

**RAT TERATOLOGY STUDY**

**T-3351**

**FINAL REPORT**

**Submitted to**

**3M Company**

**St. Paul, Minnesota**

**December 19, 1983**



**HAZLETON** LABORATORIES AMERICA, INC.  
9200 LEBURG TURNPIKE, VIENNA, VIRGINIA 22180, U.S.A.

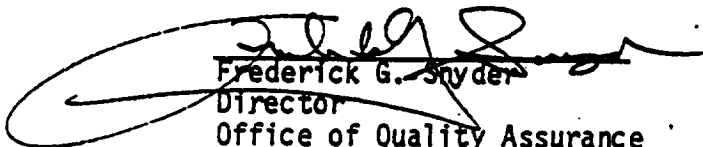
OFFICE OF QUALITY ASSURANCE

Project Title: Rat Teratology Study

Project No.: 154-160

Quality Assurance inspections of the study and review of the final report of the above referenced project were conducted according to the standard operating procedures of the Office of Quality Assurance and according to the general requirements of the Good Laboratory Practice regulations that were issued on December 22, 1978, by the Food and Drug Administration for compliance on and after June 20, 1979. Findings from the inspections and final report review were reported to management and to the study director on the following dates:

| <u>Inspections/Review</u> | <u>Findings Reported</u> | <u>Inspector/Reviewer</u> |
|---------------------------|--------------------------|---------------------------|
| Protocol 6/15/83          | 6/15/83                  | E. Burroughs              |
| Study 7/6,8,11,12/83      | 7/15/83                  | E. Burroughs              |
| Final report 12/6-9/83    | 12/16/83                 | P. Runge                  |

  
Frederick G. Snyder  
Director  
Office of Quality Assurance

SUBJECT: Rat Teratology Study  
Project No. 154-160

We, the undersigned, hereby declare that the work was performed under our supervision, according to the procedures herein described.

Study Director:

  
LAWRENCE T. WETZEL, Ph.D.  
Staff Scientist  
Department of Toxicology

Laboratory Supervision:

  
GEORGE A. BURDOCK, Ph.D.  
Rodent Toxicology I  
Department of Toxicology

Teratology:

  
RUTH S. DURLOO, B.S.  
Research Associate  
Department of Toxicology

Report Preparation:

  
BARBARA R. COLPEAN, B.A., B.S.  
Technical Writer  
Scientific Resources Department

## TABLE OF CONTENTS

|                                                                                                                         | <u>Page</u> |
|-------------------------------------------------------------------------------------------------------------------------|-------------|
| SUMMARY                                                                                                                 | 1           |
| INTRODUCTION                                                                                                            | 3           |
| CONTROL AND TEST MATERIALS                                                                                              | 3           |
| TEST ANIMALS                                                                                                            | 4           |
| METHODS                                                                                                                 | 5           |
| Mating Period                                                                                                           | 5           |
| Groups and Dosage Levels                                                                                                | 5           |
| Compound Preparation and Administration                                                                                 | 6           |
| Maternal Observations and Records                                                                                       | 6           |
| Cesarean Sacrifice                                                                                                      | 7           |
| Visceral Examination of Fetuses                                                                                         | 8           |
| Skeletal Examination of Fetuses                                                                                         | 8           |
| Tissue Preservation                                                                                                     | 8           |
| Statistical Analyses                                                                                                    | 9           |
| Specimen, Raw Data, and Final Report Storage                                                                            | 11          |
| RESULTS - MATERNAL DATA                                                                                                 | 12          |
| Mortality and Clinical Observations                                                                                     | 12          |
| Body Weights and Food Consumption                                                                                       | 12          |
| Uterine Weights                                                                                                         | 13          |
| Gross Pathology                                                                                                         | 13          |
| RESULTS - CESAREAN DATA                                                                                                 | 14          |
| Pregnancy Rates, Corpora Lutea, and Uterine Implantations                                                               | 14          |
| Fetal Viability, Weight, and Sex                                                                                        | 14          |
| Fetal Development                                                                                                       | 15          |
| TABLES                                                                                                                  |             |
| Table 1 - Summary of Maternal Clinical Observations                                                                     | 17          |
| Table 2 - Mean Maternal Body Weights and Body Weight Changes                                                            | 18          |
| Table 3 - Mean Maternal Food Consumption                                                                                | 19          |
| Table 4 - Mean Terminal Body Weights, Gravid Uterine Weights,<br>and Terminal Body Weights Minus Gravid Uterine Weights | 20          |
| Table 5 - Summary of Maternal Gross Pathology Findings                                                                  | 21          |
| Key to Tables 6 - 14                                                                                                    | 23          |
| Table 6 - Summary of Mean Ovarian and Uterine Data                                                                      | 25          |

TABLE OF CONTENTS - CONTINUED

|                                                                                                                                        | <u>Page</u> |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Table 7 - Summary of Mean Litter Data                                                                                                  | 26          |
| Table 8 - Summary of External Findings                                                                                                 | 27          |
| Table 9 - Summary of Visceral Findings                                                                                                 | 28          |
| Table 10 - Summary of Skeletal Findings                                                                                                | 29          |
| Table 11 - Incidence of External Findings Per Litter                                                                                   | 30          |
| Table 12 - Incidence of Visceral Findings Per Litter                                                                                   | 31          |
| Table 13 - Incidence of Skeletal Findings Per Litter                                                                                   | 32          |
| Table 14 - Mean Incidence of External, Visceral, and Skeletal Findings Per Litter                                                      | 33          |
| <br>APPENDICES                                                                                                                         |             |
| Appendix 1 - Individual Clinical Signs                                                                                                 | 34          |
| Key to Appendices 2, 3, and 4                                                                                                          | 38          |
| Appendix 2 - Individual and Mean Maternal Body Weights and Body Weight Changes                                                         | 39          |
| Appendix 3 - Individual and Mean Food Consumption                                                                                      | 43          |
| Appendix 4 - Individual and Mean Terminal Body Weights, Gravid Uterine Weights, and Terminal Body Weights Minus Gravid uterine Weights | 47          |
| Appendix 5 - Individual and Mean Ovarian and Uterine Data                                                                              | 51          |
| Appendix 6 - Individual and Mean Litter Data                                                                                           | 55          |
| Appendix 7 - Individual Visceral Findings in Fetuses                                                                                   | 59          |
| Appendix 8 - Individual Skeletal Findings in Fetuses                                                                                   | 67          |
| Appendix 9 - References                                                                                                                | 75          |



**HAZLETON** LABORATORIES AMERICA, INC.

9200 LEESBURG TURNPIKE, VIENNA, VIRGINIA 22180, U.S.A.

SPONSOR: 3M Company

DATE: December 19, 1983

MATERIAL: T-3351

SUBJECT: FINAL REPORT  
Rat Teratology Study  
Project No. 154-160

#### SUMMARY

T-3351, suspended in corn oil at concentrations intended to deliver 1, 5, or 10 mg/kg/day (Groups 2, 3, and 4, respectively), was administered by oral intubation to mated female Sprague-Dawley CD® rats on presumed gestation Days 6-15. A fourth group (Group 1) of mated females served as the control group and received the vehicle only.

Two Group 4 females died. Treatment-related clinical observations noted in Groups 3 and 4 included thinness, hunched appearances, rough haircoats, alopecia, and anorexia. Food consumed by Groups 3 and 4 animals was significantly less than control both during treatment and throughout gestation. Compared to control body weight gains, significantly less body weight was gained by Groups 3 and 4 females throughout gestation. Actual loss of body weight occurred in Groups 3 and 4 animals once treatment had been initiated. Terminal body weight minus gravid uterine weight was also significantly decreased in

- 2 -

Groups 3 and 4. Treatment-related gross pathology in Group 4 animals included incidences of gastrointestinal tract effects.

Statistical analysis revealed a positive treatment-related trend in fetal loss, attributable primarily to an increased incidence of late resorbing fetuses and dead fetuses in litters from Group 4 dams. Mean male and female fetal body weights were significantly decreased in fetuses Groups 3 and 4 litters. Significant increases in external and visceral anomalies occurred in fetuses from Group 4 dams and included subcutaneous edema, cleft palate, and cryptorchism. Anomalies were observed primarily in fetuses from Group 4 dams exhibiting signs of severe maternal toxicity, i.e., decreased food consumption and weight loss. Fetal toxicity manifested as increased numbers of late resorbing fetuses and dead fetuses, decreased fetal body weights, and delays in skeletal system ossification occurred in litters derived from that group as well.

The specificity and frequency of these results indicate that administration of T-3351 to pregnant rats during Days 6-15 of gestation at a dose of 10 mg/kg results in maternal toxicity, fetotoxicity and an increased incidence of external and visceral anomalies and skeletal variants.

T-3351 did not appear to be teratogenic in rats at dose levels less than or equal to 5 mg/kg.

- 3 -

## INTRODUCTION

This study was designed to evaluate the embryo/fetal toxicity and teratogenic potential of T-3351 when administered by oral gavage to pregnant rats during the period of fetal organogenesis. The rats were placed in breeding on June 27, 1983, and cesarean sections were completed on July 26, 1983. The study was conducted according to a protocol designed to satisfy existing guidelines of the Food and Drug Administration as well as Good Laboratory Practice Regulations. This report presents and discusses the methods and results from the study.

## CONTROL AND TEST MATERIALS

The vehicle and control material, Duke's® Corn Oil (Lot No. 80275), a slightly viscous, yellow liquid, was received from the C. F. Sauer Co., Richmond, Virginia, and was stored at room temperature.

The test material, T-3351, a white powder, was received from the sponsor on January 5, 1983, and was stored at room temperature. The test material was assumed to be 100% active compound. Information on the methods of synthesis, stability, as well as data on composition, or other characteristics which define the test material, are on file with the sponsor.



- 4 -

#### TEST ANIMALS

Two hundred sixty (one hundred thirty/sex) sexually mature, cesarean-derived Sprague-Dawley CrI:CD<sup>+</sup> (SD)BR rats were received from Charles River Breeding Laboratories, Inc., Kingston, New York, on June 8, 1983. The rat was selected for use in this study because historically this species has been used in teratology studies and is required by appropriate regulatory agencies. The animals were housed individually in elevated stainless-steel cages and acclimated to laboratory conditions for approximately three weeks prior to initiation of the study. During this time, two male rats were euthanized due to an unthrifty appearance. Following an examination by a staff veterinarian for health status, one hundred twenty eight rats/sex were placed in breeding.

The rats were housed one male and one female per cage during breeding. Following confirmation of mating, the females were uniquely identified by ear tags and individually housed in elevated stainless-steel cages. Food (Purina Rodent Laboratory Chow<sup>®</sup> 5001) and tap water (via an automatic watering system) were available ad libitum. The mean room temperature  $\pm$  the standard deviation was 72.9<sup>°</sup>F  $\pm$  1.36 and the mean relative humidity  $\pm$  the standard deviation was 69.1%  $\pm$  3.16 during the study. A twelve-hour light/dark cycle was maintained.

- 5 -

## METHODS

### Mating Period

During the mating period, one female was paired with one male until mating was confirmed or until two weeks had elapsed. A sufficient number of mated females, during the course of this study, were obtained after nine days of cohabitation and mating was discontinued. Daily vaginal examinations of each female were performed to detect the presence and viability of sperm or the presence of a copulatory plug. The day of observation of sperm or copulatory plug was designated as "Day 0" of gestation.

### Groups and Dosage Levels

Upon confirmation of mating, each female was assigned to one of the following groups by use of a table of random numbers (Cochran and Cox, 1957).

| <u>Group</u> | <u>Number of Females</u> | <u>Dose<sup>a</sup></u><br><u>mg/kg/day</u> |
|--------------|--------------------------|---------------------------------------------|
| 1            | 25                       | 0                                           |
| 2            | 25                       | 1                                           |
| 3            | 25                       | 5                                           |
| 4            | 25                       | 10                                          |

<sup>a</sup> Based on individual animal body weights at each weighing interval during the dosing period. Animals were dosed on Days 6 through 15 of presumed gestation.

All males and all remaining females were sacrificed via carbon dioxide asphyxiation and discarded without necropsy once a sufficient number of matings were confirmed.

- 6 -

#### Compound Preparation and Administration

Suspensions of the test material in the corn oil vehicle were prepared on a weight per volume basis. The required amount of compound for each level was weighed on an electronic Arbor 126 balance and transferred to a 7 ml tissue grinder. Approximately 3 ml of corn oil was added and the test material was ground into a fine suspension. This suspension was transferred to a precalibrated beaker and any remaining compound in the tissue grinder was rinsed into the beaker. Additional corn oil was added to the suspension to produce the desired concentration and the suspension was mixed on a magnetic stirrer. Prepared suspensions were mixed with a magnetic stirrer during dosing.

Females were given the appropriate dosing suspension or vehicle by oral intubation on a daily basis beginning on Day 6 and continuing through Day 15 of presumed gestation. The dose administered to each female was based on the most recently recorded individual body weight. The test material was administered orally because of the relative ease and accuracy of dosing.

Fresh dosing suspensions were prepared weekly and stored under refrigeration (approximately 40°F). Samples of each test mixture as well as the vehicle were sent to the sponsor for analysis.

#### Maternal Observations and Records

All animals were examined twice daily for mortality and moribundity (from day of receipt through animal sacrifice) and once daily for clinical signs of toxicity and pharmacologic effects (throughout gestation). Individual body weights were recorded at initiation and on Days

- 7 -

6, 8, 12, 16, and 20 of presumed gestation. Food consumption during gestation was determined on Days 6, 8, 12, 16, and 20.

#### Cesarean Sacrifice

A gross necropsy was performed on all females found dead or terminally sacrificed. The uterus and ovaries from found dead females were removed and examined for the number of implantation sites and corpora lutea. Prior to terminal sacrifice and cesarean section on Day 20 of gestation, all surviving females were assigned random numbers so that all personnel performing cesarean sections and/or subsequent external, visceral, or skeletal examinations of the fetuses were unaware of the dose level from which the animals were derived.

On Day 20 of gestation, all surviving females were weighed and sacrificed by carbon dioxide asphyxiation. The uterus from each female was excised, weighed, and examined for the number and placement of uterine implantation sites, number of live and dead fetuses, number of early and late resorbing fetuses, and any abnormalities. The uterus was not reweighed after the contents were removed. The ovaries were examined for the number of corpora lutea. Each female was examined grossly for any abnormalities.

Each fetus was sexed, weighed, examined externally, and tagged for identification. Beginning at the ovarian end of the left uterine horn and continuing past the cervix into the right uterine horn, the first available fetus was fixed in Bouin's solution for visceral evaluation. The next two fetuses were processed for skeletal evaluation. This

- 8 -

process was repeated until all available fetuses were selected for evaluation. Dead fetuses were discarded without examination.

#### Visceral Examination of Fetuses

Approximately one-third of all live fetuses from each litter was fixed in Bouin's solution and sectioned by the Wilson Technique for assessing soft tissue development (Wilson and Warkany, 1965). During visceral examination of the fetuses, particular attention was paid to examination of the eyes, palate, and brain. Stainless-steel razor blades were used for sectioning procedures.

#### Skeletal Examination of Fetuses

The remaining fetuses were eviscerated and placed in 95% ethyl alcohol. After proper fixation and dehydration, the skeletons were macerated and stained in 1% KOH with an alizarin red solution, and cleared in 30% glycerol (modified Staples and Schnell, 1964). This evaluation included examination of the skull, long bones, vertebral column, rib cage, extremities, and pectoral and pelvic girdles. Bone alignment and degree of ossification were assessed.

#### Tissue Preservation

The following are the procedures for preservation of the various tissues: (1) The uterus and ovaries of each animal were preserved in 10% neutral buffered formalin; (2) The fetuses examined by Wilson's technique were placed in tissue capsules, preserved in 95% ethyl alcohol and sealed in plastic bags after sectioning; (3) Fetuses stained for skeletal

- 9 -

examination were preserved in plastic bags containing a glycerol:ethyl alcohol (1:1) solution with several crystals of thymol to retard bacterial and mold growth.

### Statistical Analyses

Maternal body weight changes (Days 6-8, 6-16, 16-20, and 0-20), total food consumption (Days 7-8, 7-16, 17-20, and 0-20), gravid uterine weight, and terminal body weight minus gravid uterine weight data of the control group were compared statistically against the data of the compound-treated groups of the same sex.

Analyses of the above data were performed in the following order: Levene's test for homogeneity of variance (Levene, 1960; Draper and Hunter, 1969) was performed and if the variances proved to be homogeneous, the data were analyzed by one-way classification analysis of variance (ANOVA) (Winer, 1971). If the variance proved to be heterogeneous, a series of transformations was performed until variance homogeneity was achieved. These transformations were  $\log_{10}$ , square ( $x^2$ ), square root ( $x^{1/2}$ ), reciprocal ( $1/x$ ), angular (arcsine  $x^{1/2}$ ), and rank, in that order. If rank transformation was ineffective in removing variance heterogeneity, ANOVA of ranked data was completed. If ANOVA of untransformed or transformed data was significant, Dunnett's t-test (Dunnett, 1955 and 1964) was used for control vs. compound-treated group mean comparisons. If ANOVA was not significant, the analysis was complete.

Data transformations are designated throughout this report as presented on the following page.

- 10 -

- A = Data analyzed following  $\log_{10}$  transformation.
- B = Data analyzed following square ( $X^2$ ) transformation.
- C = Data analyzed following square root ( $X^{1/2}$ ) transformation.
- D = Data analyzed following reciprocal ( $1/X$ ) transformation.
- E = Data analyzed following angular (arcsine  $X^{1/2}$ ) transformation.
- F = Data analyzed following rank transformation.

Mean fetal body weights per litter were statistically analyzed as follows: Bartlett's test for homogeneity of variances (Bartlett, 1937) was performed by one-way classification of covariance (ANCOVA) (Winer, 1971). If ANCOVA was significant, control vs. treatment group comparisons were analyzed using the Games and Howell modification of the Tukey-Kramer honestly significant difference test (Games and Howell, 1976).

Tests for homogeneity of variances, ANOVA, and ANCOVA were evaluated at the 5.0% one-tailed probability level. Control vs. compound-treated group mean comparisons of the above data were evaluated at the 5.0% two-tailed probability level.

In addition to the above data, percent fetal viability, percent fetal loss (dead and resorbing fetuses), percent early, late, and total resorptions, and the number of dead fetuses were analyzed by nonparametric one-way ANOVA (Kruskal and Wallis, 1952, 1953; Miller, 1966) and the Terpstra-Jonckheere test for trend (Terpstra, 1952; Jonckheere, 1954). The litter was used as the experimental unit. The teratology data listed on the next page were analyzed using the

- 11 -

Cochran-Armitage test for linear trend in proportions (Cochran, 1954; Armitage, 1955; Fleiss, 1981) and Fisher's "exact" test (Fisher, 1950).

Visceral Anomalies

Subcutaneous edema  
Cleft palate  
Cryptorchism  
Number of litters affected  
Number of fetuses affected

Skeletal Variants

Skull  
Pectoral girdle  
Rib cage  
Vertebral column  
Pelvic girdle  
Limbs  
Bone alignment  
Number of litters affected  
Number of fetuses affected

If a significant trend was noted, the results of Fisher's "exact" test were evaluated at the one-tailed, 5% level. If a significant trend was not observed, or if there was a significant trend with severe departure from it, the results of Fisher's "exact" test were evaluated at the two-tailed, 5% level. When using these statistical tests on indices, the actual proportions prior to conversion to percentages were the data that were analyzed.

Statistical references are appended to this report, and statistically significant differences, as indicated by the aforementioned tests, are designated throughout this report by the term "significant" and/or as follows:

S+ = Significantly higher than the control value.

S- = Significantly lower than the control value.

Specimen, Raw Data, and Final Report Storage

All specimens, raw data, and the final report are stored in the archives of Hazleton Laboratories America, Inc.



- 12 -

## RESULTS - MATERNAL DATA

### Mortality and Clinical Observations

Individual clinical observations are presented in Appendix 1. A summary of clinical observations is presented in Table 1.

Two Group 4 females were found dead on Day 17 prior to cesarean section on Day 20 of gestation. No other animals were found dead or sacrificed in extremis during the study.

Treatment-related clinical observations were noted in several of the Groups 3 and 4 animals during the treatment and posttreatment phases. These observations included hunched and thin appearances, anorexia, bloody discharge from vagina, urine stains, alopecia, rough haircoat and bloody crust.

### Body Weights and Food Consumption

Individual and mean body weights and body weight changes are presented in Appendix 2 and Table 2, respectively. Individual and mean food consumption values are presented in Appendix 3 and Table 3, respectively.

Statistical analysis revealed a significantly lower than control mean body weight gain in the Groups 3 and 4 females for Days 6-8, 6-16, and 0-20 of presumed gestation. These findings were considered to be treatment related since, compared to the treatment phase, there was a proportionally greater than control increase in mean body weight gain in the treated females during the posttreatment phase (Days 16-20).



- 13 -

Mean total food consumption was significantly lower in the Group 4 females during Days 17-20. Significant decreases in mean food consumption were also noted in the Groups 3 and 4 females during Days 7-16 and 0-20 of presumed gestation when compared to control, concomitant with the decrease in body weight gain during the same intervals.

#### Uterine Weights

Individual and mean terminal body weights, gravid uterine weights, and terminal body weights minus gravid uterine weights are presented in Appendix 4 and Table 4, respectively.

The mean gravid uterine weight of the Group 4 females was significantly lower than control. The mean terminal body weights minus the gravid uterine weights were lower in the treated groups when compared to the control group, with significant decreases noted in the Groups 3 and 4 females.

#### Gross Pathology

A summary of maternal gross pathology findings is presented in Table 5.

An increased incidence of stomach lesions was noted in the Group 4 animals. Remaining gross pathology findings were considered incidental.

- 14 -

## RESULTS - CESAREAN DATA

Individual and mean ovarian and uterine data are presented in Appendix 5. Individual and mean litter data are presented in Appendix 6. Individual visceral and skeletal findings in fetuses are presented in Appendices 7 and 8, respectively. Summary ovarian and uterine data are presented in Table 6. Summary litter data are presented in Table 7. Summaries of the external, visceral, and skeletal findings are presented in Tables 8 through 14.

### Pregnancy Rates, Corpora Lutea, and Uterine Implantations

Pregnancy rates, number of corpora lutea, and implantation efficiencies were comparable for all groups.

### Fetal Viability, Weight, and Sex

The mean incidence of early resorptions was comparable between the control and treated groups. Nonparametric analyses of the mean incidence of late resorptions, total resorptions, number of dead fetuses, and fetal loss did not indicate statistical significance. However, there was a significant linear trend towards an increased incidence in these data with respect to control. The primary trend component was contributed by the high-dose group. The mean fetal weights of the Groups 3 and 4 males and females were significantly lower than their respective controls. The percent of male fetuses was 52.29%, 54.24%, and 60.38% for Groups 2, 3, and 4, respectively, and 44.01% for the control group.

- 15 -

Fetal Development

Statistically significant findings in the teratology data are presented in the following chart:

**Statistically Significant Teratology Data**

| <u>Teratology<br/>Observation</u> | <u>Group:</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>Trend</u> | <u>Departure<br/>from Trend</u> |
|-----------------------------------|---------------|----------|----------|----------|--------------|---------------------------------|
| Visceral anomalies                |               |          |          |          |              |                                 |
| Subcutaneous edema                |               |          |          | S+       | S            | S                               |
| Cleft palate                      |               |          |          | S+       | S            | S                               |
| Cryptorchism                      |               |          |          | S+       | S            | NS                              |
| Number of litters affected        |               |          |          | S+       | S            | NS                              |
| Number of fetuses affected        |               |          |          | S+       | S            | S                               |
| Skeletal variants                 |               |          |          |          |              |                                 |
| Skull                             |               | S+       |          | S+       | S            | S                               |
| Pectoral girdle                   |               |          |          | S+       | S            | S                               |
| Rib cage                          |               |          | S+       | S+       | S            | S                               |
| Vertebral column                  |               |          |          | S+       | S            | S                               |
| Pelvic girdle                     |               | S-       |          | S+       | S            | S                               |
| Limbs                             |               |          |          | S+       | S            | S                               |
| Bone alignment                    |               |          |          | S+       | S            | NS                              |
| Number of litters affected        |               |          |          |          | S            | NS                              |
| Number of fetuses affected        |               |          |          | S+       | S            | S                               |

S = Significant  
 NS = Not significant

- 16 -

Significant treatment-related increases in the incidences of visceral anomalies and skeletal variants were noted in the Group 4 fetuses.

The number of Group 4 litters containing anomalous fetuses was also significantly increased compared to control. External and visceral anomalies observed included cleft palate, subcutaneous edema, and cryptorchism. Those anomalies occurred primarily in fetuses derived from litters whose mean male or female pup body weights were significantly below those of the corresponding control litters. Dams producing affected litters had significantly decreased food consumption throughout treatment and decreased body weight gain or actual body weight loss during gestation. Numerous clinical signs of toxicity were also present in these animals.

Table 1  
Summary of Maternal Clinical Observations<sup>a</sup>  
Rat Teratology Study of T-3351

| Observation                                                | Dose Level (mg/kg): | Group: | Pretreatment |    |    |    | Treatment |    |    |    | Posttreatment |    |    |    |
|------------------------------------------------------------|---------------------|--------|--------------|----|----|----|-----------|----|----|----|---------------|----|----|----|
|                                                            |                     |        | Days 0-5     |    |    |    | Days 6-15 |    |    |    | Days 16-20    |    |    |    |
|                                                            |                     |        | 1            | 2  | 3  | 4  | 1         | 2  | 3  | 4  | 1             | 2  | 3  | 4  |
|                                                            |                     |        | 0            | 1  | 5  | 10 | 0         | 1  | 5  | 10 | 0             | 1  | 5  | 10 |
| Number of females examined                                 |                     |        | 25           | 25 | 25 | 25 | 25        | 25 | 25 | 25 | 25            | 25 | 25 | 25 |
| Number of females appearing normal                         |                     |        | 25           | 25 | 25 | 25 | 21        | 21 | 16 | 11 | 21            | 20 | 17 | 5  |
| Number of females found dead or sacrificed prior to Day 20 |                     |        | 0            | 0  | 0  | 0  | 0         | 0  | 0  | 0  | 0             | 0  | 0  | 2  |
| Hunched                                                    |                     |        |              |    |    |    |           |    | 2  | 7  |               |    | 2  | 16 |
| Thin                                                       |                     |        |              |    |    |    |           | 1  | 1  | 7  |               |    | 2  | 15 |
| Anorexia                                                   |                     |        |              |    |    |    |           |    |    | 1  |               |    | 1  | 11 |
| Ataxia                                                     |                     |        |              |    |    |    |           |    |    |    |               |    |    | 1  |
| Sensitive to touch                                         |                     |        |              |    |    |    |           |    |    | 1  |               |    |    | 1  |
| Soft feces                                                 |                     |        |              |    |    |    |           |    |    | 1  |               |    |    |    |
| Bloody discharge from vagina                               |                     |        |              |    |    |    |           |    |    |    |               |    |    | 3  |
| Urine stains                                               |                     |        |              |    |    |    |           |    |    | 1  | 1             |    | 1  | 5  |
| Alopecia                                                   |                     |        |              |    |    |    | 3         | 3  | 5  | 9  | 3             | 5  | 4  | 12 |
| Rough haircoat                                             |                     |        |              |    |    |    |           |    | 6  | 6  | 1             |    | 2  | 13 |
| Bloody crust                                               |                     |        |              |    |    |    |           |    |    |    | 1             |    | 1  | 6  |
| Small eye                                                  |                     |        |              |    |    |    |           |    | 1  |    |               |    | 1  |    |
| Swollen neck                                               |                     |        |              |    |    |    | 1         |    |    |    |               |    |    |    |

<sup>a</sup>Numerals indicate the number of animals with that particular finding.

