Revised 8/27/2003

<u>**DRAFT 12/16/02, RBA 166 Report Methodology**</u>

The RBA 166 "green bar" report is the output from a cobalt program run by ETS during peak registration periods. The program runs against the SIS production system and produces headcount and WSCH tallies for the four most recent quarters. The report is used by the De Anza College Records Office to track the registration activity for the upcoming /current term. This report forms the basis of the daily WSCH Report that includes the headcount and WSCH for credit students. The RBA 166 report provides only summary information on student registration activity.

In an effort to produce student and section level year-to-year comparisons of daily registration activity, the De Anza Research Office has begun storing a limited set of registration related data on a daily basis, 3 weeks prior and after the start of a term. The information includes both course level and student level data used to produce the RBA 166 report. The goal is to match the summary information used in the RBA 166 report, as well as provide detailed level data on enrollment by course section. "Current" data extracted from the RDB database is used. While the RBA 166 report pulls from the production system, rather than a copy (RDB), the program is run from the same data set as is used for the RDB extracts.

The RBA 166 report starts first with a list of "valid" courses and then counts the number of enrolled students in those courses. The WSCH calculation varies from that used for the 320 Report and that used in MAUI. Since the RBA 166 is run at the beginning of the term, when positive attendance course information is not yet available, an estimate of WSCH is produced. **This estimate normalizes all sections to 12 weeks. This methodology differs from other reports which only normalize positive attendance courses, and which normalize by dividing by 11.67 rather than 12. All else equal, the RBA 166 will tend to produce a lower estimate of current WSCH than what is produced in RDB ("Current WSCH" variable) or viewed through MAUI.**

<u>The WSCH Estimate viewed from MAUI</u>

The variable "Current WSCH", included on the RDB table is calculated in a different manner from the RBA 166 report. First, the derivation comes entirely from the course table, including the enrollment tallies (which occasionally are not in balance with registration activity). Second, the weekly contact hours for weekly or census courses are not normalized, even if the course meets for less (or more) than 12 weeks. Third, positive attendance courses that are normalized are done so using a factor of 11.67 in the numerator, rather than 12. Fourth, the RBA 166 report excludes non-credit and Adult Education / Continuing Education courses by using the course Attend Credit Status and Level codes, while MAUI excludes these sections by not including sections ending in G, N, or T.

In replicating the RBA 166 report, the following logic is used:

Source: RDB 'Current' Nightly Extracts,
             Student and Course tables,
                  Joined on Inst, Term, Section_Id, and Extract_Date

Limits:
    Inst = **'DA'**
    Term = **'2003W'**
    Rc_Level = '**U**'pper
         ('A' Adult Education and 'C' Continuing Education are not included).
    Rc_Status (Section) = '**O**'pen or '**C**'losed
         ('X' Cancelled and 'H' Hold Sections not included).
    Rc_Attend_Credit_Status = '**C**'redit Not Degree Applicable or
                               '**D**' Credit Degree Applicable
         ('N' Non Credit are not included).
    Enrollment_Status (Student) = '**E**'nrolled in section.

$$Est\_Wsch =\ Round\ (\ (\ (\ (\ (Rc\_Wch\_Tot)\ *\ Rc\_Weeks\_Duration)\ /\ 12\ )$$
$$times\ \ (Section\ Enrollment\ -\ students\ with\ a\ status\ of\ enrolled)\ )\ ,\ \ 2\ )$$

Est_WSCH is the total hours the class meets normalized to a 12-week term,
multiplied by the number of students enrolled.

NOTE:
    RBA 166 truncates the decimal.

Know Problems:
    On occasion the Tally Enrollment in the Course table will not match the number
    of students with an enrolled status – the program counts the student enrollments.

