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## Chapter Title: Appendix C Regression Equations for Calculating Risk Indexes

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## Appendix C

Regression Equations for<br>Calculating Risk Indexes

The equations which were used to calculate risk indexes through time are listed below. The first term on the right-hand side of each equation is the constant. This is followed by the regression coefficient and mnemonic symbol of each variable included in the equations. Standard errors of the regression coefficients appear in parentheses directly below the coefficients to which they apply.

```
                    Delinquency Risk
                    CONVENTIONAL LOANS
            Sample Data
R=.3026 +. .1694RLS -.00034T + .04148P1
    (.0420) (.0001) (.0139)
        +.1191P P}+..1641P3+.1830FJ
                            (.0247) (.0133) (.0136)
            Aggregate Data
R=.3509+..1824RLS - .00046T + .0513P1 + . 1570P P
    (.0487) (.0001) (.0141) (.0140)
    FHA AND VA LOANS (SAMPLE AND AGGREGATE DATA)
R=.2972 + . .4451RLS - .00055T (.00016) - . . (.002RPI (.1808)
```

```
            Conditional Foreclosure Risk
            CONVENTIONAL LOANS
                    Sample Data
R=.0943+.0704RLS +.00049T +.0852P(1
    (.0532) (.00013) (.0190)
                                    +.0484P2 +.0560P3}+.0741F
                                    (.0302) (.0167) (.0221)
    Aggregate Data
R=.1198+.0432RLS +.00054T +.0872P1 + .0541P2
    (.0201) (.0001) (.0187) (.0231)
    fha and va loans (SAmple and agGregate data)
R=-.0618 +. .2916RLS +.00051T - .5121RPI
    (.1022) (.00019) (.2167)
    Straight Foreclosure Risk (Conventional Loans)
                                    Sample data
R=.1574 +.0400RLS +.0012T +.0285P1
    (.0160) (.0004) (.0053)
                                +.0244P\mp@subsup{P}{2}{}}+..0274\mp@subsup{P}{3}{}+.0579F
    AGGREGATE DATA
R=.1331+.0473RLS +.0023T +.0293P1 + .0513P2
    (.0167) (.0008) (.0054) (.0062)
```