Table 2  
Mean Maternal Body Weights and Body Weight Changes  
Rat Teratology Study of T-3351

| <u>Body Weight</u> | <u>Day(s)</u>      | <u>Group 1</u><br>0 mg/kg | <u>Group 2</u><br>1 mg/kg | <u>Group 3</u><br>5 mg/kg | <u>Group 4</u><br>10 mg/kg |
|--------------------|--------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| Mean Weight (g)    | 0                  | 270.08                    | 271.03                    | 263.25                    | 269.30                     |
|                    | N:                 | 24                        | 23                        | 23                        | 22                         |
|                    | 6                  | 298.47                    | 296.05                    | 292.80                    | 297.72                     |
|                    | N:                 | 24                        | 23                        | 23                        | 22                         |
|                    | 8                  | 301.39                    | 298.04                    | 288.22                    | 293.63                     |
|                    | N:                 | 24                        | 23                        | 23                        | 22                         |
| Mean Change (g)    | 12                 | 318.31                    | 308.18                    | 290.09                    | 276.25                     |
|                    | N:                 | 24                        | 23                        | 23                        | 22                         |
|                    | 16                 | 338.53                    | 329.20                    | 305.34                    | 265.12                     |
|                    | N:                 | 24                        | 23                        | 23                        | 22                         |
|                    | 20                 | 395.41                    | 389.69                    | 367.11                    | 301.91                     |
|                    | N:                 | 24                        | 23                        | 23                        | 22                         |
| Mean Change (g)    | 0-6                | 28.38                     | 25.03                     | 29.54                     | 28.43                      |
|                    | 6-8                | 2.93                      | 1.99                      | -4.58 <sup>S-</sup>       | -4.05 <sup>S-</sup>        |
|                    | 6-12               | 19.84                     | 12.13                     | -2.70                     | -21.48                     |
|                    | 6-16 <sup>F</sup>  | 40.06                     | 33.15                     | 12.54 <sup>S-</sup>       | -32.60 <sup>S-</sup>       |
|                    | 6-20               | 96.95                     | 93.64                     | 74.32                     | 5.40                       |
|                    | 16-20 <sup>F</sup> | 56.88                     | 60.45                     | 61.77                     | 36.63                      |
|                    | 0-20 <sup>F</sup>  | 125.33                    | 118.67                    | 103.86 <sup>S-</sup>      | 33.45 <sup>S-</sup>        |

N: Indicates the sample size on which the mean calculations were based. Only pregnant females were used in mean calculations.

Table 3  
Mean Maternal Food Consumption(g)  
Rat Teratology Study of T-3351

| <u>Interval</u><br>Days |    | <u>Group 1</u><br>0 mg/kg | <u>Group 2</u><br>1 mg/kg | <u>Group 3</u><br>5 mg/kg   | <u>Group 4</u><br>10 mg/kg  |
|-------------------------|----|---------------------------|---------------------------|-----------------------------|-----------------------------|
| 0-6                     | N: | 132.67<br>24              | 128.01<br>23              | 134.92<br>23                | 133.33<br>22                |
| 7-8                     | N: | 37.48<br>24               | 35.03<br>23               | 31.53<br>22                 | 37.64<br>22                 |
| 9-12                    | N: | 74.58<br>24               | 68.38<br>23               | 59.58<br>20                 | 36.86<br>18                 |
| 13-16                   | N: | 78.52<br>24               | 68.45<br>23               | 57.89<br>20                 | 22.75<br>19                 |
| 17-20 <sup>F</sup>      | N: | 97.25<br>24               | 97.17<br>23               | 87.87<br>19                 | 39.33 <sup>S</sup> -<br>14  |
| 7-16 <sup>B</sup>       | N: | 190.58<br>24              | 171.85<br>23              | 147.91 <sup>S</sup> -<br>19 | 97.63 <sup>S</sup> -<br>17  |
| 0-20 <sup>B</sup>       | N: | 420.49<br>24              | 397.03<br>23              | 363.14 <sup>S</sup> -<br>18 | 262.89 <sup>S</sup> -<br>13 |

N: Indicates the sample size on which the mean calculations were based. Only pregnant females were used in mean calculations. Invalid food consumption values were not included in mean calculations.



Table 4  
 Mean Terminal Body Weights, Gravid Uterine Weights, and Terminal Body Weights  
 Minus Gravid Uterine Weights  
 Rat Teratology Study of T-3351

| <u>Group and Dose Level</u> |    | <u>Terminal Body Weight</u> | <u>Gravid Uterine Weight</u> <sup>B</sup> | <u>Terminal Body Weight Minus Gravid Uterine Weight</u> <sup>F</sup> |
|-----------------------------|----|-----------------------------|-------------------------------------------|----------------------------------------------------------------------|
| 1                           |    | 395.41                      | 74.35                                     | 321.07                                                               |
| 0 mg/kg                     | N: | 24                          | 24                                        | 24                                                                   |
| 2                           |    | 389.69                      | 75.59                                     | 314.10                                                               |
| 1 mg/kg                     | N: | 23                          | 23                                        | 23                                                                   |
| 3                           |    | 367.11                      | 73.46                                     | 293.38 <sup>S-</sup>                                                 |
| 5 mg/kg                     | N: | 23                          | 22 <sup>a</sup>                           | 22 <sup>a</sup>                                                      |
| 4                           |    | 301.91                      | 60.51 <sup>S-</sup>                       | 241.40 <sup>S-</sup>                                                 |
| 10 mg/kg                    | N: | 20                          | 20                                        | 20                                                                   |

<sup>a</sup>The gravid uterine weight of one Group 3 female was inadvertently not recorded.

N: Indicates the sample size on which the mean calculations were based. Only pregnant females were used in mean calculations.

Table 5  
Summary of Maternal Gross Pathology Findings  
Rat Teratology Study of T-3351

| <u>Organ and Description</u>      | Group:<br>Dose Level (mg/kg): | <u>1</u><br>0 | <u>2</u><br>1 | <u>3</u><br>5 | <u>4</u><br>10 |
|-----------------------------------|-------------------------------|---------------|---------------|---------------|----------------|
| Number of animals examined        |                               | 25            | 25            | 25            | 23 (2)         |
| Number with no gross pathology    |                               | 22            | 24            | 19            | 16 (0)         |
| THYMUS                            |                               |               |               |               |                |
| Firm                              |                               | 1             |               |               |                |
| Enlarged                          |                               | 1             |               |               |                |
| LUNG                              |                               |               |               |               |                |
| Focal areas - dark red            |                               |               |               |               | 1              |
| HEART                             |                               |               |               |               |                |
| Right atrium enlarged             |                               |               |               |               | 1              |
| SPLEEN                            |                               |               |               |               |                |
| Enlarged                          |                               | 1             |               |               |                |
| Cystic                            |                               |               |               |               | 1              |
| KIDNEY(S)                         |                               |               |               |               |                |
| Enlarged                          |                               | 1             |               |               |                |
| Irregularly shaped                |                               | 1             |               |               |                |
| Pale                              |                               | 1             |               |               |                |
| Pelvis dilated                    |                               |               | 1             | 2             |                |
| Constricted across midline        |                               |               |               | 5             | 2 (1)          |
| Mottled tan and dark red          |                               |               |               | 1             |                |
| Pelvis had a firm, white calculus |                               |               | 1             |               |                |
| ABDOMEN                           |                               |               |               |               |                |
| Tissue mass                       |                               | 1             |               |               |                |

( ) = Findings in animals found dead during the study.

Table 5 - Continued  
 Summary of Maternal Gross Pathology Findings  
 Rat Teratology Study of T-3351

| <u>Organ and Description</u>     | Group:<br>Dose Level (mg/kg):               | <u>1</u><br>0 | <u>2</u><br>1 | <u>3</u><br>5 | <u>4</u><br>10 |
|----------------------------------|---------------------------------------------|---------------|---------------|---------------|----------------|
| STOMACH                          |                                             |               |               |               |                |
| Glandular mucosa                 | - pitted areas                              |               |               |               | 1              |
|                                  | - reddened                                  |               |               |               | (1)            |
|                                  | - depressed area - red                      |               |               |               | (1)            |
| Nonglandular mucosa              | - raised area - dark (thin section in wall) |               |               |               | 1              |
|                                  | - pinpoint, depressed areas                 |               |               |               | 1              |
|                                  | - walls thin                                |               |               |               | (1)            |
|                                  | - thickened area - red                      |               |               |               | (1)            |
|                                  | - dark foci                                 |               |               |               | 1              |
| Distended with dark red material |                                             |               |               |               | (1)            |
| Contained yellow mucous          |                                             |               |               |               | 1              |
| Walls thickened                  |                                             |               |               |               | 1              |
| Walls thin                       |                                             |               |               |               | (1)            |
| PEYER'S PATCHES                  |                                             |               |               |               |                |
| Enlarged/prominent               |                                             | 1             |               |               | 1              |
| MANDIBULAR LYMPH NODES           |                                             |               |               |               |                |
| Reddened                         |                                             |               |               |               | 1              |
| ALL LYMPH NODES                  |                                             |               |               |               |                |
| Enlarged                         |                                             | 1             |               |               |                |
| URINARY BLADDER                  |                                             |               |               |               |                |
| Walls thickened                  |                                             |               |               |               | 1              |
| Contained thick white fluid      |                                             |               |               |               | 1              |
| OVARY(IES)                       |                                             |               |               |               |                |
| Clear fluid-filled cyst          |                                             | 1             |               |               |                |

( ) = Findings in animals found dead during the study.

Key to Tables 6-14

- Pregnancy rate (percent) - (number of pregnant rats/number of rats mated) x 100.
- Survival Rate (percent) - (number of rats surviving to Day 20/number of rats placed on study at initiation) x 100.
- Mean Implantation Efficiency (percent) - Group mean of ([implantations per litter/corpora lutea per litter] x 100).
- Mean Incidence of Resorptions (percent)<sup>a</sup> - Group mean of ([resorptions per litter/implantations per litter] x 100).
- Mean Incidence of Fetal Mortality (percent) - Group mean of ([dead and re-sorbing fetuses per litter/implantations per litter] x 100).
- Mean Incidence of Fetal Viability (percent) - Group mean of ([live fetuses per litter/implantations per litter] x 100).
- Mean Incidence of External Variants (percent) - Group mean of ([number of fetuses per litter with external variants/number of fetuses per litter examined externally] x 100).
- Mean Incidence of External Anomalies (percent) - Group mean of ([number of fetuses per litter with external anomalies/number of fetuses per litter examined externally] x 100).
- Mean Incidence of Visceral Variants (percent) - Group mean of ([number of fetuses per litter with visceral variants/number of fetuses per litter examined viscally] x 100).

<sup>a</sup>Values calculated separately for early, late, and total resorptions.

Key to Tables 6-14 - Continued

Mean Incidence of Visceral Anomalies (percent) - Group mean of ([number of fetuses per litter with visceral anomalies/number of fetuses per litter examined viscera] x 100).

Mean Incidence of Skeletal Variants (percent) - Group mean of ([number of fetuses per litter with skeletal variants/number of fetuses per litter examined skeletally] x 100).

Mean Incidence of Skeletal Anomalies (percent) - Group mean of ([number of fetuses per litter with skeletal anomalies/number of fetuses per litter examined skeletally] x 100).

Table 6  
Summary of Mean Ovarian and Uterine Data  
Rat Teratology Study of T-3351

|                                           | Group:<br>Dose Level (mg/kg): | 1<br>0 | 2<br>1 | 3<br>5           | 4<br>10 |
|-------------------------------------------|-------------------------------|--------|--------|------------------|---------|
| Number of females with mating confirmed   |                               | 25     | 25     | 25               | 25      |
| Number of pregnant females                |                               | 24     | 23     | 23               | 22      |
| Pregnancy rate (%)                        |                               | 96     | 92     | 92               | 88      |
| Number of females surviving to Day 20     |                               | 25     | 25     | 25               | 23      |
| Survival rate (%)                         |                               | 100    | 100    | 100              | 92      |
| Mean number of:                           |                               |        |        |                  |         |
| Corpora lutea                             |                               | 16.6   | 15.9   | 15.8             | 16.6    |
| Implantations                             |                               | 14.5   | 14.4   | 14.6             | 14.4    |
| Early resorptions                         |                               | 1.0    | 0.8    | 0.7              | 1.6     |
| Late resorptions                          |                               | 0.0    | 0.0    | 0.0 <sup>a</sup> | 0.9     |
| Total resorptions                         |                               | 1.0    | 0.8    | 0.7              | 2.4     |
| Indices calculated on a per litter basis: |                               |        |        |                  |         |
| Mean implantation efficiency (%)          |                               | 87.90  | 91.14  | 92.70            | 87.72   |
| Mean incidence of early resorptions (%)   |                               | 7.00   | 5.53   | 4.70             | 11.32   |
| Mean incidence of late resorptions (%)    |                               | 0.00   | 0.00   | 0.29             | 5.10    |
| Mean incidence of total resorptions (%)   |                               | 7.00   | 5.53   | 5.00             | 16.42   |

<sup>a</sup>One late resorption was noted for female No. 27086, therefore, the actual mean was 0.04.

Table 7  
Summary of Mean Litter Data<sup>a</sup>  
Rat Teratology Study of T-3351

|                                                    | Group:<br>Dose Level (mg/kg): | 1<br>0 | 2<br>1 | 3<br>5             | 4<br>10            |
|----------------------------------------------------|-------------------------------|--------|--------|--------------------|--------------------|
| Mean number of:                                    |                               |        |        |                    |                    |
| Fetuses - dead                                     |                               | 0.0    | 0.0    | 0.0 <sup>b</sup>   | 0.5                |
| - live                                             |                               | 13.5   | 13.6   | 13.8               | 11.6               |
| Indices calculated on a per litter basis:          |                               |        |        |                    |                    |
| Mean incidence of fetal mortality (%) <sup>c</sup> |                               | 7.00   | 5.53   | 5.28               | 19.43              |
| Mean incidence of fetal viability (%)              |                               | 93.00  | 94.47  | 94.72              | 80.59              |
| Mean percent males (%)                             |                               | 44.01  | 52.29  | 54.24              | 60.38              |
| Live fetuses                                       |                               |        |        |                    |                    |
| Mean body weight (g) <sup>d</sup>                  |                               |        |        |                    |                    |
| Males - unadjusted mean                            |                               | 3.28   | 3.23   | 3.10               | 2.64               |
| - covariance adjusted mean                         |                               | 3.28   | 3.23   | 3.10 <sup>S-</sup> | 2.63 <sup>S-</sup> |
| Females - unadjusted mean                          |                               | 3.17   | 3.10   | 2.97               | 2.57               |
| - covariance adjusted mean                         |                               | 3.16   | 3.10   | 2.97 <sup>S-</sup> | 2.59 <sup>S-</sup> |

<sup>a</sup>Sex, percent males, and mean body weight data include values for live fetuses only.

<sup>b</sup>One dead fetus was noted for female No. 27101, therefore, the actual mean was 0.04.

<sup>c</sup>Percent mortality includes resorptions as well as dead fetuses.

<sup>d</sup>Statistical analysis performed on covariance adjusted means.

Table 8  
Summary of External Findings  
Rat Teratology Study of T-3351

|                                        | Group:<br>Dose Level (mg/kg): | 1<br>0 | 2<br>1 | 3<br>5 | 4<br>10 |
|----------------------------------------|-------------------------------|--------|--------|--------|---------|
| Number of fetuses examined             |                               | 325    | 313    | 317    | 231     |
| Number of fetuses within normal limits |                               | 325    | 313    | 317    | 196     |
| Number of fetuses with variants        |                               | 0      | 0      | 0      | 0       |
| Number of fetuses with anomalies       |                               | 0      | 0      | 0      | 35      |
| Number and type of anomalies           |                               | 0      | 0      | 0      | 45      |
| Skin - edematous                       |                               |        |        |        | 32      |
| Palate - cleft                         |                               |        |        |        | 13      |



Table 9  
Summary of Visceral Findings  
Rat Teratology Study of T-3351

|                                                 | Group:<br>Dose Level (mg/kg): | 1<br>0 | 2<br>1 | 3<br>5 | 4<br>10         |
|-------------------------------------------------|-------------------------------|--------|--------|--------|-----------------|
| Number of fetuses examined                      |                               | 115    | 113    | 115    | 81              |
| Number of fetuses within normal limits          |                               | 111    | 105    | 108    | 56              |
| Number of fetuses with variants                 |                               | 4      | 8      | 5      | 1               |
| Number of fetuses with anomalies                |                               | 0      | 1      | 2      | 24              |
| Number and type of variants                     |                               | 4      | 10     | 5      | 1               |
| Brain - cerebral hemisphere contained dark area |                               | 1      |        |        |                 |
| Eye(s) - contained dark material                |                               |        |        |        | 1               |
| Liver - dark areas                              |                               |        |        | 1      |                 |
| Kidney(s) - pelvis dilated                      |                               |        | 4      | 2      |                 |
| Ureter(s) - distended                           |                               | 3      | 5      | 2      |                 |
| - undulated                                     |                               |        | 1      |        |                 |
| Number and type of anomalies                    |                               | 0      | 1      | 3      | 44              |
| Skin - edematous                                |                               |        | 1      | 1      | 21 <sup>a</sup> |
| Palate - cleft                                  |                               |        |        |        | 15 <sup>b</sup> |
| Cryptorchism                                    |                               |        |        | 2      | 8               |

<sup>a</sup>Twelve fetuses with edematous skin seen externally were confirmed at visceral examination.

<sup>b</sup>Four fetuses with cleft palate seen externally were confirmed at visceral examination.

Table 10  
Summary of Skeletal Findings  
Rat Teratology Study of T-3351

|                                                           | Group:<br>Dose Level (mg/kg): | 1<br>0 | 2<br>1 | 3<br>5 | 4<br>10 |
|-----------------------------------------------------------|-------------------------------|--------|--------|--------|---------|
| Number of fetuses examined                                |                               | 210    | 200    | 202    | 150     |
| Number of fetuses within normal limits                    |                               | 134    | 113    | 135    | 63      |
| Number of fetuses with variants                           |                               | 76     | 87     | 67     | 87      |
| Number of fetuses with anomalies                          |                               | 0      | 0      | 0      | 0       |
| Number and type of variants                               |                               | 150    | 193    | 147    | 349     |
| Lagging ossification                                      |                               |        |        |        |         |
| Skull - incomplete closure (<75%)                         |                               | 6      | 15     | 17     | 46      |
| - interparietal ossification incomplete/nonossified       |                               | 30     | 40     | 15     | 29      |
| - parietals ossification irregular                        |                               | 1      | 14     | 1      |         |
| - supraoccipital ossification incomplete/nonossified      |                               | 23     | 31     | 23     | 36      |
| - supraoccipital nonfused                                 |                               | 1      |        |        | 17      |
| - hyoid ossification incomplete/nonossified               |                               | 22     | 46     | 13     | 8       |
| Pectoral girdle - scapula ossification incomplete         |                               |        |        |        | 6       |
| Rib cage - sternebrae bipartite                           |                               |        | 1      | 14     | 62      |
| - sternebrae 1 and 2 fused                                |                               | 1      |        |        |         |
| - sternebrae <3 ossified                                  |                               | 5      | 1      | 4      | 9       |
| - ribs <13 ossified <sup>a</sup>                          |                               |        | 1      |        |         |
| - ribs >13 ossified (cervical region)                     |                               |        |        | 2      |         |
| - ribs 13th pair small <sup>a</sup>                       |                               | 4      |        |        |         |
| - ribs ossification irregular                             |                               | 1      | 2      | 1      |         |
| Vertebral column - sacral arches nonossified              |                               | 2      |        | 2      | 13      |
| - thoracic centra ossification incomplete/nonossified     |                               | 18     | 20     | 18     | 15      |
| - thoracic centra nonfused                                |                               | 10     | 12     | 5      | 6       |
| - caudals <3 ossified                                     |                               | 13     | 5      | 14     | 34      |
| Pelvic girdle - pubis ossification incomplete/nonossified |                               | 8      |        | 4      | 15      |
| - ischium nonossified                                     |                               | 1      |        | 2      | 2       |
| Forelimbs - <3 ossified                                   |                               | 1      |        | 2      | 5       |
| Hindlimbs - <4 ossified                                   |                               | 2      | 1      | 6      | 36      |
| Bone Alignment                                            |                               |        |        |        |         |
| Ribs - angulated                                          |                               | 1      | 4      | 4      | 9       |
| Sternebrae - checkered                                    |                               |        |        |        | 1       |

<sup>a</sup>Possible preparation damage at time of evisceration.

Table 11  
Incidence of External Findings Per Litter  
Rat Teratology Study of T-3351

|                                              | Group: 1 | 2      | 3      | 4       |
|----------------------------------------------|----------|--------|--------|---------|
| Dose Level (mg/kg):                          | 0        | 1      | 5      | 10      |
| Number of litters examined                   | 24       | 23     | 23     | 18      |
| Number of litters within normal limits       | 24       | 23     | 23     | 12      |
| Number and percent of litters with variants  | 0/0.00   | 0/0.00 | 0/0.00 | 0/0.00  |
| Number and percent of litters with anomalies | 0/0.00   | 0/0.00 | 0/0.00 | 6/33.33 |
| Number and percent of litters with anomalies |          |        |        |         |
| Skin - edematous                             |          |        |        | 4/22.22 |
| Palate - cleft                               |          |        |        | 6/33.33 |

Table 12  
Incidence of Visceral Findings Per Litter  
Rat Teratology Study of T-3351

|                                                 | Group:<br>Dose Level (mg/kg): | 1<br>0  | 2<br>1  | 3<br>5  | 4<br>10 |
|-------------------------------------------------|-------------------------------|---------|---------|---------|---------|
| Number of litters examined                      |                               | 24      | 23      | 23      | 18      |
| Number of litters within normal limits          |                               | 20      | 16      | 18      | 9       |
| Number and percent of litters with variants     |                               | 4/16.67 | 7/30.43 | 4/17.39 | 1/5.56  |
| Number and percent of litters with anomalies    |                               | 0/0.00  | 1/4.35  | 1/4.35  | 8/44.44 |
| Number and percent with variants                |                               |         |         |         |         |
| Brain - cerebral hemisphere contained dark area |                               | 1/4.17  |         |         |         |
| Eye(s) - contained dark material                |                               |         |         |         | 1/5.56  |
| Liver - dark areas                              |                               |         |         | 1/4.35  |         |
| Kidney(s) - pelvis dilated                      |                               |         | 4/17.39 | 2/8.70  |         |
| Ureter(s) - distended                           |                               | 3/12.50 | 5/21.74 | 2/8.70  |         |
| - undulated                                     |                               |         | 1/4.35  |         |         |
| Number and percent with anomalies               |                               |         |         |         |         |
| Skin - edematous                                |                               |         | 1/4.35  | 1/4.35  | 5/27.78 |
| Palate - cleft                                  |                               |         |         |         | 7/38.89 |
| Cryptorchism                                    |                               |         |         | 1/4.35  | 4/22.22 |

Table 13  
Incidence of Skeletal Findings Per Litter  
Rat Teratology Study of T-3351

|                                                           | Group:<br>Dose Level (mg/kg): | 1<br>0   | 2<br>1    | 3<br>5   | 4<br>10  |
|-----------------------------------------------------------|-------------------------------|----------|-----------|----------|----------|
| Number of litters examined                                |                               | 24       | 23        | 23       | 18       |
| Number of litters within normal limits                    |                               | 1        | 0         | 4        | 3        |
| Number and percent of litters with variants               |                               | 23/95.83 | 23/100.00 | 19/82.61 | 15/83.33 |
| Number and percent of litters with anomalies              |                               | 0/0.00   | 0/0.00    | 0/0.00   | 0/0.00   |
| Number and percent with variants                          |                               |          |           |          |          |
| Lagging ossification                                      |                               |          |           |          |          |
| Skull - incomplete closure (<75%)                         |                               | 4/16.67  | 5/21.74   | 6/26.09  | 9/50.00  |
| - interparietal ossification incomplete                   |                               | 15/62.50 | 11/47.83  | 8/34.78  | 9/50.00  |
| - parietals ossification irregular                        |                               | 1/4.17   | 4/17.39   | 1/4.35   |          |
| - supraoccipital ossification incomplete                  |                               | 12/50.00 | 12/52.17  | 10/43.48 | 11/61.11 |
| - supraoccipital nonfused                                 |                               | 1/4.17   |           |          | 4/22.22  |
| - hyoid ossification incomplete/nonossified               |                               | 10/41.67 | 16/69.57  | 9/39.13  | 6/33.33  |
| Pectoral girdle - scapula ossification incomplete         |                               |          |           |          | 2/11.11  |
| Rib cage - sternebrae bipartite                           |                               |          | 1/4.35    | 4/17.39  | 13/72.22 |
| - sternebrae 1 and 2 fused                                |                               | 1/4.17   |           |          |          |
| - sternebrae <3 ossified                                  |                               | 3/12.50  | 1/4.35    | 2/8.70   | 3/16.67  |
| - ribs <13 ossified <sup>a</sup>                          |                               |          | 1/4.35    |          |          |
| - ribs >13 ossified (cervical region)                     |                               |          |           | 1/4.35   |          |
| - ribs 13th pair small <sup>a</sup>                       |                               | 1/4.17   |           |          |          |
| - ribs ossification irregular                             |                               | 1/4.17   | 1/4.35    | 1/4.35   |          |
| Vertebral column - sacral arches nonossified              |                               | 2/8.33   |           | 1/4.35   | 6/33.33  |
| - thoracic centra ossification incomplete/<br>nonossified |                               | 9/37.50  | 16/69.57  | 11/47.83 | 9/50.00  |
| - thoracic centra nonfused                                |                               | 6/25.00  | 7/30.43   | 2/8.70   | 4/22.22  |
| - caudals <3 ossified                                     |                               | 6/25.00  | 4/17.39   | 5/21.74  | 7/38.89  |
| Pelvic girdle - pubis ossification incomplete/nonossified |                               | 4/16.67  |           | 1/4.35   | 4/22.22  |
| - ischium nonossified                                     |                               | 1/4.17   |           | 1/4.35   | 1/5.56   |
| Forelimbs - <3 ossified                                   |                               | 1/4.17   |           | 1/4.35   | 3/16.67  |
| Hindlimbs - <4 ossified                                   |                               | 2/8.33   | 1/4.35    | 2/8.70   | 7/38.89  |
| Bone alignment                                            |                               |          |           |          |          |
| Ribs - angulated                                          |                               | 1/4.17   | 2/8.70    | 2/8.70   | 4/22.22  |
| Sternebrae - checkered                                    |                               |          |           |          | 1/5.56   |

