Entergy

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Stephen J. Bethay
Director, Nuclear Assessment

December 12, 2006

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

SUBJECT: Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
Docket No. 50-293 License No. DPR-35

License Renewal Application Amendment 10

REFERENCE: Entergy letter, License Renewal Application, dated January 25, 2006 (2.06.003)

LETTER NUMBER: 2.06.094

Dear Sir or Madam:

In the referenced letter, Entergy Nuclear Operations, Inc. applied for renewal of the Pilgrim Station operating license. NRC TAC NO. MC9669 was assigned to the application.

This License Renewal Application (LRA) amendment consists of four attachments. Attachment A contains the list of revised regulatory commitments. Attachment B contains the response to the RAI on LRA Section B.1.16.1 Containment Inservice Inspection, conveyed in NRC letter dated November 7, 2006. Attachment C contains the response to the RAIs on LRA Appendix E concerning Severe Accident Mitigation Alternatives, conveyed in NRC letter dated November 28, 2006, and for which a compact disc labeled PNPS MACCS2 Input Files is enclosed. Attachment D contains changes to the LRA stemming from NRC Region I inspection of the LRA.

Please contact Mr. Bryan Ford, (508) 830-8403, if you have any questions regarding this subject.

I declare under penalty of perjury that the foregoing is true and correct. Executed on December 12, 2006.

Sincerely,

Stephen J. Bethay
Director, Nuclear Safety Assessment

DWE/dl
Attachments: (as stated)
Enclosure: Compact Disc labeled PNPS MACCS2 Input Files
cc: see next page

cc: with Attachments

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ATTACHMENT A to Letter 2.06.094
(7 pages)

Revised List of Regulatory Commitments

Revised List of Regulatory Commitments

The following table identifies those actions committed to by Entergy in this document. Any other statements in this submittal are provided for information purposes and are not considered to be regulatory commitments.

#	COMMITMENT	IMPLEMENTATION SCHEDULE	SOURCE	Related LRA Section No./ Comments
1	Implement the Buried Piping and Tanks Inspection Program as described in LRA Section B.1.2.	June 8, 2012	Letter 2.06.003	B.1.2/ Audit Item 320
2	Enhance the implementing procedure for ASME Section XI inservice inspection and testing to specify that the guidelines in Generic Letter 88-01 or approved BWRVIP-75 shall be considered in determining sample expansion if indications are found in Generic Letter 88-01 welds.	June 8, 2012	Letter 2.06.003	B.1.6/ Audit Item 320
3	Inspect fifteen (15) percent of the top guide locations using enhanced visual inspection technique, EVT-1, within the first 18 years of the period of extended operation, with at least one-third of the inspections to be completed within the first six (6) years and at least two-thirds within the first 12 years of the period of extended operations. Locations selected for examination will be areas that have exceeded the neutron fluence threshold.	As stated in the commitment	Letters 2.06.064 and 2.06.081	B.1.8/ Audit Items 155, 320
4	Enhance the Diesel Fuel Monitoring Program to include quarterly sampling of the security diesel generator fuel storage tank. Particulates (filterable solids), water and sediment checks will be performed on the samples. Filterable solids acceptance criteria will be = 10 mg/l. Water and sediment acceptance criteria will be = 0.05%.	June 8, 2012	Letters 2.06.003 and 2.06.089	B.1.10/Audit Items 320, 566
5	Enhance the Diesel Fuel Monitoring Program to install instrumentation to monitor for leakage between the two walls of the security diesel generator fuel storage tank to ensure that significant degradation is not occurring.	June 8, 2012	Letter 2.06.057	B.1.10/ Audit Items 155, 320
6	Enhance the Diesel Fuel Monitoring Program to specify acceptance criterion for UT measurements of emergency diesel generator fuel storage tanks (T-126A&B).	June 8, 2012	Letter 2.06.003	B.1.10/ Audit Items 165, 320

#	COMMITMENT	IMPLEMENTATION SCHEDULE	SOURCE	Related LRA Section No./ Comments
7	Enhance Fire Protection Program procedures to state that the diesel engine sub-systems (including the fuel supply line) shall be observed while the pump is running. Acceptance criteria will be enhanced to verify that the diesel engine did not exhibit signs of degradation while it was running; such as fuel oil, lube oil, coolant, or exhaust gas leakage. Also, enhance procedures to clarify that the diesel-driven fire pump engine is inspected for evidence of corrosion in the intake air, turbocharger, and jacket water system components as well as lube oil cooler. The jacket water heat exchanger is inspected for evidence of corrosion or buildup to manage loss of material and fouling on the tubes. Also, the engine exhaust piping and silencer are inspected for evidence of internal corrosion or cracking.	June 8, 2012	Letter 2.06.064	B.1.13.1/ Audit Items 320, 378
8	Enhance the Fire Protection Program procedure for Halon system functional testing to state that the Halon 1301 flex hoses shall be replaced if leakage occurs during the system functional test.	June 8, 2012	Letter 2.06.003	B.1.13.1/ Audit Item 320
9	Enhance Fire Water System Program procedures to include inspection of hose reels for corrosion. Acceptance criteria will be enhanced to verify no significant corrosion.	June 8, 2012	Letter 2.06.003	B.1.13.2/ Audit Item 320
10	Enhance the Fire Water System Program to state that a sample of sprinkler heads will be inspected using guidance of NFPA 25 (2002 Edition) Section 5.3.1.1.1. NFPA 25 also contains guidance to repeat this sampling every 10 years after initial field service testing.	June 8, 2012	Letter 2.06.003	B.1.13.2/ Audit Item 320
11	Enhance the Fire Water System Program to state that wall thickness evaluations of fire protection piping will be performed on system components using non-intrusive techniques (e.g., volumetric testing) to identify evidence of loss of material due to corrosion. These inspections will be performed before the end of the current operating term and at intervals thereafter during the period of extended operation. Results of the initial evaluations will be used to determine the appropriate inspection interval to ensure aging effects are identified prior to loss of intended function.	June 8, 2012	Letter 2.06.003	B.1.13.2/ Audit Item 320
12	Implement the Heat Exchanger Monitoring Program as described in LRA Section B.1.15.	June 8, 2012	Letter 2.06.003	B.1.15/ Audit Item 320

#	COMMITMENT	IMPLEMENTATION SCHEDULE	SOURCE	Related LRA Section No./ Comments
13	Enhance the Instrument Air Quality Program to include a sample point in the standby gas treatment and torus vacuum breaker instrument air subsystem in addition to the instrument air header sample points.	June 8, 2012	Letter 2.06.003	B.1.17/ Audit Item 320
14	Implement the Metal-Enclosed Bus Inspection Program as described in LRA Section B.1.18.	June 8, 2012	Letter 2.06.003	B.1.18/ Audit Item 320
15	Implement the Non-EQ Inaccessible Medium-Voltage Cable Program as described in LRA Section B.1.19. Include developing a formal procedure to inspect manholes for in-scope medium voltage cable.	June 8, 2012	Letter 2.06.003	B.1.19/ Audit items 311, 320
16	Implement the Non-EQ Instrumentation Circuits Test Review Program as described in LRA Section B.1.20.	June 8, 2012	Letter 2.06.003	B.1.20/ Audit Item 320
17	Implement the Non-EQ Insulated Cables and Connections Program as described in LRA Section B.1.21.	June 8, 2012	Letter 2.06.003	B.1.21/ Audit Item 320
18	Enhance the Oil Analysis Program to periodically change CRD pump lubricating oil. A particle count and check for water will be performed on the drained oil to detect evidence of abnormal wear rates, contamination by moisture, or excessive corrosion.	June 8, 2012	Letter 2.06.003	B.1.22/Audit Item 320
19	Enhance Oil Analysis Program procedures for security diesel and reactor water cleanup pump oil changes to obtain oil samples from the drained oil. Procedures for lubricating oil analysis will be enhanced to specify that a particle count and check for water are performed on oil samples from the fire water pump diesel, security diesel, and reactor water cleanup pumps.	June 8, 2012	Letter 2.06.003	B.1.22/ Audit Item 320
20	Implement the One-Time Inspection Program as described in LRA Section B.1.23. This includes destructive or non-destructive examination of one (1) socket welded connection using techniques proven by past industry experience to be effective for the identification of cracking in small bore socket welds. Should an inspection opportunity not occur (e.g., socket weld failure or socket weld replacement), a susceptible small-bore socket weld will be examined either destructively or non-destructively prior to entering the period of extended operation.	June 8, 2012	Letter 2.06.003	B.1.23/ Audit Items 219, 320
21	Enhance the Periodic Surveillance and Preventive Maintenance Program as necessary to assure that the effects of aging will be managed as described in LRA Section B.1.24.	June 8, 2012	Letter 2.06.003	B.1.24/ Audit Item 320

#	COMMITMENT	IMPLEMENTATION SCHEDULE	SOURCE	Related LRA Section No./ Comments
22	Enhance the Reactor Vessel Surveillance Program to proceduralize the data analysis, acceptance criteria, and corrective actions described in LRA Section B.1.26.	June 8, 2012	Letter 2.06.003	B.1.26/ Audit Item 320
23	Implement the Selective Leaching Program in accordance with the program as described in LRA Section B.1.27.	June 8, 2012	Letter 2.06.003	B.1.27/ Audit Item 320
24	Enhance the Service Water Integrity Program procedure to clarify that heat transfer test results are trended.	June 8, 2012	Letter 2.06.003	B.1.28/ Audit Item 320
25	Enhance the Structures Monitoring Program procedure to clarify that the discharge structure, security diesel generator building, trenches, valve pits, manholes, duct banks, underground fuel oil tank foundations, manway seals and gaskets, hatch seals and gaskets, underwater concrete in the intake structure, and crane rails and girders are included in the program. In addition, the Structures Monitoring Program will be revised to require opportunistic inspections of inaccessible concrete areas when they become accessible.	June 8, 2012	Letter 2.06.003	B.1.29.2/ Audit Items 238, 320
26	Enhance Structures Monitoring Program guidance for performing structural examinations of elastomers (seals, gaskets, seismic joint filler, and roof elastomers) to identify cracking and change in material properties.	June 8, 2012	Letter 2.06.003	B.1.29.2/ Audit Item 320
27	Enhance the Water Control Structures Monitoring Program scope to include the east breakwater, jetties, and onshore revetments in addition to the main breakwater.	June 8, 2012	Letter 2.06.003	B.1.29.3/ Audit Item 320
28	Enhance System Walkdown Program guidance documents to perform periodic system engineer inspections of systems in scope and subject to aging management review for license renewal in accordance with 10 CFR 54.4(a)(1) and (a)(3). Inspections shall include areas surrounding the subject systems to identify hazards to those systems. Inspections of nearby systems that could impact the subject systems will include SSCs that are in scope and subject to aging management review for license renewal in accordance with 10 CFR 54.4(a)(2).	June 8, 2012	Letter 2.06.057	B.1.30/ Audit Items 320, 327
29	Implement the Thermal Aging and Neutron Irradiation Embrittlement of Cast Austenitic Stainless Steel (CASS) Program as described in LRA Section B.1.31.	June 8, 2012	Letter 2.06.003	B.1.31/ Audit Items 257, 320

#	COMMITMENT	IMPLEMENTATION SCHEDULE	SOURCE	Related LRA Section No./ Comments
30	Perform a code repair of the CRD return line nozzle to cap weld if the installed weld repair is not approved via accepted code cases, revised codes, or an approved relief request for subsequent inspection intervals.	June 30, 2015	Letter 2.06.057	B.1.3/ Audit Items 141, 320
31	At least 2 years prior to entering the period of extended operation, for the locations identified in NUREG/CR-6260 for BWRs of the PNPS vintage, PNPS will implement one or more of the following: (1) Refine the fatigue analyses to determine valid CUFs less than 1 when accounting for the effects of reactor water environment. This includes applying the appropriate Fen factors to valid CUFs determined in accordance with one of the following: 1. For locations, including NUREG/CR-6260 locations, with existing fatigue analysis valid for the period of extended operation, use the existing CUF to determine the environmentally adjusted CUF. 2. More limiting PNPS-specific locations with a valid CUF may be added in addition to the NUREG/CR-6260 locations. 3. Representative CUF values from other plants, adjusted to or enveloping the PNPS plant specific external loads may be used if demonstrated applicable to PNPS. 4. An analysis using an NRC-approved version of the ASME code of NRC-approved alternative (e.g., NRC-approved code case) may be performed to determine a valid CUF. (2) Manage the effects of aging due to fatigue at the affected locations by an inspection program that has been reviewed and approved by the NRC (e.g., periodic non-destructive examination of the affected locations at inspection intervals to be determined by a method acceptable to the NRC). (3) Repair or replace the affected locations before exceeding a CUF of 1.0. Should PNPS select the option to manage the aging effects due to environmental-assisted fatigue during the period of extended operation, details of the aging management program such as scope, qualification, method, and frequency will be submitted to the NRC at least 2 years prior to the period of extended operation.	June 8, 2012 June 8, 2010 for submitting the aging management program if PNPS selects the option of managing the affects of aging due to environmentally assisted fatigue.	Letters 2.06.064 and 2.06.081	4.3.3/ Audit Items 302, 346
32	Implement the enhanced Bolting Integrity Program described in Attachment C of Pilgrim License Renewal Application Amendment 5 (dated July 19, 2006, 2.06.064).	June 8, 2012	Letters 2.06.064 and 2.06.081	Audit items 364, 373, 389, 390, 432, 443, 470

#	COMMITMENT	IMPLEMENTATION SCHEDULE	SOURCE	Related LRA Section No./ Comments
33	PNPS will inspect the inaccessible jet pump thermal sleeve and core spray thermal sleeve welds if and when the necessary technique and equipment become available and the technique is demonstrated by the vendor, including delivery system.	As stated in the commitment	Letter 2.06.057	Audit Items 320, 488
34	Within the first 6 years of the period of extended operation and every 12 years thereafter, PNPS will inspect the access hole covers with UT methods. Alternatively, PNPS will inspect the access hole covers in accordance with BWRVIP guidelines should such guidance become available.	June 8, 2018	Letter 2.06.057 and 2.06.089	Audit Items 320, 461
35	At least 2 years prior to entering the period of extended operation, for reactor vessel components, including the feedwater nozzles, PNPS will implement one or more of the following: (1) Refine the fatigue analyses to determine valid CUFs less than 1. Determine valid CUFs based on numbers of transient cycles projected to be valid for the period of extended operation. Determine CUFs in accordance with an NRC-approved version of the ASME code or NRC-approved alternative (e.g., NRC-approved code case). (2) Manage the effects of aging due to fatigue at the affected locations by an inspection program that has been reviewed and approved by the NRC (e.g., periodic non-destructive examination of the affected locations at inspection intervals to be determined by a method acceptable to the NRC). (3) Repair of replace the affected locations before exceeding a CUF of 1.0. Should PNPS select the option to manage the aging effects due to fatigue during the period of extended operation, details of the aging management program such as scope, qualification, method, and frequency will be submitted to the NRC at least 2 years prior to the period of extended operation.	June 8, 2012 June 8, 2010 for submitting the aging management program if PNPS selects the option of managing the affects of aging.	Letters 2.06.064 and 2.06.081	Audit Item 345
36	To ensure that significant degradation on the bottom of the condensate storage tank is not occurring, a one-time ultrasonic thickness examination in accessible areas of the bottom of the condensate storage tank will be performed. Standard examination and sampling techniques will be utilized.	June 8, 2012	Letter 2.06.057	Audit Items 320, 363

#	COMMITMENT	IMPLEMENTATION SCHEDULE	SOURCE	Related LRA Section No./ Comments
37	The BWR Vessel Internals Program includes inspections of the steam dryer. Inspections of the steam dryer will follow the guidelines of BWRVIP-139 and General Electric SIL 644 Rev. 1.	June 8, 2012	Letter 2.06.089	A.2.1.8/ Conference call on September 25, 2006
38	Enhance the Diesel Fuel Monitoring Program to include periodic ultrasonic thickness measurement of the bottom surface of the diesel fire pump day tank. The first ultrasonic inspection of the bottom surface of the diesel fire pump day tank will occur prior to the period of extended operation, following engineering analysis to determine acceptance criteria and test locations. Subsequent test intervals will be determined based on the first inspection results.	June 8, 2012	Letter 2.06.089	B.1.10/ Audit Item 565
39	Perform a one-time inspection of the Main Stack foundation prior to the period of extended operation.	June 8, 2012	Letter 2.06.094	B.1.23/ Inspection Item 581
40	Enhance the Oil Analysis Program by documenting program elements 1 through 7 in controlled documents. The program elements will include enhancements identified in the PNPS license renewal application and subsequent amendments to the application. The program will include periodic sampling for the parameters specified under the Parameters Monitored/Inspected attribute of NUREG-1801 Section XI.M39, Lubricating Oil Analysis. The controlled documents will specify appropriate acceptance criteria and corrective actions in the event acceptance criteria are not met. The basis for acceptance criteria will be defined.	June 8, 2012	Letter 2.06.094	B.1.22/ Inspection Items 553, 589
41	Enhance the Containment Inservice Inspection (CII) Program to require augmented inspection in accordance with ASME Section XI IWE-1240, of the drywell shell adjacent to the sand cushion following indications of water leakage into the annulus air gap.	June 8, 2012	Letter 2.06.094	A.2.1.17 and B.1.16.1

ATTACHMENT B to Letter 2.06.094
(4 pages)

Response to Request for Additional Information on LRA
Section B.1.16.1 Containment Inservice Inspection

B.1.16.1 Containment Inservice Inspection (CII)

RAI B.1.16.1:

1. In the Pilgrim Nuclear Power Station (PNPS) aging management program B.1.16.1 of the license renewal application (LRA), the applicant stated: "CII inspections during RFO 15 (April 2005) did not reveal evidence of loss of material. Absence of degradation provides evidence that the program is effective for managing the aging effect." In addition, in the LRA, Amendment 2 (ML061710422) under, "Ongoing Actions to Prevent Drywell Corrosion," PNPS stated, "Functional checks are performed each refueling outage on the flow switch associated with the bellows seal leakage monitoring system." However, the recent NRC Region I inspection team observations indicated that:

   a. The flow switch in the bellows rupture drain had failed its surveillance in December 2005, and has not been fixed or evaluated. In addition, the flow switch also had been failed in 1999.

   b. Monitoring of other drains has been inconclusive and not well documented.

   c. The torus room floor has had water on the floor on multiple occasions.