    It is possible for a section to be canceled and still have students with a status of
    enrolled. The new program will not count the section but will count the
    enrollment of the students in other sections. The green bar report does not count
    the headcount enrollment of students enrolled in a canceled section.
    (**FIXED IN SUMMER 2003**)

SQL USED TO REPLICATE THE RBA 166 REPORT

CREATE VIEW IRPASL.VW_RBA166_ESTIMATED_WSCH_HC
        (
                INST,
                TERM,
                RC_LEVEL,
                RC_STATUS,
                RC_ATTEND_CREDIT_STATUS,
                RC_ATTEND_DAY_EVE_CODE,
                COURSE_ACCOUNTING_METHOD_CD,
                FRS_ACCOUNT_NUMBER,
                SECTION_ID,
                RC_TALLY_ENR,
                RC_WEEKS_DURATION,
                RC_WCH_TOT,
                RC_CURRENT_WSCH,
                ESTIMATED_WSCH,
                RECORD_COUNT,
                SID,
                STUDENT_ACCOUNTING_METHOD_CD,
                STUDENT_SECTION_ENR_STATUS,
                CENSUS_IND,
                ZERO_RC_ENR_IND,
                COURSE_ENR_INACTIVE_IND,
                EXTRACT_DATE
)
        AS SELECT DISTINCT
                AL2.Inst,
                AL2.Term,
                AL2.RC_LEVEL,
                AL2.RC_STATUS,
                AL2.RC_ATTEND_CREDIT_STATUS,
                AL2.RC_ATTEND_DAY_EVE_CODE,
                AL2.RC_ACCT_METHOD ,
                AL2.RC_ACCT_CODE,
                AL2.SECTION_ID,
                AL2.RC_TALLY_ENR,
                AL2.RC_WEEKS_DURATION,
                AL2.RC_WCH_TOT,
                AL2.RC_CURRENT_WSCH,
                ROUND (
                **((AL2.RC_WCH_TOT * AL2.RC_WEEKS_DURATION)
                        / 12) * (count (AL1.SID))**, 2) ,
                COUNT (AL1.SID) ,

```sql
        AL1.SID,
        AL1.Accounting_Method ,
        AL1.Enrollment_Status ,
        case when

                AL2.RC_ACCT_METHOD = 'W' THEN 'Y'
                        ELSE 'N' END ,
        case when

                AL2.RC_TALLY_ENR = '0' THEN 'Y'
                        ELSE 'N' END ,
        case when

                AL2.RC_STATUS+AL1.Enrollment_Status = 'XE'
                        THEN 'Y'
                        ELSE 'N' END ,
        AL2.Extract_Date
FROM
        IRPASL.VW_STUDENT_TERM_SPE AL1,
        IRPASL.VW_CRS AL2
WHERE
                AL2.Inst = AL1.Inst
            AND AL2.Term = AL1.Term
            AND AL1.Section_ID = AL2.Section_Id
            AND AL2.Inst = 'DA'
            AND AL2.Term = '2003W'
            AND AL1.Enrollment_Status = 'E'
            AND AL2.RC_LEVEL = 'U'
            AND AL2.RC_STATUS IN ('C', 'O','X')  /*x included in view*/
            AND AL2.RC_ATTEND_CREDIT_STATUS IN ('C', 'D')
            AND AL1.EXTRACT_DATE = AL2.EXTRACT_DATE
GROUP BY
        AL2.Inst, AL2.Term,  AL2.RC_LEVEL, AL2.RC_STATUS,
        AL2.RC_ACCT_METHOD,
        AL2.RC_ATTEND_CREDIT_STATUS,
        AL2.RC_ATTEND_DAY_EVE_CODE,
        AL2.RC_ACCT_METHOD ,
        AL2.RC_ACCT_CODE ,
        AL2.SECTION_ID,
        AL2.RC_TALLY_ENR,
        AL2.RC_WEEKS_DURATION,
        AL2.RC_WCH_TOT,
        AL2.RC_CURRENT_WSCH,        AL1.SID,
        AL1.Accounting_Method ,    AL1.Enrollment_Status ,
        case when AL2.RC_ACCT_METHOD = 'W' THEN 'Y' ELSE 'N' END ,
        case when AL2.RC_TALLY_ENR = '0' THEN 'Y' ELSE 'N' END ,
        case when AL2.RC_STATUS+AL1.Enrollment_Status = 'XE'
                THEN 'Y' ELSE 'N' END ,
        AL2.Extract_Date
```