Table 14  
Mean Incidence of External, Visceral, and Skeletal Findings Per Litter  
Rat Teratology Study of T-3351

|                                               | Group:<br>Dose Level (mg/kg): | 1<br>0 | 2<br>1 | 3<br>5 | 4<br>10 |
|-----------------------------------------------|-------------------------------|--------|--------|--------|---------|
| <b>External</b>                               |                               |        |        |        |         |
| Mean values calculated on a per litter basis: |                               |        |        |        |         |
| Number with variants                          |                               | 0.0    | 0.0    | 0.0    | 0.0     |
| Number with anomalies                         |                               | 0.0    | 0.0    | 0.0    | 1.9     |
| Incidence of variants (%)                     |                               | 0.0    | 0.0    | 0.0    | 0.0     |
| Incidence of anomalies (%)                    |                               | 0.0    | 0.0    | 0.0    | 18.9    |
| <b>Visceral</b>                               |                               |        |        |        |         |
| Mean values calculated on a per litter basis: |                               |        |        |        |         |
| Number with variants                          |                               | 0.2    | 0.3    | 0.2    | 0.1     |
| Number with anomalies                         |                               | 0.0    | 0.0    | 0.1    | 1.3     |
| Incidence of variants (%)                     |                               | 4.0    | 7.0    | 4.3    | 1.1     |
| Incidence of anomalies (%)                    |                               | 0.0    | 0.7    | 1.5    | 31.7    |
| <b>Skeletal</b>                               |                               |        |        |        |         |
| Mean values calculated on a per litter basis: |                               |        |        |        |         |
| Number with variants                          |                               | 3.2    | 3.8    | 2.9    | 4.8     |
| Number with anomalies                         |                               | 0.0    | 0.0    | 0.0    | 0.0     |
| Incidence of variants (%)                     |                               | 36.3   | 44.6   | 32.1   | 60.2    |
| Incidence of anomalies (%)                    |                               | 0.0    | 0.0    | 0.0    | 0.0     |

Appendix 1  
Individual Clinical Signs<sup>a</sup>  
Rat Teratology Study of T-3351

| <u>Maternal<br/>Number</u> | <u>Group</u> | <u>Observation</u> | <u>Body Area</u> | <u>Day(s)</u> |
|----------------------------|--------------|--------------------|------------------|---------------|
| 27032                      | 1            | Alopecia           | Paw-fore-right   | 15-17         |
| 27034                      | 1            | Urine stains       |                  | 18-20         |
|                            |              | Bloody crust       | Nose             | 20            |
|                            |              | Swollen            | Neck             | 9-20          |
| 27042                      | 1            | Alopecia           | Paws-fore-both   | 8-20          |
| 27046                      | 1            | Alopecia           | Paws-fore-both   | 10-11         |
| 27049                      | 1            | Alopecia           | Abdomen          | 18-20         |
|                            |              | Alopecia           | Paw-fore-right   | 19-20         |
| 27057                      | 2            | Alopecia           | Paw-fore-left    | 15            |
|                            |              | Alopecia           | Paw-fore-both    | 16-20         |
| 27059                      | 2            | Alopecia           | Hip-right        | 10-14         |
|                            |              | Alopecia           | Leg-hind-right   | 15-20         |
|                            |              | Alopecia           | Side-right       | 10-20         |
| 27062                      | 2            | Thin               |                  | 6             |
| 27063                      | 2            | Alopecia           | Paw-fore-right   | 17-20         |
| 27065                      | 2            | Alopecia           | Paw-fore-right   | 17-20         |
| 27066                      | 2            | Alopecia           | Abdomen          | 15-20         |
| 27082                      | 3            | Alopecia           | Hips-both        | 15-20         |
| 27083                      | 3            | Alopecia           | Hip-right        | 14-20         |
| 27084                      | 3            | Hunched            |                  | 15-19         |
|                            |              | Thin               |                  | 10, 15-19     |
|                            |              | Alopecia           | Leg-fore-right   | 10-14         |
|                            |              | Alopecia           | Leg-hind-right   | 10-12, 14     |
|                            |              | Rough haircoat     |                  | 10-12         |
| 27085                      | 3            | Rough haircoat     |                  | 7-12          |
| 27090                      | 3            | Rough haircoat     |                  | 9-11          |
| 27091                      | 3            | Alopecia           | Paws-fore-both   | 14-20         |
|                            |              | Rough haircoat     |                  | 8-11, 13      |
| 27095                      | 3            | Hunched            |                  | 8-9, 11       |
|                            |              | Rough haircoat     |                  | 10-12, 19-20  |
| 27099                      | 3            | Alopecia           | Hips-both        | 13-20         |
|                            |              | Alopecia           | Legs-hind-both   | 16-20         |
| 27100                      | 3            | Hunched            |                  | 16-17, 20     |
|                            |              | Thin               |                  | 16, 20        |
|                            |              | Anorexia           |                  | 16, 20        |
|                            |              | Urine stains       |                  | 18-20         |
|                            |              | Rough haircoat     |                  | 16, 20        |
|                            |              | Bloody crust       | Eyelids-both     | 20            |
|                            |              | Bloody crust       | Mouth            | 20            |
|                            |              | Bloody crust       | Nose             | 20            |
|                            |              | Bloody crust       | Paws-fore-both   | 20            |
| 27101                      | 3            | Rough haircoat     |                  | 8-9           |
|                            |              | Small              | Eye-left         | 15-20         |

<sup>a</sup>Animals not included in this table appeared normal throughout the study.

Appendix 1 - Continued  
Individual Clinical Signs<sup>a</sup>  
Rat Teratology Study of T-3351

| <u>Maternal<br/>Number</u> | <u>Group</u> | <u>Observation</u> | <u>Body Area</u> | <u>Day(s)</u>    |
|----------------------------|--------------|--------------------|------------------|------------------|
| 27107                      | 4            | Hunched            |                  | 18-20            |
|                            |              | Thin               |                  | 13-17            |
|                            |              | Rough haircoat     |                  | 13-20            |
| 27109                      | 4            | Hunched            |                  | 9-12, 14-20      |
|                            |              | Thin               |                  | 10-20            |
|                            |              | Anorexia           |                  | 16, 18-20        |
|                            |              | Sensitive to touch |                  | 10-14, 16-18, 20 |
|                            |              | Alopecia           | Hips-both        | 11-20            |
|                            |              | Alopecia           | Hip-left         | 10               |
|                            |              | Rough haircoat     |                  | 13-20            |
|                            |              | Bloody crust       | Mouth            | 20               |
|                            |              | Bloody crust       | Nose             | 20               |
| 27111                      | 4            | Alopecia           | Abdomen          | 10-20            |
|                            |              | Alopecia           | Hips-both        | 10-20            |
| 27112                      | 4            | Hunched            |                  | 18-20            |
|                            |              | Thin               |                  | 15-20            |
|                            |              | Anorexia           |                  | 17-20            |
|                            |              | Urine stains       |                  | 19-20            |
|                            |              | Rough haircoat     |                  | 16-20            |
|                            |              | Bloody crust       | Mouth            | 20               |
|                            |              | Bloody crust       | Nose             | 20               |
| 27113                      | 4            | Hunched            |                  | 20               |
|                            |              | Thin               |                  | 12, 20           |
|                            |              | Anorexia           |                  | 12, 17-18, 20    |
|                            |              | Urine stains       |                  | 14-18, 20        |
|                            |              | Alopecia           | Abdomen          | 11-19            |
|                            |              | Alopecia           | Hips-both        | 9-18             |
|                            |              | Alopecia           | Hip-left         | 8, 19-20         |
|                            |              | Alopecia           | Neck             | 8-18             |
|                            |              | Rough haircoat     |                  | 15-20            |
|                            |              | Bloody crust       | Mouth            | 16-20            |
|                            |              | Bloody crust       | Nose             | 16-20            |
|                            |              | Bloody crust       | Paws-fore-both   | 16-20            |
|                            |              | Bloody crust       | Vagina           | 18-19            |
| 27114                      | 4            | Hunched            |                  | 13-20            |
|                            |              | Thin               |                  | 12, 20           |
|                            |              | Anorexia           |                  | 17-20            |
|                            |              | Rough haircoat     |                  | 18-19            |
| 27115                      | 4            | Alopecia           | Sides-both       | 8-13             |
|                            |              | Alopecia           | Side-right       | 14-20            |
| 27116                      | 4            | Alopecia           | Paw-fore-left    | 19-20            |
| 27117                      | 4            | Hunched            |                  | 14-20            |
|                            |              | Thin               |                  | 17, 19-20        |
|                            |              | Anorexia           |                  | 16-20            |

<sup>a</sup>Animals not included in this table appeared normal throughout the study.



Appendix 1 - Continued  
Individual Clinical Signs<sup>a</sup>  
Rat Teratology Study of T-3351

| <u>Maternal<br/>Number</u> | <u>Group</u> | <u>Observation</u> | <u>Body Area</u> | <u>Day(s)</u> |
|----------------------------|--------------|--------------------|------------------|---------------|
| 27117                      | 4            | Urine stains       |                  | 16-20         |
|                            |              | Rough haircoat     |                  | 9-20          |
|                            |              | Bloody crust       | Genitals         | 20            |
|                            |              | Bloody crust       | Mouth            | 16-20         |
|                            |              | Bloody crust       | Nose             | 18-20         |
|                            |              | Bloody crust       | Paws-fore-both   | 16-20         |
| 27118                      | 4            | Hunched            |                  | 16-20         |
|                            |              | Thin               |                  | 16-17,19-20   |
|                            |              | Anorexia           |                  | 19            |
|                            |              | Rough haircoat     |                  | 16-18         |
| 27119                      | 4            | Hunched            |                  | 12-20         |
|                            |              | Thin               |                  | 16-20         |
|                            |              | Anorexia           |                  | 16-18,20      |
|                            |              | Ataxia             |                  | 18-20         |
|                            |              | Soft feces         |                  | 8-10          |
|                            |              | Bloody discharge   | Vagina           | 19-20         |
|                            |              | Urine stains       |                  | 18-20         |
|                            |              | Alopecia           | Hip-left         | 11            |
|                            |              | Alopecia           | Hip-right        | 12-20         |
|                            |              | Alopecia           | Inguinal-right   | 13-18         |
|                            |              | Alopecia           | Side-right       | 15-20         |
|                            |              | Rough haircoat     |                  | 20            |
| 27120                      | 4            | Hunched            |                  | 16            |
|                            |              | Thin               |                  | 16            |
|                            |              | Anorexia           |                  | 16            |
|                            |              | Bloody discharge   | Vagina           | 16            |
|                            |              | Rough haircoat     |                  | 16            |
|                            |              | Found dead         |                  | 17            |
| 27121                      | 4            | Hunched            |                  | 7-9,11-17     |
|                            |              | Thin               |                  | 7-16          |
|                            |              | Rough haircoat     |                  | 7-11          |
| 27122                      | 4            | Hunched            |                  | 16-17         |
| 27123                      | 4            | Alopecia           | Abdomen          | 10-20         |
|                            |              | Alopecia           | Hip-right        | 12-20         |
|                            |              | Alopecia           | Leg-hind-right   | 20            |
|                            |              | Alopecia           | Side-right       | 18-20         |
| 27125                      | 4            | Hunched            |                  | 16-20         |
|                            |              | Thin               |                  | 16,18-20      |
|                            |              | Anorexia           |                  | 16-17,20      |
|                            |              | Alopecia           | Abdomen          | 15-20         |
|                            |              | Rough haircoat     |                  | 8-9           |
|                            |              | Bloody crust       | Paws-fore-both   | 19-20         |

<sup>a</sup>Animals not included in this table appeared normal throughout the study.

Appendix 1 - Continued  
Individual Clinical Signs<sup>a</sup>  
Rat Teratology Study of T-3351

| <u>Maternal<br/>Number</u> | <u>Group</u> | <u>Observation</u> | <u>Body Area</u> | <u>Day(s)</u> |
|----------------------------|--------------|--------------------|------------------|---------------|
| 27126                      | 4            | Hunched            |                  | 18,20         |
|                            |              | Thin               |                  | 19            |
|                            |              | Anorexia           |                  | 16-17,20      |
|                            |              | Alopecia           |                  | 17-20         |
| 27127                      | 4            | Hunched            | Hip-left         | 16            |
|                            |              | Thin               |                  | 16            |
|                            |              | Bloody discharge   | Vagina           | 16            |
|                            |              | Rough haircoat     |                  | 16            |
|                            |              | Found dead         |                  | 17            |
| 27128                      | 4            | Hunched            |                  | 14-20         |
|                            |              | Thin               |                  | 14-20         |
|                            |              | Anorexia           |                  | 17-18,20      |
|                            |              | Alopecia           | Paw-fore-right   | 15-17         |
|                            |              | Rough haircoat     |                  | 18-20         |
| 27129                      | 4            | Hunched            |                  | 14-20         |
|                            |              | Thin               |                  | 16-20         |
|                            |              | Anorexia           |                  | 16            |
|                            |              | Urine stains       |                  | 19            |
|                            |              | Rough haircoat     |                  | 16-20         |
|                            |              | Bloody crust       | Paws-fore-both   | 16            |

<sup>a</sup>Animals not included in this table appeared normal throughout the study.

Key to Appendices 2, 3, and 4

- P = Pregnant
- NP = Not Pregnant
- C = Cesarean Section Performed (preceded by day of gestation)
- D = Death (preceded by day of gestation)
- MS = Moribund Sacrifice (preceded by day of gestation)
- ND = Natural Delivery (preceded by day of gestation)
- () = Data excluded from mean calculation.

Explanation of Footnotes

- <sup>a</sup> Only data from pregnant animals surviving to Day 20 cesarean section were used in mean calculations.
- <sup>b</sup> Invalid food consumption value not included in mean calculations.
- <sup>c</sup> Gavid uterine weight inadvertently not recorded.

Appendix 2  
Individual and Mean Maternal Body Weights and Body Weight Changes<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 1 - 0 mg/kg

| Maternal<br>Number | Disposition | Body Weight (g)<br>Day of Gestation |         |         |         |         |         | Body Weight Change (g)<br>Days |        |        |                   |        |                    |                   |
|--------------------|-------------|-------------------------------------|---------|---------|---------|---------|---------|--------------------------------|--------|--------|-------------------|--------|--------------------|-------------------|
|                    |             | 0                                   | 6       | 8       | 12      | 16      | 20      | 0-6                            | 6-8    | 6-12   | 6-16 <sup>F</sup> | 6-20   | 16-20 <sup>F</sup> | 0-20 <sup>F</sup> |
| 27030              | P, 20-C     | 277.3                               | 303.8   | 306.8   | 340.3   | 358.6   | 422.5   | 26.5                           | 3.0    | 36.5   | 54.8              | 118.7  | 63.9               | 145.2             |
| 27031              | P, 20-C     | 261.9                               | 288.8   | 284.4   | 314.1   | 329.2   | 388.2   | 26.9                           | -4.4   | 25.3   | 40.4              | 99.4   | 59.0               | 126.3             |
| 27032              | P, 20-C     | 245.7                               | 282.0   | 292.1   | 317.5   | 338.6   | 404.3   | 36.3                           | 10.1   | 35.5   | 56.6              | 122.3  | 65.7               | 158.6             |
| 27033              | P, 20-C     | 256.5                               | 274.3   | 275.5   | 299.9   | 314.4   | 367.8   | 17.8                           | 1.2    | 25.6   | 40.1              | 93.5   | 53.4               | 111.3             |
| 27034              | P, 20-C     | 250.1                               | 263.4   | 259.0   | 281.1   | 300.9   | 341.4   | 13.3                           | -4.4   | 17.7   | 37.5              | 78.0   | 40.5               | 91.3              |
| 27035              | P, 20-C     | 312.7                               | 351.5   | 351.0   | 362.4   | 353.6   | 446.6   | 38.8                           | -0.5   | 10.9   | 2.1               | 95.1   | 93.0               | 133.9             |
| 27036              | P, 20-C     | 248.7                               | 279.5   | 283.3   | 312.9   | 340.2   | 409.0   | 30.8                           | 3.8    | 33.4   | 60.7              | 129.5  | 68.8               | 160.3             |
| 27037              | NP, 20-C    | (266.4)                             | (260.8) | (278.7) | (272.8) | (279.2) | (287.1) | (-5.6)                         | (17.9) | (12.0) | (18.4)            | (26.3) | (7.9)              | (20.7)            |
| 27038              | P, 20-C     | 253.8                               | 283.4   | 284.7   | 296.4   | 309.1   | 373.1   | 29.6                           | 1.3    | 13.0   | 25.7              | 89.7   | 64.0               | 119.3             |
| 27039              | P, 20-C     | 291.2                               | 321.4   | 330.6   | 343.5   | 365.1   | 427.1   | 30.2                           | 9.2    | 22.1   | 43.7              | 105.7  | 62.0               | 135.9             |
| 27040              | P, 20-C     | 241.6                               | 273.8   | 272.0   | 289.2   | 310.9   | 348.8   | 32.2                           | -1.8   | 15.4   | 37.1              | 75.0   | 37.9               | 107.2             |
| 27041              | P, 20-C     | 241.1                               | 277.3   | 281.2   | 293.5   | 319.9   | 374.1   | 36.2                           | 3.9    | 16.2   | 42.6              | 96.8   | 54.2               | 133.0             |
| 27042              | P, 20-C     | 259.8                               | 286.6   | 294.7   | 307.2   | 333.2   | 381.9   | 26.8                           | 8.1    | 20.6   | 46.6              | 95.3   | 48.7               | 122.1             |
| 27043              | P, 20-C     | 287.1                               | 310.9   | 318.1   | 334.8   | 345.6   | 368.2   | 23.8                           | 7.2    | 23.9   | 34.7              | 57.3   | 22.6               | 81.1              |
| 27044              | P, 20-C     | 278.7                               | 297.4   | 297.9   | 302.5   | 336.5   | 390.8   | 18.7                           | 0.5    | 5.1    | 39.1              | 93.4   | 54.3               | 112.1             |
| 27045              | P, 20-C     | 278.0                               | 316.0   | 312.9   | 328.4   | 342.8   | 381.8   | 38.0                           | -3.1   | 12.4   | 26.8              | 65.8   | 39.0               | 103.8             |
| 27046              | P, 20-C     | 269.8                               | 293.6   | 294.1   | 313.2   | 336.0   | 384.5   | 23.8                           | 0.5    | 19.6   | 42.4              | 90.9   | 48.5               | 114.7             |
| 27047              | P, 20-C     | 294.0                               | 323.6   | 320.1   | 314.5   | 317.3   | 371.1   | 29.6                           | -3.5   | -9.1   | -6.3              | 47.5   | 53.8               | 77.1              |
| 27048              | P, 20-C     | 298.5                               | 327.7   | 330.5   | 352.0   | 378.8   | 438.8   | 29.2                           | 2.8    | 24.3   | 51.1              | 111.1  | 60.0               | 140.3             |
| 27049              | P, 20-C     | 270.1                               | 310.1   | 327.1   | 343.1   | 376.1   | 447.0   | 40.0                           | 17.0   | 33.0   | 66.0              | 136.9  | 70.9               | 176.9             |
| 27050              | P, 20-C     | 260.5                               | 285.3   | 293.6   | 316.8   | 334.3   | 392.5   | 24.8                           | 8.3    | 31.5   | 49.0              | 107.2  | 58.2               | 132.0             |
| 27051              | P, 20-C     | 276.0                               | 306.6   | 307.2   | 321.4   | 345.4   | 399.4   | 30.6                           | 0.6    | 14.8   | 38.8              | 92.8   | 54.0               | 123.4             |
| 27052              | P, 20-C     | 275.2                               | 299.0   | 306.6   | 327.1   | 356.8   | 422.2   | 23.8                           | 7.6    | 28.1   | 57.8              | 123.2  | 65.4               | 147.0             |
| 27053              | P, 20-C     | 280.8                               | 306.0   | 303.6   | 294.2   | 329.6   | 396.2   | 25.2                           | -2.4   | -11.8  | 23.6              | 90.2   | 66.6               | 115.4             |
| 27054              | P, 20-C     | 272.9                               | 301.2   | 306.4   | 333.4   | 351.8   | 412.6   | 28.3                           | 5.2    | 32.2   | 50.6              | 111.4  | 60.8               | 139.7             |
| N                  |             | 24                                  | 24      | 24      | 24      | 24      | 24      | 24                             | 24     | 24     | 24                | 24     | 24                 | 24                |
| Mean               |             | 270.8                               | 298.47  | 301.39  | 318.31  | 338.53  | 395.41  | 28.38                          | 2.93   | 19.84  | 40.06             | 96.95  | 56.88              | 125.33            |
| S.D.               |             | 18.790                              | 20.580  | 21.463  | 21.071  | 20.479  | 28.666  | 6.658                          | 5.364  | 12.585 | 16.908            | 21.937 | 13.752             | 24.174            |

Appendix 2 - Continued  
Individual and Mean Maternal Body Weights and Body Weight Changes<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 2 - 1 mg/kg

| Maternal<br>Number | Disposition | Body Weight (g)<br>Day of Gestation |         |         |         |         |         | Body Weight Change (g)<br>Days |        |        |                   |        |                    |                   |
|--------------------|-------------|-------------------------------------|---------|---------|---------|---------|---------|--------------------------------|--------|--------|-------------------|--------|--------------------|-------------------|
|                    |             | 0                                   | 6       | 8       | 12      | 16      | 20      | 0-6                            | 6-8    | 6-12   | 6-16 <sup>F</sup> | 6-20   | 16-20 <sup>F</sup> | 0-20 <sup>F</sup> |
| 27055              | P, 20-C     | 268.7                               | 290.8   | 294.2   | 310.5   | 329.2   | 381.3   | 22.1                           | 3.4    | 19.7   | 38.4              | 90.5   | 51.2               | 112.6             |
| 27056              | P, 20-C     | 294.4                               | 318.8   | 323.2   | 343.3   | 360.2   | 429.0   | 24.4                           | 4.4    | 24.5   | 41.4              | 110.2  | 68.8               | 134.6             |
| 27057              | P, 20-C     | 262.2                               | 286.5   | 282.8   | 295.7   | 301.7   | 372.2   | 24.3                           | -3.7   | 9.2    | 15.2              | 85.7   | 70.5               | 110.0             |
| 27058              | P, 20-C     | 282.2                               | 312.0   | 300.5   | 327.1   | 344.7   | 401.1   | 29.8                           | -11.5  | 15.1   | 32.7              | 89.1   | 56.4               | 118.9             |
| 27059              | P, 20-C     | 267.8                               | 304.9   | 302.4   | 312.6   | 324.8   | 388.4   | 37.1                           | -2.5   | 7.7    | 19.9              | 83.5   | 63.6               | 120.6             |
| 27060              | NP, 20-C    | (253.4)                             | (272.7) | (272.7) | (289.5) | (269.3) | (272.1) | (19.3)                         | (0.0)  | (16.8) | (-3.4)            | (-0.6) | (2.8)              | (18.7)            |
| 27061              | P, 20-C     | 270.1                               | 301.0   | 296.4   | 303.2   | 319.8   | 379.4   | 30.9                           | -4.6   | 2.2    | 18.8              | 78.4   | 59.6               | 109.3             |
| 27062              | P, 20-C     | 267.0                               | 228.1   | 271.8   | 290.7   | 307.7   | 356.8   | -38.9                          | 43.7   | 62.6   | 79.6              | 128.7  | 49.1               | 89.8              |
| 27063              | P, 20-C     | 267.9                               | 298.0   | 294.7   | 295.1   | 317.3   | 378.7   | 30.1                           | -3.3   | -2.9   | 19.3              | 80.7   | 61.4               | 110.8             |
| 27064              | P, 20-C     | 261.8                               | 296.0   | 301.8   | 314.7   | 325.3   | 388.7   | 34.2                           | 5.8    | 18.7   | 29.3              | 92.7   | 63.4               | 126.9             |
| 27065              | P, 20-C     | 259.8                               | 299.4   | 294.0   | 302.8   | 329.0   | 397.8   | 39.6                           | -5.4   | 3.4    | 29.6              | 98.4   | 68.8               | 138.0             |
| 27066              | P, 20-C     | 279.1                               | 296.2   | 304.7   | 304.7   | 323.8   | 362.4   | 17.1                           | 8.5    | 8.5    | 27.6              | 66.2   | 38.6               | 83.3              |
| 27067              | P, 20-C     | 275.5                               | 307.7   | 304.5   | 305.8   | 336.6   | 385.5   | 32.2                           | -3.2   | -1.9   | 28.9              | 77.8   | 48.9               | 110.0             |
| 27068              | P, 20-C     | 271.8                               | 282.0   | 279.8   | 298.2   | 320.1   | 386.8   | 10.2                           | -2.2   | 16.2   | 38.1              | 104.8  | 66.7               | 115.0             |
| 27069              | P, 20-C     | 283.0                               | 314.4   | 317.6   | 329.3   | 355.7   | 413.7   | 31.4                           | 3.2    | 14.9   | 41.3              | 99.3   | 58.0               | 130.7             |
| 27070              | P, 20-C     | 263.6                               | 289.4   | 299.7   | 292.4   | 329.6   | 397.6   | 25.8                           | 10.3   | 3.0    | 40.2              | 108.2  | 68.0               | 134.0             |
| 27071              | P, 20-C     | 265.6                               | 291.9   | 293.7   | 295.5   | 300.2   | 377.8   | 26.3                           | 1.8    | 3.6    | 8.3               | 85.9   | 77.6               | 112.2             |
| 27072              | P, 20-C     | 286.2                               | 310.4   | 316.6   | 311.1   | 338.9   | 413.3   | 24.2                           | 6.2    | 0.7    | 28.5              | 102.9  | 74.4               | 127.1             |
| 27073              | P, 20-C     | 275.6                               | 301.6   | 290.7   | 306.7   | 334.3   | 407.8   | 26.0                           | -10.9  | 5.1    | 32.7              | 106.2  | 73.5               | 132.2             |
| 27074              | P, 20-C     | 278.4                               | 324.3   | 324.8   | 350.4   | 380.5   | 436.3   | 45.9                           | 0.5    | 26.1   | 56.2              | 112.0  | 55.8               | 157.9             |
| 27075              | P, 20-C     | 265.7                               | 288.3   | 292.0   | 302.4   | 324.4   | 372.3   | 22.6                           | 3.7    | 14.1   | 36.1              | 84.0   | 47.9               | 106.6             |
| 27076              | P, 20-C     | 259.5                               | 290.7   | 285.9   | 294.6   | 316.1   | 370.8   | 31.2                           | -4.8   | 3.9    | 25.4              | 80.1   | 54.7               | 111.3             |
| 27077              | P, 20-C     | 262.8                               | 293.6   | 292.5   | 304.5   | 328.6   | 388.4   | 30.8                           | -1.1   | 10.9   | 35.0              | 94.8   | 59.8               | 125.6             |
| 27078              | P, 20-C     | 264.9                               | 283.2   | 290.6   | 296.8   | 323.2   | 276.8   | 18.3                           | 7.4    | 13.6   | 40.0              | 93.6   | 53.6               | 111.9             |
| 27079              | NP, 20-C    | (258.5)                             | (281.7) | (275.7) | (275.5) | (274.5) | (273.1) | (23.2)                         | (-6.0) | (-6.2) | (-7.2)            | (-8.6) | (-1.4)             | (14.6)            |
| N                  |             | 23                                  | 23      | 23      | 23      | 23      | 23      | 23                             | 23     | 23     | 23                | 23     | 23                 | 23                |
| Mean               |             | 271.03                              | 296.05  | 298.04  | 308.18  | 329.20  | 389.69  | 25.03                          | 1.99   | 12.13  | 33.15             | 93.64  | 60.45              | 118.67            |
| S.D.               |             | 9.265                               | 18.650  | 13.221  | 15.771  | 18.312  | 20.073  | 15.895                         | 10.774 | 13.617 | 14.547            | 14.164 | 9.823              | 16.015            |