   Please provide a detailed discussion, including record, corrective actions taken, and preventive action in response to this plant specific operating experience and discuss its impact on the aging management of potential loss of material due to corrosion in the inaccessible area of the Mark I steel containment drywell shell, including the sand pocket region for the period of extended operation.

Response to RAI B.1.16.1:

a. On December 28, 2005, the flow switch in the bellows rupture drain (FS-4803) failed to respond acceptably during testing. During the test, water is poured into an upstream test funnel. The water normally flows into the flow switch, actuates the switch, and discharges to the radwaste system. On this occasion, the flow switch did not alarm; the water filled the piping until it overflowed the test funnel. This was caused by blockage of the passages around the perimeter of the baffle of the flow switch. The apparent cause of the blockage was accumulation of crud and corrosion products from the test funnel and associated piping during routine testing.

   Corrective actions

   The flow switch associated with the bellows rupture drain was replaced with a new switch on November 17, 2006.

   Preventive actions

   Flow switches FS-4802 and FS-4806 are the same Peeco flow switches as FS-4803. FS-4802 provides alarming functions for the vessel to drywell bellows rupture. FS-4806 provides alarming functions for fuel pool gate leakage. Maintenance requests were initiated to replace these flow switches.

A preventive maintenance task was established to replace flow switches FS-4802, FS-4803, and FS-4806 every 15 years.

Functional checks of the flow switch in the bellows rupture drain (FS-4803) are performed each refueling outage and repair, if necessary, is tracked under the work management process.

Impact on management of loss of material due to corrosion in the inaccessible areas of the containment drywell shell

If leakage occurred with the flow switch in the bellows rupture drain (FS-4803) failed, leakage would enter the 8" casings where it would be indicated by leakage from the four ¾" refueling bellows rupture tell-tale drains. Daily operator rounds have not detected leakage from these tell-tale drains.

If FS-4803 has failed and leakage is not detected from the ¾" refueling bellows rupture tell-tale drains before the 8" casings fill up and water rises above the ¼" thick form plate that surrounds the ledge, leakage can overflow into the annulus air gap. A sheet metal cover plate shields the sand pocket against leakage from above. Four 4" annulus air gap drain lines direct water from above the sand pocket to the torus room floor. These drains are checked by ISI VT-2 certified inspectors for leakage twice every refuel outage, once after flooding up and again prior to flooding down. No leakage has ever been detected from these drains. Buckets placed under these annulus air gap drains in the 1980's are dry with no evidence of previous water accumulation.

Since leakage has not been detected at the other drains and actions have been taken to preclude recurrence, the temporary inoperability of FS-4803 does not impact management of loss of material due to corrosion in the inaccessible areas of the containment drywell shell for the period of extended operation.

b. The 4" annulus air gap drains located in bays 2, 6, 10 and 14 of the torus room adjacent to the reactor pedestal discharge approximately 6" above the floor (buckets are placed on the floor under the drains). The four drains are examined for leakage twice during every refueling outage as augmented exams under the station's IWE code containment inspection program. They are checked for leakage by VT-2 certified examiners during outages once after flooding the refueling cavity and again prior to draining the refueling cavity at the close of the outage. Leakage, if present, would discharge into the buckets on the floor of the torus room as the drain lines are not directed to floor drains. Because of the buckets under the drains, leakage from the four annulus air gap drains (see response to c.) could not be mistaken for groundwater intrusion in the torus room.

Corrective actions

See Preventive actions below for measures to improve the documentation of drain monitoring activities.

Preventive actions

Surveillance of the four ¾" refueling bellows rupture tell-tale drains on the Reactor Building 74 foot elevation is performed and documented twice daily during reactor building operator rounds when in refueling mode. Visual observation of the tell-tale drains during operator rounds has not detected leakage.

Impact on management of loss of material due to corrosion in the inaccessible areas of the containment drywell shell

Preventive actions discussed above provide additional assurance that leakage into the annulus air gap will be prevented.

c. In September 2006, standing water was observed in torus bays 6, 7, 10 and 13. Although dry, the appearance of the floor in bay 11 indicated it had been wet. Dampness and corrosion was in evidence around the Williams Rock Anchor baseplates at torus saddles 6, 10, 11, 12, 13, 14 & 15. There was no condensation on the torus itself, nor any obvious evidence of process system leakage.

The locations and extent of the observed conditions are consistent with conditions investigated and evaluated in 1996. At that time, a thorough investigation concluded that the most probable cause of water on the torus room floor was groundwater infiltration by-passing the membrane system that encapsulates the reactor building foundation. A test performed in 1996 demonstrated that water was emerging from the anchor bolt holes for the Williams Rock Anchors at the torus saddles. Buckets under the air gap annulus drains that continue to remain dry ensure that those drains are not contributing to the water observed on the floor.

Corrective actions

None.

Preventive actions

An assessment of the torus saddle anchor bolts in 1999 concluded that active corrosion of the embedded anchor bolts was not occurring. These supports and associated bolting are inspected under the Containment Inservice Inspection Program to assure that effects of aging will be managed such that they will continue to perform their intended functions consistent with the current licensing basis for the period of extended operation.

The feasibility of pressure grouting the torus room floor or correcting the condition of floor surface drainage to allow water to flow to the floor drains is being evaluated.

Impact on management of loss of material due to corrosion in the inaccessible areas of the containment drywell shell

Since the water on the torus room floor is not attributed to refueling cavity leakage or leakage into the annulus air gap, this condition has no impact on management of loss of material due to corrosion in the inaccessible areas of the containment drywell shell for the period of extended operation. Collection buckets under the annulus air gap drains continue to remain dry.

Other Considerations

The ongoing actions to prevent and identify drywell corrosion described in LRA Amendment 2 were assessed and strengthened by addition of an enhancement to assure the drywell shell adjacent to the sand cushion is inspected following indications of water leakage into the annulus air gap.

The condition of the sealant between the shield at the base of the annulus air gap and the drywell shell is uncertain because of its inaccessibility. Also due to inaccessibility, the absence of residual moisture in the sand cushion following leakage cannot be confirmed. For these reasons, augmented inspection of the drywell shell in the sand cushion area is warranted following indications of leakage into the annulus air gap.

If leakage is detected or suspected into the inaccessible area adjacent to the exterior of the drywell shell (the annulus air gap), PNPS will document and evaluate the condition in accordance with the corrective action program. Appropriate corrective actions to correct the cause of the leakage and to address the potential degradation of the drywell shell caused by the condition would be initiated. To assure corrective actions include augmented inspections performed in accordance with ASME Section XI IWE-1240, the Containment Inservice Inspection (CII) Program is enhanced to require augmented inspection of the drywell shell adjacent to the sand cushion following indications of water leakage into the annulus air gap.

This enhancement, License Renewal Commitment 41, requires the following revisions to the LRA.

LRA Section B.1.16.1, Containment Inservice Inspection (CII), is revised to include the following.

Enhancements

The following enhancement will be implemented prior to the period of extended operation.

Attributes Affected	Enhancements
3. Parameters monitored and inspected	Administrative controls are enhanced to require augmented inspection in accordance with ASME Section XI IWE-1240 of the drywell shell adjacent to the sand cushion following indications of water leakage into the annulus air gap.

LRA Section A.2.1.17, Inservice Inspection – Containment Inservice Inspection (CII) Program, is revised to include the following statement.

"License Renewal Commitment 41 specifies an enhancement to this program."

ATTACHMENT C to Letter 2.06.094
(4 pages)

Response to Request for Additional Information on LRA
Appendix E Concerning
Severe Accident Mitigation Alternatives

NRC RAI 1:

Provide the complete MACCS2 user input file used for the revised calculations described in Entergy's July 5, 2006 response to RAIs. This should include all files necessary to reproduce Entergy's calculations, i.e., the ATMOS, EARLY, CHRONC files, as well as any auxiliary input files containing meteorological data, dose conversion factors, food chain data, and site data. This should be provided in the form of a CD. Also identify and discuss any changes made to the MACCS2 source code.

Response to RAI 1:

A complete set of user prepared files is provided in the enclosed compact disc (CD). The files include ATMOS, EARLY, CHRONC, meteorological data, dose conversion factors, food chain data, and site data with file names ATMBP1Q, EARBP1, CHRBP1, MET01P, DOSDATA, SAMP_A, and SITEP, respectively. In addition, a specific ATMOS file named ATMPS2Q is also included to reflect reduced source terms for the filtered containment vent case (SAMA 2).

No changes were made to the MACCS2 source code.

NRC RAI 2:

Provide updated versions of Environmental Report Tables E.1-14 through E.1-16, based on the revised reactor core radionuclide inventories.

Response to RAI 2:

Updated Tables E.1-14, E.1-15, and E.1-16 are provided as follows:

Table E.1-14 Updated PNPS Core Inventory (Becquerels)[1]

Nuclide	Inventory	Nuclide	Inventory
Co-58	1.15E+16	Te-131m	2.87E+17
Co-60	1.37E+16	Te-132	2.80E+18
Kr-85	1.88E+16	I-131	1.94E+18
Kr-85m	6.84E+17	I-132	2.85E+18
Kr-87	1.24E+18	I-133	4.07E+18
Kr-88	1.68E+18	I-134	4.45E+18
Rb-86	1.05E+15	I-135	3.83E+18
Sr-89	2.08E+18	Xe-133	4.07E+18
Sr-90	1.84E+17	Xe-135	9.68E+17
Sr-91	2.71E+18	Cs-134	3.97E+17
Sr-92	2.83E+18	Cs-136	8.51E+16
Y-90	1.58E+17	Cs-137	2.38E+17
Y-91	2.54E+18	Ba-139	3.75E+18
Y-92	2.84E+18	Ba-140	3.70E+18
Y-93	3.23E+18	La-140	3.77E+18
Zr-95	3.34E+18	La-141	3.48E+18
Zr-97	3.44E+18	La-142	3.35E+18
Nb-95	3.16E+18	Ce-141	3.36E+18
Mo-99	3.65E+18	Ce-143	3.27E+18
Tc-99m	3.15E+18	Ce-144	2.18E+18
Ru-103	2.77E+18	Pr-143	3.20E+18
Ru-105	1.85E+18	Nd-147	1.43E+18
Ru-106	7.52E+17	Np-239	4.26E+19
Rh-105	1.38E+18	Pu-238	2.96E+15
Sb-127	1.74E+17	Pu-239	7.51E+14
Sb-129	6.06E+17	Pu-240	9.41E+14
Te-127	1.69E+17	Pu-241	1.62E+17
Te-127m	2.27E+16	Am-241	1.65E+14
Te-129	5.68E+17	Cm-242	4.35E+16
Te-129m	1.49E+17	Cm-244	2.35E+15

[1] Derived from Reference E.1-21 for a power level of 2028 MW(t) with an increase of 25% for long half-life nuclides Sr-90, Cs-134, and Cs-137 to reflect the average core exposure at PNPS

Table E.1-15 Updated Base Case Mean PDR and OECR Values

Release Mode	Frequency (/yr)	Population Dose (person-sv)[1]	Offsite Economic Cost ($)	Population Dose Risk (PDR) (person-rem/yr)	Offsite Economic Cost Risk (OECR) ($/yr)
CAPB-1	9.51E-08	5.77E-01	3.82E+06	5.49E-06[2]	3.63E-01
CAPB-2	1.27E-08	1.21E+02	7.18E+06	1.53E-04	9.08E-02
CAPB-3	2.39E-09	1.28E+02	7.31E+06	3.06E-05	1.75E-02
CAPB-4	3.29E-09	1.50E+04	4.93E+09	4.94E-03	1.62E+01
CAPB-5	2.73E-09	1.92E+04	6.15E+09	5.24E-03	1.68E+01
CAPB-6	7.95E-09	1.60E+04	4.35E+09	1.27E-02	3.46E+01
CAPB-7	7.93E-09	1.78E+04	5.25E+09	1.41E-02	4.16E+01
CAPB-8	2.06E-08	4.42E+04	1.68E+10	9.10E-02	3.46E+02
CAPB-9	9.25E-09	2.54E+04	9.26E+09	2.35E-02	8.56E+01
CAPB-10	8.53E-08	4.74E+04	1.72E+10	4.05E-01	1.47E+03
CAPB-11	4.35E-08	3.72E+04	1.29E+10	1.62E-01	5.61E+02
CAPB-12	1.70E-06	1.18E+02	4.85E+06	2.01E-02	8.25E+00
CAPB-13	2.30E-09	8.48E+03	8.36E+08	1.95E-03	1.93E+00
CAPB-14	2.26E-06	1.69E+04	4.96E+09	3.82E+00	1.12E+04
CAPB-15	2.12E-06	4.65E+04	1.80E+10	9.86E+00	3.82E+04
CAPB-16	1.18E-09	1.93E+04	6.28E+09	2.27E-03	7.40E+00
CAPB-17	6.91E-09	5.12E+04	1.98E+10	3.54E-02	1.37E+02
CAPB-18	4.61E-10	2.58E+04	8.43E+09	1.19E-03	3.88E+00
CAPB-19	2.43E-08	5.72E+04	2.11E+10	1.39E-01	5.12E+02
			Totals	**1.46E+01**	**5.26E+04**

1. 1 sv = 100 rem
2. 5.49E-06 (person-rem/yr) = 9.51E-08 (/yr) x 5.77E-01 (person-sv) x 100 (rem/sv)

