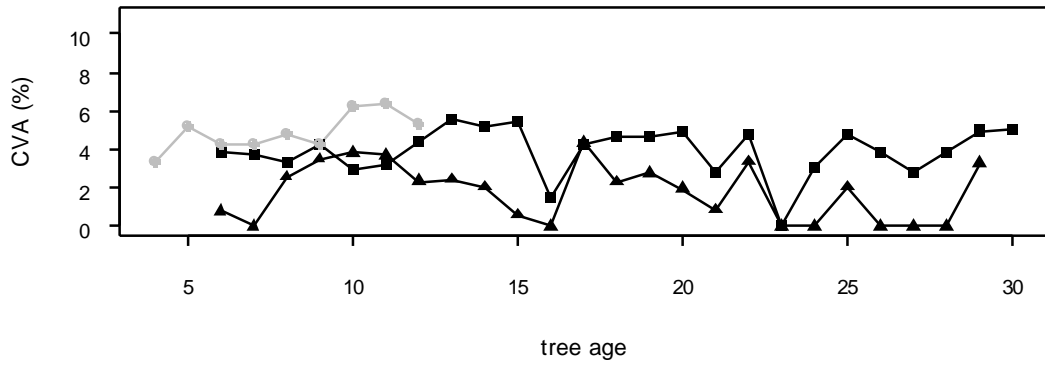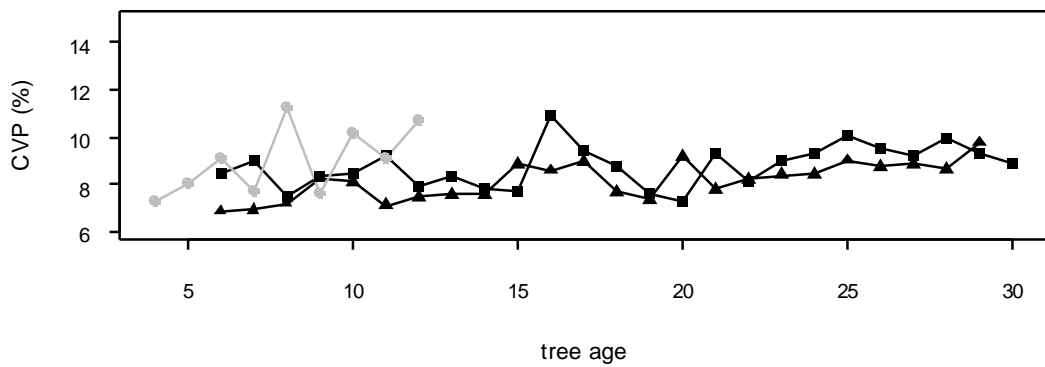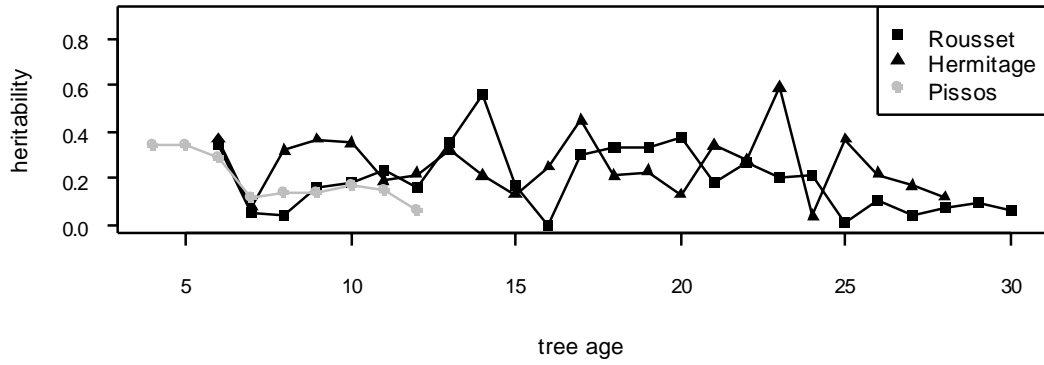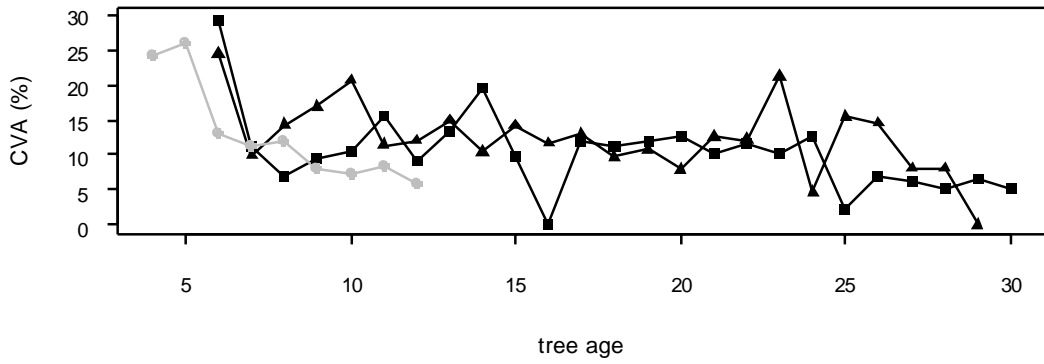**a2) heritability of annual LWD**