Appendix 2 - Continued  
Individual and Mean Maternal Body Weights and Body Weight Changes<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 3 - 5 mg/kg

| Maternal<br>Number | Disposition | Body Weight (g)<br>Day of Gestation |         |         |         |         |         | Body Weight Change (g)<br>Days |                     |         |                     |         |                    |                      |
|--------------------|-------------|-------------------------------------|---------|---------|---------|---------|---------|--------------------------------|---------------------|---------|---------------------|---------|--------------------|----------------------|
|                    |             | 0                                   | 6       | 8       | 12      | 16      | 20      | 0-6                            | 6-8                 | 6-12    | 6-16 <sup>F</sup>   | 6-20    | 16-20 <sup>F</sup> | 0-20 <sup>F</sup>    |
| 27080              | P, 20-C     | 277.9                               | 309.2   | 305.7   | 310.1   | 343.9   | 425.3   | 31.3                           | -3.5                | 0.9     | 34.7                | 116.1   | 81.4               | 147.4                |
| 27081              | P, 20-C     | 267.1                               | 291.4   | 286.9   | 289.2   | 299.9   | 355.0   | 24.3                           | -4.5                | -2.2    | 8.5                 | 63.6    | 55.1               | 87.9                 |
| 27082              | P, 20-C     | 256.1                               | 285.0   | 273.2   | 279.5   | 285.2   | 352.7   | 28.9                           | -11.8               | -5.5    | 0.2                 | 67.7    | 67.5               | 96.6                 |
| 27083              | P, 20-C     | 272.9                               | 301.1   | 300.1   | 306.6   | 306.0   | 361.1   | 28.2                           | -1.0                | 5.5     | 4.9                 | 60.0    | 55.1               | 88.2                 |
| 27084              | NP, 20-C    | (258.7)                             | (300.9) | (276.1) | (286.3) | (246.5) | (279.4) | (42.2)                         | (-24.8)             | (-14.6) | (-54.4)             | (-21.5) | (32.9)             | (20.7)               |
| 27085              | P, 20-C     | 277.1                               | 295.2   | 284.7   | 307.1   | 329.1   | 382.6   | 18.1                           | -10.5               | 11.9    | 33.9                | 87.4    | 53.5               | 105.5                |
| 27086              | P, 20-C     | 261.3                               | 286.3   | 282.7   | 296.2   | 312.2   | 372.1   | 25.0                           | -3.6                | 9.9     | 25.9                | 85.8    | 59.9               | 110.8                |
| 27087              | P, 20-C     | 274.0                               | 305.8   | 294.1   | 304.9   | 318.0   | 415.7   | 31.8                           | -11.7               | -0.9    | 12.2                | 109.9   | 97.7               | 141.7                |
| 27088              | P, 20-C     | 229.6                               | 251.5   | 251.1   | 263.7   | 269.9   | 342.9   | 21.9                           | -0.4                | 12.2    | 18.4                | 91.4    | 73.0               | 113.3                |
| 27089              | P, 20-C     | 261.6                               | 293.4   | 285.4   | 298.2   | 317.1   | 374.7   | 31.8                           | -8.0                | 4.8     | 23.7                | 81.3    | 57.6               | 113.1                |
| 27090              | P, 20-C     | 224.7                               | 243.2   | 245.8   | 242.7   | 255.1   | 308.6   | 18.5                           | 2.6                 | -0.5    | 11.9                | 65.4    | 53.5               | 83.9                 |
| 27091              | P, 20-C     | 252.6                               | 287.0   | 280.5   | 275.3   | 302.8   | 360.9   | 34.4                           | -6.5                | -11.7   | 15.8                | 73.9    | 58.1               | 108.3                |
| 27092              | P, 20-C     | 276.0                               | 309.1   | 302.2   | 290.6   | 316.9   | 391.3   | 33.1                           | -6.9                | -18.5   | 7.8                 | 82.2    | 74.4               | 115.3                |
| 27093              | P, 20-C     | 265.5                               | 297.3   | 286.9   | 291.6   | 312.3   | 373.2   | 31.8                           | -10.4               | -5.7    | 15.0                | 75.9    | 60.9               | 107.7                |
| 27094              | P, 20-C     | 251.7                               | 281.2   | 289.4   | 299.6   | 312.2   | 372.0   | 29.5                           | 8.2                 | 18.4    | 31.0                | 90.8    | 59.8               | 120.3                |
| 27095              | P, 20-C     | 276.7                               | 305.1   | 297.7   | 300.1   | 336.2   | 410.4   | 28.4                           | -7.4                | -5.0    | 31.1                | 105.3   | 74.2               | 133.7                |
| 27096              | P, 20-C     | 270.6                               | 301.2   | 298.7   | 278.9   | 278.3   | 358.6   | 30.6                           | -2.5                | -22.3   | -22.9               | 57.4    | 80.3               | 88.0                 |
| 27097              | P, 20-C     | 290.8                               | 319.7   | 320.5   | 314.7   | 335.8   | 398.7   | 28.9                           | 0.8                 | -5.0    | 16.1                | 79.0    | 62.9               | 107.9                |
| 27098              | P, 20-C     | 273.0                               | 299.8   | 292.0   | 293.6   | 313.4   | 371.5   | 26.8                           | -7.8                | -6.2    | 13.6                | 71.7    | 58.1               | 98.5                 |
| 27099              | P, 20-C     | 259.1                               | 290.0   | 273.1   | 287.4   | 302.7   | 366.1   | 30.9                           | -16.9               | -2.6    | 12.7                | 76.1    | 63.4               | 107.0                |
| 27100              | P, 20-C     | 282.8                               | 320.2   | 310.5   | 295.4   | 269.8   | 254.1   | 37.4                           | -9.7                | -24.8   | -50.4               | -66.1   | -15.7              | -28.7                |
| 27101              | P, 20-C     | 276.5                               | 294.0   | 293.3   | 280.3   | 305.1   | 357.0   | 17.5                           | -0.7                | -13.7   | 11.1                | 63.0    | 51.9               | 80.5                 |
| 27102              | P, 20-C     | 260.4                               | 280.0   | 281.7   | 289.9   | 308.9   | 369.0   | 19.6                           | 1.7                 | 9.9     | 28.9                | 89.0    | 60.1               | 108.6                |
| 27103              | P, 20-C     | 216.8                               | 287.6   | 292.8   | 276.5   | 292.0   | 370.1   | 70.8                           | 5.2                 | -11.1   | 4.4                 | 82.5    | 78.1               | 153.3                |
| 27104              | NP, 20-C    | (272.7)                             | (282.9) | (274.9) | (251.1) | (253.7) | (275.4) | (10.2)                         | (-8.0)              | (-31.8) | (-29.2)             | (-7.5)  | (21.7)             | (2.7)                |
| N                  |             | 23                                  | 23      | 23      | 23      | 23      | 23      | 23                             | 23                  | 23      | 23                  | 23      | 23                 | 23                   |
| Mean               |             | 263.25                              | 292.80  | 288.22  | 290.09  | 305.34  | 367.11  | 29.54                          | -4.58 <sup>S-</sup> | -2.70   | 12.54 <sup>S-</sup> | 74.32   | 61.77              | 103.86 <sup>S-</sup> |
| S.D.               |             | 18.525                              | 18.070  | 16.876  | 16.252  | 22.346  | 35.036  | 10.523                         | 6.103               | 11.235  | 18.834              | 34.272  | 20.386             | 34.851               |

Appendix 2 - Continued  
Individual and Mean Maternal Body Weights and Body Weight Changes<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 4 - 10 mg/kg

| Maternal<br>Number | Disposition | Body Weight (g)  |         |         |         |         |         | Body Weight Change (g) |                    |         |                     |         |                    |                    |  |
|--------------------|-------------|------------------|---------|---------|---------|---------|---------|------------------------|--------------------|---------|---------------------|---------|--------------------|--------------------|--|
|                    |             | Day of Gestation |         |         |         |         |         | Days                   |                    |         |                     |         |                    |                    |  |
|                    |             | 0                | 6       | 8       | 12      | 16      | 20      | 0-6                    | 6-8                | 6-12    | 6-16 <sup>F</sup>   | 6-20    | 16-20 <sup>F</sup> | 0-20 <sup>F</sup>  |  |
| 27105              | P, 20-C     | 279.5            | 303.4   | 293.2   | 286.8   | 281.4   | 364.7   | 23.9                   | -10.2              | -16.6   | -22.0               | 61.3    | 83.3               | 85.2               |  |
| 27106              | P, 20-C     | 274.9            | 310.7   | 302.2   | 307.5   | 322.7   | 378.4   | 35.8                   | -8.5               | -3.2    | 12.0                | 67.7    | 55.7               | 103.5              |  |
| 27107              | P, 20-C     | 239.1            | 255.2   | 255.3   | 228.0   | 212.7   | 271.7   | 16.1                   | 0.1                | -27.2   | -42.5               | 16.5    | 59.0               | 32.6               |  |
| 27108              | P, 20-C     | 285.4            | 315.6   | 312.0   | 299.7   | 291.7   | 377.2   | 30.2                   | -3.6               | -15.9   | -23.9               | 61.6    | 85.5               | 91.8               |  |
| 27109              | P, 20-C     | 273.2            | 301.8   | 287.7   | 250.3   | 230.3   | 209.3   | 28.6                   | -14.1              | -51.5   | -71.5               | -92.5   | -21.0              | -63.9              |  |
| 27110              | P, 20-C     | 254.7            | 293.1   | 279.3   | 273.3   | 261.4   | 325.9   | 38.4                   | -13.8              | -19.8   | -31.7               | 32.8    | 64.5               | 71.2               |  |
| 27111              | P, 20-C     | 269.9            | 300.4   | 301.1   | 305.9   | 309.8   | 386.7   | 30.5                   | 0.7                | 5.5     | 9.4                 | 86.3    | 76.9               | 116.8              |  |
| 27112              | P, 20-C     | 251.7            | 281.3   | 281.0   | 274.7   | 238.2   | 222.8   | 29.6                   | -0.3               | -6.6    | -43.1               | -58.5   | -15.4              | -28.9              |  |
| 27113              | P, 20-C     | 294.6            | 334.6   | 318.1   | 274.5   | 254.1   | 235.3   | 40.0                   | -16.5              | -60.1   | -80.5               | -99.3   | -18.8              | -59.3              |  |
| 27114              | P, 20-C     | 287.0            | 318.2   | 313.0   | 282.1   | 254.4   | 240.5   | 31.2                   | -5.2               | -36.1   | -63.8               | -77.7   | -13.9              | -46.5              |  |
| 27115              | P, 20-C     | 242.9            | 274.3   | 271.1   | 263.1   | 265.6   | 351.6   | 31.4                   | -3.2               | -11.2   | -8.7                | 77.3    | 86.0               | 108.7              |  |
| 27116              | P, 20-C     | 241.8            | 275.6   | 278.7   | 274.7   | 270.3   | 340.0   | 33.8                   | 3.1                | -0.9    | -5.3                | 64.4    | 69.7               | 98.2               |  |
| 27117              | P, 20-C     | 303.0            | 339.4   | 339.1   | 289.8   | 271.4   | 247.2   | 36.4                   | -0.3               | -49.6   | -68.0               | -92.2   | -24.2              | -55.8              |  |
| 27118              | NP, 20-C    | (272.6)          | (273.3) | (275.3) | (256.5) | (224.9) | (206.6) | (0.7)                  | (2.0)              | (-16.8) | (-48.4)             | (-66.7) | (-18.3)            | (-66.0)            |  |
| 27119              | P, 20-C     | 255.6            | 286.4   | 279.3   | 244.3   | 221.8   | 180.7   | 30.8                   | -7.1               | -42.1   | -64.6               | -105.7  | -41.1              | -74.9              |  |
| 27120              | P, 17-D     | 295.4            | 326.3   | 329.7   | 292.4   | 271.0   | -       | 30.9                   | 3.4                | -33.9   | -55.3               | -       | -                  | -                  |  |
| 27121              | P, 20-C     | 264.4            | 281.4   | 269.3   | 268.4   | 265.2   | 349.6   | 17.0                   | -12.1              | -13.0   | -16.2               | 68.2    | 84.4               | 85.2               |  |
| 27122              | P, 20-C     | 253.4            | 275.6   | 277.7   | 270.4   | 265.5   | 331.3   | 22.2                   | 2.1                | -5.2    | -10.1               | 55.7    | 65.8               | 77.9               |  |
| 27123              | P, 20-C     | 310.8            | 332.5   | 338.2   | 319.2   | 335.4   | 414.9   | 21.7                   | 5.7                | -13.3   | 2.9                 | 82.4    | 79.5               | 104.1              |  |
| 27124              | P, 20-C     | 264.3            | 283.2   | 292.5   | 278.9   | 296.7   | 366.8   | 18.9                   | 9.3                | -4.3    | 13.5                | 83.6    | 80.1               | 102.5              |  |
| 27125              | P, 20-C     | 251.8            | 277.0   | 275.9   | 248.9   | 223.2   | 211.4   | 25.2                   | -1.1               | -28.1   | -53.8               | -65.6   | -11.8              | -40.4              |  |
| 27126              | P, 20-C     | 271.2            | 290.5   | 286.2   | 270.0   | 243.9   | 232.2   | 19.3                   | -4.3               | -20.5   | -46.6               | -58.3   | -11.7              | -39.0              |  |
| 27127              | P, 17-D     | 259.9            | 293.4   | 280.2   | 274.5   | 245.9   | -       | 33.5                   | -13.2              | -18.9   | -47.5               | -       | -                  | -                  |  |
| 27128              | NP, 20-C    | (263.6)          | (286.2) | (283.9) | (270.1) | (225.1) | (189.7) | (22.6)                 | (-2.3)             | (-16.1) | (-61.1)             | (-96.5) | (-35.4)            | (-73.9)            |  |
| 27129              | NP, 20-C    | (297.0)          | (299.5) | (293.5) | (259.4) | (234.6) | (256.8) | (2.5)                  | (-6.0)             | (-40.1) | (-64.9)             | (-42.7) | (22.2)             | (-40.2)            |  |
| N                  |             | 22               | 22      | 22      | 22      | 22      | 20      | 22                     | 22                 | 22      | 22                  | 20      | 20                 | 20                 |  |
| Mean               |             | 269.30           | 297.72  | 293.63  | 276.25  | 265.12  | 301.91  | 28.43                  | -4.05 <sup>S</sup> | -21.48  | -32.60 <sup>S</sup> | 5.40    | 36.63              | 33.45 <sup>S</sup> |  |
| S.D.               |             | 20.329           | 22.698  | 22.916  | 21.762  | 32.153  | 73.253  | 6.951                  | 7.115              | 17.769  | 29.333              | 75.133  | 48.285             | 73.412             |  |

Appendix 3  
Individual and Mean Food Consumption<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 1 - 0 mg/kg

| Maternal<br>Number | Food Consumption (g)         |        |        |        |                    |                   |                   |
|--------------------|------------------------------|--------|--------|--------|--------------------|-------------------|-------------------|
|                    | Interval (Days of Gestation) |        |        |        |                    |                   |                   |
|                    | 0-6                          | 7-8    | 9-12   | 13-16  | 17-20 <sup>F</sup> | 7-16 <sup>B</sup> | 0-20 <sup>B</sup> |
| 27030              | 140.9                        | 42.8   | 92.5   | 87.1   | 101.7              | 222.4             | 465.0             |
| 27031              | 130.0                        | 33.1   | 73.2   | 71.3   | 91.1               | 177.6             | 398.7             |
| 27032              | 140.6                        | 45.5   | 86.1   | 82.2   | 106.4              | 213.8             | 460.8             |
| 27033              | 123.7                        | 32.0   | 75.8   | 80.6   | 96.6               | 188.4             | 408.7             |
| 27034              | 80.6                         | 18.6   | 48.8   | 51.9   | 67.8               | 119.3             | 267.7             |
| 27035              | 166.0                        | 44.7   | 69.8   | 44.8   | 109.1              | 159.3             | 434.4             |
| 27036              | 139.2                        | 36.2   | 80.9   | 86.8   | 106.4              | 203.9             | 449.5             |
| 27037              | (113.8)                      | (30.1) | (52.2) | (55.2) | (69.7)             | (137.5)           | (321.0)           |
| 27038              | 134.9                        | 33.4   | 75.9   | 77.9   | 107.0              | 187.2             | 429.1             |
| 27039              | 145.4                        | 43.3   | 76.8   | 91.6   | 107.8              | 211.7             | 464.9             |
| 27040              | 122.3                        | 31.8   | 69.7   | 71.1   | 84.5               | 172.6             | 379.4             |
| 27041              | 129.9                        | 37.2   | 72.2   | 73.0   | 86.5               | 182.4             | 398.8             |
| 27042              | 136.1                        | 42.9   | 79.5   | 80.1   | 95.8               | 202.5             | 434.4             |
| 27043              | 142.4                        | 44.6   | 89.5   | 81.5   | 93.0               | 215.6             | 451.0             |
| 27044              | 141.2                        | 34.2   | 60.6   | 78.7   | 99.0               | 173.5             | 413.7             |
| 27045              | 146.9                        | 39.1   | 79.1   | 69.4   | 78.4               | 187.6             | 412.9             |
| 27046              | 115.9                        | 37.6   | 75.8   | 78.1   | 95.4               | 191.5             | 402.8             |
| 27047              | 123.4                        | 29.7   | 41.8   | 82.6   | 71.8               | 154.1             | 349.3             |
| 27048              | 144.5                        | 42.4   | 91.7   | 93.5   | 113.4              | 227.6             | 485.5             |
| 27049              | 149.3                        | 51.3   | 90.8   | 97.7   | 116.4              | 239.8             | 505.5             |
| 27050              | 119.5                        | 36.5   | 77.6   | 72.1   | 92.5               | 186.2             | 398.2             |
| 27051              | 132.7                        | 36.6   | 74.9   | 74.4   | 112.2              | 185.9             | 430.8             |
| 27052              | 127.1                        | 39.8   | 81.3   | 85.5   | 106.4              | 206.6             | 440.1             |
| 27053              | 125.0                        | 36.2   | 47.1   | 97.3   | 96.7               | 180.6             | 402.3             |
| 27054              | 126.5                        | 30.1   | 78.4   | 75.2   | 98.1               | 183.7             | 408.3             |
| N                  | 24                           | 24     | 24     | 24     | 24                 | 24                | 24                |
| Mean               | 132.67                       | 37.48  | 74.58  | 78.52  | 97.25              | 190.58            | 420.49            |
| S.D.               | 15.924                       | 6.812  | 13.416 | 12.317 | 12.693             | 25.916            | 47.701            |



Appendix 3 - Continued  
Individual and Mean Food Consumption<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 2 - 1 mg/kg

| Maternal<br>Number | Food Consumption (g)         |        |        |        |                     |                   |                      |
|--------------------|------------------------------|--------|--------|--------|---------------------|-------------------|----------------------|
|                    | Interval (Days of Gestation) |        |        |        |                     |                   |                      |
|                    | 0-6                          | 7-8    | 9-12   | 13-16  | 17-20 <sup>F</sup>  | 7-16 <sup>B</sup> | 0-20 <sup>B</sup>    |
| 27055              | 122.0                        | 35.2   | 63.7   | 71.0   | 92.5                | 169.9             | 384.4                |
| 27056              | 136.0                        | 42.1   | 74.1   | 69.7   | 108.9               | 185.9             | 430.8                |
| 27057              | 130.8                        | 35.2   | 68.0   | 49.6   | 88.6                | 152.8             | 372.2                |
| 27058              | 136.5                        | 29.1   | 70.2   | 69.0   | 98.0                | 168.3             | 402.8                |
| 27059              | 141.7                        | 38.2   | 64.5   | 71.2   | 112.1               | 173.9             | 427.7                |
| 27060              | (108.2)                      | (30.2) | (67.9) | (39.8) | (77.9) <sup>b</sup> | (137.9)           | (324.0) <sup>b</sup> |
| 27061              | 131.5                        | 31.6   | 62.8   | 66.0   | 91.3                | 160.4             | 383.2                |
| 27062              | 55.7                         | 38.6   | 81.8   | 68.6   | 70.3                | 189.0             | 315.0                |
| 27063              | 135.6                        | 34.2   | 61.4   | 70.9   | 98.7                | 166.5             | 400.8                |
| 27064              | 143.0                        | 39.1   | 73.5   | 55.3   | 99.4                | 167.9             | 410.3                |
| 27065              | 145.9                        | 34.7   | 63.1   | 81.3   | 116.9               | 179.1             | 441.9                |
| 27066              | 99.3                         | 33.6   | 60.3   | 63.0   | 92.1                | 156.9             | 348.3                |
| 27067              | 144.9                        | 35.2   | 63.6   | 72.8   | 88.5                | 171.6             | 405.0                |
| 27068              | 111.5                        | 22.7   | 64.2   | 59.2   | 97.7                | 146.1             | 355.3                |
| 27069              | 145.8                        | 40.4   | 72.6   | 77.0   | 94.0                | 190.0             | 429.8                |
| 27070              | 133.0                        | 42.8   | 61.4   | 67.6   | 98.5                | 171.8             | 403.3                |
| 27071              | 119.6                        | 34.9   | 60.6   | 41.5   | 101.4               | 137.0             | 358.0                |
| 27072              | 145.4                        | 41.9   | 62.1   | 68.2   | 109.2               | 172.2             | 426.8                |
| 27073              | 105.6                        | 24.4   | 62.8   | 100.6  | 107.1               | 187.8             | 400.5                |
| 27074              | 147.3                        | 41.9   | 93.2   | 88.8   | 113.6               | 223.9             | 484.8                |
| 27075              | 127.0                        | 40.7   | 72.7   | 68.2   | 84.3                | 181.6             | 392.9                |
| 27076              | 131.2                        | 27.8   | 87.8   | 59.0   | 79.5                | 174.6             | 385.3                |
| 27077              | 126.4                        | 28.1   | 63.2   | 70.0   | 95.9                | 161.3             | 383.6                |
| 27078              | 128.5                        | 33.2   | 65.1   | 65.8   | 96.4                | 164.1             | 389.0                |
| 27079              | (156.8)                      | (23.8) | (53.4) | (56.3) | (64.9)              | (133.5)           | (355.2)              |
| N                  | 23                           | 23     | 23     | 23     | 23                  | 23                | 23                   |
| Mean               | 128.01                       | 35.03  | 68.38  | 68.45  | 97.17               | 171.85            | 397.03               |
| S.D.               | 20.444                       | 5.735  | 8.893  | 12.065 | 11.147              | 17.544            | 35.568               |

Appendix 3 - Continued  
Individual and Mean Food Consumption<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 3 - 5 mg/kg

| Maternal<br>Number | Food Consumption (g)         |                      |                      |                      |                      |                      |                      |
|--------------------|------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                    | Interval (Days of Gestation) |                      |                      |                      |                      |                      |                      |
|                    | 0-6                          | 7-8                  | 9-12                 | 13-16                | 17-20 <sup>F</sup>   | 7-16 <sup>B</sup>    | 0-20 <sup>B</sup>    |
| 27080              | 139.2                        | 36.9                 | 60.3                 | 70.0                 | 104.7                | 167.2                | 411.1                |
| 27081              | 139.9                        | 34.5                 | 48.3                 | 60.9                 | 82.8                 | 143.7                | 366.4                |
| 27082              | 138.5                        | 26.3                 | 46.7                 | 38.5                 | 83.1                 | 111.5                | 333.1                |
| 27083              | 136.1                        | 42.7                 | 64.6                 | 39.5                 | 73.4                 | 146.8                | 356.3                |
| 27084              | (141.5)                      | (21.4)               | (53.2)               | (11.2)               | (74.2)               | (85.8)               | (301.5)              |
| 27085              | 127.7                        | 23.3                 | 55.7                 | 66.7                 | 80.5                 | 145.7                | 353.9                |
| 27086              | 113.8                        | 28.3                 | 53.5                 | 59.6                 | 88.0                 | 141.4                | 343.2                |
| 27087              | 146.0                        | 32.2                 | (116.4) <sup>b</sup> | 72.5                 | 123.9                | (221.1) <sup>b</sup> | (491.0) <sup>b</sup> |
| 27088              | 118.1                        | (156.2) <sup>b</sup> | (86.5) <sup>b</sup>  | (88.1) <sup>b</sup>  | (109.3) <sup>b</sup> | (330.8) <sup>b</sup> | (558.2) <sup>b</sup> |
| 27089              | 134.4                        | 35.0                 | 61.0                 | 61.3                 | 87.8                 | 157.3                | 379.5                |
| 27090              | 97.9                         | 28.3                 | 46.9                 | 52.3                 | 74.7                 | 127.5                | 300.1                |
| 27091              | 132.3                        | 26.8                 | 44.6                 | 60.5                 | 85.4                 | 131.9                | 349.6                |
| 27092              | 147.3                        | 36.2                 | 153.0                | 67.1                 | 95.0                 | 256.3                | 498.6                |
| 27093              | 130.5                        | 24.4                 | 51.1                 | 79.8                 | 100.9                | 155.3                | 386.7                |
| 27094              | 168.5                        | 40.4                 | 72.5                 | 69.0                 | 96.1                 | 181.9                | 446.5                |
| 27095              | 120.0                        | 24.9                 | 56.5                 | 55.2                 | 114.6                | 136.6                | 371.2                |
| 27096              | 136.2                        | 34.6                 | (119.9) <sup>b</sup> | (160.8) <sup>b</sup> | (100.6) <sup>b</sup> | (315.3) <sup>b</sup> | (552.1) <sup>b</sup> |
| 27097              | 145.1                        | 40.9                 | 57.8                 | 53.6                 | 100.9                | 152.3                | 398.3                |
| 27098              | 147.3                        | 32.9                 | 75.0                 | 89.4                 | (135.8) <sup>b</sup> | 197.3                | (480.4) <sup>b</sup> |
| 27099              | 177.4                        | 26.6                 | 67.0                 | (110.3) <sup>b</sup> | (108.9) <sup>b</sup> | (203.9) <sup>b</sup> | (490.2) <sup>b</sup> |
| 27100              | 141.8                        | 28.9                 | 34.2                 | 1.5                  | 0.0                  | 64.6                 | 206.4                |
| 27101              | 118.9                        | 30.1                 | 44.0                 | 65.1                 | 91.9                 | 139.2                | 350.0                |
| 27102              | 115.4                        | 28.4                 | 56.5                 | 51.9                 | 90.5                 | 136.8                | 342.7                |
| 27103              | 130.8                        | 31.1                 | 42.4                 | 43.4                 | 95.3                 | 116.9                | 343.0                |
| 27104              | (138.8)                      | (24.5)               | (27.8)               | (36.9)               | (64.3)               | (89.2)               | (292.3)              |
| N                  | 23                           | 22                   | 20                   | 20                   | 19                   | 19                   | 18                   |
| Mean               | 134.92                       | 31.53                | 59.58                | 57.89                | 87.87                | 147.91 <sup>S-</sup> | 363.14 <sup>S-</sup> |
| S.D.               | 17.356                       | 5.567                | 24.302               | 18.350               | 24.771               | 38.131               | 59.846               |