Table E.1-16 Updated Summary of Offsite Consequence Sensitivity Results

	Population Dose (person-sv)			Offsite Economic Cost ($)		
Release Mode	Base Case	2–hr delayed evacuation	Lower speed of evacuation	Base Case	2–hr delayed evacuation	Lower speed of evacuation
CAPB-1	5.77E-01	5.77E-01	5.77E-01	3.82E+06	3.82E+06	3.82E+06
CAPB-2	1.21E+02	1.21E+02	1.21E+02	7.18E+06	7.18E+06	7.18E+06
CAPB-3	1.28E+02	1.28E+02	1.28E+02	7.31E+06	7.31E+06	7.31E+06
CAPB-4	1.50E+04	1.51E+04	1.51E+04	4.93E+09	4.93E+09	4.93E+09
CAPB-5	1.92E+04	1.93E+04	1.93E+04	6.15E+09	6.15E+09	6.15E+09
CAPB-6	1.60E+04	1.61E+04	1.61E+04	4.35E+09	4.35E+09	4.35E+09
CAPB-7	1.78E+04	1.79E+04	1.79E+04	5.25E+09	5.25E+09	5.25E+09
CAPB-8	4.42E+04	4.49E+04	4.50E+04	1.68E+10	1.68E+10	1.68E+10
CAPB-9	2.54E+04	2.55E+04	2.56E+04	9.26E+09	9.26E+09	9.26E+09
CAPB-10	4.74E+04	4.77E+04	4.79E+04	1.72E+10	1.72E+10	1.72E+10
CAPB-11	3.72E+04	3.75E+04	3.76E+04	1.29E+10	1.29E+10	1.29E+10
CAPB-12	1.18E+02	1.18E+02	1.19E+02	4.85E+06	4.85E+06	4.85E+06
CAPB-13	8.48E+03	8.48E+03	8.49E+03	8.36E+08	8.36E+08	8.36E+08
CAPB-14	1.69E+04	1.69E+04	1.69E+04	4.96E+09	4.96E+09	4.96E+09
CAPB-15	4.65E+04	4.67E+04	4.69E+04	1.80E+10	1.80E+10	1.80E+10
CAPB-16	1.93E+04	1.94E+04	1.95E+04	6.28E+09	6.28E+09	6.28E+09
CAPB-17	5.12E+04	5.14E+04	5.17E+04	1.98E+10	1.98E+10	1.98E+10
CAPB-18	2.58E+04	2.59E+04	2.61E+04	8.43E+09	8.43E+09	8.43E+09
CAPB-19	5.72E+04	5.75E+04	5.78E+04	2.11E+10	2.11E+10	2.11E+10

ATTACHMENT D to Letter 2.06.094
(4 pages)

Changes to the LRA
Stemming from NRC Region I Inspection of the LRA

Inspection item 526:

LRA Section B.1.15, attribute 4, Detection of Aging Effects, is revised as follows (underlined words added):

4. Detection of Aging Effects

Loss of material is the aging effect managed by this program. Representative tubes within the sample population of heat exchangers will be eddy current tested at a frequency determined by internal and external operating experience to ensure that effects of aging are identified prior to loss of intended function. Visual inspections of accessible heat exchangers will be performed on the same frequency as eddy current inspections.

An appropriate sample population of heat exchangers will be determined based on operating experience prior to inspections. The sample population of heat exchangers will be determined based on the materials of construction of the heat exchanger tubes and the associated environments as well as the type of heat exchanger (for example, shell and tube type). At least one heat exchanger of each type, material and environment combination will be included in the sample population. Inspection can reveal loss of material that could result in degradation of the heat exchangers. Fouling is not addressed by this program.

Inspection items 553 and 589:

LRA Section B.1.22 is amended as follows (underlined words added, strike-outs deleted):

NUREG-1801 Consistency

The Oil Analysis Program at PNPS is consistent with the program described in NUREG-1801, Section XI.M39, Lubricating Oil Analysis, with ~~an exception~~ exceptions and enhancements.

Exceptions to NUREG-1801

The Oil Analysis Program at PNPS is consistent with the program described in NUREG-1801, Section XI.M39, Lubricating Oil Analysis, with the following ~~exception~~ exceptions.

Attributes Affected	Exception
3. Parameters Monitored/Inspected	Flash point is not determined for sampled oil.[1]
3. Parameters Monitored/Inspected	Neutralization number and fuel dilution are not monitored for every oil sample.[2]

1. Analyses of filter residue or particle count, viscosity, total acid/base (neutralization number), water content, and metals content provide sufficient information to verify the oil is suitable for continued use.

2. The parameters monitored regularly (presence of moisture, abnormal wear products, and changes in viscosity) are those directly related to age-related degradation of components containing lube oil. As noted in the Mechanical Tools, aging effects are not observed in fuel oil and lubricating oil systems unless moisture or other contaminants are present. Therefore,

monitoring and trending of particle count, water content and viscosity in lubricating oil provide reasonable assurance that effects of aging will be managed such that applicable components will continue to perform their intended function consistent with the current licensing basis for the period of extended operation.

Enhancements

The following enhancements will be initiated prior to the period of extended operation.

Attributes Affected	Enhancements
1. Scope of Program	The Oil Analysis Program will be enhanced to periodically change CRD pump lubricating oil. A particle ~~count~~ check and ~~check~~ analysis for water will be performed on the drained oil to detect evidence of abnormal wear rates, contamination by moisture, or excessive corrosion.
3. Parameters Monitored/Inspected	Procedures for security diesel and reactor water cleanup pump oil changes will be enhanced to obtain oil samples from the drained oil. Procedures for lubricating oil analysis will be enhanced to specify that a particle ~~count~~ check and ~~check~~ analysis for water are performed on oil samples from the fire water pump diesel, security diesel, and reactor water cleanup pumps.
6. Acceptance Criteria	The Oil Analysis Program will be enhanced to proceduralize the acceptance criteria and corrective actions described in this program description.

License renewal commitment 40 is added as follows:

Prior to the period of extended operation, the PNPS Oil Analysis Program will be enhanced by documenting program elements 1 through 7 in controlled documents. The program elements will include enhancements identified in the PNPS license renewal application and subsequent amendments to the application. The program will include periodic sampling for the parameters specified under the Parameters Monitored/Inspected attribute of NUREG-1801, Section XI.M39, Lubricating Oil Analysis. The controlled documents will specify appropriate acceptance criteria and corrective actions in the event acceptance criteria are not met. The basis for acceptance criteria will be defined.

Inspection item 581:

PNPS will perform a one-time inspection of the main stack foundation prior to the period of extended operation. License renewal commitment 39.

Inspection item 583:

The table in the program description of LRA Section B.1.23 is revised to include the following line item for verifying the absence of cracking for miscellaneous items not covered by a fatigue TLAA:

Inspection for mechanical fatigue	One-time inspection activity will confirm that cracking due to fatigue is not occurring or is so insignificant that an aging management program is not warranted.

Inspection item 586:

Confirmation of the screening results for nonsafety-related SSCs connected to safety-related SSCs review of AMRM-30, Aging Management Review of Nonsafety-related Systems and Components Affecting Safety-related Systems, is being performed to assure that all components up to the seismic or equivalent anchor are represented in the summary tables. As a result of this effort, the following components are added to the summary tables:

Table 3.3.2-14-15: Heating Ventilation and Air Conditioning Systems

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG-1801 Vol. 2 Item	Table 1 Item	Notes
Fan housing	Pressure boundary	Carbon steel	Air – indoor (ext)	Loss of material	System Walkdown	VII.F2-2 (A-10)	3.3.1-56	A
Fan housing	Pressure boundary	Carbon steel	Air – indoor (int)	Loss of material	System Walkdown	V.B-1 (E-25)	3.2.1-32	E

Table 3.3.2-14-33: Standby Liquid Control System

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG-1801 Vol. 2 Item	Table 1 Item	Notes
Tank	Pressure boundary	Stainless steel	Air – indoor (ext)	None	None	VII.J-15 (AP-17)	3.3.1-94	A
Tank	Pressure boundary	Stainless steel	Air – indoor (int)	None	None			G

Additional Clarification:

LRA Table 3.3.2-3, Reactor Building Closed Cooling Water System (RBCCW) Summary of Aging Management Evaluation, is revised to add the following line items to address the Fuel Pool heat exchangers, Reactor Water Cleanup System (RWCU) demineralizer non-regeneration heat exchangers, and Recirculation pump seal water coolers, which were inadvertently omitted from the summary table.

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG-1801 Vol. 2 Item	Table 1 Item	Notes
Heat exchanger (tubes)	Pressure boundary	Stainless steel	Treated water (ext)	Loss of material	Water Chemistry Control – Closed Cooling Water	VII.C2-10 (A-52)	3.3.1-50	D
Heat exchanger (tubes)	Pressure boundary	Stainless steel	Treated water (ext)	Loss of material – wear	Heat Exchanger Monitoring			H

Heat exchanger (tubes)	Pressure boundary	Stainless steel	Treated water > 140°F (ext)	Loss of material	Water Chemistry Control – Closed Cooling Water	VII.C2-10 (A-52)	3.3.1-50	D
Heat exchanger (tubes)	Pressure boundary	Stainless steel	Treated water > 140°F (ext)	Cracking	Water Chemistry Control – Closed Cooling Water	VII.E3-2 (A-68)	3.3.1-46	D
Heat exchanger (tubes)	Pressure boundary	Stainless steel	Treated water > 140°F (ext)	Loss of material – wear	Heat Exchanger Monitoring			H
Heat exchanger (tubes)	Pressure boundary	Stainless steel	Treated water > 270°F (ext)	Loss of material	Water Chemistry Control – Closed Cooling Water	VII.C2-10 (A-52)	3.3.1-50	D
Heat exchanger (tubes)	Pressure boundary	Stainless steel	Treated water > 270°F (ext)	Cracking	Water Chemistry Control – Closed Cooling Water	VII.E3-2 (A-68)	3.3.1-46	D
Heat exchanger (tubes)	Pressure boundary	Stainless steel	Treated water > 270°F (ext)	Cracking – fatigue	One-time Inspection	VII.E3-14 (A-62)	3.3.1-2	C
Heat exchanger (tubes)	Pressure boundary	Stainless steel	Treated water > 270°F (ext)	Loss of material – wear	Heat Exchanger Monitoring			H

LRA Section B.1.15, Heat Exchanger Monitoring, Program Description, third paragraph, is revised as follows (underlined words added, strike-outs deleted):

> Representative tubes within the sample population of heat exchangers will be eddy current tested at a frequency determined by internal and external operating experience to ensure that effects of aging are identified prior to loss of intended function. Along with each eddy current test, visual inspections will be performed on accessible heat exchanger heads, covers and tube sheets to monitor surface condition for indications of loss of material. The ~~sample~~ population of heat exchangers includes the RHR heat exchangers, RHR pump seal cooler heat exchangers, core spray pump motor thrust bearing lube oil coolers, HPCI gland seal condenser, HPCI turbine lube oil cooler, RCIC lube oil cooler, recirculation pump motor generator set fluid coupling oil and bearing coolers, CRD pump oil coolers, recirculation pump motor lube oil coolers, clean up recirculation pump lube oil coolers and stuffing box cooler, fuel pool heat exchangers, CRD pump thrust bearing coolers, recirculation pump seal water coolers, clean up demineralizer non-regeneration heat exchangers, and EDG lube oil coolers.

DOSDATA.INP

MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47
Seven new organs added with MACCS Version 1.5.11.1

19 ORGANS DEFINED IN THIS FILE:

STOMACH
SMALL IN
LUNGS
RED MARR
THYROID
LOWER LI
BONE SUR
BREAST
TESTES
OVARIES
EDEWBODY
THYROIDH
ADRENALS
BLAD WAL
KIDNEYS
LIVER
PANCREAS
SPLEEN
THYMUS

60 NUCLIDES DEFINED IN THIS FILE:

CO-58
CO-60
KR-85
KR-85M
KR-87
KR-88
RB-86
SR-89
SR-90
SR-91
SR-92
Y-90
Y-91
Y-92
Y-93
ZR-95
ZR-97
NB-95
MO-99
TC-99M
RU-103
RU-105
RU-106
RH-105
SB-127
SB-129
TE-127
TE-127M
TE-129
TE-129M
TE-131M
TE-132
I-131
I-132
I-133
I-134
I-135
XE-133
XE-135
CS-134

CS-136
CS-137
BA-139
BA-140
LA-140
LA-141
LA-142
CE-141
CE-143
CE-144
PR-143
ND-147
NP-239
PU-238
PU-239
PU-240
PU-241
AM-241
CM-242
CM-244

	CLOUDSHINE	GROUND SHINE 8HR	GROUND SHINE 7DAY	GROUND SHINE RATE	INHALED ACUTE	INHALED CHRONIC	INGESTION
CO-58							
STOMACH	3.520E-14	1.979E-11	4.023E-10	6.881E-16	1.558E-10	1.394E-09	3.853E-10
SMALL IN	3.203E-14	1.796E-11	3.652E-10	6.247E-16	3.307E-10	7.495E-10	1.130E-09
LUNGS	3.805E-14	2.143E-11	4.356E-10	7.452E-16	7.599E-10	1.601E-08	8.510E-11
RED MARR	3.869E-14	2.179E-11	4.430E-10	7.579E-16	1.577E-10	9.228E-10	2.601E-10
THYROID	4.788E-14	2.690E-11	5.469E-10	9.354E-16	1.000E+00	8.704E-10	6.308E-11
LOWER LI	3.456E-14	1.942E-11	3.948E-10	6.754E-16	9.144E-10	1.989E-09	3.962E-09
BONE SUR	4.249E-14	2.389E-11	4.857E-10	8.308E-16	1.000E+00	6.926E-10	1.252E-10
BREAST	4.566E-14	2.571E-11	5.228E-10	8.942E-16	1.000E+00	9.367E-10	1.788E-10
TESTES	5.074E-14	2.845E-11	5.784E-10	9.894E-16	1.000E+00	1.060E-10	1.614E-10
OVARIES	3.456E-14	1.942E-11	3.948E-10	6.754E-16	1.000E+00	6.166E-10	1.041E-09
EDEWBODY	4.398E-14	2.459E-11	5.000E-10	8.553E-16	1.000E+00	3.088E-09	8.206E-10
THYROIDH	4.788E-14	2.690E-11	5.469E-10	9.354E-16	6.142E-11	8.704E-10	6.308E-11
ADRENALS	3.742E-14	2.097E-11	4.264E-10	7.293E-16	1.000E+00	1.601E-09	1.509E-10
BLAD WAL	3.583E-14	2.015E-11	4.097E-10	7.008E-16	1.000E+00	2.387E-10	3.643E-10
KIDNEYS	3.742E-14	2.106E-11	4.282E-10	7.325E-16	1.000E+00	7.523E-10	2.094E-10
LIVER	3.583E-14	2.006E-11	4.078E-10	6.976E-16	1.000E+00	1.637E-09	2.456E-10
PANCREAS	3.079E-14	1.723E-11	3.504E-10	5.993E-16	1.000E+00	1.675E-09	1.997E-10
SPLEEN	3.456E-14	1.942E-11	3.948E-10	6.754E-16	1.000E+00	1.458E-09	1.733E-10
THYMUS	3.995E-14	2.234E-11	4.542E-10	7.769E-16	1.000E+00	2.523E-09	6.674E-11
CO-60							
STOMACH	9.132E-14	4.602E-11	9.655E-10	1.598E-15	3.840E-10	2.726E-08	1.611E-09
SMALL IN	8.530E-14	4.301E-11	9.022E-10	1.494E-15	8.077E-10	7.046E-09	3.591E-09
LUNGS	9.862E-14	4.986E-11	1.046E-09	1.731E-15	3.511E-09	3.448E-07	8.768E-10
RED MARR	9.957E-14	5.032E-11	1.055E-09	1.747E-15	3.986E-10	1.718E-08	1.311E-09
THYROID	1.230E-13	6.219E-11	1.305E-09	2.159E-15	1.000E+00	1.615E-08	7.843E-10
LOWER LI	9.069E-14	4.575E-11	9.597E-10	1.589E-15	2.386E-09	7.916E-09	1.113E-08
BONE SUR	1.056E-13	5.333E-11	1.119E-09	1.852E-15	1.000E+00	1.353E-08	9.415E-10
BREAST	1.164E-13	5.872E-11	1.232E-09	2.039E-15	1.000E+00	1.843E-08	1.100E-09
TESTES	1.297E-13	6.548E-11	1.373E-09	2.274E-15	1.000E+00	1.697E-09	1.075E-09
OVARIES	8.879E-14	4.484E-11	9.406E-10	1.557E-15	1.000E+00	4.753E-09	3.187E-09
EDEWBODY	1.125E-13	5.666E-11	1.189E-09	1.968E-15	1.000E+00	5.948E-08	2.839E-09
THYROIDH	1.230E-13	6.219E-11	1.305E-09	2.159E-15	1.465E-10	1.615E-08	7.843E-10
ADRENALS	9.418E-14	4.749E-11	9.961E-10	1.649E-15	1.000E+00	2.990E-08	1.586E-09
BLAD WAL	9.354E-14	4.721E-11	9.904E-10	1.639E-15	1.000E+00	2.949E-09	1.771E-09
KIDNEYS	9.830E-14	4.959E-11	1.040E-09	1.722E-15	1.000E+00	1.557E-08	1.355E-09
LIVER	9.323E-14	4.703E-11	9.865E-10	1.633E-15	1.000E+00	3.352E-08	2.326E-09
PANCREAS	8.086E-14	4.073E-11	8.544E-10	1.414E-15	1.000E+00	3.179E-08	1.290E-09
SPLEEN	9.006E-14	4.548E-11	9.540E-10	1.579E-15	1.000E+00	2.701E-08	1.158E-09
THYMUS	1.040E-13	5.242E-11	1.100E-09	1.820E-15	1.000E+00	5.740E-08	8.999E-10