b2) CVA of annual LWD

c2) CVP of annual LWD

a3) heritability of annual LWP

b3) CVA of annual LWP

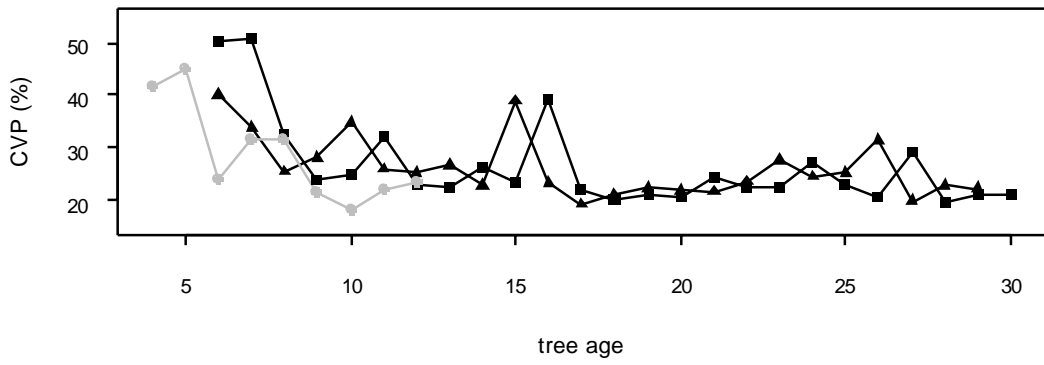**c3) CVP of annual LWP**

Figure 5
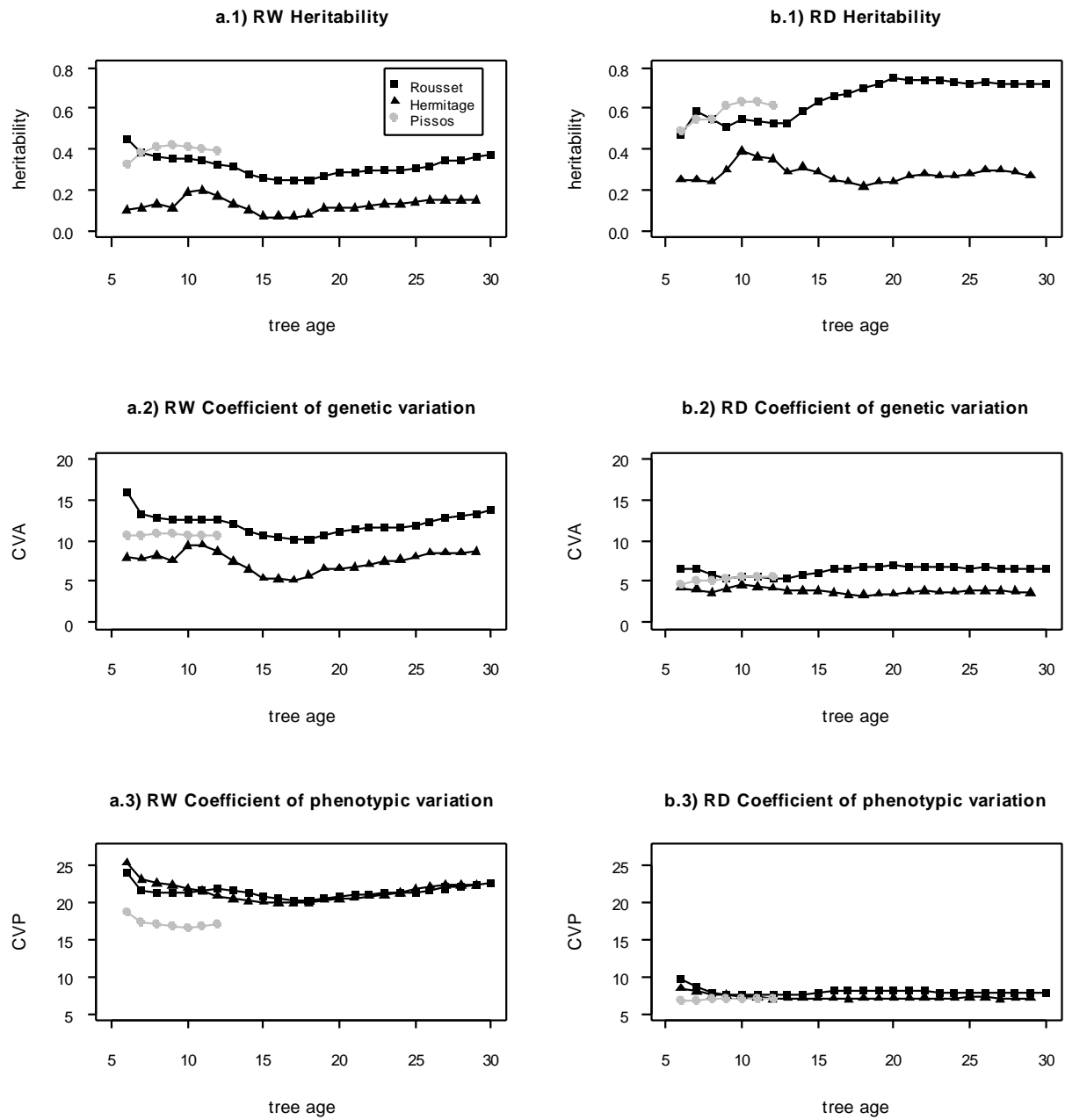

a.1) RW Heritability

b.1) RD Heritability

a.2) RW Coefficient of genetic variation

b.2) RD Coefficient of genetic variation

a.3) RW Coefficient of phenotypic variation

b.3) RD Coefficient of phenotypic variation

Figure 6

a)

Rousset

number of trees / calendar years
(1977: 4, 1978: 66, 1979: 322, 1980: 184, 1981: 26, 1982: 11, 1983: 8, 1984: 4)

Hermitage

number of trees / calendar years
(1978: 17, 1979: 220, 1980: 169, 1981: 73, 1982: 24, 1983: 13, 1984: 12, 1985: 4)

Pissos

number of trees / calendar years
(1994: 6, 1995: 540, 1996: 214, 1997: 4)

b)

Rousset

number of trees / cambial age
(22: 4, 23: 7, 24: 8, 25: 26, 26: 174, 27: 294, 28: 62, 29: 3)

Hermitage

number of trees / cambial age
(21: 4, 22: 11, 23: 13, 24: 22, 25: 71, 26: 166, 27: 216, 28: 16)

Pissos

number of trees / cambial age
(9: 4, 10: 213, 11: 532, 12: 6)

Figure 7