Appendix 3 - Continued  
Individual and Mean Food Consumption<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 4 - 10 mg/kg

| Maternal<br>Number | Food Consumption (g)         |        |                      |                      |                      |                      |                      |
|--------------------|------------------------------|--------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                    | Interval (Days of Gestation) |        |                      |                      |                      |                      |                      |
|                    | 0-6                          | 7-8    | 9-12                 | 13-16                | 17-20 <sup>F</sup>   | 7-16 <sup>B</sup>    | 0-20 <sup>B</sup>    |
| 27105              | 126.5                        | 30.6   | 41.5                 | 17.9                 | 80.0                 | 90.0                 | 296.5                |
| 27106              | 148.7                        | 40.0   | 58.6                 | 67.4                 | 99.5                 | 166.0                | 414.2                |
| 27107              | 110.0                        | 144.4  | 23.6                 | 54.2                 | (200.2) <sup>b</sup> | 222.2                | (532.4) <sup>b</sup> |
| 27108              | 138.3                        | 37.3   | 40.2                 | 23.0                 | 91.3                 | 100.5                | 330.1                |
| 27109              | 140.5                        | 31.7   | (145.5) <sup>b</sup> | 0.0                  | 2.3                  | (177.2) <sup>b</sup> | (320.0) <sup>b</sup> |
| 27110              | 143.2                        | 31.3   | 55.7                 | 35.6                 | 85.0                 | 122.6                | 350.8                |
| 27111              | 136.7                        | 36.7   | 48.3                 | 75.1                 | 100.9                | 160.1                | 397.7                |
| 27112              | 128.9                        | 33.8   | 40.1                 | 1.6                  | 0.0                  | 75.5                 | 204.4                |
| 27113              | 150.0                        | 21.2   | 1.4                  | 0.0                  | 0.0                  | 22.6                 | 172.6                |
| 27114              | 142.9                        | 30.8   | 21.3                 | 0.0                  | 1.1                  | 52.3                 | 196.1                |
| 27115              | 123.7                        | 29.7   | 39.2                 | 26.3                 | 90.5                 | 95.2                 | 309.4                |
| 27116              | 117.4                        | 29.0   | 86.5                 | 57.1                 | (110.0) <sup>b</sup> | 172.6                | (400.0) <sup>b</sup> |
| 27117              | 164.1                        | 44.5   | 10.6                 | 0.0                  | 0.0                  | 55.1                 | 219.2                |
| 27118              | (115.8)                      | (32.5) | (57.2)               | (41.1) <sup>b</sup>  | (24.9)               | (130.8) <sup>b</sup> | (271.5) <sup>b</sup> |
| 27119              | 124.6                        | 28.9   | 15.2                 | 0.2                  | 0.0                  | 44.3                 | 168.9                |
| 27120              | 150.7                        | 42.3   | 31.5                 | 0.0                  | -                    | 73.8                 | -                    |
| 27121              | 98.5                         | 24.3   | (48.0) <sup>b</sup>  | (126.3) <sup>b</sup> | (96.8) <sup>b</sup>  | (198.6) <sup>b</sup> | (393.9) <sup>b</sup> |
| 27122              | 120.6                        | 33.5   | 44.3                 | (164.9) <sup>b</sup> | (152.0) <sup>b</sup> | (242.7) <sup>b</sup> | (515.3) <sup>b</sup> |
| 27123              | 158.2                        | 41.4   | (66.2) <sup>b</sup>  | 54.5                 | (119.8) <sup>b</sup> | (162.1) <sup>b</sup> | (440.1) <sup>b</sup> |
| 27124              | 137.6                        | 34.5   | (129.3) <sup>b</sup> | (196.3) <sup>b</sup> | (117.8) <sup>b</sup> | (360.1) <sup>b</sup> | (615.5) <sup>b</sup> |
| 27125              | 115.0                        | 28.1   | 17.1                 | 0.0                  | 0.0                  | 45.2                 | 160.2                |
| 27126              | 123.5                        | 26.6   | 39.9                 | 7.5                  | 0.0                  | 74.0                 | 197.5                |
| 27127              | 133.7                        | 27.5   | 48.4                 | 11.8                 | -                    | 87.7                 | -                    |
| 27128              | (122.7)                      | (31.5) | (41.1)               | (20.4) <sup>b</sup>  | (0.4)                | (93.0) <sup>b</sup>  | (216.1) <sup>b</sup> |
| 27129              | (113.0)                      | (27.9) | (15.7)               | (0.0)                | (72.2)               | (43.6)               | (228.8)              |
| N                  | 22                           | 22     | 18                   | 19                   | 14                   | 17                   | 13                   |
| Mean               | 133.33                       | 37.64  | 36.86                | 22.75                | 39.33 <sup>S-</sup>  | 97.63 <sup>S-</sup>  | 262.89 <sup>S-</sup> |
| S.D.               | 16.209                       | 24.571 | 20.179               | 26.380               | 46.891               | 54.321               | 90.464               |

Appendix 4

Individual and Mean Terminal Body Weights, Gravid Uterine Weights, and Terminal Body Weights Minus Gravid Uterine Weights (g)<sup>a</sup>  
Rat Teratology Study of T-3351.  
Group 1 - 0 mg/kg

| <u>Maternal<br/>Number</u> | <u>Terminal<br/>Body Weight</u> | <u>Gravid<br/>Uterine Weight<sup>B</sup></u> | <u>Terminal Body<br/>Weight Minus<br/>Gravid Uterine Weight<sup>F</sup></u> |
|----------------------------|---------------------------------|----------------------------------------------|-----------------------------------------------------------------------------|
| 27030                      | 422.5                           | 90.4                                         | 332.1                                                                       |
| 27031                      | 388.2                           | 90.9                                         | 297.3                                                                       |
| 27032                      | 404.3                           | 88.2                                         | 316.1                                                                       |
| 27033                      | 367.8                           | 67.8                                         | 300.0                                                                       |
| 27034                      | 341.4                           | 66.6                                         | 274.8                                                                       |
| 27035                      | 446.6                           | 97.3                                         | 349.3                                                                       |
| 27036                      | 409.0                           | 86.9                                         | 322.1                                                                       |
| 27037                      | Not Pregnant                    |                                              |                                                                             |
| 27038                      | 373.1                           | 69.2                                         | 303.9                                                                       |
| 27039                      | 427.1                           | 76.2                                         | 350.9                                                                       |
| 27040                      | 348.8                           | 54.7                                         | 294.1                                                                       |
| 27041                      | 374.1                           | 82.4                                         | 291.7                                                                       |
| 27042                      | 381.9                           | 80.1                                         | 301.8                                                                       |
| 27043                      | 368.2                           | 30.8                                         | 337.4                                                                       |
| 27044                      | 390.8                           | 80.6                                         | 310.2                                                                       |
| 27045                      | 381.8                           | 52.4                                         | 329.4                                                                       |
| 27046                      | 384.5                           | 72.3                                         | 312.2                                                                       |
| 27047                      | 371.1                           | 64.5                                         | 306.6                                                                       |
| 27048                      | 438.8                           | 74.0                                         | 364.8                                                                       |
| 27049                      | 447.0                           | 84.1                                         | 362.9                                                                       |
| 27050                      | 392.5                           | 74.8                                         | 317.7                                                                       |
| 27051                      | 399.4                           | 60.3                                         | 339.1                                                                       |
| 27052                      | 422.2                           | 83.1                                         | 339.1                                                                       |
| 27053                      | 396.2                           | 74.6                                         | 321.6                                                                       |
| 27054                      | 412.6                           | 82.1                                         | 330.5                                                                       |
| N                          | 24                              | 24                                           | 24                                                                          |
| Mean                       | 395.41                          | 74.35                                        | 321.07                                                                      |
| S.O.                       | 28.666                          | 14.704                                       | 23.215                                                                      |

Appendix 4 - Continued  
Individual and Mean Terminal Body Weights, Gravid Uterine  
Weights, and Terminal Body Weights Minus Gravid Uterine Weights (g)<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 2 - 1 mg/kg

| <u>Maternal<br/>Number</u> | <u>Terminal<br/>Body Weight</u> | <u>Gravid<br/>Uterine Weight<sup>B</sup></u> | <u>Terminal Body<br/>Weight Minus<br/>Gravid Uterine Weight<sup>F</sup></u> |
|----------------------------|---------------------------------|----------------------------------------------|-----------------------------------------------------------------------------|
| 27055                      | 381.3                           | 72.5                                         | 308.8                                                                       |
| 27056                      | 429.0                           | 88.5                                         | 340.5                                                                       |
| 27057                      | 372.2                           | 73.3                                         | 298.9                                                                       |
| 27058                      | 401.1                           | 86.5                                         | 314.6                                                                       |
| 27059                      | 388.4                           | 69.1                                         | 319.3                                                                       |
| 27060                      | Not Pregnant                    |                                              |                                                                             |
| 27061                      | 379.4                           | 69.2                                         | 310.2                                                                       |
| 27062                      | 356.8                           | 64.0                                         | 292.8                                                                       |
| 27063                      | 378.7                           | 67.4                                         | 311.3                                                                       |
| 27064                      | 388.7                           | 74.6                                         | 314.1                                                                       |
| 27065                      | 397.8                           | 80.0                                         | 317.8                                                                       |
| 27066                      | 362.4                           | 37.9                                         | 324.5                                                                       |
| 27067                      | 385.5                           | 76.1                                         | 309.4                                                                       |
| 27068                      | 386.8                           | 80.4                                         | 306.4                                                                       |
| 27069                      | 413.7                           | 83.7                                         | 330.0                                                                       |
| 27070                      | 397.6                           | 90.0                                         | 307.6                                                                       |
| 27071                      | 377.8                           | 77.8                                         | 300.0                                                                       |
| 27072                      | 413.3                           | 85.3                                         | 328.0                                                                       |
| 27073                      | 407.8                           | 84.7                                         | 323.1                                                                       |
| 27074                      | 436.3                           | 84.8                                         | 351.5                                                                       |
| 27075                      | 372.3                           | 77.3                                         | 295.0                                                                       |
| 27076                      | 370.8                           | 60.7                                         | 310.1                                                                       |
| 27077                      | 388.4                           | 83.2                                         | 305.2                                                                       |
| 27078                      | 376.8                           | 71.6                                         | 305.2                                                                       |
| 27079                      | Not Pregnant                    |                                              |                                                                             |
| N                          | 23                              | 23                                           | 23                                                                          |
| Mean                       | 389.69                          | 75.59                                        | 314.10                                                                      |
| S.D.                       | 20.073                          | 11.458                                       | 14.093                                                                      |

Appendix 4 - Continued  
Individual and Mean Terminal Body Weights, Gravid Uterine  
Weights, and Terminal Body Weights Minus Gravid Uterine Weights (g)<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 3 - 5 mg/kg

| <u>Maternal<br/>Number</u> | <u>Terminal<br/>Body Weight</u> | <u>Gravid<br/>Uterine Weight<sup>B</sup></u> | <u>Terminal Body<br/>Weight Minus<br/>Gravid Uterine Weight<sup>F</sup></u> |
|----------------------------|---------------------------------|----------------------------------------------|-----------------------------------------------------------------------------|
| 27080                      | 425.3                           | 103.9                                        | 321.4                                                                       |
| 27081                      | 355.0                           | 72.2                                         | 282.8                                                                       |
| 27082                      | 352.7                           | 72.4                                         | 280.3                                                                       |
| 27083                      | 361.1                           | 68.5                                         | 292.6                                                                       |
| 27084                      | Not Pregnant                    |                                              |                                                                             |
| 27085                      | 382.6                           | 89.8                                         | 292.8                                                                       |
| 27086                      | 372.1                           | 79.4                                         | 292.7                                                                       |
| 27087                      | 415.7                           | 76.6                                         | 339.1                                                                       |
| 27088                      | 342.9                           | 73.5                                         | 269.4                                                                       |
| 27089                      | 374.7                           | 71.2                                         | 303.5                                                                       |
| 27090                      | 308.6                           | 61.6                                         | 247.0                                                                       |
| 27091                      | 360.9                           | 75.3                                         | 285.6                                                                       |
| 27092                      | 391.3                           | 88.0                                         | 303.3                                                                       |
| 27093 <sup>C</sup>         | 373.2                           | -                                            | -                                                                           |
| 27094                      | 372.0                           | 71.2                                         | 300.8                                                                       |
| 27095                      | 410.4                           | 87.1                                         | 323.3                                                                       |
| 27096                      | 358.6                           | 65.4                                         | 293.2                                                                       |
| 27097                      | 398.7                           | 65.2                                         | 333.5                                                                       |
| 27098                      | 371.5                           | 68.0                                         | 303.5                                                                       |
| 27099                      | 366.1                           | 61.6                                         | 304.5                                                                       |
| 27100                      | 254.1                           | 48.2                                         | 205.9                                                                       |
| 27101                      | 357.0                           | 73.9                                         | 283.1                                                                       |
| 27102                      | 369.0                           | 72.9                                         | 296.1                                                                       |
| 27103                      | 370.1                           | 70.2                                         | 299.9                                                                       |
| 27104                      | Not Pregnant                    |                                              |                                                                             |
| N                          | 23                              | 22                                           | 22                                                                          |
| Mean                       | 367.11                          | 73.46                                        | 293.38 <sup>S-</sup>                                                        |
| S.D.                       | 35.036                          | 11.486                                       | 28.235                                                                      |

Appendix 4 - Continued  
Individual and Mean Terminal Body Weights, Gravid Uterine  
Weights, and Terminal Body Weights Minus Gravid Uterine Weights (g)<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 4 - 10 mg/kg

| <u>Maternal<br/>Number</u> | <u>Terminal<br/>Body Weight</u> | <u>Gravid<br/>Uterine Weight<sup>B</sup></u> | <u>Terminal Body<br/>Weight Minus<br/>Gravid Uterine Weight<sup>F</sup></u> |
|----------------------------|---------------------------------|----------------------------------------------|-----------------------------------------------------------------------------|
| 27105                      | 364.7                           | 82.3                                         | 282.4                                                                       |
| 27106                      | 378.4                           | 58.9                                         | 319.5                                                                       |
| 27107                      | 271.7                           | 54.6                                         | 217.1                                                                       |
| 27108                      | 377.2                           | 79.8                                         | 297.4                                                                       |
| 27109                      | 209.3                           | 72.2                                         | 137.1                                                                       |
| 27110                      | 325.9                           | 64.4                                         | 261.5                                                                       |
| 27111                      | 386.7                           | 86.5                                         | 300.2                                                                       |
| 27112                      | 222.8                           | 40.8                                         | 182.0                                                                       |
| 27113                      | 235.3                           | 43.3                                         | 192.0                                                                       |
| 27114                      | 240.5                           | 42.3                                         | 198.2                                                                       |
| 27115                      | 351.6                           | 82.4                                         | 269.2                                                                       |
| 27116                      | 340.0                           | 55.4                                         | 284.6                                                                       |
| 27117                      | 247.2                           | 38.5                                         | 208.7                                                                       |
| 27118                      | Not Pregnant                    |                                              |                                                                             |
| 27119                      | 180.7                           | 32.4                                         | 148.3                                                                       |
| 27120                      | Found Dead                      |                                              |                                                                             |
| 27121                      | 349.6                           | 71.7                                         | 277.9                                                                       |
| 27122                      | 331.3                           | 66.0                                         | 265.3                                                                       |
| 27123                      | 414.9                           | 79.4                                         | 335.5                                                                       |
| 27124                      | 366.8                           | 76.0                                         | 290.8                                                                       |
| 27125                      | 211.4                           | 39.7                                         | 171.7                                                                       |
| 27126                      | 232.2                           | 43.6                                         | 188.6                                                                       |
| 27127                      | Found Dead                      |                                              |                                                                             |
| 27128                      | Not Pregnant                    |                                              |                                                                             |
| 27129                      | Not Pregnant                    |                                              |                                                                             |
| N                          | 20                              | 20                                           | 20                                                                          |
| Mean                       | 301.91                          | 60.51 <sup>S-</sup>                          | 241.40 <sup>S-</sup>                                                        |
| S.D.                       | 73.253                          | 17.739                                       | 59.517                                                                      |

Appendix 5  
Individual and Mean Ovarian and Uterine Data  
Rat Teratology Study of T-3351  
Group 1 - 0 mg/kg

| <u>Maternal<br/>Number</u> | <u>Ovarian<br/>Corpora Lutea</u> | <u>Uterine<br/>Implantations</u> | <u>Implantation<br/>Efficiency (%)</u> | <u>Early<br/>Resorptions</u> | <u>Early<br/>Resorptions (%)</u> | <u>Late<br/>Resorptions</u> | <u>Late<br/>Resorptions (%)</u> | <u>Total<br/>Resorptions</u> | <u>Total<br/>Resorptions (%)</u> |
|----------------------------|----------------------------------|----------------------------------|----------------------------------------|------------------------------|----------------------------------|-----------------------------|---------------------------------|------------------------------|----------------------------------|
| 27030                      | 15                               | 15                               | 100.0                                  | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27031                      | 17                               | 17                               | 100.0                                  | 1                            | 5.9                              | 0                           | 0.0                             | 1                            | 5.9                              |
| 27032                      | 19                               | 15                               | 78.9                                   | 1                            | 6.7                              | 0                           | 0.0                             | 1                            | 6.7                              |
| 27033                      | 19                               | 15                               | 78.9                                   | 3                            | 20.0                             | 0                           | 0.0                             | 3                            | 20.0                             |
| 27034                      | 16                               | 15                               | 93.8                                   | 1                            | 6.7                              | 0                           | 0.0                             | 1                            | 6.7                              |
| 27035                      | 20                               | 18                               | 90.0                                   | 1                            | 5.6                              | 0                           | 0.0                             | 1                            | 5.6                              |
| 27036                      | 14                               | 14                               | 100.0                                  | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27037                      | Not Pregnant                     |                                  |                                        |                              |                                  |                             |                                 |                              |                                  |
| 27038                      | 16                               | 14                               | 87.5                                   | 2                            | 14.3                             | 0                           | 0.0                             | 2                            | 14.3                             |
| 27039                      | 19                               | 17                               | 89.5                                   | 4                            | 23.5                             | 0                           | 0.0                             | 4                            | 23.5                             |
| 27040                      | 16                               | 13                               | 81.3                                   | 1                            | 7.7                              | 0                           | 0.0                             | 1                            | 7.7                              |
| 27041                      | 15                               | 15                               | 100.0                                  | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27042                      | 17                               | 15                               | 88.2                                   | 1                            | 6.7                              | 0                           | 0.0                             | 1                            | 6.7                              |
| 27043                      | 14                               | 7                                | 50.0                                   | 2                            | 28.6                             | 0                           | 0.0                             | 2                            | 28.6                             |
| 27044                      | 18                               | 16                               | 88.9                                   | 1                            | 6.3                              | 0                           | 0.0                             | 1                            | 6.3                              |
| 27045                      | 19                               | 10                               | 52.6                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27046                      | 13                               | 13                               | 100.0                                  | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27047                      | 12                               | 12                               | 100.0                                  | 1                            | 8.3                              | 0                           | 0.0                             | 1                            | 8.3                              |
| 27048                      | 15                               | 15                               | 100.0                                  | 1                            | 6.7                              | 0                           | 0.0                             | 1                            | 6.7                              |
| 27049                      | 19                               | 18                               | 94.7                                   | 1                            | 5.6                              | 0                           | 0.0                             | 1                            | 5.6                              |
| 27050                      | 17                               | 14                               | 82.4                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27051                      | 16                               | 13                               | 81.3                                   | 2                            | 15.4                             | 0                           | 0.0                             | 2                            | 15.4                             |
| 27052                      | 16                               | 15                               | 93.8                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27053                      | 18                               | 15                               | 83.3                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27054                      | 18                               | 17                               | 94.4                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| Total                      | 398                              | 348                              |                                        | 23                           |                                  | 0                           |                                 | 23                           |                                  |
| N                          | 24                               | 24                               | 24                                     | 24                           | 24                               | 24                          | 24                              | 24                           | 24                               |
| Mean                       | 16.6                             | 14.5                             | 87.90                                  | 1.0                          | 7.00                             | 0.0                         | 0.00                            | 1.0                          | 7.00                             |
| S.D.                       | 2.12                             | 2.45                             | 13.472                                 | 1.04                         | 8.024                            | -                           | -                               | 1.04                         | 8.024                            |



Appendix 5 - Continued  
 Individual and Mean Ovarian and Uterine Data  
 Rat Teratology Study of T-3351  
 Group 2 - 1 mg/kg

| <u>Maternal<br/>Number</u> | <u>Ovarian<br/>Corpora Lutea</u> | <u>Uterine<br/>Implantations</u> | <u>Implantation<br/>Efficiency (%)</u> | <u>Early<br/>Resorptions</u> | <u>Early<br/>Resorptions (%)</u> | <u>Late<br/>Resorptions</u> | <u>Late<br/>Resorptions (%)</u> | <u>Total<br/>Resorptions</u> | <u>Total<br/>Resorptions (%)</u> |
|----------------------------|----------------------------------|----------------------------------|----------------------------------------|------------------------------|----------------------------------|-----------------------------|---------------------------------|------------------------------|----------------------------------|
| 27055                      | 15                               | 13                               | 86.7                                   | 1                            | 7.7                              | 0                           | 0.0                             | 1                            | 7.7                              |
| 27056                      | 17                               | 16                               | 94.1                                   | 1                            | 6.3                              | 0                           | 0.0                             | 1                            | 6.3                              |
| 27057                      | 13                               | 13                               | 100.0                                  | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27058                      | 15                               | 15                               | 100.0                                  | 1                            | 6.7                              | 0                           | 0.0                             | 1                            | 6.7                              |
| 27059                      | 14                               | 14                               | 100.0                                  | 2                            | 14.3                             | 0                           | 0.0                             | 2                            | 14.3                             |
| 27060                      | Not Pregnant                     |                                  |                                        |                              |                                  |                             |                                 |                              |                                  |
| 27061                      | 12                               | 11                               | 91.7                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27062                      | 15                               | 13                               | 86.7                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27063                      | 14                               | 13                               | 92.9                                   | 1                            | 7.7                              | 0                           | 0.0                             | 1                            | 7.7                              |
| 27064                      | 15                               | 15                               | 100.0                                  | 1                            | 6.7                              | 0                           | 0.0                             | 1                            | 6.7                              |
| 27065                      | 17                               | 16                               | 94.1                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27066                      | 11                               | 7                                | 63.6                                   | 1                            | 14.3                             | 0                           | 0.0                             | 1                            | 14.3                             |
| 27067                      | 16                               | 16                               | 100.0                                  | 2                            | 12.5                             | 0                           | 0.0                             | 2                            | 12.5                             |
| 27068                      | 19                               | 16                               | 84.2                                   | 1                            | 6.3                              | 0                           | 0.0                             | 1                            | 6.3                              |
| 27069                      | 25                               | 17                               | 68.0                                   | 2                            | 11.8                             | 0                           | 0.0                             | 2                            | 11.8                             |
| 27070                      | 17                               | 16                               | 94.1                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27071                      | 15                               | 14                               | 93.3                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27072                      | 18                               | 18                               | 100.0                                  | 1                            | 5.6                              | 0                           | 0.0                             | 1                            | 5.6                              |
| 27073                      | 17                               | 16                               | 94.1                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27074                      | 18                               | 16                               | 88.9                                   | 1                            | 6.3                              | 0                           | 0.0                             | 1                            | 6.3                              |
| 27075                      | 18                               | 15                               | 83.3                                   | 1                            | 6.7                              | 0                           | 0.0                             | 1                            | 6.7                              |
| 27076                      | 15                               | 13                               | 86.7                                   | 1                            | 7.7                              | 0                           | 0.0                             | 1                            | 7.7                              |
| 27077                      | 13                               | 13                               | 100.0                                  | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27078                      | 16                               | 15                               | 93.8                                   | 1                            | 6.7                              | 0                           | 0.0                             | 1                            | 6.7                              |
| 27079                      | Not Pregnant                     |                                  |                                        |                              |                                  |                             |                                 |                              |                                  |
| Total                      | 365                              | 331                              |                                        | 18                           |                                  | 0                           |                                 | 18                           |                                  |
| N                          | 23                               | 23                               | 23                                     | 23                           | 23                               | 23                          | 23                              | 23                           | 23                               |
| Mean                       | 15.9                             | 14.4                             | 91.14                                  | 0.8                          | 5.53                             | 0.0                         | 0.00                            | 0.8                          | 5.53                             |
| S.D.                       | 2.85                             | 2.31                             | 9.694                                  | 0.67                         | 4.804                            | -                           | -                               | 0.67                         | 4.804                            |

Appendix 5 - Continued  
Individual and Mean Ovarian and Uterine Data  
Rat Teratology Study of T-3351  
Group 3 - 5 mg/kg

| <u>Maternal<br/>Number</u> | <u>Ovarian<br/>Corpora Lutea</u> | <u>Uterine<br/>Implantations</u> | <u>Implantation<br/>Efficiency (%)</u> | <u>Early<br/>Resorptions</u> | <u>Early<br/>Resorptions (%)</u> | <u>Late<br/>Resorptions</u> | <u>Late<br/>Resorptions (%)</u> | <u>Total<br/>Resorptions</u> | <u>Total<br/>Resorptions (%)</u> |
|----------------------------|----------------------------------|----------------------------------|----------------------------------------|------------------------------|----------------------------------|-----------------------------|---------------------------------|------------------------------|----------------------------------|
| 27080                      | 16                               | 16                               | 100.0                                  | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27081                      | 14                               | 13                               | 92.9                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27082                      | 15                               | 14                               | 93.3                                   | 1                            | 7.1                              | 0                           | 0.0                             | 1                            | 7.1                              |
| 27083                      | 14                               | 14                               | 100.0                                  | 2                            | 14.3                             | 0                           | 0.0                             | 2                            | 14.3                             |
| 27084                      | Not Pregnant                     |                                  |                                        |                              |                                  |                             |                                 |                              |                                  |
| 27085                      | 20                               | 17                               | 85.0                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27086                      | 15                               | 15                               | 100.0                                  | 0                            | 0.0                              | 1                           | 6.7                             | 1                            | 6.7                              |
| 27087                      | 15                               | 15                               | 100.0                                  | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27088                      | 15                               | 14                               | 93.3                                   | 1                            | 7.1                              | 0                           | 0.0                             | 1                            | 7.1                              |
| 27089                      | 13                               | 13                               | 100.0                                  | 1                            | 7.7                              | 0                           | 0.0                             | 1                            | 7.7                              |
| 27090                      | 13                               | 12                               | 92.3                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27091                      | 15                               | 15                               | 100.0                                  | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27092                      | 19                               | 17                               | 89.5                                   | 1                            | 5.9                              | 0                           | 0.0                             | 1                            | 5.9                              |
| 27093                      | 15                               | 14                               | 93.3                                   | 1                            | 7.1                              | 0                           | 0.0                             | 1                            | 7.1                              |
| 27094                      | 14                               | 13                               | 92.9                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27095                      | 17                               | 17                               | 100.0                                  | 1                            | 5.9                              | 0                           | 0.0                             | 1                            | 5.9                              |
| 27096                      | 17                               | 16                               | 94.1                                   | 3                            | 18.8                             | 0                           | 0.0                             | 3                            | 18.8                             |
| 27097                      | 16                               | 15                               | 93.8                                   | 2                            | 13.3                             | 0                           | 0.0                             | 2                            | 13.3                             |
| 27098                      | 18                               | 14                               | 77.8                                   | 2                            | 14.3                             | 0                           | 0.0                             | 2                            | 14.3                             |
| 27099                      | 16                               | 12                               | 75.0                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27100                      | 19                               | 16                               | 84.2                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27101                      | 16                               | 15                               | 93.8                                   | 1                            | 6.7                              | 0                           | 0.0                             | 1                            | 6.7                              |
| 27102                      | 16                               | 14                               | 87.5                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27103                      | 15                               | 14                               | 93.3                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27104                      | Not Pregnant                     |                                  |                                        |                              |                                  |                             |                                 |                              |                                  |
| Total                      | 363                              | 335                              |                                        | 16                           |                                  | 1                           |                                 | 17                           |                                  |
| N                          | 23                               | 23                               | 23                                     | 23                           | 23                               | 23                          | 23                              | 23                           | 23                               |
| Mean                       | 15.8                             | 14.6                             | 92.70                                  | 0.7                          | 4.70                             | 0.0                         | 0.29                            | 0.7                          | 5.00                             |
| S.D.                       | 1.86                             | 1.47                             | 7.017                                  | 0.88                         | 5.859                            | 0.21                        | 1.397                           | 0.86                         | 5.781                            |