KR-85

STOMACH	7.674E-17	0.000E+00	0.000E+00	0.000E+00	6.757E-14	7.007E-14	0.000E+00
SMALL IN	6.881E-17	0.000E+00	0.000E+00	0.000E+00	6.781E-14	7.007E-14	0.000E+00
LUNGS	8.340E-17	0.000E+00	0.000E+00	0.000E+00	4.671E-13	4.708E-13	0.000E+00
RED MARR	8.562E-17	0.000E+00	0.000E+00	0.000E+00	6.808E-14	7.007E-14	0.000E+00
THYROID	1.037E-16	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.007E-14	0.000E+00
LOWER LI	7.484E-17	0.000E+00	0.000E+00	0.000E+00	6.781E-14	7.007E-14	0.000E+00
BONE SUR	9.767E-17	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.007E-14	0.000E+00
BREAST	1.037E-16	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.007E-14	0.000E+00
TESTES	1.123E-16	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.007E-14	0.000E+00
OVARIES	7.484E-17	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.007E-14	0.000E+00
EDEWBODY	2.315E-16	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.180E-13	0.000E+00
THYROIDH	1.037E-16	0.000E+00	0.000E+00	0.000E+00	6.689E-14	7.007E-14	0.000E+00
ADRENALS	8.245E-17	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.040E-14	0.000E+00
BLAD WAL	7.832E-17	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.007E-14	0.000E+00
KIDNEYS	8.118E-17	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.007E-14	0.000E+00
LIVER	7.769E-17	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.007E-14	0.000E+00
PANCREAS	6.691E-17	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.036E-14	0.000E+00
SPLEEN	7.610E-17	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.007E-14	0.000E+00
THYMUS	8.498E-17	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	7.036E-14	0.000E+00
KR-85M							
STOMACH	5.232E-15	0.000E+00	0.000E+00	0.000E+00	6.098E-14	6.101E-14	0.000E+00
SMALL IN	4.566E-15	0.000E+00	0.000E+00	0.000E+00	6.101E-14	6.104E-14	0.000E+00
LUNGS	5.771E-15	0.000E+00	0.000E+00	0.000E+00	4.804E-13	4.804E-13	0.000E+00
RED MARR	5.549E-15	0.000E+00	0.000E+00	0.000E+00	6.369E-14	6.372E-14	0.000E+00
THYROID	7.737E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.532E-14	0.000E+00
LOWER LI	5.105E-15	0.000E+00	0.000E+00	0.000E+00	5.912E-14	5.915E-14	0.000E+00
BONE SUR	8.467E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	6.103E-14	0.000E+00
BREAST	8.593E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.722E-14	0.000E+00
TESTES	7.959E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.514E-14	0.000E+00
OVARIES	4.630E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.995E-14	0.000E+00
EDEWBODY	7.222E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.110E-13	0.000E+00
THYROIDH	7.737E-15	0.000E+00	0.000E+00	0.000E+00	5.529E-14	5.532E-14	0.000E+00
ADRENALS	5.771E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	6.210E-14	0.000E+00
BLAD WAL	5.296E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.895E-14	0.000E+00
KIDNEYS	5.391E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.943E-14	0.000E+00
LIVER	5.264E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	6.070E-14	0.000E+00
PANCREAS	4.439E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	6.320E-14	0.000E+00
SPLEEN	5.264E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	6.100E-14	0.000E+00
THYMUS	6.088E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	6.447E-14	0.000E+00
KR-87							
STOMACH	3.161E-14	0.000E+00	0.000E+00	0.000E+00	2.218E-13	2.218E-13	0.000E+00
SMALL IN	2.946E-14	0.000E+00	0.000E+00	0.000E+00	2.210E-13	2.210E-13	0.000E+00
LUNGS	3.393E-14	0.000E+00	0.000E+00	0.000E+00	2.386E-12	2.386E-12	0.000E+00
RED MARR	3.456E-14	0.000E+00	0.000E+00	0.000E+00	2.179E-13	2.179E-13	0.000E+00
THYROID	4.091E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.149E-13	0.000E+00
LOWER LI	3.133E-14	0.000E+00	0.000E+00	0.000E+00	2.250E-13	2.250E-13	0.000E+00
BONE SUR	3.678E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.139E-13	0.000E+00
BREAST	4.091E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.139E-13	0.000E+00
TESTES	4.439E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.140E-13	0.000E+00
OVARIES	2.933E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.220E-13	0.000E+00
EDEWBODY	3.958E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	4.816E-13	0.000E+00
THYROIDH	4.091E-14	0.000E+00	0.000E+00	0.000E+00	2.149E-13	2.149E-13	0.000E+00
ADRENALS	3.203E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.288E-13	0.000E+00
BLAD WAL	3.203E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.180E-13	0.000E+00
KIDNEYS	3.425E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.189E-13	0.000E+00
LIVER	3.203E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.238E-13	0.000E+00
PANCREAS	2.800E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.348E-13	0.000E+00
SPLEEN	3.098E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.208E-13	0.000E+00
THYMUS	3.456E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.317E-13	0.000E+00
KR-88							
STOMACH	1.064E-13	0.000E+00	0.000E+00	0.000E+00	3.745E-13	3.745E-13	0.000E+00
SMALL IN	1.001E-13	0.000E+00	0.000E+00	0.000E+00	3.780E-13	3.780E-13	0.000E+00
LUNGS	1.140E-13	0.000E+00	0.000E+00	0.000E+00	4.218E-12	4.218E-12	0.000E+00

RED MARR	1.156E-13	0.000E+00	0.000E+00	0.000E+00	3.666E-13	3.666E-13	0.000E+00
THYROID	1.367E-13	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	3.538E-13	0.000E+00
LOWER LI	1.059E-13	0.000E+00	0.000E+00	0.000E+00	3.971E-13	3.972E-13	0.000E+00
BONE SUR	1.205E-13	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	3.508E-13	0.000E+00
BREAST	1.357E-13	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	3.556E-13	0.000E+00
TESTES	1.481E-13	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	3.512E-13	0.000E+00
OVARIES	9.881E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	3.890E-13	0.000E+00
EDEWBODY	9.850E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	8.454E-13	0.000E+00
THYROIDH	1.367E-13	0.000E+00	0.000E+00	0.000E+00	3.537E-13	3.538E-13	0.000E+00
ADRENALS	1.058E-13	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	4.045E-13	0.000E+00
BLAD WAL	1.081E-13	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	3.670E-13	0.000E+00
KIDNEYS	1.155E-13	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	3.648E-13	0.000E+00
LIVER	1.085E-13	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	3.852E-13	0.000E+00
PANCREAS	9.462E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	4.365E-13	0.000E+00
SPLEEN	1.040E-13	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	3.694E-13	0.000E+00
THYMUS	1.170E-13	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	4.148E-13	0.000E+00
RB-86							
STOMACH	3.488E-15	1.806E-12	3.361E-11	6.310E-17	3.020E-10	1.453E-09	2.912E-09
SMALL IN	3.203E-15	1.670E-12	3.108E-11	5.835E-17	2.042E-10	1.347E-09	2.163E-09
LUNGS	3.742E-15	1.951E-12	3.631E-11	6.818E-17	1.539E-09	3.298E-09	2.137E-09
RED MARR	3.805E-15	1.979E-12	3.682E-11	6.913E-17	8.078E-10	2.362E-09	3.789E-09
THYROID	4.725E-15	2.460E-12	4.577E-11	8.593E-17	-1.000E+00	1.333E-09	2.137E-09
LOWER LI	3.425E-15	1.788E-12	3.327E-11	6.247E-17	2.041E-10	1.349E-09	2.167E-09
BONE SUR	4.059E-15	2.115E-12	3.935E-11	7.388E-17	-1.000E+00	4.260E-09	6.841E-09
BREAST	4.439E-15	2.305E-12	4.290E-11	8.054E-17	-1.000E+00	1.336E-09	2.142E-09
TESTES	4.947E-15	2.578E-12	4.797E-11	9.006E-17	-1.000E+00	1.346E-09	2.160E-09
OVARIES	3.393E-15	1.770E-12	3.293E-11	6.183E-17	-1.000E+00	1.332E-09	2.137E-09
EDEWBODY	4.722E-15	3.909E-12	7.274E-11	1.366E-16	-1.000E+00	1.801E-09	2.545E-09
THYROIDH	4.725E-15	2.460E-12	4.577E-11	8.593E-17	2.497E-10	1.333E-09	2.137E-09
ADRENALS	3.615E-15	1.879E-12	3.496E-11	6.564E-17	-1.000E+00	1.360E-09	2.180E-09
BLAD WAL	3.552E-15	1.852E-12	3.445E-11	6.469E-17	-1.000E+00	1.357E-09	2.180E-09
KIDNEYS	3.742E-15	1.942E-12	3.614E-11	6.786E-17	-1.000E+00	1.353E-09	2.171E-09
LIVER	3.520E-15	1.842E-12	3.428E-11	6.437E-17	-1.000E+00	1.348E-09	2.161E-09
PANCREAS	3.057E-15	1.588E-12	2.956E-11	5.549E-17	-1.000E+00	1.339E-09	2.148E-09
SPLEEN	3.425E-15	1.779E-12	3.310E-11	6.215E-17	-1.000E+00	1.349E-09	2.164E-09
THYMUS	3.964E-15	2.069E-12	3.851E-11	7.230E-17	-1.000E+00	1.331E-09	2.130E-09
SR-89							
STOMACH	5.042E-18	2.743E-15	5.505E-14	9.545E-20	1.904E-10	5.510E-10	9.321E-10
SMALL IN	4.598E-18	2.497E-15	5.011E-14	8.689E-20	2.759E-10	6.284E-10	1.433E-09
LUNGS	5.422E-18	2.952E-15	5.925E-14	1.027E-19	1.302E-09	2.186E-09	2.584E-10
RED MARR	5.518E-18	2.998E-15	6.017E-14	1.043E-19	9.360E-10	5.651E-09	3.261E-09
THYROID	6.849E-18	3.727E-15	7.480E-14	1.297E-19	-1.000E+00	4.475E-10	2.584E-10
LOWER LI	4.947E-18	2.697E-15	5.413E-14	9.386E-20	1.980E-09	3.586E-09	2.063E-08
BONE SUR	5.961E-18	3.235E-15	6.492E-14	1.126E-19	-1.000E+00	8.355E-09	4.820E-09
BREAST	6.437E-18	3.508E-15	7.041E-14	1.221E-19	-1.000E+00	4.475E-10	2.584E-10
TESTES	7.198E-18	3.909E-15	7.846E-14	1.360E-19	-1.000E+00	4.475E-10	2.584E-10
OVARIES	4.947E-18	2.688E-15	5.395E-14	9.354E-20	-1.000E+00	4.476E-10	2.584E-10
EDEWBODY	3.796E-16	1.457E-12	2.924E-11	5.069E-17	-1.000E+00	1.787E-09	2.503E-09
THYROIDH	6.849E-18	3.727E-15	7.480E-14	1.297E-19	8.878E-11	4.475E-10	2.584E-10
ADRENALS	5.296E-18	2.870E-15	5.761E-14	9.989E-20	-1.000E+00	4.475E-10	2.584E-10
BLAD WAL	5.137E-18	2.788E-15	5.596E-14	9.703E-20	-1.000E+00	4.475E-10	2.584E-10
KIDNEYS	5.359E-18	2.925E-15	5.871E-14	1.018E-19	-1.000E+00	4.475E-10	2.584E-10
LIVER	5.105E-18	2.770E-15	5.560E-14	9.640E-20	-1.000E+00	4.475E-10	2.584E-10
PANCREAS	4.408E-18	2.396E-15	4.810E-14	8.340E-20	-1.000E+00	4.475E-10	2.584E-10
SPLEEN	4.947E-18	2.688E-15	5.395E-14	9.354E-20	-1.000E+00	4.475E-10	2.584E-10
THYMUS	5.740E-18	3.116E-15	6.255E-14	1.084E-19	-1.000E+00	4.475E-10	2.584E-10
SR-90							
STOMACH	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.219E-10	2.365E-09	1.570E-09
SMALL IN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.686E-10	2.402E-09	1.802E-09
LUNGS	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.993E-10	3.422E-09	1.333E-09
RED MARR	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.725E-09	3.051E-07	1.752E-07
THYROID	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.328E-09	1.333E-09
LOWER LI	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.611E-09	5.133E-09	1.943E-08