Appendix 5 - Continued  
Individual and Mean Ovarian and Uterine Data  
Rat Teratology Study of T-3351  
Group 4 - 10 mg/kg

154-160

| <u>Maternal<br/>Number</u> | <u>Ovarian<br/>Corpora Lutea</u> | <u>Uterine<br/>Implantations</u> | <u>Implantation<br/>Efficiency (%)</u> | <u>Early<br/>Resorptions</u> | <u>Early<br/>Resorptions (%)</u> | <u>Late<br/>Resorptions</u> | <u>Late<br/>Resorptions (%)</u> | <u>Total<br/>Resorptions</u> | <u>Total<br/>Resorptions (%)</u> |
|----------------------------|----------------------------------|----------------------------------|----------------------------------------|------------------------------|----------------------------------|-----------------------------|---------------------------------|------------------------------|----------------------------------|
| 27105                      | 17                               | 15                               | 88.2                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27106                      | 17                               | 11                               | 64.7                                   | 1                            | 9.1                              | 0                           | 0.0                             | 1                            | 9.1                              |
| 27107                      | 14                               | 13                               | 92.9                                   | 3                            | 23.1                             | 0                           | 0.0                             | 3                            | 23.1                             |
| 27108                      | 17                               | 16                               | 94.1                                   | 1                            | 6.3                              | 0                           | 0.0                             | 1                            | 6.3                              |
| 27109                      | 18                               | 17                               | 94.4                                   | 1                            | 5.9                              | 15                          | 88.2                            | 16                           | 94.1                             |
| 27110                      | 21                               | 14                               | 66.7                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27111                      | 17                               | 16                               | 94.1                                   | 1                            | 6.3                              | 0                           | 0.0                             | 1                            | 6.3                              |
| 27112                      | 14                               | 13                               | 92.9                                   | 1                            | 7.7                              | 0                           | 0.0                             | 1                            | 7.7                              |
| 27113                      | 15                               | 15                               | 100.0                                  | 2                            | 13.3                             | 1                           | 6.7                             | 3                            | 20.0                             |
| 27114                      | 18                               | 15                               | 83.3                                   | 2                            | 13.3                             | 0                           | 0.0                             | 2                            | 13.3                             |
| 27115                      | 16                               | 15                               | 93.8                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27116                      | 14                               | 12                               | 85.7                                   | 1                            | 8.3                              | 0                           | 0.0                             | 1                            | 8.3                              |
| 27117                      | 22                               | 14                               | 63.6                                   | 0                            | 0.0                              | 1                           | 7.1                             | 1                            | 7.1                              |
| 27118                      | Not Pregnant                     |                                  |                                        |                              |                                  |                             |                                 |                              |                                  |
| 27119                      | 15                               | 13                               | 86.7                                   | 13                           | 100.0                            | 0                           | 0.0                             | 13                           | 100.0                            |
| 27120 <sup>a</sup>         | 17                               | 16                               | 94.1                                   |                              |                                  |                             |                                 |                              |                                  |
| 27121                      | 15                               | 15                               | 100.0                                  | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27122                      | 15                               | 15                               | 100.0                                  | 3                            | 20.0                             | 0                           | 0.0                             | 3                            | 20.0                             |
| 27123                      | 18                               | 15                               | 83.3                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27124                      | 16                               | 16                               | 100.0                                  | 1                            | 6.3                              | 0                           | 0.0                             | 1                            | 6.3                              |
| 27125                      | 16                               | 13                               | 81.3                                   | 0                            | 0.0                              | 0                           | 0.0                             | 0                            | 0.0                              |
| 27126                      | 18                               | 15                               | 83.3                                   | 1                            | 6.7                              | 0                           | 0.0                             | 1                            | 6.7                              |
| 27127 <sup>a</sup>         | 15                               | 13                               | 86.7                                   |                              |                                  |                             |                                 |                              |                                  |
| 27128                      | Not Pregnant                     |                                  |                                        |                              |                                  |                             |                                 |                              |                                  |
| 27129                      | Not Pregnant                     |                                  |                                        |                              |                                  |                             |                                 |                              |                                  |
| Total                      | 365                              | 317                              |                                        | 31                           |                                  | 17                          |                                 | 48                           |                                  |
| N                          | 22                               | 22                               | 22                                     | 20                           | 20                               | 20                          | 20                              | 20                           | 20                               |
| Mean                       | 16.6                             | 14.4                             | 87.72                                  | 1.6                          | 11.32                            | 0.9                         | 5.10                            | 2.4                          | 16.42                            |
| S.D.                       | 2.09                             | 1.50                             | 10.955                                 | 2.86                         | 21.929                           | 3.34                        | 19.674                          | 4.28                         | 28.471                           |

<sup>a</sup>Found dead on Day 17, therefore, fetal data not available.

Appendix 6  
Individual and Mean Litter Data<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 1 - 0 mg/kg

154-160

| Maternal<br>Number | Total<br>Resorptions | Number of Fetuses |                                |      |          | Sex   |         | Percent<br>Males | Mean Weight (g) <sup>c</sup> |         |
|--------------------|----------------------|-------------------|--------------------------------|------|----------|-------|---------|------------------|------------------------------|---------|
|                    |                      | Dead              | Fetal<br>Loss (%) <sup>b</sup> | Live | Live (%) | Males | Females |                  | Males                        | Females |
| 27030              | 0                    | 0                 | 0.0                            | 15   | 100.0    | 7     | 8       | 46.7             | 3.7                          | 3.6     |
| 27031              | 1                    | 0                 | 5.9                            | 16   | 94.1     | 8     | 8       | 50.0             | 3.5                          | 3.2     |
| 27032              | 1                    | 0                 | 6.7                            | 14   | 93.3     | 7     | 7       | 50.0             | 3.9                          | 3.4     |
| 27033              | 3                    | 0                 | 20.0                           | 12   | 80.0     | 7     | 5       | 58.3             | 3.3                          | 3.2     |
| 27034              | 1                    | 0                 | 6.7                            | 14   | 93.3     | 5     | 9       | 35.7             | 2.5                          | 2.8     |
| 27035              | 1                    | 0                 | 5.6                            | 17   | 94.4     | 12    | 5       | 70.6             | 3.3                          | 3.2     |
| 27036              | 0                    | 0                 | 0.0                            | 14   | 100.0    | 7     | 7       | 50.0             | 4.1                          | 3.9     |
| 27037              | Not Pregnant         |                   |                                |      |          |       |         |                  |                              |         |
| 27038              | 2                    | 0                 | 14.3                           | 12   | 85.7     | 5     | 7       | 41.7             | 3.5                          | 3.3     |
| 27039              | 4                    | 0                 | 23.5                           | 13   | 76.5     | 6     | 7       | 46.2             | 3.6                          | 3.4     |
| 27040              | 1                    | 0                 | 7.7                            | 12   | 92.3     | 7     | 5       | 58.3             | 2.7                          | 2.4     |
| 27041              | 0                    | 0                 | 0.0                            | 15   | 100.0    | 4     | 11      | 26.7             | 3.4                          | 3.3     |
| 27042              | 1                    | 0                 | 6.7                            | 14   | 93.3     | 4     | 10      | 28.6             | 3.5                          | 3.4     |
| 27043              | 2                    | 0                 | 28.6                           | 5    | 71.4     | 1     | 4       | 20.0             | 2.2                          | 3.2     |
| 27044              | 1                    | 0                 | 6.3                            | 15   | 93.8     | 12    | 3       | 80.0             | 3.2                          | 2.9     |
| 27045              | 0                    | 0                 | 0.0                            | 10   | 100.0    | 3     | 7       | 30.0             | 3.2                          | 3.2     |
| 27046              | 0                    | 0                 | 0.0                            | 13   | 100.0    | 5     | 8       | 38.5             | 3.3                          | 3.2     |
| 27047              | 1                    | 0                 | 8.3                            | 11   | 91.7     | 5     | 6       | 45.5             | 3.0                          | 2.9     |
| 27048              | 1                    | 0                 | 6.7                            | 14   | 93.3     | 6     | 8       | 42.9             | 3.3                          | 3.2     |
| 27049              | 1                    | 0                 | 5.6                            | 17   | 94.4     | 9     | 8       | 52.9             | 3.2                          | 2.9     |
| 27050              | 0                    | 0                 | 0.0                            | 14   | 100.0    | 6     | 8       | 42.9             | 3.1                          | 3.1     |
| 27051              | 2                    | 0                 | 15.4                           | 11   | 84.6     | 5     | 6       | 45.5             | 3.2                          | 3.2     |
| 27052              | 0                    | 0                 | 0.0                            | 15   | 100.0    | 7     | 8       | 46.7             | 3.5                          | 3.4     |
| 27053              | 0                    | 0                 | 0.0                            | 15   | 100.0    | 2     | 13      | 13.3             | 3.3                          | 3.0     |
| 27054              | 0                    | 0                 | 0.0                            | 17   | 100.0    | 6     | 11      | 35.3             | 3.1                          | 2.8     |
| Total              | 23                   | 0                 |                                | 325  |          | 146   | 179     |                  |                              |         |
| N                  | 24                   | 24                | 24                             | 24   | 24       | 24    | 24      | 24               | 24                           | 24      |
| Unadjusted Mean    | 1.0                  | 0.0               | 7.00                           | 13.5 | 93.00    | 6.1   | 7.5     | 44.01            | 3.28                         | 3.17    |
| Unadjusted S.D.    | 1.04                 | -                 | 8.024                          | 2.64 | 8.024    | 2.59  | 2.30    | 14.828           | 0.408                        | 0.301   |
| Covariance         |                      |                   |                                |      |          |       |         |                  |                              |         |
| Adjusted Mean      |                      |                   |                                |      |          |       |         |                  | 3.28                         | 3.16    |
| Covariance         |                      |                   |                                |      |          |       |         |                  |                              |         |
| Adjusted S.D.      |                      |                   |                                |      |          |       |         |                  | 0.092                        | 0.084   |

<sup>a</sup> Sex, percent males, and mean weight data include values for live fetuses only.

<sup>b</sup> Percent fetal loss includes resorptions as well as dead fetuses.

<sup>c</sup> Statistical analysis performed on covariance adjusted means.

Appendix 6 - Continued  
Individual and Mean Litter Data<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 2 - 1 mg/kg

154-160

| Maternal<br>Number | Total<br>Resorptions | Number of Fetuses |                                |      |          | Sex   |         | Percent<br>Males | Mean Weight (g) <sup>c</sup> |         |
|--------------------|----------------------|-------------------|--------------------------------|------|----------|-------|---------|------------------|------------------------------|---------|
|                    |                      | Dead              | Fetal<br>Loss (%) <sup>b</sup> | Live | Live (%) | Males | Females |                  | Males                        | Females |
| 27055              | 1                    | 0                 | 7.7                            | 12   | 92.3     | 8     | 4       | 66.7             | 3.4                          | 3.4     |
| 27056              | 1                    | 0                 | 6.3                            | 15   | 93.8     | 8     | 7       | 53.3             | 3.3                          | 3.3     |
| 27057              | 0                    | 0                 | 0.0                            | 13   | 100.0    | 9     | 4       | 69.2             | 3.4                          | 3.4     |
| 27058              | 1                    | 0                 | 6.7                            | 14   | 93.3     | 8     | 6       | 57.1             | 3.4                          | 3.2     |
| 27059              | 2                    | 0                 | 14.3                           | 12   | 85.7     | 5     | 7       | 41.7             | 3.3                          | 3.0     |
| 27060              | Not Pregnant         |                   |                                |      |          |       |         |                  |                              |         |
| 27061              | 0                    | 0                 | 0.0                            | 11   | 100.0    | 7     | 4       | 63.6             | 3.8                          | 3.6     |
| 27062              | 0                    | 0                 | 0.0                            | 13   | 100.0    | 8     | 5       | 61.5             | 2.7                          | 2.8     |
| 27063              | 1                    | 0                 | 7.7                            | 12   | 92.3     | 3     | 9       | 25.0             | 3.5                          | 3.2     |
| 27064              | 1                    | 0                 | 6.7                            | 14   | 93.3     | 6     | 8       | 42.9             | 3.3                          | 3.0     |
| 27065              | 0                    | 0                 | 0.0                            | 16   | 100.0    | 8     | 8       | 50.0             | 2.8                          | 2.8     |
| 27066              | 1                    | 0                 | 14.3                           | 6    | 85.7     | 2     | 4       | 33.3             | 3.2                          | 3.4     |
| 27067              | 2                    | 0                 | 12.5                           | 14   | 87.5     | 5     | 9       | 35.7             | 2.9                          | 2.8     |
| 27068              | 1                    | 0                 | 6.3                            | 15   | 93.8     | 7     | 8       | 46.7             | 3.0                          | 3.2     |
| 27069              | 2                    | 0                 | 11.8                           | 15   | 88.2     | 10    | 5       | 66.7             | 3.3                          | 3.3     |
| 27070              | 0                    | 0                 | 0.0                            | 16   | 100.0    | 15    | 1       | 93.8             | 3.4                          | 3.0     |
| 27071              | 0                    | 0                 | 0.0                            | 14   | 100.0    | 7     | 7       | 50.0             | 3.1                          | 2.9     |
| 27072              | 1                    | 0                 | 5.6                            | 17   | 94.4     | 9     | 8       | 52.9             | 2.8                          | 2.7     |
| 27073              | 0                    | 0                 | 0.0                            | 16   | 100.0    | 6     | 10      | 37.5             | 2.9                          | 2.9     |
| 27074              | 1                    | 0                 | 6.3                            | 15   | 93.8     | 5     | 10      | 33.3             | 3.6                          | 3.3     |
| 27075              | 1                    | 0                 | 6.7                            | 14   | 93.3     | 8     | 6       | 57.1             | 3.2                          | 3.1     |
| 27076              | 1                    | 0                 | 7.7                            | 12   | 92.3     | 10    | 2       | 83.3             | 3.1                          | 3.0     |
| 27077              | 0                    | 0                 | 0.0                            | 13   | 100.0    | 5     | 8       | 38.5             | 3.5                          | 3.2     |
| 27078              | 1                    | 0                 | 6.7                            | 14   | 93.3     | 6     | 8       | 42.9             | 3.3                          | 2.9     |
| 27079              | Not Pregnant         |                   |                                |      |          |       |         |                  |                              |         |
| Total              | 18                   | 0                 |                                | 313  |          | 165   | 148     |                  |                              |         |
| N                  | 23                   | 23                | 23                             | 23   | 23       | 23    | 23      | 23               | 23                           | 23      |
| Unadjusted Mean    | 0.8                  | 0.0               | 5.53                           | 13.6 | 94.48    | 7.2   | 6.4     | 52.29            | 3.23                         | 3.10    |
| Unadjusted S.D.    | 0.67                 | -                 | 4.804                          | 2.27 | 4.802    | 2.66  | 2.45    | 16.688           | 0.278                        | 0.240   |
| Covariance         |                      |                   |                                |      |          |       |         |                  |                              |         |
| Adjusted Mean      |                      |                   |                                |      |          |       |         |                  | 3.23                         | 3.10    |
| Covariance         |                      |                   |                                |      |          |       |         |                  |                              |         |
| Adjusted S.D.      |                      |                   |                                |      |          |       |         |                  | 0.092                        | 0.083   |

<sup>a</sup> Sex, percent males, and mean weight data include values for live fetuses only.

<sup>b</sup> Percent fetal loss includes resorptions as well as dead fetuses.

<sup>c</sup> Statistical analysis performed on covariance adjusted means.

Appendix 6 - Continued  
 Individual and Mean Litter Data<sup>a</sup>  
 Rat Teratology Study of T-3351  
 Group 3 - 5 mg/kg

| Maternal<br>Number | Total<br>Resorptions | Number of Fetuses |                                |      |          | Sex   |         | Percent<br>Males | Mean Weight (g) <sup>c</sup> |                    |
|--------------------|----------------------|-------------------|--------------------------------|------|----------|-------|---------|------------------|------------------------------|--------------------|
|                    |                      | Dead              | Fetal<br>Loss (%) <sup>b</sup> | Live | Live (%) | Males | Females |                  | Males                        | Females            |
| 27080              | 0                    | 0                 | 0.0                            | 16   | 100.0    | 8     | 8       | 50.0             | 3.7                          | 3.4                |
| 27081              | 0                    | 0                 | 0.0                            | 13   | 100.0    | 8     | 5       | 61.5             | 3.2                          | 2.9                |
| 27082              | 1                    | 0                 | 7.1                            | 13   | 92.9     | 8     | 5       | 61.5             | 3.2                          | 3.1                |
| 27083              | 2                    | 0                 | 14.3                           | 12   | 85.7     | 3     | 9       | 25.0             | 3.1                          | 2.8                |
| 27084              | Not Pregnant         |                   |                                |      |          |       |         |                  |                              |                    |
| 27085              | 0                    | 0                 | 0.0                            | 17   | 100.0    | 5     | 12      | 29.4             | 3.0                          | 2.9                |
| 27086              | 1                    | 0                 | 6.7                            | 14   | 93.3     | 7     | 7       | 50.0             | 3.1                          | 3.0                |
| 27087              | 0                    | 0                 | 0.0                            | 15   | 100.0    | 11    | 4       | 73.3             | 2.8                          | 2.8                |
| 27088              | 1                    | 0                 | 7.1                            | 13   | 92.9     | 6     | 7       | 46.2             | 3.4                          | 3.3                |
| 27089              | 1                    | 0                 | 7.7                            | 12   | 92.3     | 9     | 3       | 75.0             | 3.4                          | 3.3                |
| 27090              | 0                    | 0                 | 0.0                            | 12   | 100.0    | 8     | 4       | 66.7             | 3.0                          | 2.9                |
| 27091              | 0                    | 0                 | 0.0                            | 15   | 100.0    | 9     | 6       | 60.0             | 3.1                          | 2.9                |
| 27092              | 1                    | 0                 | 5.9                            | 16   | 94.1     | 12    | 4       | 75.0             | 3.2                          | 3.2                |
| 27093              | 1                    | 0                 | 7.1                            | 13   | 92.9     | 9     | 4       | 69.2             | 3.3                          | 2.9                |
| 27094              | 0                    | 0                 | 0.0                            | 13   | 100.0    | 7     | 6       | 53.8             | 3.2                          | 3.1                |
| 27095              | 1                    | 0                 | 5.9                            | 16   | 94.1     | 8     | 8       | 50.0             | 3.2                          | 3.1                |
| 27096              | 3                    | 0                 | 18.8                           | 13   | 81.3     | 6     | 7       | 46.2             | 3.2                          | 3.1                |
| 27097              | 2                    | 0                 | 13.3                           | 13   | 86.7     | 7     | 6       | 53.8             | 3.0                          | 3.0                |
| 27098              | 2                    | 0                 | 14.3                           | 12   | 85.7     | 6     | 6       | 50.0             | 3.0                          | 3.0                |
| 27099              | 0                    | 0                 | 0.0                            | 12   | 100.0    | 6     | 6       | 50.0             | 3.1                          | 3.1                |
| 27100              | 0                    | 0                 | 0.0                            | 16   | 100.0    | 10    | 6       | 62.5             | 1.5                          | 1.7                |
| 27101              | 1                    | 1                 | 13.3                           | 13   | 86.7     | 5     | 8       | 38.5             | 3.2                          | 3.0                |
| 27102              | 0                    | 0                 | 0.0                            | 14   | 100.0    | 6     | 8       | 42.9             | 3.1                          | 2.8                |
| 27103              | 0                    | 0                 | 0.0                            | 14   | 100.0    | 8     | 6       | 57.1             | 3.3                          | 3.1                |
| 27104              | Not Pregnant         |                   |                                |      |          |       |         |                  |                              |                    |
| Total              | 17                   | 1                 |                                | 317  |          | 172   | 145     |                  |                              |                    |
| N                  | 23                   | 23                | 23                             | 23   | 23       | 23    | 23      | 23               | 23                           | 23                 |
| Unadjusted Mean    | 0.7                  | 0.0               | 5.28                           | 13.8 | 94.72    | 7.5   | 6.3     | 54.24            | 3.10                         | 2.97               |
| Unadjusted S.D.    | 0.86                 | 0.21              | 6.028                          | 1.57 | 6.018    | 2.04  | 2.01    | 13.293           | 0.392                        | 0.322              |
| Covariance         |                      |                   |                                |      |          |       |         |                  |                              |                    |
| Adjusted Mean      |                      |                   |                                |      |          |       |         |                  | 3.10 <sup>S-</sup>           | 2.97 <sup>S-</sup> |
| Covariance         |                      |                   |                                |      |          |       |         |                  |                              |                    |
| Adjusted S.D.      |                      |                   |                                |      |          |       |         |                  | 0.092                        | 0.083              |

<sup>a</sup> Sex, percent males, and mean weight data include values for live fetuses only.

<sup>b</sup> Percent fetal loss includes resorptions as well as dead fetuses.

<sup>c</sup> Statistical analysis performed on covariance adjusted means.

Appendix 6 - Continued  
Individual and Mean Litter Data<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 4 - 10 mg/kg

| Maternal<br>Number | Total<br>Resorptions | Number of Fetuses |                                |      |          | Sex   |         | Percent<br>Males | Mean Weight (g) <sup>c</sup> |                    |
|--------------------|----------------------|-------------------|--------------------------------|------|----------|-------|---------|------------------|------------------------------|--------------------|
|                    |                      | Dead              | Fetal<br>Loss (%) <sup>b</sup> | Live | Live (%) | Males | Females |                  | Males                        | Females            |
| 27105              | 0                    | 0                 | 0.0                            | 15   | 100.0    | 10    | 5       | 66.7             | 3.1                          | 3.0                |
| 27106              | 1                    | 0                 | 9.1                            | 10   | 90.9     | 6     | 4       | 60.0             | 3.2                          | 3.2                |
| 27107              | 3                    | 0                 | 23.1                           | 10   | 76.9     | 4     | 6       | 40.0             | 3.1                          | 3.0                |
| 27108              | 1                    | 0                 | 6.3                            | 15   | 93.8     | 9     | 6       | 60.0             | 3.2                          | 3.2                |
| 27109              | 16                   | 1                 | 100.0                          | 0    | 0.0      |       |         |                  |                              |                    |
| 27110              | 0                    | 0                 | 0.0                            | 14   | 100.0    | 8     | 6       | 57.1             | 2.7                          | 2.5                |
| 27111              | 1                    | 0                 | 6.3                            | 15   | 93.8     | 7     | 8       | 46.7             | 3.2                          | 3.2                |
| 27112              | 1                    | 0                 | 7.7                            | 12   | 92.3     | 10    | 2       | 83.3             | 1.7                          | 1.7                |
| 27113              | 3                    | 6                 | 60.0                           | 6    | 40.0     | 4     | 2       | 66.7             | 1.9                          | 2.0                |
| 27114              | 2                    | 0                 | 13.3                           | 13   | 86.7     | 6     | 7       | 46.2             | 1.8                          | 1.7                |
| 27115              | 0                    | 0                 | 0.0                            | 15   | 100.0    | 9     | 6       | 60.0             | 3.3                          | 3.0                |
| 27116              | 1                    | 0                 | 8.3                            | 11   | 91.7     | 8     | 3       | 72.7             | 2.8                          | 2.6                |
| 27117              | 1                    | 2                 | 21.4                           | 11   | 78.6     | 8     | 3       | 72.7             | 1.6                          | 1.5                |
| 27118              | Not Pregnant         |                   |                                |      |          |       |         |                  |                              |                    |
| 27119              | 13                   | 0                 | 100.0                          | 0    | 0.0      |       |         |                  |                              |                    |
| 27120              | Found Dead           |                   |                                |      |          |       |         |                  |                              |                    |
| 27121              | 0                    | 0                 | 0.0                            | 15   | 100.0    | 9     | 6       | 60.0             | 3.1                          | 3.0                |
| 27122              | 3                    | 0                 | 20.0                           | 12   | 80.0     | 6     | 6       | 50.0             | 3.2                          | 3.4                |
| 27123              | 0                    | 0                 | 0.0                            | 15   | 100.0    | 10    | 5       | 66.7             | 3.2                          | 3.0                |
| 27124              | 1                    | 0                 | 6.3                            | 15   | 93.8     | 9     | 6       | 60.0             | 2.8                          | 2.9                |
| 27125              | 0                    | 0                 | 0.0                            | 13   | 100.0    | 7     | 6       | 53.8             | 1.8                          | 1.7                |
| 27126              | 1                    | 0                 | 6.7                            | 14   | 93.3     | 9     | 5       | 64.3             | 1.8                          | 1.7                |
| 27127              | Found Dead           |                   |                                |      |          |       |         |                  |                              |                    |
| 27128              | Not Pregnant         |                   |                                |      |          |       |         |                  |                              |                    |
| 27129              | Not Pregnant         |                   |                                |      |          |       |         |                  |                              |                    |
| Total              | 48                   | 9                 |                                | 231  |          | 139   | 92      |                  |                              |                    |
| N                  | 20                   | 20                | 20                             | 20   | 20       | 18    | 18      | 18               | 18                           | 18                 |
| Unadjusted Mean    | 2.4                  | 0.5               | 19.43                          | 11.6 | 80.59    | 7.7   | 5.1     | 60.38            | 2.64                         | 2.57               |
| Unadjusted S.D.    | 4.28                 | 1.39              | 30.777                         | 4.61 | 30.801   | 1.90  | 1.68    | 10.655           | 0.656                        | 0.660              |
| Covariance         |                      |                   |                                |      |          |       |         |                  | 2.635 <sup>-</sup>           | 2.595 <sup>-</sup> |
| Adjusted Mean      |                      |                   |                                |      |          |       |         |                  |                              |                    |
| Covariance         |                      |                   |                                |      |          |       |         |                  | 0.105                        | 0.097              |
| Adjusted S.D.      |                      |                   |                                |      |          |       |         |                  |                              |                    |

<sup>a</sup> Sex, percent males, and mean weight data include values for live fetuses only.

<sup>b</sup> Percent fetal loss includes resorptions as well as dead fetuses.

<sup>c</sup> Statistical analysis performed on covariance adjusted means.

Appendix 7  
Individual Visceral Findings in Fetuses  
Rat Teratology Study of T-3351  
Group 1 - 0 mg/kg

| Maternal<br>Number:                                        | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2  | 2    | 2    | 2    | 2    | 2    |
|------------------------------------------------------------|------|------|------|-------|------|------|------|----|------|------|------|------|------|
|                                                            | 7    | 7    | 7    | 7     | 7    | 7    | 7    | 7  | 7    | 7    | 7    | 7    | 7    |
|                                                            | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0  | 0    | 0    | 0    | 0    | 0    |
|                                                            | 3    | 3    | 3    | 3     | 3    | 3    | 3    | 3  | 3    | 3    | 4    | 4    | 4    |
|                                                            | 0    | 1    | 2    | 3     | 4    | 5    | 6    | 7  | 8    | 9    | 0    | 1    | 2    |
| Number of fetuses examined                                 | 5    | 6    | 5    | 4     | 5    | 6    | 5    | NP | 4    | 5    | 4    | 5    | 5    |
| Number of fetuses within normal limits                     | 5    | 6    | 5    | 3     | 5    | 6    | 5    |    | 4    | 5    | 4    | 5    | 5    |
| Number of fetuses with one or more visceral variants       | 0    | 0    | 0    | 1     | 0    | 0    | 0    |    | 0    | 0    | 0    | 0    | 0    |
| Percent of fetuses with one or more skeletal variants (%)  | 0.00 | 0.00 | 0.00 | 25.00 | 0.00 | 0.00 | 0.00 |    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Identification letter(s) of fetuses with:                  |      |      |      |       |      |      |      |    |      |      |      |      |      |
| Brain - cerebral hemisphere contained dark area            |      |      |      |       |      |      |      |    |      |      |      |      |      |
| Eye(s) - contained dark material                           |      |      |      |       |      |      |      |    |      |      |      |      |      |
| Liver - dark areas                                         |      |      |      |       |      |      |      |    |      |      |      |      |      |
| Kidney(s) - pelvis dilated                                 |      |      |      |       |      |      |      |    |      |      |      |      |      |
| Ureter(s) - distended                                      |      |      |      |       |      |      |      |    |      |      |      |      |      |
| - undulated                                                |      |      |      |       |      |      |      |    |      |      |      |      |      |
| Number of fetuses with one or more visceral anomalies      | 0    | 0    | 0    | 0     | 0    | 0    | 0    |    | 0    | 0    | 0    | 0    | 0    |
| Percent of fetuses with one or more visceral anomalies (%) | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 |    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Identification letter(s) of fetuses with:                  |      |      |      |       |      |      |      |    |      |      |      |      |      |
| Skin - edematous                                           |      |      |      |       |      |      |      |    |      |      |      |      |      |
| Palate - cleft                                             |      |      |      |       |      |      |      |    |      |      |      |      |      |
| Cryptorchism                                               |      |      |      |       |      |      |      |    |      |      |      |      |      |

NP - Not Pregnant..



Appendix 7 - Continued  
Individual Visceral Findings in Fetuses  
Rat Teratology Study of T-3351  
Group 1 - 0 mg/kg

|                                                            |      |       |       |      |       |      |      |      |      |      |      |      |
|------------------------------------------------------------|------|-------|-------|------|-------|------|------|------|------|------|------|------|
|                                                            | 2    | 2     | 2     | 2    | 2     | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
|                                                            | 7    | 7     | 7     | 7    | 7     | 7    | 7    | 7    | 7    | 7    | 7    | 7    |
|                                                            | 0    | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Maternal                                                   | 4    | 4     | 4     | 4    | 4     | 4    | 4    | 5    | 5    | 5    | 5    | 5    |
| Number:                                                    | 3    | 4     | 5     | 6    | 7     | 8    | 9    | 0    | 1    | 2    | 3    | 4    |
| Number of fetuses examined                                 | 2    | 5     | 4     | 5    | 4     | 5    | 6    | 5    | 4    | 5    | 5    | 6    |
| Number of fetuses within normal limits                     | 2    | 4     | 3     | 5    | 3     | 5    | 6    | 5    | 4    | 5    | 5    | 6    |
| Number of fetuses with one or more visceral variants       | 0    | 1     | 1     | 0    | 1     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Percent of fetuses with one or more skeletal variants (%)  | 0.00 | 20.00 | 25.00 | 0.00 | 25.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Identification letter(s) of fetuses with:                  |      |       |       |      |       |      |      |      |      |      |      |      |
| Brain - cerebral hemisphere contained dark area            |      |       |       |      |       |      |      |      |      |      |      |      |
| Eye(s) - contained dark material                           |      |       |       |      |       |      |      |      |      |      |      |      |
| Liver - dark areas                                         |      |       |       |      |       |      |      |      |      |      |      |      |
| Kidney(s) - pelvis dilated                                 |      |       |       |      |       |      |      |      |      |      |      |      |
| Ureter(s) - distended                                      |      |       |       |      |       |      |      |      |      |      |      |      |
| - undulated                                                | A    | J     |       |      | K     |      |      |      |      |      |      |      |
| Number of fetuses with one or more visceral anomalies      | 0    | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Percent of fetuses with one or more visceral anomalies (%) | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Identification letter(s) of fetuses with:                  |      |       |       |      |       |      |      |      |      |      |      |      |
| Skin - edematous                                           |      |       |       |      |       |      |      |      |      |      |      |      |
| Palate - cleft                                             |      |       |       |      |       |      |      |      |      |      |      |      |
| Cryptorchism                                               |      |       |       |      |       |      |      |      |      |      |      |      |

Appendix 7 - Continued  
Individual Visceral Findings in Fetuses  
Rat Teratology Study of T-3351  
Group 2 - 1 mg/kg

|                                                            |      |      |      |      |      |    |      |      |       |      |      |      |      |
|------------------------------------------------------------|------|------|------|------|------|----|------|------|-------|------|------|------|------|
|                                                            | 2    | 2    | 2    | 2    | 2    | 2  | 2    | 2    | 2     | 2    | 2    | 2    | 2    |
|                                                            | 7    | 7    | 7    | 7    | 7    | 7  | 7    | 7    | 7     | 7    | 7    | 7    | 7    |
|                                                            | 0    | 0    | 0    | 0    | 0    | 0  | 0    | 0    | 0     | 0    | 0    | 0    | 0    |
| Maternal                                                   | 5    | 5    | 5    | 5    | 5    | 6  | 6    | 6    | 6     | 6    | 6    | 6    | 6    |
| Number:                                                    | 5    | 6    | 7    | 8    | 9    | 0  | 1    | 2    | 3     | 4    | 5    | 6    | 7    |
| Number of fetuses examined                                 | 4    | 5    | 4    | 5    | 4    | NP | 4    | 8    | 4     | 5    | 6    | 2    | 5    |
| Number of fetuses within normal limits                     | 4    | 5    | 4    | 5    | 4    |    | 4    | 8    | 3     | 5    | 6    | 2    | 5    |
| Number of fetuses with one or more visceral variants       | 0    | 0    | 0    | 0    | 0    |    | 0    | 0    | 1     | 0    | 0    | 0    | 0    |
| Percent of fetuses with one or more skeletal variants (%)  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |    | 0.00 | 0.00 | 25.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Identification letter(s) of fetuses with:                  |      |      |      |      |      |    |      |      |       |      |      |      |      |
| Brain - cerebral hemisphere contained dark area            |      |      |      |      |      |    |      |      |       |      |      |      |      |
| Eye(s) - contained dark material                           |      |      |      |      |      |    |      |      |       |      |      |      |      |
| Liver - dark areas                                         |      |      |      |      |      |    |      |      |       |      |      |      |      |
| Kidney(s) - pelvis dilated                                 |      |      |      |      |      |    |      |      |       |      |      |      |      |
| Ureter(s) - distended                                      |      |      |      |      |      |    |      |      |       |      |      |      |      |
| - undulated                                                |      |      |      |      |      |    |      |      |       |      |      |      |      |
| Number of fetuses with one or more visceral anomalies      | 0    | 0    | 0    | 0    | 0    |    | 0    | 0    | 0     | 0    | 0    | 0    | 0    |
| Percent of fetuses with one or more visceral anomalies (%) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |    | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 |
| Identification letter(s) of fetuses with:                  |      |      |      |      |      |    |      |      |       |      |      |      |      |
| Skin - edematous                                           |      |      |      |      |      |    |      |      |       |      |      |      |      |
| Palate - cleft                                             |      |      |      |      |      |    |      |      |       |      |      |      |      |
| Cryptorchism                                               |      |      |      |      |      |    |      |      |       |      |      |      |      |

NP = Not Pregnant.

Appendix 7 - Continued  
 Individual Visceral Findings in Fetuses  
 Rat Teratology Study of T-3351  
 Group 2 - 1 mg/kg

|                                                            |      |      |       |      |       |      |       |       |       |       |      |    |
|------------------------------------------------------------|------|------|-------|------|-------|------|-------|-------|-------|-------|------|----|
|                                                            | 2    | 2    | 2     | 2    | 2     | 2    | 2     | 2     | 2     | 2     | 2    | 2  |
|                                                            | 7    | 7    | 7     | 7    | 7     | 7    | 7     | 7     | 7     | 7     | 7    | 7  |
|                                                            | 0    | 0    | 0     | 0    | 0     | 0    | 0     | 0     | 0     | 0     | 0    | 0  |
| Maternal                                                   | 6    | 6    | 7     | 7    | 7     | 7    | 7     | 7     | 7     | 7     | 7    | 7  |
| Number:                                                    | 8    | 9    | 0     | 1    | 2     | 3    | 4     | 5     | 6     | 7     | 8    | 9  |
| Number of fetuses examined                                 | 5    | 5    | 6     | 5    | 6     | 6    | 5     | 5     | 4     | 5     | 5    | NP |
| Number of fetuses within normal limits                     | 5    | 5    | 5     | 5    | 4     | 6    | 4     | 4     | 3     | 4     | 5    |    |
| Number of fetuses with one or more visceral variants       | 0    | 0    | 1     | 0    | 2     | 0    | 1     | 1     | 1     | 1     | 0    |    |
| Percent of fetuses with one or more skeletal variants (%)  | 0.00 | 0.00 | 16.67 | 0.00 | 33.33 | 0.00 | 20.00 | 20.00 | 25.00 | 20.00 | 0.00 |    |
| Identification letter(s) of fetuses with:                  |      |      |       |      |       |      |       |       |       |       |      |    |
| Brain - cerebral hemisphere contained dark area            |      |      |       |      |       |      |       |       |       |       |      |    |
| Eye(s) - contained dark material                           |      |      |       |      |       |      |       |       |       |       |      |    |
| Liver - dark areas                                         |      |      |       |      |       |      |       |       |       |       |      |    |
| Kidney(s) - pelvis dilated                                 |      |      |       |      |       |      |       |       |       |       |      |    |
| Ureter(s) - distended                                      |      |      |       |      |       |      |       |       |       |       |      |    |
| - undulated                                                |      |      |       |      |       |      |       |       |       |       |      |    |
|                                                            |      |      | A     |      | Q     |      | A     |       | A     | G     |      |    |
|                                                            |      |      |       |      | M     |      |       | A     | A     | G     |      |    |
| Number of fetuses with one or more visceral anomalies      | 0    | 0    | 0     | 0    | 1     | 0    | 0     | 0     | 0     | 0     | 0    |    |
| Percent of fetuses with one or more visceral anomalies (%) | 0.00 | 0.00 | 0.00  | 0.00 | 16.67 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 |    |
| Identification letter(s) of fetuses with:                  |      |      |       |      |       |      |       |       |       |       |      |    |
| Skin - edematous                                           |      |      |       |      |       |      |       |       |       |       |      |    |
| Palate - cleft                                             |      |      |       |      |       |      |       |       |       |       |      |    |
| Cryptorchism                                               |      |      |       |      |       |      |       |       |       |       |      |    |
|                                                            |      |      |       |      | M     |      |       |       |       |       |      |    |

NP = Not Pregnant.

Appendix 7 - Continued  
 Individual Visceral Findings in Fetuses  
 Rat Teratology Study of T-3351  
 Group 3 - 5 mg/kg

|                                                            |       |      |       |      |    |      |      |      |      |       |      |      |      |
|------------------------------------------------------------|-------|------|-------|------|----|------|------|------|------|-------|------|------|------|
|                                                            | 2     | 2    | 2     | 2    | 2  | 2    | 2    | 2    | 2    | 2     | 2    | 2    | 2    |
|                                                            | 7     | 7    | 7     | 7    | 7  | 7    | 7    | 7    | 7    | 7     | 7    | 7    | 7    |
|                                                            | 0     | 0    | 0     | 0    | 0  | 0    | 0    | 0    | 0    | 0     | 0    | 0    | 0    |
| Maternal                                                   | 8     | 8    | 8     | 8    | 8  | 8    | 8    | 8    | 8    | 8     | 9    | 9    | 9    |
| Number:                                                    | 0     | 1    | 2     | 3    | 4  | 5    | 6    | 7    | 8    | 9     | 0    | 1    | 2    |
| Number of fetuses examined                                 | 6     | 5    | 5     | 4    | NP | 6    | 5    | 5    | 5    | 4     | 4    | 5    | 6    |
| Number of fetuses within normal limits                     | 4     | 5    | 4     | 4    |    | 6    | 5    | 5    | 5    | 3     | 4    | 5    | 6    |
| Number of fetuses with one or more visceral variants       | 2     | 0    | 1     | 0    |    | 0    | 0    | 0    | 0    | 1     | 0    | 0    | 0    |
| Percent of fetuses with one or more skeletal variants (%)  | 33.33 | 0.00 | 20.00 | 0.00 |    | 0.00 | 0.00 | 0.00 | 0.00 | 25.00 | 0.00 | 0.00 | 0.00 |
| Identification letter(s) of fetuses with:                  |       |      |       |      |    |      |      |      |      |       |      |      |      |
| Brain - cerebral hemisphere contained dark area            |       |      |       |      |    |      |      |      |      |       |      |      |      |
| Eye(s) - contained dark material                           |       |      |       |      |    |      |      |      |      |       |      |      |      |
| Liver - dark areas                                         |       |      |       |      |    |      |      |      |      |       |      |      |      |
| Kidney(s) - pelvis dilated                                 | J     |      |       |      |    |      |      |      |      | A     |      |      |      |
| Ureter(s) - distended                                      | A     |      |       |      |    |      |      |      |      |       |      |      |      |
| - undulated                                                |       |      |       |      |    |      |      |      |      |       |      |      |      |
| Number of fetuses with one or more visceral anomalies      | 0     | 0    | 0     | 0    |    | 0    | 0    | 0    | 0    | 0     | 0    | 0    | 0    |
| Percent of fetuses with one or more visceral anomalies (%) | 0.00  | 0.00 | 0.00  | 0.00 |    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 |
| Identification letter(s) of fetuses with:                  |       |      |       |      |    |      |      |      |      |       |      |      |      |
| Skin - edematous                                           |       |      |       |      |    |      |      |      |      |       |      |      |      |
| Palate - cleft                                             |       |      |       |      |    |      |      |      |      |       |      |      |      |
| Cryptorchism                                               |       |      |       |      |    |      |      |      |      |       |      |      |      |

NP - Not Pregnant.

Appendix 7 - Continued  
Individual Visceral Findings in Fetuses  
Rat Teratology Study of T-3351  
Group 3 - 5 mg/kg

| Maternal<br>Number:                                        | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2     | 2    | 2    | 2     |
|------------------------------------------------------------|------|------|------|------|------|------|------|-------|------|------|-------|
|                                                            | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7     | 7    | 7    | 7     |
|                                                            | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1     | 1    | 1    | 1     |
|                                                            | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 0     | 0    | 0    | 0     |
|                                                            | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0     | 1    | 2    | 3     |
| Number of fetuses examined                                 | 5    | 5    | 6    | 5    | 5    | 4    | 4    | 6     | 5    | 5    | 5     |
| Number of fetuses within normal limits                     | 5    | 5    | 6    | 5    | 5    | 4    | 4    | 4     | 5    | 5    | 4     |
| Number of fetuses with one or more visceral variants       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0    | 0    | 1     |
| Percent of fetuses with one or more skeletal variants (%)  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 20.00 |
| Identification letter(s) of fetuses with:                  |      |      |      |      |      |      |      |       |      |      |       |
| Brain - cerebral hemisphere contained dark area            |      |      |      |      |      |      |      |       |      |      |       |
| Eye(s) - contained dark material                           |      |      |      |      |      |      |      |       |      |      |       |
| Liver - dark areas                                         |      |      |      |      |      |      |      |       |      |      |       |
| Kidney(s) - pelvis dilated                                 |      |      |      |      |      |      |      |       |      |      |       |
| Ureter(s) - distended                                      |      |      |      |      |      |      |      |       |      |      |       |
| - undulated                                                |      |      |      |      |      |      |      |       |      |      |       |
| Number of fetuses with one or more visceral anomalies      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2     | 0    | 0    | 0     |
| Percent of fetuses with one or more visceral anomalies (%) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.33 | 0.00 | 0.00 | 0.00  |
| Identification letter(s) of fetuses with:                  |      |      |      |      |      |      |      |       |      |      |       |
| Skin - edematous                                           |      |      |      |      |      |      |      |       |      |      |       |
| Palate - cleft                                             |      |      |      |      |      |      |      |       |      |      |       |
| Cryptorchism                                               |      |      |      |      |      |      |      |       |      |      |       |

NP - Not Pregnant.

Appendix 7 - Continued  
Individual Visceral Findings in Fetuses  
Rat Teratology Study of T-3351  
Group 4 - 10 mg/kg

|                                                            |       |      |      |      |                |      |      |                |                |                |      |                |                |
|------------------------------------------------------------|-------|------|------|------|----------------|------|------|----------------|----------------|----------------|------|----------------|----------------|
|                                                            | 2     | 2    | 2    | 2    | 2              | 2    | 2    | 2              | 2              | 2              | 2    | 2              | 2              |
|                                                            | 7     | 7    | 7    | 7    | 7              | 7    | 7    | 7              | 7              | 7              | 7    | 7              | 7              |
|                                                            | 1     | 1    | 1    | 1    | 1              | 1    | 1    | 1              | 1              | 1              | 1    | 1              | 1              |
| Maternal                                                   | 0     | 0    | 0    | 0    | 0              | 1    | 1    | 1              | 1              | 1              | 1    | 1              | 1              |
| Number:                                                    | 5     | 6    | 7    | 8    | 9              | 0    | 1    | 2              | 3              | 4              | 5    | 6              | 7              |
| Number of fetuses examined                                 | 5     | 4    | 4    | 5    | 0 <sup>a</sup> | 5    | 5    | 4 <sup>b</sup> | 2 <sup>c</sup> | 5 <sup>d</sup> | 5    | 4 <sup>e</sup> | 4 <sup>f</sup> |
| Number of fetuses within normal limits                     | 4     | 4    | 4    | 5    |                | 5    | 5    | 3              | 0              | 0              | 5    | 4              | 0              |
| Number of fetuses with one or more visceral variants       | 1     | 0    | 0    | 0    |                | 0    | 0    | 0              | 0              | 0              | 0    | 0              | 0              |
| Percent of fetuses with one or more skeletal variants (%)  | 20.00 | 0.00 | 0.00 | 0.00 |                | 0.00 | 0.00 | 0.00           | 0.00           | 0.00           | 0.00 | 0.00           | 0.00           |
| Identification letter(s) of fetuses with:                  |       |      |      |      |                |      |      |                |                |                |      |                |                |
| Brain - cerebral hemisphere contained dark area            |       |      |      |      |                |      |      |                |                |                |      |                |                |
| Eye(s) - contained dark material                           |       |      |      |      |                |      |      |                |                |                |      |                |                |
| Liver - dark areas                                         |       |      |      |      |                |      |      |                |                |                |      |                |                |
| Kidney(s) - pelvis dilated                                 |       |      |      |      |                |      |      |                |                |                |      |                |                |
| Ureter(s) - distended                                      |       |      |      |      |                |      |      |                |                |                |      |                |                |
| - undulated                                                |       |      |      |      |                |      |      |                |                |                |      |                |                |
| Number of fetuses with one or more visceral anomalies      | 0     | 0    | 0    | 0    |                | 0    | 0    | 1              | 2              | 5              | 0    | 0              | 4              |
| Percent of fetuses with one or more visceral anomalies (%) | 0.00  | 0.00 | 0.00 | 0.00 |                | 0.00 | 0.00 | 25.00          | 100.00         | 100.00         | 0.00 | 0.00           | 100.00         |
| Identification letter(s) of fetuses with:                  |       |      |      |      |                |      |      |                |                |                |      |                |                |
| Skin - edematous                                           |       |      |      |      |                |      |      |                |                |                |      |                |                |
| Palate - cleft                                             |       |      |      |      |                |      |      |                |                |                |      |                |                |
| Cryptorchism                                               |       |      |      |      |                |      |      |                |                |                |      |                |                |
|                                                            |       |      |      |      |                |      |      | A              | BE             | ADGJN          |      | AEJH           |                |
|                                                            |       |      |      |      |                |      |      |                | BE             | JN             |      | AEJ            |                |
|                                                            |       |      |      |      |                |      |      |                |                |                |      | AEM            |                |

<sup>a</sup> All fetuses resorbed and/or dead.

<sup>b</sup> Fetus E was noted to have cleft palate during external examination.

<sup>c</sup> All fetuses were noted to have edematous skin during external examination. Fetuses B and E were confirmed at visceral examination. Fetuses C and E were noted to have cleft palate during external examination. Fetus E was confirmed at visceral examination.

<sup>d</sup> Fetuses H and N were noted to have edematous skin during external examination. Fetus N was confirmed at visceral examination. Fetuses H and I were noted to have cleft palate during external examination.

<sup>e</sup> Fetus E was noted to have cleft palate during external examination.

<sup>f</sup> All fetuses were noted to have edematous skin during external examination. Fetuses A, E, J, and N were confirmed at visceral examination. Fetuses A, J, and L were noted to have cleft palate during external examination. Fetuses A and J were confirmed at visceral examination.

Appendix 7 - Continued  
 Individual Visceral Findings in Fetuses  
 Rat Teratology Study of T-3351  
 Group 4 - 10 mg/kg

|          |   |   |   |   |   |   |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|
|          | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|          | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|          | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Maternal | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Number:  | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Number of fetuses examined

NP      0<sup>a</sup>      FD      5      4      5      5      5<sup>b</sup>      5      FD      NP      NP

Number of fetuses within normal limits

4      3      5      5      0      0      0      0      0      0      0      0

Number of fetuses with one or more visceral variants

0      0      0      0      0      0      0      0      0      0      0      0

Percent of fetuses with one or more skeletal variants (%)

0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

Identification letter(s) of fetuses with:

Brain - cerebral hemisphere contained dark area

Eye(s) - contained dark material

Liver - dark areas

Kidney(s) - pelvis dilated

Ureter(s) - distended

- undulated

Number of fetuses with one or more visceral anomalies

1      1      0      0      5      5

Percent of fetuses with one or more visceral anomalies (%)

20.00      25.00      0.00      0.00      100.00      100.00

Identification letter(s) of fetuses with:

Skin - edematous

Palate - cleft

Cryptorchism

M      E      ADGJM      BEHKN  
 DJM      EHN  
 G      BHK

NP = Not Pregnant.

FD = Found Dead.

<sup>a</sup> All fetuses resorbed and/or dead.

<sup>b</sup> All fetuses were noted to have edematous skin during external examination. Fetuses A, D, G, J, and M were confirmed at visceral examination. Fetuses B, F, J, and L were noted to have cleft palate during external examination. Fetus J was confirmed at visceral examination.

Appendix 8  
Individual Skeletal Findings in Fetuses<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 1 - 0 mg/kg

| Maternal<br>Number:                                       | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2  | 2     | 2    | 2      | 2     | 2     |
|-----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|----|-------|------|--------|-------|-------|
|                                                           | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7  | 7     | 7    | 7      | 7     | 7     |
|                                                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0  | 0     | 0    | 0      | 0     | 0     |
|                                                           | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3  | 3     | 3    | 4      | 4     | 4     |
|                                                           | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7  | 8     | 9    | 0      | 1     | 2     |
| Number of fetuses examined                                | 10    | 10    | 9     | 8     | 9     | 11    | 9     | NP | 8     | 8    | 8      | 10    | 9     |
| Number of fetuses within normal limits                    | 5     | 6     | 6     | 7     | 4     | 8     | 7     |    | 5     | 8    | 0      | 7     | 6     |
| Number of fetuses with one or more skeletal variants      | 5     | 4     | 3     | 1     | 5     | 3     | 2     |    | 3     | 0    | 8      | 3     | 3     |
| Percent of fetuses with one or more skeletal variants (%) | 50.00 | 40.00 | 33.33 | 12.50 | 55.56 | 27.27 | 22.22 |    | 37.50 | 0.00 | 100.00 | 30.00 | 33.33 |

Identification letter(s) of fetuses with:

Lagging Ossification

Skull - incomplete closure (<75%)

- interparietal ossification incomplete/nonossified

- parietals ossification irregular

- supraoccipital ossification incomplete/nonossified

- supraoccipital nonfused

- hyoid ossification incomplete/nonossified

Pectoral girdle - scapula ossification incomplete

Rib cage - sternebrae bipartite

- sternebrae 1 and 2 fused

- sternebrae <3 ossified

- ribs <13 ossified<sup>b</sup>

- ribs >13 ossified (cervical region)

- ribs 13th pair small<sup>b</sup>

- ribs ossification irregular

Vertebral column - sacral arches nonossified

- thoracic centra ossification incomplete/  
nonossified

- thoracic centra nonfused

- caudals <3 ossified

Pelvic girdle - pubis ossification incomplete/  
nonossified

- ischium nonossified

Forelimbs - <3 ossified

Hindlimbs - <4 ossified

Bone Alignment

Ribs - angulated

Sternebrae - checkered

NP = Not Pregnant.

<sup>a</sup> There were no skeletal anomalies noted in any fetuses.

<sup>b</sup> Possible preparation damage at time of evisceration.