BONE SUR	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	6.758E-07	3.881E-07
BREAST	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.328E-09	1.333E-09
TESTES	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.328E-09	1.333E-09
OVARIES	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.328E-09	1.333E-09
EDEWBODY	9.537E-17	2.464E-13	3.113E-11	5.000E-18	-1.000E+00	5.919E-08	3.518E-08
THYROIDH	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.138E-10	2.328E-09	1.333E-09
ADRENALS	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.328E-09	1.333E-09
BLAD WAL	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.328E-09	1.333E-09
KIDNEYS	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.328E-09	1.333E-09
LIVER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.328E-09	1.333E-09
PANCREAS	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.328E-09	1.333E-09
SPLEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.328E-09	1.333E-09
THYMUS	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.328E-09	1.333E-09
SR-91							
STOMACH	3.581E-14	1.456E-11	3.424E-11	6.938E-16	1.653E-10	1.731E-10	8.625E-10
SMALL IN	3.254E-14	1.324E-11	3.112E-11	6.305E-16	2.333E-10	2.419E-10	1.353E-09
LUNGS	3.873E-14	1.575E-11	3.702E-11	7.501E-16	8.672E-10	9.243E-10	3.289E-11
RED MARR	3.936E-14	1.599E-11	3.760E-11	7.620E-16	7.944E-11	1.446E-10	1.233E-10
THYROID	4.869E-14	1.971E-11	4.633E-11	9.388E-16	-1.000E+00	4.434E-11	2.641E-11
LOWER LI	3.516E-14	1.425E-11	3.350E-11	6.787E-16	5.220E-10	6.234E-10	3.929E-09
BONE SUR	4.322E-14	1.756E-11	4.133E-11	8.375E-16	-1.000E+00	1.424E-10	9.812E-11
BREAST	4.662E-14	1.895E-11	4.458E-11	9.034E-16	-1.000E+00	4.814E-11	5.224E-11
TESTES	5.136E-14	2.089E-11	4.914E-11	9.957E-16	-1.000E+00	4.335E-11	4.141E-11
OVARIES	3.507E-14	1.425E-11	3.350E-11	6.787E-16	-1.000E+00	6.763E-11	2.120E-10
EDEWBODY	3.160E-14	1.404E-11	3.184E-11	6.435E-16	-1.000E+00	2.615E-10	6.790E-10
THYROIDH	4.869E-14	1.971E-11	4.633E-11	9.388E-16	3.583E-11	4.434E-11	2.641E-11
ADRENALS	3.780E-14	1.533E-11	3.606E-11	7.306E-16	-1.000E+00	5.668E-11	4.757E-11
BLAD WAL	3.649E-14	1.477E-11	3.473E-11	7.038E-16	-1.000E+00	5.018E-11	7.915E-11
KIDNEYS	3.812E-14	1.550E-11	3.643E-11	7.383E-16	-1.000E+00	5.182E-11	6.842E-11
LIVER	3.628E-14	1.474E-11	3.464E-11	7.019E-16	-1.000E+00	5.502E-11	5.657E-11
PANCREAS	3.132E-14	1.269E-11	2.982E-11	6.042E-16	-1.000E+00	5.801E-11	7.649E-11
SPLEEN	3.524E-14	1.429E-11	3.359E-11	6.806E-16	-1.000E+00	5.496E-11	6.127E-11
THYMUS	4.038E-14	1.640E-11	3.854E-11	7.810E-16	-1.000E+00	5.446E-11	2.799E-11
SR-92							
STOMACH	4.883E-14	1.157E-11	1.422E-11	8.403E-16	1.104E-10	1.108E-10	5.294E-10
SMALL IN	4.566E-14	1.081E-11	1.327E-11	7.864E-16	1.857E-10	1.861E-10	1.081E-09
LUNGS	5.264E-14	1.253E-11	1.539E-11	9.101E-16	7.104E-10	7.173E-10	1.948E-11
RED MARR	5.327E-14	1.266E-11	1.556E-11	9.196E-16	4.114E-11	4.213E-11	4.225E-11
THYROID	6.532E-14	1.556E-11	1.913E-11	1.129E-15	-1.000E+00	2.288E-11	1.418E-11
LOWER LI	4.852E-14	1.152E-11	1.415E-11	8.371E-16	3.252E-10	3.369E-10	2.179E-09
BONE SUR	5.644E-14	1.343E-11	1.653E-11	9.735E-16	-1.000E+00	5.591E-11	3.874E-11
BREAST	6.247E-14	1.481E-11	1.821E-11	1.075E-15	-1.000E+00	2.549E-11	2.743E-11
TESTES	6.913E-14	1.643E-11	2.020E-11	1.192E-15	-1.000E+00	2.176E-11	1.903E-11
OVARIES	4.725E-14	1.123E-11	1.381E-11	8.149E-16	-1.000E+00	3.134E-11	8.079E-11
EDEWBODY	6.019E-14	1.536E-11	1.953E-11	1.043E-15	-1.000E+00	1.741E-10	4.451E-10
THYROIDH	6.532E-14	1.556E-11	1.913E-11	1.129E-15	2.241E-11	2.288E-11	1.418E-11
ADRENALS	5.010E-14	1.190E-11	1.464E-11	8.625E-16	-1.000E+00	3.121E-11	3.012E-11
BLAD WAL	5.010E-14	1.187E-11	1.458E-11	8.625E-16	-1.000E+00	2.513E-11	3.645E-11
KIDNEYS	5.264E-14	1.248E-11	1.533E-11	9.069E-16	-1.000E+00	2.728E-11	3.953E-11
LIVER	4.978E-14	1.183E-11	1.453E-11	8.593E-16	-1.000E+00	2.922E-11	3.202E-11
PANCREAS	4.313E-14	1.025E-11	1.259E-11	7.452E-16	-1.000E+00	3.297E-11	5.902E-11
SPLEEN	4.820E-14	1.143E-11	1.405E-11	8.308E-16	-1.000E+00	2.953E-11	4.312E-11
THYMUS	5.518E-14	1.314E-11	1.615E-11	9.545E-16	-1.000E+00	3.174E-11	1.658E-11
Y-90							
STOMACH	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.745E-10	4.263E-10	1.060E-09
SMALL IN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.713E-10	1.022E-09	2.557E-09
LUNGS	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.311E-09	9.309E-09	1.264E-14
RED MARR	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.668E-12	1.507E-11	3.664E-13
THYROID	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.183E-13	1.264E-14
LOWER LI	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.544E-09	1.262E-08	3.145E-08
BONE SUR	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.507E-11	3.664E-13
BREAST	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.184E-13	1.268E-14
TESTES	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.183E-13	1.264E-14

OVARIES	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.191E-13	1.438E-14
EDEWBODY	6.308E-16	2.379E-12	2.404E-11	8.623E-17	-1.000E+00	2.281E-09	2.905E-09
THYROIDH	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.153E-13	5.183E-13	1.264E-14
ADRENALS	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.184E-13	1.264E-14
BLAD WAL	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.183E-13	1.264E-14
KIDNEYS	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.183E-13	1.264E-14
LIVER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.496E-11	3.655E-13
PANCREAS	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.183E-13	1.267E-14
SPLEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.184E-13	1.264E-14
THYMUS	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	5.183E-13	1.264E-14
Y-91							
STOMACH	1.316E-16	6.690E-14	1.351E-12	2.328E-18	2.740E-10	3.431E-10	6.914E-10
SMALL IN	1.224E-16	6.234E-14	1.259E-12	2.169E-18	6.656E-10	8.421E-10	1.737E-09
LUNGS	1.424E-16	7.246E-14	1.463E-12	2.521E-18	5.123E-09	9.836E-08	2.017E-13
RED MARR	1.436E-16	7.310E-14	1.476E-12	2.543E-18	2.798E-11	3.174E-10	6.562E-12
THYROID	1.782E-16	9.060E-14	1.830E-12	3.152E-18	-1.000E+00	8.479E-12	1.288E-13
LOWER LI	1.306E-16	6.644E-14	1.342E-12	2.312E-18	6.908E-09	1.455E-08	3.027E-08
BONE SUR	1.528E-16	7.765E-14	1.568E-12	2.702E-18	-1.000E+00	3.166E-10	6.108E-12
BREAST	1.677E-16	8.540E-14	1.725E-12	2.971E-18	-1.000E+00	8.908E-12	5.545E-13
TESTES	1.874E-16	9.570E-14	1.933E-12	3.330E-18	-1.000E+00	6.404E-12	4.137E-13
OVARIES	1.284E-16	6.535E-14	1.320E-12	2.274E-18	-1.000E+00	8.190E-12	3.532E-12
EDEWBODY	5.509E-16	1.594E-12	3.218E-11	5.544E-17	-1.000E+00	1.312E-08	2.571E-09
THYROIDH	1.782E-16	9.060E-14	1.830E-12	3.152E-18	6.243E-13	8.479E-12	1.288E-13
ADRENALS	1.360E-16	6.918E-14	1.397E-12	2.407E-18	-1.000E+00	1.054E-11	3.493E-13
BLAD WAL	1.348E-16	6.854E-14	1.384E-12	2.385E-18	-1.000E+00	6.908E-12	1.226E-12
KIDNEYS	1.417E-16	7.210E-14	1.456E-12	2.508E-18	-1.000E+00	8.469E-12	6.101E-13
LIVER	1.345E-16	6.836E-14	1.380E-12	2.378E-18	-1.000E+00	3.169E-10	6.164E-12
PANCREAS	1.164E-16	5.915E-14	1.195E-12	2.058E-18	-1.000E+00	1.076E-11	5.614E-13
SPLEEN	1.300E-16	6.608E-14	1.334E-12	2.299E-18	-1.000E+00	1.019E-11	5.062E-13
THYMUS	1.500E-16	7.638E-14	1.542E-12	2.657E-18	-1.000E+00	1.424E-11	1.538E-13
Y-92							
STOMACH	9.228E-15	2.473E-12	3.125E-12	1.700E-16	1.703E-10	1.705E-10	1.420E-09
SMALL IN	8.498E-15	2.274E-12	2.875E-12	1.563E-16	2.382E-10	2.390E-10	2.000E-09
LUNGS	9.989E-15	2.671E-12	3.376E-12	1.836E-16	1.242E-09	1.249E-09	1.393E-12
RED MARR	1.012E-14	2.708E-12	3.423E-12	1.861E-16	2.061E-12	2.079E-12	4.930E-12
THYROID	1.249E-14	3.344E-12	4.227E-12	2.299E-16	-1.000E+00	1.054E-12	1.776E-13
LOWER LI	9.132E-15	2.440E-12	3.084E-12	1.677E-16	1.959E-10	2.090E-10	1.749E-09
BONE SUR	1.088E-14	2.920E-12	3.691E-12	2.007E-16	-1.000E+00	1.512E-12	1.754E-12
BREAST	1.186E-14	3.178E-12	4.017E-12	2.185E-16	-1.000E+00	1.503E-12	3.564E-12
TESTES	1.316E-14	3.529E-12	4.460E-12	2.426E-16	-1.000E+00	3.494E-13	1.399E-12
OVARIES	9.006E-15	2.413E-12	3.049E-12	1.658E-16	-1.000E+00	2.628E-12	1.971E-11
EDEWBODY	1.238E-14	5.018E-12	6.342E-12	3.449E-16	-1.000E+00	2.125E-10	5.153E-10
THYROIDH	1.249E-14	3.344E-12	4.227E-12	2.299E-16	1.049E-12	1.054E-12	1.776E-13
ADRENALS	9.608E-15	2.579E-12	3.259E-12	1.773E-16	-1.000E+00	2.121E-12	3.140E-12
BLAD WAL	9.418E-15	2.523E-12	3.189E-12	1.735E-16	-1.000E+00	8.910E-13	5.595E-12
KIDNEYS	9.894E-15	2.648E-12	3.347E-12	1.820E-16	-1.000E+00	1.660E-12	6.531E-12
LIVER	9.386E-15	2.514E-12	3.178E-12	1.728E-16	-1.000E+00	2.822E-12	4.555E-12
PANCREAS	8.118E-15	2.173E-12	2.746E-12	1.494E-16	-1.000E+00	2.998E-12	1.001E-11
SPLEEN	9.069E-15	2.431E-12	3.073E-12	1.671E-16	-1.000E+00	2.381E-12	6.467E-12
THYMUS	1.046E-14	2.805E-12	3.545E-12	1.928E-16	-1.000E+00	3.113E-12	5.906E-13
Y-93							
STOMACH	3.361E-15	1.321E-12	3.127E-12	5.961E-17	2.810E-10	2.896E-10	1.280E-09
SMALL IN	3.127E-15	1.223E-12	2.895E-12	5.518E-17	5.455E-10	5.711E-10	2.524E-09
LUNGS	3.647E-15	1.427E-12	3.377E-12	6.437E-17	2.176E-09	2.524E-09	8.661E-13
RED MARR	3.710E-15	1.448E-12	3.427E-12	6.532E-17	3.495E-12	4.018E-12	4.936E-12
THYROID	4.503E-15	1.771E-12	4.192E-12	7.991E-17	-1.000E+00	9.250E-13	1.259E-13
LOWER LI	3.361E-15	1.307E-12	3.094E-12	5.898E-17	1.398E-09	1.997E-09	8.844E-09
BONE SUR	4.059E-15	1.602E-12	3.793E-12	7.230E-17	-1.000E+00	3.134E-12	1.726E-12
BREAST	4.439E-15	1.757E-12	4.159E-12	7.927E-17	-1.000E+00	1.742E-12	3.121E-12
TESTES	4.788E-15	1.883E-12	4.458E-12	8.498E-17	-1.000E+00	6.650E-13	1.777E-12
OVARIES	3.203E-15	1.251E-12	2.961E-12	5.644E-17	-1.000E+00	5.307E-12	2.194E-11
EDEWBODY	4.977E-15	4.053E-12	9.594E-12	1.829E-16	-1.000E+00	5.829E-10	1.232E-09
THYROIDH	4.503E-15	1.771E-12	4.192E-12	7.991E-17	8.313E-13	9.250E-13	1.259E-13

ADRENALS	3.488E-15	1.370E-12	3.244E-12	6.183E-17	-1.000E+00	1.925E-12	2.236E-12
BLAD WAL	3.425E-15	1.342E-12	3.177E-12	6.057E-17	-1.000E+00	1.760E-12	6.438E-12
KIDNEYS	3.615E-15	1.413E-12	3.344E-12	6.374E-17	-1.000E+00	1.889E-12	4.753E-12
LIVER	3.425E-15	1.342E-12	3.177E-12	6.057E-17	-1.000E+00	4.347E-12	3.509E-12
PANCREAS	2.978E-15	1.167E-12	2.761E-12	5.264E-17	-1.000E+00	2.910E-12	5.681E-12
SPLEEN	3.330E-15	1.300E-12	3.078E-12	5.866E-17	-1.000E+00	2.392E-12	3.867E-12
THYMUS	3.773E-15	1.476E-12	3.493E-12	6.659E-17	-1.000E+00	2.786E-12	3.613E-13
ZR-95							
STOMACH	2.660E-14	1.509E-11	3.258E-10	5.232E-16	1.541E-10	1.085E-09	3.568E-10
SMALL IN	2.407E-14	1.363E-11	2.943E-10	4.725E-16	3.296E-10	9.802E-10	1.119E-09
LUNGS	2.876E-14	1.628E-11	3.516E-10	5.644E-16	1.137E-09	1.843E-08	2.342E-11
RED MARR	2.924E-14	1.656E-11	3.575E-10	5.740E-16	2.845E-10	3.207E-09	2.135E-10
THYROID	3.615E-14	2.049E-11	4.425E-10	7.103E-16	-1.000E+00	7.790E-10	8.238E-12
LOWER LI	2.607E-14	1.473E-11	3.181E-10	5.105E-16	1.573E-09	4.164E-09	7.778E-09
BONE SUR	3.203E-14	1.811E-11	3.910E-10	6.279E-16	-1.000E+00	2.172E-08	4.860E-10
BREAST	3.456E-14	1.948E-11	4.207E-10	6.754E-16	-1.000E+00	9.280E-10	1.047E-10
TESTES	3.837E-14	2.159E-11	4.661E-10	7.484E-16	-1.000E+00	3.023E-10	8.032E-11
OVARIES	2.616E-14	1.482E-11	3.199E-10	5.137E-16	-1.000E+00	8.361E-10	8.153E-10
EDEWBODY	3.299E-14	1.873E-11	4.043E-10	6.493E-16	-1.000E+00	4.327E-09	1.027E-09
THYROIDH	3.615E-14	2.049E-11	4.425E-10	7.103E-16	6.141E-11	7.790E-10	8.238E-12
ADRENALS	2.816E-14	1.592E-11	3.437E-10	5.518E-16	-1.000E+00	1.520E-09	6.083E-11
BLAD WAL	2.708E-14	1.528E-11	3.299E-10	5.296E-16	-1.000E+00	3.793E-10	2.436E-10
KIDNEYS	2.825E-14	1.601E-11	3.457E-10	5.549E-16	-1.000E+00	8.129E-10	1.131E-10
LIVER	2.689E-14	1.518E-11	3.279E-10	5.264E-16	-1.000E+00	1.172E-09	7.775E-11
PANCREAS	2.318E-14	1.308E-11	2.825E-10	4.535E-16	-1.000E+00	1.302E-09	1.044E-10
SPLEEN	2.613E-14	1.482E-11	3.199E-10	5.137E-16	-1.000E+00	1.150E-09	8.833E-11
THYMUS	3.003E-14	1.701E-11	3.673E-10	5.898E-16	-1.000E+00	1.718E-09	1.300E-11
ZR-97							
STOMACH	5.527E-14	2.431E-11	9.498E-11	1.083E-15	3.772E-10	4.175E-10	1.213E-09
SMALL IN	5.004E-14	2.202E-11	8.599E-11	9.807E-16	7.834E-10	8.857E-10	3.389E-09
LUNGS	5.975E-14	2.626E-11	1.026E-10	1.170E-15	2.789E-09	3.957E-09	1.759E-11
RED MARR	6.084E-14	2.673E-11	1.044E-10	1.191E-15	1.079E-10	1.396E-10	1.297E-10
THYROID	7.481E-14	3.301E-11	1.290E-10	1.471E-15	-1.000E+00	3.744E-11	2.662E-12
LOWER LI	5.419E-14	2.387E-11	9.324E-11	1.063E-15	2.609E-09	4.271E-09	1.795E-08
BONE SUR	6.691E-14	2.949E-11	1.153E-10	1.315E-15	-1.000E+00	1.217E-10	4.538E-11
BREAST	7.210E-14	3.172E-11	1.240E-10	1.414E-15	-1.000E+00	5.790E-11	8.094E-11
TESTES	7.937E-14	3.496E-11	1.366E-10	1.558E-15	-1.000E+00	2.986E-11	5.200E-11
OVARIES	5.415E-14	2.380E-11	9.302E-11	1.061E-15	-1.000E+00	1.696E-10	6.219E-10
EDEWBODY	8.623E-15	5.200E-12	1.857E-11	2.118E-16	-1.000E+00	1.067E-09	2.288E-09
THYROIDH	7.481E-14	3.301E-11	1.290E-10	1.471E-15	2.788E-11	3.744E-11	2.662E-12
ADRENALS	5.848E-14	2.575E-11	1.006E-10	1.147E-15	-1.000E+00	7.040E-11	4.879E-11
BLAD WAL	5.623E-14	2.478E-11	9.682E-11	1.104E-15	-1.000E+00	6.089E-11	1.748E-10
KIDNEYS	5.870E-14	2.582E-11	1.009E-10	1.150E-15	-1.000E+00	6.149E-11	1.103E-10
LIVER	5.595E-14	2.463E-11	9.625E-11	1.098E-15	-1.000E+00	7.471E-11	7.952E-11
PANCREAS	4.822E-14	2.121E-11	8.288E-11	9.452E-16	-1.000E+00	8.662E-11	1.071E-10
SPLEEN	5.431E-14	2.386E-11	9.321E-11	1.063E-15	-1.000E+00	7.261E-11	7.999E-11
THYMUS	6.216E-14	2.735E-11	1.068E-10	1.218E-15	-1.000E+00	8.028E-11	7.520E-12
NB-95							
STOMACH	2.778E-14	1.557E-11	3.063E-10	5.422E-16	1.287E-10	6.362E-10	2.796E-10
SMALL IN	2.515E-14	1.411E-11	2.776E-10	4.915E-16	2.838E-10	5.201E-10	9.116E-10
LUNGS	3.000E-14	1.684E-11	3.314E-10	5.866E-16	5.701E-10	8.319E-09	2.743E-11
RED MARR	3.051E-14	1.711E-11	3.367E-10	5.961E-16	1.212E-10	4.425E-10	1.993E-10
THYROID	3.773E-14	2.121E-11	4.173E-10	7.388E-16	-1.000E+00	3.582E-10	1.184E-11
LOWER LI	2.724E-14	1.529E-11	3.009E-10	5.327E-16	9.234E-10	1.928E-09	4.009E-09
BONE SUR	3.330E-14	1.866E-11	3.672E-10	6.501E-16	-1.000E+00	5.161E-10	2.965E-10
BREAST	3.583E-14	2.012E-11	3.959E-10	7.008E-16	-1.000E+00	4.062E-10	1.074E-10
TESTES	3.995E-14	2.230E-11	4.388E-10	7.769E-16	-1.000E+00	6.507E-11	9.664E-11
OVARIES	2.730E-14	1.529E-11	3.009E-10	5.327E-16	-1.000E+00	4.310E-10	8.030E-10
EDEWBODY	3.449E-14	1.937E-11	3.812E-10	6.748E-16	-1.000E+00	1.652E-09	7.029E-10
THYROIDH	3.773E-14	2.121E-11	4.173E-10	7.388E-16	4.278E-11	3.582E-10	1.184E-11
ADRENALS	2.936E-14	1.648E-11	3.242E-10	5.740E-16	-1.000E+00	6.735E-10	6.784E-11
BLAD WAL	2.825E-14	1.584E-11	3.117E-10	5.518E-16	-1.000E+00	1.420E-10	2.422E-10
KIDNEYS	2.952E-14	1.657E-11	3.260E-10	5.771E-16	-1.000E+00	3.477E-10	1.372E-10