Appendix 8 - Continued  
 Individual Skeletal Findings in Fetuses<sup>a</sup>  
 Rat Teratology Study of T-3351  
 Group 1 - 0 mg/kg

|          |   |   |   |   |   |   |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|
|          | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|          | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maternal | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| Number:  | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

|                                                           |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Number of fetuses examined                                | 3     | 10    | 6     | 8     | 7     | 9     | 11    | 9     | 7     | 10    | 10    | 11    |
| Number of fetuses within normal limits                    | 1     | 8     | 5     | 7     | 3     | 5     | 7     | 8     | 6     | 9     | 5     | 1     |
| Number of fetuses with one or more skeletal variants      | 2     | 2     | 1     | 1     | 4     | 4     | 4     | 1     | 1     | 1     | 5     | 10    |
| Percent of fetuses with one or more skeletal variants (%) | 66.67 | 20.00 | 16.67 | 12.50 | 57.14 | 44.44 | 36.36 | 11.11 | 14.29 | 10.00 | 50.00 | 90.91 |
| Identification letter(s) of fetuses with:                 |       |       |       |       |       |       |       |       |       |       |       |       |

Lagging Ossification

|                                                               |    |   |   |   |   |      |     |   |   |   |     |               |
|---------------------------------------------------------------|----|---|---|---|---|------|-----|---|---|---|-----|---------------|
| Skull - incomplete closure (<75%)                             | D  |   |   |   |   |      | R   |   |   |   |     | E             |
| - interparietal ossification incomplete/nonossified           | DE | H | C | L | F | IL   | B   |   |   |   | EHI | BCEHIK<br>LNQ |
| - parietals ossification irregular                            |    |   |   |   |   |      |     |   |   |   |     | E             |
| - supraoccipital ossification incomplete/nonossified          | D  | J |   |   | F | I    | ILR |   |   |   | EI  | BFHIKL<br>Q   |
| - supraoccipital nonfused                                     |    |   |   |   |   |      |     |   |   |   |     | E             |
| - hyoid ossification incomplete/nonossified                   |    |   |   |   |   |      |     |   |   |   | EI  | BEFHN         |
| Pectoral girdle - scapula ossification incomplete             |    |   |   |   |   |      |     |   |   |   |     |               |
| Rib cage - sternbrae bipartite                                |    |   |   |   |   |      |     |   |   |   |     |               |
| - sternbrae 1 and 2 fused                                     |    |   |   |   |   |      |     |   |   |   |     |               |
| - sternbrae <3 ossified                                       |    |   |   |   |   |      | R   |   |   |   |     | HI            |
| - ribs <13 ossified <sup>b</sup>                              |    |   |   |   |   |      |     |   |   |   |     |               |
| - ribs >13 ossified (cervical region)                         |    |   |   |   |   |      |     |   |   |   |     |               |
| - ribs 13th pair small <sup>b</sup>                           |    |   |   |   |   |      |     |   |   |   |     |               |
| - ribs ossification irregular                                 |    |   |   |   |   |      |     |   |   |   |     | E             |
| Vertebral column - sacral arches nonossified                  |    |   |   |   |   |      |     |   |   |   |     |               |
| - thoracic centra ossification incomplete/<br>nonossified     |    |   |   |   |   | BCFL | GH  | N | J |   | FIK |               |
| - thoracic centra nonfused                                    |    |   |   |   |   |      |     |   |   | F |     |               |
| - caudals <3 ossified                                         | D  |   |   |   |   |      |     | R |   |   | H   | HI            |
| Pelvic girdle - pubis ossification incomplete/<br>nonossified |    | J |   |   |   |      |     | R |   |   |     | HIL           |
| - ischium nonossified                                         |    |   |   |   |   |      |     |   |   |   |     |               |
| Forelimbs - <3 ossified                                       |    |   |   |   |   |      |     |   |   |   |     |               |
| Hindlimbs - <4 ossified                                       |    |   |   |   |   |      |     | R |   |   |     |               |

Bone Alignment

Ribs - angulated

Sternbrae - checkered

<sup>a</sup> There were no skeletal anomalies noted in any fetuses.<sup>b</sup> Possible preparation damage at time of evisceration.

Appendix 8 - Continued  
 Individual Skeletal Findings in Fetuses<sup>a</sup>  
 Rat Teratology Study of T-3351  
 Group 2 - 1 mg/kg

| Maternal Number:                                          | 2     | 2     | 2     | 2     | 2      | 2  | 2     | 2     | 2      | 2     | 2     | 2     | 2     |
|-----------------------------------------------------------|-------|-------|-------|-------|--------|----|-------|-------|--------|-------|-------|-------|-------|
|                                                           | 7     | 7     | 7     | 7     | 7      | 7  | 7     | 7     | 7      | 7     | 7     | 7     | 7     |
|                                                           | 0     | 0     | 0     | 0     | 0      | 0  | 0     | 0     | 0      | 0     | 0     | 0     | 0     |
|                                                           | 5     | 5     | 5     | 5     | 5      | 6  | 6     | 6     | 6      | 6     | 6     | 6     | 6     |
|                                                           | 5     | 6     | 7     | 8     | 9      | 0  | 1     | 2     | 3      | 4     | 5     | 6     | 7     |
| Number of fetuses examined                                | 8     | 10    | 9     | 9     | 8      | NP | 7     | 5     | 8      | 9     | 10    | 4     | 9     |
| Number of fetuses within normal limits                    | 6     | 9     | 7     | 5     | 1      |    | 2     | 4     | 0      | 6     | 5     | 1     | 5     |
| Number of fetuses with one or more skeletal variants      | 2     | 1     | 2     | 4     | 7      |    | 5     | 1     | 8      | 3     | 5     | 3     | 4     |
| Percent of fetuses with one or more skeletal variants (%) | 25.00 | 10.00 | 22.22 | 44.44 | 87.50  |    | 71.43 | 20.00 | 100.00 | 33.33 | 50.00 | 75.00 | 44.44 |
| Identification letter(s) of fetuses with:                 |       |       |       |       |        |    |       |       |        |       |       |       |       |
| <u>Lagging Ossification</u>                               |       |       |       |       |        |    |       |       |        |       |       |       |       |
| Skull - incomplete closure (<75%)                         |       |       |       |       |        |    |       |       |        |       |       |       |       |
| - interparietal ossification incomplete/nonossified       |       | P     |       |       | B      |    |       |       | E      |       | BFNO  |       | IP    |
| - parietals ossification irregular                        |       |       |       |       | BEGHJK |    |       |       | CEHLM  | EFK   |       |       | P     |
| - supraoccipital ossification incomplete/nonossified      |       | P     |       |       | BEGJK  |    |       |       | CE     |       |       |       | I     |
| - supraoccipital nonfused                                 |       |       |       |       | BGHJ   |    |       |       | BCEFH  |       | B     |       | P     |
| - hyoid ossification incomplete/nonossified               | M     | P     | I     |       | BEGHJK |    |       |       | BCEFHI |       | BF    |       | I     |
|                                                           |       |       |       |       | M      |    |       |       | M      |       |       |       |       |
| Pectoral girdle - scapula ossification incomplete         |       |       |       |       |        |    |       |       |        |       |       |       |       |
| Rib cage - sternebrae bipartite                           | M     |       |       |       |        |    |       |       |        |       |       |       |       |
| - sternebrae 1 and 2 fused                                |       |       |       |       |        |    |       |       |        |       |       |       |       |
| - sternebrae <3 ossified                                  |       |       |       |       |        |    |       |       |        |       |       |       |       |
| - ribs <13 ossified <sup>b</sup>                          |       |       |       |       |        |    |       |       |        |       |       |       |       |
| - ribs >13 ossified (cervical region)                     |       |       |       |       |        |    |       |       |        |       |       |       |       |
| - ribs 13th pair small <sup>b</sup>                       |       |       |       |       |        |    |       |       |        |       |       |       |       |
| - ribs ossification irregular                             |       |       |       |       |        |    |       |       |        |       |       |       |       |
| Vertebral column - sacral arches nonossified              |       |       |       |       |        |    |       |       | CE     |       |       |       |       |
| - thoracic centra ossification incomplete/nonossified     | I     |       | F     | BFGO  | K      |    |       |       | L      |       | H     | DF    | I     |
| - thoracic centra nonfused                                |       |       |       |       |        |    | BCEHK |       | C      |       | O     | G     | M     |
| - caudals <3 ossified                                     |       |       |       |       |        |    |       |       |        |       |       |       |       |
| Pelvic girdle - pubis ossification incomplete/nonossified |       |       |       |       |        |    |       |       |        |       |       |       |       |
| - ischium nonossified                                     |       |       |       |       |        |    |       |       |        |       |       |       |       |
| Forelimbs - <3 ossified                                   |       |       |       |       |        |    |       |       |        |       |       |       |       |
| Hindlimbs - <4 ossified                                   |       |       |       |       |        |    |       |       |        |       |       |       |       |
| <u>Bone Alignment</u>                                     |       |       |       |       |        |    |       |       |        |       |       |       |       |
| Ribs - angulated                                          |       |       |       |       |        |    |       |       |        |       |       |       |       |
| Sternebrae - checkered                                    |       |       |       |       |        |    |       |       |        |       |       |       |       |

NP = Not Pregnant.

<sup>a</sup> There were no skeletal anomalies noted in any fetuses.

<sup>b</sup> Possible preparation damage at time of evisceration.

Appendix 8 - Continued  
 Individual Skeletal Findings in Fetuses<sup>a</sup>  
 Rat Teratology Study of T-3351  
 Group 2 - 1 mg/kg

| Maternal<br>Number:                                       | 2     | 2     | 2     | 2     | 2      | 2     | 2     | 2      | 2     | 2     | 2     |
|-----------------------------------------------------------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|
|                                                           | 7     | 7     | 7     | 7     | 7      | 7     | 7     | 7      | 7     | 7     | 7     |
|                                                           | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0      | 0     | 0     | 0     |
|                                                           | 6     | 6     | 7     | 7     | 7      | 7     | 7     | 7      | 7     | 7     | 7     |
|                                                           | 8     | 9     | 0     | 1     | 2      | 3     | 4     | 5      | 6     | 7     | 8     |
| Number of fetuses examined                                | 10    | 10    | 10    | 9     | 11     | 10    | 10    | 9      | 8     | 8     | 9     |
| Number of fetuses within normal limits                    | 8     | 9     | 7     | 7     | 0      | 8     | 8     | 0      | 3     | 6     | 6     |
| Number of fetuses with one or more skeletal variants      | 2     | 1     | 3     | 2     | 11     | 2     | 2     | 9      | 5     | 2     | 3     |
| Percent of fetuses with one or more skeletal variants (%) | 20.00 | 10.00 | 30.00 | 22.22 | 100.00 | 20.00 | 20.00 | 100.00 | 62.50 | 25.00 | 33.33 |
| Identification letter(s) of fetuses with:                 |       |       |       |       |        |       |       |        |       |       |       |
| <u>Lagging Ossification</u>                               |       |       |       |       |        |       |       |        |       |       |       |
| Skull - Incomplete closure (<75%)                         |       |       |       |       |        |       |       |        |       |       |       |
| - Interparietal ossification incomplete/nonossified       |       |       |       | H     |        |       |       |        |       |       |       |
| - parietals ossification irregular                        |       |       |       |       |        |       |       |        |       |       |       |
| - supraoccipital ossification incomplete/nonossified      |       |       |       | H     |        |       |       |        |       |       |       |
| - supraoccipital nonfused                                 |       |       |       |       |        |       |       |        |       |       |       |
| - hyoid ossification incomplete/nonossified               | I     |       | BHI   | H     |        |       |       |        |       |       |       |
| Pectoral girdle - scapula ossification incomplete         |       |       |       |       |        |       |       |        |       |       |       |
| Rib cage - sternebrae bipartite                           |       |       |       |       |        |       |       |        |       |       |       |
| - sternebrae 1 and 2 fused                                |       |       |       |       |        |       |       |        |       |       |       |
| - sternebrae <3 ossified                                  |       |       |       |       |        |       |       |        |       |       |       |
| - ribs <13 ossified <sup>b</sup>                          |       |       |       |       |        |       |       |        |       |       |       |
| - ribs >13 ossified (cervical region)                     |       |       |       |       |        |       |       |        |       |       |       |
| - ribs 13th pair small <sup>b</sup>                       |       |       |       |       |        |       |       |        |       |       |       |
| - ribs ossification irregular                             |       |       |       |       |        |       |       |        |       |       |       |
| Vertebral column - sacral arches nonossified              |       |       |       |       |        |       |       |        |       |       |       |
| - thoracic centra ossification incomplete/nonossified     | O     | C     |       | L     | H      |       | F     | H      | B     |       | I     |
| - thoracic centra nonfused                                | I     |       |       |       |        |       |       | EJ     |       |       |       |
| - caudals <3 ossified                                     |       |       |       |       | HR     | F     |       | O      |       |       |       |
| Pelvic girdle - pubis ossification incomplete/nonossified |       |       |       |       |        |       |       |        |       |       |       |
| - ischium nonossified                                     |       |       |       |       |        |       |       |        |       |       |       |
| Forelimbs - <3 ossified                                   |       |       |       |       |        |       |       |        |       |       |       |
| Hindlimbs - <4 ossified                                   |       |       |       |       |        |       |       |        |       |       |       |
| <u>Bone Alignment</u>                                     |       |       |       |       |        |       |       |        |       |       |       |
| Ribs - angulated                                          |       |       |       |       |        |       |       |        |       |       |       |
| Sternebrae - checkered                                    |       |       |       |       |        |       |       |        |       |       |       |

NP = Not Pregnant.

<sup>a</sup> There were no skeletal anomalies noted in any fetuses.

<sup>b</sup> Possible preparation damage at time of evisceration.

Appendix B - Continued  
Individual Skeletal Findings in Fetuses<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 3 - 5 mg/kg

154-160

| Maternal<br>Number:                                       | 2     | 2     | 2     | 2     | 2  | 2     | 2     | 2     | 2    | 2     | 2     | 2     | 2     |
|-----------------------------------------------------------|-------|-------|-------|-------|----|-------|-------|-------|------|-------|-------|-------|-------|
|                                                           | 7     | 7     | 7     | 7     | 7  | 7     | 7     | 7     | 7    | 7     | 7     | 7     | 7     |
|                                                           | 0     | 0     | 0     | 0     | 0  | 0     | 0     | 0     | 0    | 0     | 0     | 0     | 0     |
|                                                           | 8     | 8     | 8     | 8     | 8  | 8     | 8     | 8     | 8    | 8     | 9     | 9     | 9     |
|                                                           | 0     | 1     | 2     | 3     | 4  | 5     | 6     | 7     | 8    | 9     | 0     | 1     | 2     |
| Number of fetuses examined                                | 10    | 8     | 8     | 8     | NP | 11    | 9     | 10    | 8    | 8     | 8     | 10    | 10    |
| Number of fetuses within normal limits                    | 8     | 5     | 7     | 7     |    | 8     | 7     | 1     | 8    | 7     | 6     | 6     | 6     |
| Number of fetuses with one or more skeletal variants      | 2     | 3     | 1     | 1     |    | 3     | 2     | 9     | 0    | 1     | 2     | 4     | 4     |
| Percent of fetuses with one or more skeletal variants (%) | 20.00 | 37.50 | 12.50 | 12.50 |    | 27.27 | 22.22 | 90.00 | 0.00 | 12.50 | 25.00 | 40.00 | 40.00 |

Lagging Ossification:

Skull - incomplete closure (<75%)

- interparietal ossification incomplete/nonossified
- parietals ossification irregular
- supraoccipital ossification incomplete/nonossified
- supraoccipital nonfused
- hyoid ossification incomplete/nonossified

B H BE B EL O O  
BC JO

Pectoral girdle - scapula ossification incomplete

- Rib cage - sternbrae bipartite
- sternbrae 1 and 2 fused
- sternbrae <3 ossified
- ribs <13 ossified<sup>b</sup>
- ribs >13 ossified (cervical region)
- ribs 13th pair small<sup>b</sup>
- ribs ossification irregular

B H F I BEFHLO B

Vertebral column - sacral arches nonossified

- thoracic centra ossification incomplete/nonossified
- thoracic centra nonfused
- caudals <3 ossified

I CH D HK INO BCF C

Pelvic girdle - pubis ossification incomplete/nonossified

- ischium nonossified

Forelimbs - <3 ossified

Hindlimbs - <4 ossified

B

Bone Alignment

- Ribs - angulated
- Sternbrae - checkered

NP = Not Pregnant.

<sup>a</sup> There were no skeletal anomalies noted in any fetuses.

<sup>b</sup> Possible preparation damage at time of evisceration.

Appendix B - Continued  
 Individual Skeletal Findings in Fetuses<sup>a</sup>  
 Rat Teratology Study of T-3351  
 Group 3 - 5 mg/kg

|                                                           |       |      |       |       |       |      |       |        |      |       |       |    |
|-----------------------------------------------------------|-------|------|-------|-------|-------|------|-------|--------|------|-------|-------|----|
|                                                           | 2     | 2    | 2     | 2     | 2     | 2    | 2     | 2      | 2    | 2     | 2     | 2  |
|                                                           | 7     | 7    | 7     | 7     | 7     | 7    | 7     | 7      | 7    | 7     | 7     | 7  |
|                                                           | 0     | 0    | 0     | 0     | 0     | 0    | 0     | 1      | 1    | 1     | 1     | 1  |
| Maternal                                                  | 9     | 9    | 9     | 9     | 9     | 9    | 9     | 0      | 0    | 0     | 0     | 0  |
| Number:                                                   | 3     | 4    | 5     | 6     | 7     | 8    | 9     | 0      | 1    | 2     | 3     | 4  |
| Number of fetuses examined                                | 8     | 8    | 10    | 8     | 8     | 8    | 8     | 10     | 8    | 9     | 9     | NP |
| Number of fetuses within normal limits                    | 3     | 8    | 7     | 3     | 5     | 8    | 4     | 0      | 8    | 7     | 6     |    |
| Number of fetuses with one or more skeletal variants      | 5     | 0    | 3     | 5     | 3     | 0    | 4     | 10     | 0    | 2     | 3     |    |
| Percent of fetuses with one or more skeletal variants (%) | 62.50 | 0.00 | 30.00 | 62.50 | 37.50 | 0.00 | 50.00 | 100.00 | 0.00 | 22.22 | 33.33 |    |
| Identification letter(s) of fetuses with:                 |       |      |       |       |       |      |       |        |      |       |       |    |

Lagging Ossification

Skull - incomplete closure (&lt;75%)

- interparietal ossification incomplete/nonossified HK
- parietals ossification irregular FI
- supraoccipital ossification incomplete/nonossified CEI

BCEFHI  
KLNO  
O

N

EFN

- supraoccipital nonfused
- hyoid ossification incomplete/nonossified D

HL

LN

F

Pectoral girdle - scapula ossification incomplete

- Rib cage - sternbrae bipartite JN
- sternbrae 1 and 2 fused
- sternbrae <3 ossified

BEFIK

BLN

- ribs <13 ossified<sup>b</sup>
- ribs >13 ossified (cervical region)
- ribs 13th pair small<sup>b</sup>
- ribs ossification irregular DG

K

- Vertebral column - sacral arches nonossified
- thoracic centra ossification incomplete/nonossified
- thoracic centra nonfused N
- caudals <3 ossified FI

LN

EK

ILN

L

N

- Pelvic girdle - pubis ossification incomplete/nonossified
- ischium nonossified

BCEFHI  
KLNO

N

- Forelimbs - <3 ossified
- Hindlimbs - <4 ossified

BILN  
LN  
LN  
BEIKLBone Alignment

- Ribs - angulated IK
- Sternebrae - checked EI

NP = Not Pregnant.

<sup>a</sup> There were no skeletal anomalies noted in any fetuses.<sup>b</sup> Possible preparation damage at time of evisceration.

Number of fetuses examined  
Number of fetuses within normal limits  
Number of fetuses with one or more skeletal variants  
Percent of fetuses with one or more skeletal variants (%)  
Identification letter(s) of fetuses with:

Skull - Incomplete closure (<75%)

|   |             |        |   |        |
|---|-------------|--------|---|--------|
| B | BCEFHI COFO | BCEFHI | L | BCF6KL |
|   | KL          | LM     |   | N      |
| B | CE COFO     | EFHI   |   | BCF6KL |
|   |             |        |   | N      |

|    |      |     |             |   |   |
|----|------|-----|-------------|---|---|
| CH | BFHK | COO | BCEFI<br>LM | L | N |
|----|------|-----|-------------|---|---|

CEIL F BCFGKL

DESM H L CGKLN

|        |     |       |             |       |
|--------|-----|-------|-------------|-------|
| CFHILN | CFI | BEFHK | E           | CGXLN |
| 0      |     |       | BCFHIK CDO  | BFGKL |
|        |     |       | BCEFHI BFIN | E     |
|        |     |       | L           |       |
|        |     |       | CH          | CGXN  |

|   |    |        |      |      |  |        |
|---|----|--------|------|------|--|--------|
| K | K  | CH     | FO   | BI   |  |        |
|   | BH | K      |      |      |  | C      |
|   |    | BCEHIK | COFO | CEFI |  |        |
|   |    |        |      |      |  | BCFGKL |
|   |    |        |      |      |  | N      |

CH I . CFGKLN

|             |      |        |
|-------------|------|--------|
| C           |      | CN     |
| BCEFHK CDFO | CEHI | BCFGKL |
| L           |      | N      |

Ribs - angulated  
Sternebrae - checkered

- a There were no skeletal anomalies noted in any fetuses.
- b Possible preparation damage at time of evisceration.
- c All fetuses resorbed and/or dead.

Appendix 8 - Continued  
Individual Skeletal Findings in Fetuses<sup>a</sup>  
Rat Teratology Study of T-3351  
Group 4 - 10 mg/kg

|                                                           |    |                |    |       |       |      |       |        |        |    |    |    |
|-----------------------------------------------------------|----|----------------|----|-------|-------|------|-------|--------|--------|----|----|----|
|                                                           | 2  | 2              | 2  | 2     | 2     | 2    | 2     | 2      | 2      | 2  | 2  | 2  |
|                                                           | 7  | 7              | 7  | 7     | 7     | 7    | 7     | 7      | 7      | 7  | 7  | 7  |
|                                                           | 1  | 1              | 1  | 1     | 1     | 1    | 1     | 1      | 1      | 1  | 1  | 1  |
| Maternal                                                  | 1  | 1              | 2  | 2     | 2     | 2    | 1     | 1      | 1      | 1  | 1  | 1  |
| Number:                                                   | 8  | 9              | 0  | 1     | 2     | 3    | 4     | 5      | 6      | 7  | 8  | 9  |
| Number of fetuses examined                                | NP | 0 <sup>c</sup> | FD | 10    | 8     | 10   | 10    | 8      | 9      | FD | NP | NP |
| Number of fetuses within normal limits                    |    |                |    | 4     | 5     | 10   | 3     | 0      | 0      |    |    |    |
| Number of fetuses with one or more skeletal variants      |    |                |    | 6     | 3     | 0    | 7     | 8      | 9      |    |    |    |
| Percent of fetuses with one or more skeletal variants (%) |    |                |    | 60.00 | 37.50 | 0.00 | 70.00 | 100.00 | 100.00 |    |    |    |
| Identification letter(s) of fetuses with:                 |    |                |    |       |       |      |       |        |        |    |    |    |

Lagging Ossification

Skull - incomplete closure (<75%)

- interparietal ossification incomplete/nonossified
- parietals ossification irregular
- supraoccipital ossification incomplete/nonossified
- supraoccipital nonfused
- hyoid ossification incomplete/nonossified

Pectoral girdle - scapula ossification incomplete

Rib cage - sternebrae bipartite

- sternebrae 1 and 2 fused
- sternebrae <3 ossified
- ribs <13 ossified<sup>b</sup>
- ribs >13 ossified (cervical region)
- ribs 13th pair small<sup>b</sup>
- ribs ossification irregular

Vertebral column - sacral arches nonossified

- thoracic centra ossification incomplete/nonossified
- thoracic centra nonfused
- caudals <3 ossified

Pelvic girdle - pubis ossification incomplete/nonossified

- ischium nonossified

Forelimbs - <3 ossified

Hindlimbs - <4 ossified

Bone Alignment

Ribs - angulated

Sternebrae - checkered

NP = Not Pregnant.

FD = Found Dead.

<sup>a</sup> There were no skeletal anomalies noted in any fetuses.

<sup>b</sup> Possible preparation damage at time of evisceration.

<sup>c</sup> All fetuses resorbed and/or dead.

B BCFHI CDFIJL  
KL MO  
CJMP BFIKL I  
BCMP HK CIJLMO  
BCEFIL  
K  
BCEFHI CDFGIJ  
L LMO  
CKL  
B CKL  
BMP L IL  
BI BCFHI CJL  
KL  
BCHIKL  
KL  
KL  
B BCFHI CIJLO  
KL

Appendix 9  
References

Rat Teratology Study of T-3351

STATISTICAL METHODS/LABORATORY PROCEDURES

Armitage, P., "Tests for Linear Trends in Proportions and Frequencies." Biometrics, 11:375-385, 1955.

Bartlett, M. S., "Some Examples of Statistical Methods of Research in Agriculture and Applied Biology." J. Royal Statist. Soc. Suppl., IV:137-170, 1937.

Cochran, W. G., "Some Methods of Strengthening the Common Chi-Square Tests." Biometrics, 10:417-451, 1954.

Cochran, W. G., and Cox, G. M., Experimental Designs, 2nd Ed., John Wiley and Sons, Inc., New York, 1957.

Draper, N. R., and Hunter, W. G., "Transformations: Some Examples Revisited." Technometrics, 11:23-40, 1969.

Dunnett, C. W., "A Multiple Comparison Procedure for Comparing Several Treatments with a Control." J. Am. Stat. Assoc., 50:1096-1121, 1955.

Dunnett, C. W., "New Tables for Multiple Comparisons with a Control." Biometrics, 20:482-491, 1964.

Fisher, R. A., Statistical Methods for Research Workers, Oliver & Boyd, Edinburgh, 1950.

Fleiss, J. L., Statistical Methods for Rates and Proportions, 2nd Ed., Wiley, New York, Ch. 9, 1981.

Jonckheere, A. R., "A Distribution-free k-sample Test Against Ordered Alternatives." Biometrika 41:133-45, 1954.

Kruskal, W. H. and Wallis, W. A., "Use of Ranks in One-Criterion Variance Analysis." J. Am. Stat. Assoc., 47:583-621, 1952.

Kruskal, W. H. and Wallis, W. A., "Errata to Use of Ranks in One-Criterion Variance Analysis." J. Am. Stat. Assoc., 48:907-911, 1953.

Levene, H., "Robust Tests for Equality of Variances," in I. Olkin edited, Contributions to Probability and Statistics, Stanford University Press, Palo Alto, 1960.

Miller, R. G., Jr., Simultaneous Statistical Inference, McGraw-Hill, New York, 1966, Ch. 6.1.



Appendix 9 - Continued  
References  
Rat Teratology Study of T-3351

STATISTICAL METHODS/LABORATORY PROCEDURES

Staples, R. E., "Detection of Visceral Alterations in Mammalian Fetuses." Teratology, 9(3):A-37, 1974.

Staples, R. E. and Schnell, V. L., "Refinements in Rapid Clearing Technic in the KOH-Alizarin Red S Method for Fetal Bone." Stain Technology, 39:61-63, 1964.

Terpstra, T. J., "The Asymptotic Normality and Consistency of Kendall's Test Against Trend, When Ties are Present in One Ranking." Indag. Math. 14:327-333, 1952.

Wilson, J. G. and Warkany, J., editors. Teratology: Principles and Techniques, The Univ. of Chicago Press, Chicago, 1965, pp. 251-277.

Winer, B. J., Statistical Principles in Experimental Design, 2nd Ed., McGraw-Hill, N.Y., Chs. 3-9, 1971.

Winer, B. J., Statistical Principles in Experimental Design, 2nd Ed., McGraw-Hill, N.Y., Ch. 10, 1971.