LIVER	2.806E-14	1.575E-11	3.099E-10	5.486E-16	-1.000E+00	6.682E-10	8.282E-11
PANCREAS	2.423E-14	1.356E-11	2.669E-10	4.725E-16	-1.000E+00	7.112E-10	1.116E-10
SPLEEN	2.727E-14	1.529E-11	3.009E-10	5.327E-16	-1.000E+00	6.367E-10	1.124E-10
THYMUS	3.139E-14	1.757E-11	3.457E-10	6.120E-16	-1.000E+00	1.049E-09	1.649E-11
MO-99							
STOMACH	5.518E-15	3.820E-12	5.368E-11	1.100E-16	1.894E-10	2.325E-10	5.135E-10
SMALL IN	4.978E-15	3.408E-12	4.751E-11	9.894E-17	4.221E-10	5.189E-10	1.249E-09
LUNGS	5.993E-15	4.163E-12	5.884E-11	1.192E-16	1.482E-09	4.292E-09	1.506E-11
RED MARR	6.057E-15	4.111E-12	5.687E-11	1.202E-16	3.096E-11	5.074E-11	7.972E-11
THYROID	7.579E-15	5.376E-12	7.737E-11	1.513E-16	-1.000E+00	1.516E-11	1.034E-11
LOWER LI	5.422E-15	3.740E-12	5.251E-11	1.078E-16	2.860E-09	5.516E-09	1.367E-08
BONE SUR	6.913E-15	5.189E-12	7.849E-11	1.386E-16	-1.000E+00	4.290E-11	6.669E-11
BREAST	7.388E-15	5.483E-12	8.176E-11	1.487E-16	-1.000E+00	2.748E-11	3.422E-11
TESTES	7.991E-15	5.622E-12	8.026E-11	1.595E-16	-1.000E+00	1.220E-11	2.719E-11
OVARIES	5.359E-15	3.624E-12	4.983E-11	1.065E-16	-1.000E+00	9.503E-11	2.174E-10
EDEWBODY	7.164E-15	5.694E-12	7.867E-11	1.667E-16	-1.000E+00	1.075E-09	1.362E-09
THYROIDH	7.579E-15	5.376E-12	7.737E-11	1.513E-16	5.884E-12	1.516E-11	1.034E-11
ADRENALS	5.866E-15	4.088E-12	5.783E-11	1.170E-16	-1.000E+00	3.522E-11	2.532E-11
BLAD WAL	5.613E-15	3.880E-12	5.445E-11	1.119E-16	-1.000E+00	3.284E-11	7.464E-11
KIDNEYS	5.866E-15	4.017E-12	5.610E-11	1.164E-16	-1.000E+00	9.326E-11	1.768E-10
LIVER	5.581E-15	3.854E-12	5.418E-11	1.110E-16	-1.000E+00	1.085E-10	1.792E-10
PANCREAS	4.788E-15	3.290E-12	4.590E-11	9.545E-17	-1.000E+00	4.179E-11	3.837E-11
SPLEEN	5.422E-15	3.773E-12	5.329E-11	1.081E-16	-1.000E+00	3.511E-11	3.096E-11
THYMUS	6.247E-15	4.376E-12	6.223E-11	1.246E-16	-1.000E+00	4.388E-11	1.217E-11
TC-99M							
STOMACH	4.154E-15	1.731E-12	2.875E-12	9.196E-17	1.437E-11	1.519E-11	7.169E-11
SMALL IN	3.583E-15	1.498E-12	2.489E-12	7.959E-17	3.397E-12	3.520E-12	2.227E-11
LUNGS	4.598E-15	1.928E-12	3.203E-12	1.024E-16	2.918E-11	3.061E-11	3.151E-12
RED MARR	4.217E-15	1.755E-12	2.915E-12	9.323E-17	2.296E-12	2.389E-12	6.273E-12
THYROID	6.342E-15	2.656E-12	4.412E-12	1.411E-16	-1.000E+00	2.088E-11	8.449E-11
LOWER LI	4.027E-15	1.689E-12	2.806E-12	8.974E-17	3.371E-12	3.834E-12	2.545E-11
BONE SUR	7.230E-15	3.020E-12	5.017E-12	1.605E-16	-1.000E+00	1.784E-12	4.064E-12
BREAST	7.230E-15	3.050E-12	5.067E-12	1.620E-16	-1.000E+00	1.520E-12	3.563E-12
TESTES	6.437E-15	2.698E-12	4.482E-12	1.433E-16	-1.000E+00	5.222E-13	2.294E-12
OVARIES	3.615E-15	1.510E-12	2.509E-12	8.023E-17	-1.000E+00	1.703E-12	9.738E-12
EDEWBODY	5.729E-15	2.418E-12	4.017E-12	1.285E-16	-1.000E+00	7.451E-12	1.673E-11
THYROIDH	6.342E-15	2.656E-12	4.412E-12	1.411E-16	1.968E-11	2.088E-11	8.449E-11
ADRENALS	4.535E-15	1.898E-12	3.153E-12	1.008E-16	-1.000E+00	2.547E-12	4.324E-12
BLAD WAL	4.186E-15	1.749E-12	2.905E-12	9.291E-17	-1.000E+00	9.250E-13	4.537E-12
KIDNEYS	4.249E-15	1.778E-12	2.955E-12	9.450E-17	-1.000E+00	1.545E-12	5.215E-12
LIVER	4.186E-15	1.749E-12	2.905E-12	9.291E-17	-1.000E+00	2.481E-12	4.713E-12
PANCREAS	3.456E-15	1.450E-12	2.409E-12	7.706E-17	-1.000E+00	3.589E-12	1.063E-11
SPLEEN	4.186E-15	1.743E-12	2.895E-12	9.259E-17	-1.000E+00	2.774E-12	7.043E-12
THYMUS	4.947E-15	2.071E-12	3.441E-12	1.100E-16	-1.000E+00	3.373E-12	3.085E-12
RU-103							
STOMACH	1.662E-14	9.838E-12	1.950E-10	3.426E-16	1.212E-10	5.047E-10	3.143E-10
SMALL IN	1.487E-14	8.816E-12	1.747E-10	3.070E-16	2.683E-10	4.713E-10	8.509E-10
LUNGS	1.808E-14	1.075E-11	2.131E-10	3.745E-16	9.950E-10	1.560E-08	7.350E-11
RED MARR	1.849E-14	1.093E-11	2.166E-10	3.806E-16	8.176E-11	3.183E-10	1.666E-10
THYROID	2.246E-14	1.331E-11	2.638E-10	4.635E-16	-1.000E+00	2.564E-10	6.289E-11
LOWER LI	1.624E-14	9.656E-12	1.914E-10	3.363E-16	1.489E-09	3.135E-09	6.534E-09
BONE SUR	2.119E-14	1.258E-11	2.493E-10	4.381E-16	-1.000E+00	2.371E-10	9.661E-11
BREAST	2.257E-14	1.346E-11	2.671E-10	4.694E-16	-1.000E+00	3.103E-10	1.200E-10
TESTES	2.427E-14	1.442E-11	2.859E-10	5.023E-16	-1.000E+00	6.971E-11	1.220E-10
OVARIES	1.614E-14	9.565E-12	1.896E-10	3.331E-16	-1.000E+00	3.070E-10	5.712E-10
EDEWBODY	2.107E-14	1.249E-11	2.476E-10	4.351E-16	-1.000E+00	2.485E-09	8.278E-10
THYROIDH	2.246E-14	1.331E-11	2.638E-10	4.635E-16	2.856E-11	2.564E-10	6.289E-11
ADRENALS	1.785E-14	1.057E-11	2.095E-10	3.681E-16	-1.000E+00	5.083E-10	1.110E-10
BLAD WAL	1.693E-14	1.002E-11	1.986E-10	3.489E-16	-1.000E+00	1.257E-10	2.206E-10
KIDNEYS	1.757E-14	1.039E-11	2.059E-10	3.618E-16	-1.000E+00	2.618E-10	1.314E-10
LIVER	1.684E-14	1.002E-11	1.986E-10	3.489E-16	-1.000E+00	4.979E-10	1.125E-10
PANCREAS	1.449E-14	8.590E-12	1.702E-10	2.992E-16	-1.000E+00	5.788E-10	1.284E-10
SPLEEN	1.646E-14	9.747E-12	1.932E-10	3.394E-16	-1.000E+00	4.538E-10	1.179E-10

THYMUS	1.836E-14	1.084E-11	2.148E-10	3.775E-16	-1.000E+00	7.098E-10	6.768E-11
RU-105							
STOMACH	2.784E-14	9.261E-12	1.410E-11	5.581E-16	7.924E-11	8.095E-11	4.980E-10
SMALL IN	2.511E-14	8.313E-12	1.265E-11	5.010E-16	1.205E-10	1.248E-10	7.898E-10
LUNGS	3.019E-14	9.999E-12	1.525E-11	6.025E-16	4.975E-10	5.725E-10	6.210E-12
RED MARR	3.076E-14	1.021E-11	1.558E-11	6.152E-16	7.221E-12	7.688E-12	2.340E-11
THYROID	3.805E-14	1.258E-11	1.919E-11	7.579E-16	-1.000E+00	4.145E-12	1.813E-12
LOWER LI	2.727E-14	9.051E-12	1.379E-11	5.454E-16	2.058E-10	3.048E-10	1.339E-09
BONE SUR	3.456E-14	1.154E-11	1.775E-11	6.944E-16	-1.000E+00	4.616E-12	8.893E-12
BREAST	3.710E-14	1.232E-11	1.893E-11	7.420E-16	-1.000E+00	6.609E-12	1.591E-11
TESTES	4.027E-14	1.337E-11	2.040E-11	8.054E-16	-1.000E+00	1.523E-12	7.596E-12
OVARIES	2.714E-14	8.994E-12	1.365E-11	5.422E-16	-1.000E+00	1.590E-11	9.669E-11
EDEWBODY	3.519E-14	1.210E-11	1.848E-11	7.292E-16	-1.000E+00	1.235E-10	2.868E-10
THYROIDH	3.805E-14	1.258E-11	1.919E-11	7.579E-16	3.876E-12	4.145E-12	1.813E-12
ADRENALS	2.968E-14	9.843E-12	1.503E-11	5.930E-16	-1.000E+00	9.363E-12	1.291E-11
BLAD WAL	2.835E-14	9.419E-12	1.434E-11	5.676E-16	-1.000E+00	4.741E-12	2.709E-11
KIDNEYS	2.952E-14	9.786E-12	1.490E-11	5.898E-16	-1.000E+00	7.240E-12	2.693E-11
LIVER	2.816E-14	9.366E-12	1.427E-11	5.644E-16	-1.000E+00	1.020E-11	1.917E-11
PANCREAS	2.429E-14	8.051E-12	1.227E-11	4.852E-16	-1.000E+00	1.352E-11	3.844E-11
SPLEEN	2.746E-14	9.105E-12	1.389E-11	5.486E-16	-1.000E+00	1.038E-11	2.502E-11
THYMUS	3.127E-14	1.037E-11	1.579E-11	6.247E-16	-1.000E+00	1.223E-11	3.022E-12
RU-106							
STOMACH	7.293E-15	4.175E-12	8.726E-11	1.452E-16	6.984E-10	2.938E-09	3.119E-09
SMALL IN	6.564E-15	3.765E-12	7.869E-11	1.310E-16	1.589E-09	3.397E-09	5.548E-09
LUNGS	7.896E-15	4.531E-12	9.469E-11	1.576E-16	2.088E-08	1.037E-06	1.435E-09
RED MARR	8.054E-15	4.622E-12	9.660E-11	1.608E-16	8.744E-11	1.770E-09	1.483E-09
THYROID	9.862E-15	5.652E-12	1.181E-10	1.966E-16	-1.000E+00	1.733E-09	1.432E-09
LOWER LI	7.135E-15	4.093E-12	8.555E-11	1.424E-16	1.604E-08	3.713E-08	7.087E-08
BONE SUR	9.037E-15	5.187E-12	1.084E-10	1.804E-16	-1.000E+00	1.620E-09	1.445E-09
BREAST	9.672E-15	5.552E-12	1.160E-10	1.931E-16	-1.000E+00	1.798E-09	1.457E-09
TESTES	1.056E-14	6.053E-12	1.265E-10	2.106E-16	-1.000E+00	1.154E-09	1.474E-09
OVARIES	7.103E-15	4.075E-12	8.517E-11	1.417E-16	-1.000E+00	1.308E-09	1.656E-09
EDEWBODY	1.010E-14	9.017E-12	1.885E-10	3.137E-16	-1.000E+00	1.289E-07	7.419E-09
THYROIDH	9.862E-15	5.652E-12	1.181E-10	1.966E-16	4.022E-11	1.733E-09	1.432E-09
ADRENALS	7.737E-15	4.449E-12	9.298E-11	1.547E-16	-1.000E+00	2.352E-09	1.478E-09
BLAD WAL	7.420E-15	4.257E-12	8.898E-11	1.481E-16	-1.000E+00	1.202E-09	1.518E-09
KIDNEYS	7.737E-15	4.431E-12	9.260E-11	1.541E-16	-1.000E+00	1.659E-09	1.471E-09
LIVER	7.388E-15	4.230E-12	8.841E-11	1.471E-16	-1.000E+00	2.320E-09	1.463E-09
PANCREAS	6.374E-15	3.647E-12	7.621E-11	1.268E-16	-1.000E+00	2.469E-09	1.470E-09
SPLEEN	7.198E-15	4.121E-12	8.612E-11	1.433E-16	-1.000E+00	2.205E-09	1.465E-09
THYMUS	8.118E-15	4.658E-12	9.736E-11	1.620E-16	-1.000E+00	3.012E-09	1.433E-09
RH-105							
STOMACH	2.600E-15	1.488E-12	9.870E-12	5.581E-17	6.353E-11	7.262E-11	1.946E-10
SMALL IN	2.315E-15	1.327E-12	8.804E-12	4.978E-17	1.353E-10	1.578E-10	4.427E-10
LUNGS	2.841E-15	1.631E-12	1.082E-11	6.120E-17	4.797E-10	9.509E-10	3.847E-12
RED MARR	2.936E-15	1.682E-12	1.116E-11	6.310E-17	5.385E-12	7.746E-12	1.463E-11
THYROID	3.615E-15	2.071E-12	1.374E-11	7.769E-17	-1.000E+00	2.878E-12	2.894E-12
LOWER LI	2.556E-15	1.462E-12	9.701E-12	5.486E-17	7.389E-10	1.347E-09	3.781E-09
BONE SUR	3.647E-15	2.088E-12	1.385E-11	7.832E-17	-1.000E+00	4.441E-12	6.731E-12
BREAST	3.805E-15	2.189E-12	1.452E-11	8.213E-17	-1.000E+00	5.592E-12	8.959E-12
TESTES	3.837E-15	2.206E-12	1.464E-11	8.276E-17	-1.000E+00	2.827E-12	7.209E-12
OVARIES	2.416E-15	1.386E-12	9.197E-12	5.200E-17	-1.000E+00	2.105E-11	5.798E-11
EDEWBODY	3.449E-15	2.012E-12	1.335E-11	7.546E-17	-1.000E+00	2.573E-10	3.980E-10
THYROIDH	3.615E-15	2.071E-12	1.374E-11	7.769E-17	1.432E-12	2.878E-12	2.894E-12
ADRENALS	2.867E-15	1.640E-12	1.088E-11	6.152E-17	-1.000E+00	6.571E-12	6.355E-12
BLAD WAL	2.645E-15	1.513E-12	1.004E-11	5.676E-17	-1.000E+00	6.923E-12	1.848E-11
KIDNEYS	2.730E-15	1.564E-12	1.037E-11	5.866E-17	-1.000E+00	5.588E-12	1.061E-11
LIVER	2.632E-15	1.513E-12	1.004E-11	5.676E-17	-1.000E+00	7.243E-12	8.362E-12
PANCREAS	2.274E-15	1.302E-12	8.636E-12	4.883E-17	-1.000E+00	8.571E-12	1.120E-11
SPLEEN	2.600E-15	1.496E-12	9.926E-12	5.613E-17	-1.000E+00	7.013E-12	8.663E-12
THYMUS	2.901E-15	1.665E-12	1.105E-11	6.247E-17	-1.000E+00	7.812E-12	3.404E-12
SB-127							
STOMACH	2.337E-14	1.314E-11	1.623E-10	4.693E-16	2.278E-10	3.267E-10	5.597E-10

SMALL IN	2.106E-14	1.181E-11	1.459E-10	4.217E-16	5.199E-10	7.090E-10	1.630E-09
LUNGS	2.534E-14	1.420E-11	1.755E-10	5.074E-16	1.712E-09	6.915E-09	1.574E-11
RED MARR	2.584E-14	1.456E-11	1.799E-10	5.200E-16	9.334E-11	1.547E-10	1.317E-10
THYROID	3.171E-14	1.784E-11	2.205E-10	6.374E-16	-1.000E+00	6.144E-11	4.642E-12
LOWER LI	2.289E-14	1.287E-11	1.590E-10	4.598E-16	3.663E-09	7.432E-09	1.959E-08
BONE SUR	2.908E-14	1.634E-11	2.019E-10	5.835E-16	-1.000E+00	1.331E-10	5.225E-11
BREAST	3.111E-14	1.749E-11	2.161E-10	6.247E-16	-1.000E+00	9.102E-11	7.574E-11
TESTES	3.393E-14	1.909E-11	2.358E-10	6.818E-16	-1.000E+00	4.588E-11	5.894E-11
OVARIES	2.280E-14	1.278E-11	1.579E-10	4.566E-16	-1.000E+00	2.521E-10	6.148E-10
EDEWBODY	2.951E-14	1.702E-11	2.093E-10	6.088E-16	-1.000E+00	1.633E-09	1.948E-09
THYROIDH	3.171E-14	1.784E-11	2.205E-10	6.374E-16	2.443E-11	6.144E-11	4.642E-12
ADRENALS	2.492E-14	1.403E-11	1.733E-10	5.010E-16	-1.000E+00	1.174E-10	4.134E-11
BLAD WAL	2.381E-14	1.340E-11	1.656E-10	4.788E-16	-1.000E+00	9.275E-11	1.816E-10
KIDNEYS	2.480E-14	1.394E-11	1.722E-10	4.978E-16	-1.000E+00	8.862E-11	8.715E-11
LIVER	2.366E-14	1.332E-11	1.645E-10	4.757E-16	-1.000E+00	2.120E-10	7.334E-11
PANCREAS	2.039E-14	1.145E-11	1.415E-10	4.091E-16	-1.000E+00	1.353E-10	8.400E-11
SPLEEN	2.305E-14	1.296E-11	1.601E-10	4.630E-16	-1.000E+00	1.139E-10	6.691E-11
THYMUS	2.619E-14	1.474E-11	1.820E-10	5.264E-16	-1.000E+00	1.416E-10	8.271E-12
SB-129							
STOMACH	5.264E-14	1.651E-11	2.316E-11	9.830E-16	1.226E-10	1.235E-10	7.245E-10
SMALL IN	4.820E-14	1.512E-11	2.120E-11	9.006E-16	1.888E-10	1.912E-10	1.473E-09
LUNGS	5.676E-14	1.785E-11	2.503E-11	1.062E-15	8.357E-10	8.954E-10	9.379E-12
RED MARR	5.771E-14	1.811E-11	2.540E-11	1.078E-15	1.608E-11	1.654E-11	3.661E-11
THYROID	7.103E-14	2.233E-11	3.132E-11	1.329E-15	-1.000E+00	9.720E-12	1.464E-12
LOWER LI	5.169E-14	1.624E-11	2.278E-11	9.672E-16	2.014E-10	2.321E-10	1.929E-09
BONE SUR	6.247E-14	1.970E-11	2.764E-11	1.170E-15	-1.000E+00	1.481E-11	1.332E-11
BREAST	6.786E-14	2.143E-11	3.008E-11	1.272E-15	-1.000E+00	1.281E-11	2.560E-11
TESTES	7.515E-14	2.363E-11	3.315E-11	1.405E-15	-1.000E+00	5.415E-12	1.105E-11
OVARIES	5.137E-14	1.608E-11	2.255E-11	9.576E-16	-1.000E+00	2.148E-11	1.514E-10
EDEWBODY	6.528E-14	2.129E-11	2.998E-11	1.238E-15	-1.000E+00	1.740E-10	4.830E-10
THYROIDH	7.103E-14	2.233E-11	3.132E-11	1.329E-15	9.521E-12	9.720E-12	1.464E-12
ADRENALS	5.486E-14	1.727E-11	2.422E-11	1.027E-15	-1.000E+00	1.733E-11	2.138E-11
BLAD WAL	5.359E-14	1.683E-11	2.361E-11	1.002E-15	-1.000E+00	9.313E-12	4.238E-11
KIDNEYS	5.613E-14	1.763E-11	2.473E-11	1.050E-15	-1.000E+00	1.389E-11	4.516E-11
LIVER	5.327E-14	1.672E-11	2.345E-11	9.957E-16	-1.000E+00	2.419E-11	3.242E-11
PANCREAS	4.598E-14	1.448E-11	2.031E-11	8.625E-16	-1.000E+00	2.243E-11	6.457E-11
SPLEEN	5.169E-14	1.624E-11	2.278E-11	9.672E-16	-1.000E+00	1.851E-11	4.188E-11
THYMUS	5.930E-14	1.864E-11	2.614E-11	1.110E-15	-1.000E+00	2.298E-11	4.010E-12
TE-127							
STOMACH	1.639E-16	7.509E-14	1.679E-13	3.456E-18	4.321E-11	4.465E-11	2.425E-10
SMALL IN	1.462E-16	6.717E-14	1.502E-13	3.092E-18	6.822E-11	7.117E-11	3.896E-10
LUNGS	1.788E-16	8.198E-14	1.833E-13	3.773E-18	3.727E-10	4.258E-10	2.885E-12
RED MARR	1.836E-16	8.405E-14	1.879E-13	3.869E-18	3.342E-12	3.986E-12	6.413E-12
THYROID	2.245E-16	1.033E-13	2.310E-13	4.756E-18	-1.000E+00	1.844E-12	2.855E-12
LOWER LI	1.605E-16	7.371E-14	1.648E-13	3.393E-18	1.640E-10	2.275E-10	1.265E-09
BONE SUR	2.191E-16	1.006E-13	2.248E-13	4.630E-18	-1.000E+00	4.063E-12	6.424E-12
BREAST	2.312E-16	1.061E-13	2.372E-13	4.883E-18	-1.000E+00	1.878E-12	2.998E-12
TESTES	2.410E-16	1.109E-13	2.479E-13	5.105E-18	-1.000E+00	1.828E-12	2.940E-12
OVARIES	1.560E-16	7.165E-14	1.602E-13	3.298E-18	-1.000E+00	2.029E-12	4.040E-12
EDEWBODY	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	8.597E-11	1.874E-10
THYROIDH	2.245E-16	1.033E-13	2.310E-13	4.756E-18	1.590E-12	1.844E-12	2.855E-12
ADRENALS	1.782E-16	8.198E-14	1.833E-13	3.773E-18	-1.000E+00	1.911E-12	2.961E-12
BLAD WAL	1.668E-16	7.647E-14	1.709E-13	3.520E-18	-1.000E+00	1.871E-12	3.170E-12
KIDNEYS	1.725E-16	7.922E-14	1.771E-13	3.647E-18	-1.000E+00	1.886E-12	3.097E-12
LIVER	1.658E-16	7.647E-14	1.709E-13	3.520E-18	-1.000E+00	1.921E-12	3.021E-12
PANCREAS	1.430E-16	6.572E-14	1.469E-13	3.025E-18	-1.000E+00	1.956E-12	3.174E-12
SPLEEN	1.630E-16	7.509E-14	1.679E-13	3.456E-18	-1.000E+00	1.921E-12	3.054E-12
THYMUS	1.817E-16	8.336E-14	1.863E-13	3.837E-18	-1.000E+00	1.934E-12	2.875E-12
TE-127M							
STOMACH	4.566E-17	7.804E-14	2.953E-12	1.884E-18	8.892E-11	2.302E-10	2.115E-10
SMALL IN	3.165E-17	5.837E-14	2.406E-12	1.287E-18	1.832E-10	3.690E-10	4.338E-10
LUNGS	6.247E-17	1.013E-13	3.555E-12	2.616E-18	1.799E-09	3.337E-08	9.597E-11
RED MARR	2.632E-17	5.643E-14	2.669E-12	1.034E-18	2.769E-10	5.309E-09	5.373E-09

THYROID	1.237E-16	1.852E-13	5.663E-12	5.296E-18	-1.000E+00	9.635E-11	9.411E-11
LOWER LI	4.059E-17	7.121E-14	2.788E-12	1.662E-18	2.309E-09	5.719E-09	1.109E-08
BONE SUR	1.069E-16	1.615E-13	5.126E-12	4.503E-18	-1.000E+00	2.055E-08	2.086E-08
BREAST	3.038E-16	4.141E-13	1.042E-11	1.322E-17	-1.000E+00	1.097E-10	9.733E-11
TESTES	1.877E-16	2.688E-13	7.518E-12	8.118E-18	-1.000E+00	9.225E-11	9.303E-11
OVARIES	4.503E-17	7.676E-14	2.865E-12	1.877E-18	-1.000E+00	1.100E-10	1.248E-10
EDEWBODY	1.412E-16	1.758E-13	3.615E-12	6.111E-18	-1.000E+00	5.801E-09	2.224E-09
THYROIDH	1.237E-16	1.852E-13	5.663E-12	5.296E-18	1.337E-11	9.635E-11	9.411E-11
ADRENALS	4.947E-17	8.488E-14	3.217E-12	2.045E-18	-1.000E+00	1.083E-10	9.734E-11
BLAD WAL	6.183E-17	9.955E-14	3.420E-12	2.616E-18	-1.000E+00	9.431E-11	9.662E-11
KIDNEYS	9.957E-17	1.492E-13	4.491E-12	4.313E-18	-1.000E+00	9.721E-11	9.509E-11
LIVER	4.630E-17	7.939E-14	3.005E-12	1.915E-18	-1.000E+00	1.128E-10	9.482E-11
PANCREAS	3.158E-17	5.791E-14	2.371E-12	1.287E-18	-1.000E+00	1.081E-10	9.583E-11
SPLEEN	4.091E-17	7.211E-14	2.831E-12	1.677E-18	-1.000E+00	1.112E-10	9.535E-11
THYMUS	6.849E-17	1.098E-13	3.754E-12	2.895E-18	-1.000E+00	1.168E-10	9.338E-11
TE-129							
STOMACH	1.842E-15	2.273E-13	2.293E-13	3.805E-17	1.553E-11	1.553E-11	3.970E-10
SMALL IN	1.652E-15	2.027E-13	2.044E-13	3.393E-17	1.083E-11	1.083E-11	2.730E-10
LUNGS	2.007E-15	2.482E-13	2.503E-13	4.154E-17	1.526E-10	1.526E-10	4.910E-13
RED MARR	2.042E-15	2.501E-13	2.522E-13	4.186E-17	6.131E-13	6.131E-13	7.610E-13
THYROID	2.527E-15	3.145E-13	3.172E-13	5.264E-17	-1.000E+00	5.088E-13	3.350E-13
LOWER LI	1.804E-15	2.217E-13	2.235E-13	3.710E-17	1.838E-12	1.839E-12	3.700E-11
BONE SUR	2.375E-15	2.956E-13	2.981E-13	4.947E-17	-1.000E+00	7.058E-13	5.990E-13
BREAST	2.610E-15	3.334E-13	3.363E-13	5.581E-17	-1.000E+00	5.381E-13	6.050E-13
TESTES	2.737E-15	3.429E-13	3.458E-13	5.740E-17	-1.000E+00	4.522E-13	3.750E-13
OVARIES	1.782E-15	2.198E-13	2.216E-13	3.678E-17	-1.000E+00	5.052E-13	1.580E-12
EDEWBODY	2.685E-15	5.525E-13	5.572E-13	9.248E-17	-1.000E+00	2.085E-11	5.430E-11
THYROIDH	2.527E-15	3.145E-13	3.172E-13	5.264E-17	5.088E-13	5.088E-13	3.350E-13
ADRENALS	1.979E-15	2.444E-13	2.465E-13	4.091E-17	-1.000E+00	5.971E-13	6.070E-13
BLAD WAL	1.884E-15	2.330E-13	2.350E-13	3.900E-17	-1.000E+00	4.668E-13	6.700E-13
KIDNEYS	1.969E-15	2.444E-13	2.465E-13	4.091E-17	-1.000E+00	5.242E-13	8.830E-13
LIVER	1.868E-15	2.292E-13	2.312E-13	3.837E-17	-1.000E+00	6.032E-13	6.800E-13
PANCREAS	1.608E-15	1.970E-13	1.987E-13	3.298E-17	-1.000E+00	6.573E-13	1.910E-12
SPLEEN	1.823E-15	2.236E-13	2.255E-13	3.742E-17	-1.000E+00	6.088E-13	1.200E-12
THYMUS	2.055E-15	2.539E-13	2.560E-13	4.249E-17	-1.000E+00	6.639E-13	3.590E-13
TE-129M							
STOMACH	1.157E-15	1.240E-12	2.709E-11	2.359E-17	2.603E-10	4.813E-10	6.262E-10
SMALL IN	1.040E-15	1.104E-12	2.413E-11	2.099E-17	5.055E-10	7.966E-10	1.470E-09
LUNGS	1.262E-15	1.358E-12	2.966E-11	2.591E-17	3.516E-09	4.028E-08	1.588E-10
RED MARR	1.259E-15	1.344E-12	2.940E-11	2.524E-17	4.854E-10	3.038E-09	3.432E-09
THYROID	1.617E-15	1.753E-12	3.820E-11	3.393E-17	-1.000E+00	1.555E-10	1.566E-10
LOWER LI	1.132E-15	1.208E-12	2.639E-11	2.296E-17	4.897E-09	1.100E-08	2.464E-08
BONE SUR	1.443E-15	1.599E-12	3.496E-11	3.022E-17	-1.000E+00	7.149E-09	8.103E-09
BREAST	1.687E-15	1.936E-12	4.203E-11	3.869E-17	-1.000E+00	1.684E-10	1.657E-10
TESTES	1.754E-15	1.932E-12	4.207E-11	3.773E-17	-1.000E+00	1.390E-10	1.604E-10
OVARIES	1.138E-15	1.209E-12	2.640E-11	2.318E-17	-1.000E+00	1.783E-10	2.405E-10
EDEWBODY	1.644E-15	2.813E-12	6.190E-11	5.035E-17	-1.000E+00	6.466E-09	2.885E-09
THYROIDH	1.617E-15	1.753E-12	3.820E-11	3.393E-17	3.040E-11	1.555E-10	1.566E-10
ADRENALS	1.230E-15	1.325E-12	2.896E-11	2.508E-17	-1.000E+00	1.853E-10	1.681E-10
BLAD WAL	1.189E-15	1.281E-12	2.795E-11	2.451E-17	-1.000E+00	1.463E-10	1.748E-10
KIDNEYS	1.265E-15	1.371E-12	2.987E-11	2.670E-17	-1.000E+00	1.577E-10	1.655E-10
LIVER	1.170E-15	1.252E-12	2.735E-11	2.385E-17	-1.000E+00	1.826E-10	1.617E-10
PANCREAS	1.002E-15	1.071E-12	2.341E-11	2.033E-17	-1.000E+00	1.849E-10	1.651E-10
SPLEEN	1.135E-15	1.215E-12	2.656E-11	2.305E-17	-1.000E+00	1.795E-10	1.625E-10
THYMUS	1.313E-15	1.405E-12	3.065E-11	2.705E-17	-1.000E+00	2.020E-10	1.558E-10
TE-131M							
STOMACH	5.525E-14	2.755E-11	1.751E-10	1.048E-15	2.208E-10	2.758E-10	6.627E-10
SMALL IN	5.016E-14	2.504E-11	1.589E-10	9.528E-16	3.920E-10	4.928E-10	1.600E-09
LUNGS	5.966E-14	2.979E-11	1.895E-10	1.133E-15	1.203E-09	2.231E-09	6.208E-11
RED MARR	6.028E-14	3.011E-11	1.918E-10	1.145E-15	9.441E-11	1.386E-10	2.393E-10
THYROID	7.492E-14	3.757E-11	2.390E-10	1.430E-15	-1.000E+00	3.280E-08	3.908E-08
LOWER LI	5.424E-14	2.710E-11	1.722E-10	1.031E-15	1.333E-09	2.367E-09	8.102E-09
BONE SUR	6.713E-14	3.366E-11	2.159E-10	1.281E-15	-1.000E+00	2.608E-10	3.698E-10

BREAST	7.245E-14	3.646E-11	2.332E-10	1.387E-15	-1.000E+00	9.204E-11	1.342E-10
TESTES	7.928E-14	3.970E-11	2.529E-10	1.511E-15	-1.000E+00	4.542E-11	9.816E-11
OVARIES	5.350E-14	2.671E-11	1.695E-10	1.016E-15	-1.000E+00	2.335E-10	7.370E-10
EDEWBODY	6.458E-14	3.240E-11	2.070E-10	1.227E-15	-1.000E+00	1.634E-09	2.355E-09
THYROIDH	7.492E-14	3.757E-11	2.390E-10	1.430E-15	6.429E-09	3.280E-08	3.908E-08
ADRENALS	5.800E-14	2.901E-11	1.849E-10	1.104E-15	-1.000E+00	1.085E-10	1.014E-10
BLAD WAL	5.626E-14	2.808E-11	1.785E-10	1.068E-15	-1.000E+00	9.054E-11	2.464E-10
KIDNEYS	5.892E-14	2.940E-11	1.867E-10	1.119E-15	-1.000E+00	8.855E-11	1.583E-10
LIVER	5.593E-14	2.790E-11	1.774E-10	1.062E-15	-1.000E+00	1.139E-10	1.241E-10
PANCREAS	4.816E-14	2.407E-11	1.530E-10	9.159E-16	-1.000E+00	1.266E-10	1.655E-10
SPLEEN	5.427E-14	2.712E-11	1.725E-10	1.032E-15	-1.000E+00	1.109E-10	1.336E-10
THYMUS	6.236E-14	3.121E-11	1.981E-10	1.188E-15	-1.000E+00	1.506E-10	6.773E-11
TE-132							
STOMACH	6.976E-15	3.219E-11	5.471E-10	1.551E-16	2.302E-10	4.076E-10	4.855E-10
SMALL IN	6.152E-15	2.912E-11	4.957E-10	1.364E-16	3.127E-10	5.081E-10	7.662E-10
LUNGS	7.706E-15	3.493E-11	5.930E-10	1.722E-16	5.309E-10	1.641E-09	2.937E-10
RED MARR	7.642E-15	3.531E-11	6.006E-10	1.681E-16	2.500E-10	3.951E-10	4.064E-10
THYROID	1.021E-14	4.414E-11	7.469E-10	2.308E-16	-1.000E+00	5.284E-08	4.695E-08
LOWER LI	6.849E-15	3.154E-11	5.362E-10	1.519E-16	8.207E-10	1.574E-09	3.764E-09
BONE SUR	1.075E-14	4.024E-11	6.752E-10	2.419E-16	-1.000E+00	7.249E-10	8.537E-10
BREAST	1.154E-14	4.369E-11	7.321E-10	2.686E-16	-1.000E+00	3.312E-10	3.126E-10
TESTES	1.078E-14	4.683E-11	7.922E-10	2.461E-16	-1.000E+00	3.374E-10	3.256E-10
OVARIES	6.247E-15	3.114E-11	5.313E-10	1.395E-16	-1.000E+00	3.866E-10	5.058E-10
EDEWBODY	9.502E-15	4.131E-11	6.992E-10	2.153E-16	-1.000E+00	2.229E-09	2.132E-09
THYROIDH	1.021E-14	4.414E-11	7.469E-10	2.308E-16	2.263E-08	5.284E-08	4.695E-08
ADRENALS	7.737E-15	3.415E-11	5.790E-10	1.719E-16	-1.000E+00	4.021E-10	3.638E-10
BLAD WAL	7.135E-15	3.282E-11	5.575E-10	1.598E-16	-1.000E+00	3.681E-10	3.820E-10
KIDNEYS	7.420E-15	3.432E-11	5.828E-10	1.681E-16	-1.000E+00	3.464E-10	3.333E-10
LIVER	7.071E-15	3.258E-11	5.537E-10	1.573E-16	-1.000E+00	3.620E-10	3.278E-10
PANCREAS	6.025E-15	2.804E-11	4.769E-10	1.332E-16	-1.000E+00	3.591E-10	3.327E-10
SPLEEN	7.008E-15	3.170E-11	5.383E-10	1.554E-16	-1.000E+00	3.584E-10	3.273E-10
THYMUS	8.054E-15	3.638E-11	6.174E-10	1.807E-16	-1.000E+00	3.908E-10	3.308E-10
I-131							
STOMACH	1.291E-14	7.742E-12	1.238E-10	2.727E-16	5.997E-11	7.516E-11	3.059E-10
SMALL IN	1.154E-14	6.914E-12	1.106E-10	2.435E-16	1.572E-11	2.742E-11	4.471E-11
LUNGS	1.408E-14	8.444E-12	1.351E-10	2.974E-16	4.539E-10	6.565E-10	1.016E-10
RED MARR	1.449E-14	8.678E-12	1.388E-10	3.057E-16	3.518E-11	6.260E-11	9.444E-11
THYROID	1.776E-14	1.062E-11	1.699E-10	3.742E-16	-1.000E+00	2.911E-07	4.753E-07
LOWER LI	1.265E-14	7.589E-12	1.214E-10	2.673E-16	1.465E-11	2.593E-11	4.239E-11
BONE SUR	1.731E-14	1.044E-11	1.671E-10	3.678E-16	-1.000E+00	5.718E-11	8.699E-11
BREAST	1.830E-14	1.098E-11	1.757E-10	3.869E-16	-1.000E+00	7.861E-11	1.209E-10
TESTES	1.899E-14	1.143E-11	1.829E-10	4.027E-16	-1.000E+00	2.322E-11	3.777E-11
OVARIES	1.224E-14	7.337E-12	1.174E-10	2.584E-16	-1.000E+00	2.533E-11	4.067E-11
EDEWBODY	1.667E-14	1.009E-11	1.614E-10	3.553E-16	-1.000E+00	8.872E-09	1.434E-08
THYROIDH	1.776E-14	1.062E-11	1.699E-10	3.742E-16	1.279E-08	9.694E-08	1.583E-07
ADRENALS	1.405E-14	8.435E-12	1.349E-10	2.971E-16	-1.000E+00	4.289E-11	5.616E-11
BLAD WAL	1.313E-14	7.886E-12	1.262E-10	2.778E-16	-1.000E+00	2.516E-11	4.084E-11
KIDNEYS	1.360E-14	8.165E-12	1.306E-10	2.876E-16	-1.000E+00	3.014E-11	4.508E-11
LIVER	1.306E-14	7.841E-12	1.254E-10	2.762E-16	-1.000E+00	3.871E-11	4.948E-11
PANCREAS	1.129E-14	6.761E-12	1.082E-10	2.381E-16	-1.000E+00	4.041E-11	5.964E-11
SPLEEN	1.284E-14	7.706E-12	1.233E-10	2.714E-16	-1.000E+00	3.882E-11	5.528E-11
THYMUS	1.436E-14	8.624E-12	1.380E-10	3.038E-16	-1.000E+00	2.036E-10	3.088E-10
I-132							
STOMACH	8.308E-14	1.738E-11	1.909E-11	1.598E-15	9.896E-11	9.896E-11	6.320E-10
SMALL IN	7.547E-14	1.579E-11	1.735E-11	1.452E-15	1.245E-11	1.245E-11	3.160E-11
LUNGS	8.974E-14	1.879E-11	2.065E-11	1.728E-15	2.702E-10	2.703E-10	2.640E-11
RED MARR	9.132E-14	1.910E-11	2.099E-11	1.757E-15	1.401E-11	1.401E-11	2.450E-11
THYROID	1.126E-13	2.352E-11	2.584E-11	2.163E-15	-1.000E+00	1.726E-09	3.842E-09
LOWER LI	8.149E-14	1.703E-11	1.871E-11	1.566E-15	1.126E-11	1.127E-11	2.750E-11
BONE SUR	9.989E-14	2.090E-11	2.296E-11	1.922E-15	-1.000E+00	1.242E-11	2.190E-11
BREAST	1.078E-13	2.259E-11	2.481E-11	2.077E-15	-1.000E+00	1.412E-11	2.511E-11
TESTES	1.192E-13	2.493E-11	2.739E-11	2.293E-15	-1.000E+00	9.901E-12	2.220E-11
OVARIES	8.118E-14	1.700E-11	1.868E-11	1.563E-15	-1.000E+00	9.960E-12	2.340E-11

EDEWBODY	1.032E-13	2.203E-11	2.420E-11	2.025E-15	-1.000E+00	1.026E-10	1.814E-10
THYROIDH	1.126E-13	2.352E-11	2.584E-11	2.163E-15	1.721E-09	1.726E-09	3.842E-09
ADRENALS	8.752E-14	1.831E-11	2.012E-11	1.684E-15	-1.000E+00	1.973E-11	3.210E-11
BLAD WAL	8.467E-14	1.769E-11	1.943E-11	1.627E-15	-1.000E+00	1.066E-11	2.440E-11
KIDNEYS	8.847E-14	1.848E-11	2.031E-11	1.700E-15	-1.000E+00	1.452E-11	3.240E-11
LIVER	8.403E-14	1.759E-11	1.932E-11	1.617E-15	-1.000E+00	1.837E-11	2.830E-11
PANCREAS	7.262E-14	1.517E-11	1.667E-11	1.395E-15	-1.000E+00	2.531E-11	7.720E-11
SPLEEN	8.149E-14	1.707E-11	1.875E-11	1.570E-15	-1.000E+00	2.088E-11	5.290E-11
THYMUS	9.354E-14	1.955E-11	2.148E-11	1.798E-15	-1.000E+00	2.360E-11	2.511E-11
I-133							
STOMACH	2.121E-14	1.076E-11	4.720E-11	4.249E-16	1.023E-10	1.046E-10	5.533E-10
SMALL IN	1.915E-14	9.713E-12	4.252E-11	3.837E-16	2.006E-11	2.150E-11	4.041E-11
LUNGS	2.305E-14	1.172E-11	5.158E-11	4.630E-16	7.085E-10	8.162E-10	4.518E-11
RED MARR	2.350E-14	1.196E-11	5.196E-11	4.725E-16	2.454E-11	2.717E-11	4.313E-11
THYROID	2.873E-14	1.462E-11	6.491E-11	5.771E-16	-1.000E+00	4.855E-08	9.102E-08
LOWER LI	2.077E-14	1.052E-11	4.605E-11	4.154E-16	1.910E-11	2.049E-11	3.883E-11
BONE SUR	2.645E-14	1.350E-11	6.041E-11	5.327E-16	-1.000E+00	2.518E-11	4.080E-11
BREAST	2.829E-14	1.439E-11	6.509E-11	5.676E-16	-1.000E+00	2.931E-11	4.688E-11
TESTES	3.079E-14	1.566E-11	6.965E-11	6.183E-16	-1.000E+00	1.947E-11	3.632E-11
OVARIES	2.071E-14	1.052E-11	4.602E-11	4.154E-16	-1.000E+00	1.934E-11	3.573E-11
EDEWBODY	2.685E-14	1.427E-11	6.312E-11	5.637E-16	-1.000E+00	1.583E-09	2.800E-09
THYROIDH	2.873E-14	1.462E-11	6.491E-11	5.771E-16	2.389E-08	4.855E-08	9.102E-08
ADRENALS	2.261E-14	1.148E-11	5.032E-11	4.535E-16	-1.000E+00	3.133E-11	4.368E-11
BLAD WAL	2.163E-14	1.100E-11	4.840E-11	4.344E-16	-1.000E+00	1.983E-11	3.685E-11
KIDNEYS	2.251E-14	1.140E-11	5.036E-11	4.503E-16	-1.000E+00	2.373E-11	4.011E-11
LIVER	2.150E-14	1.092E-11	4.797E-11	4.313E-16	-1.000E+00	2.899E-11	3.922E-11
PANCREAS	1.852E-14	9.390E-12	4.100E-11	3.710E-16	-1.000E+00	3.212E-11	5.577E-11
SPLEEN	2.096E-14	1.068E-11	4.681E-11	4.217E-16	-1.000E+00	2.930E-11	4.781E-11
THYMUS	2.362E-14	1.197E-11	5.292E-11	4.725E-16	-1.000E+00	5.205E-11	7.159E-11
I-134							
STOMACH	9.672E-14	8.230E-12	8.245E-12	1.811E-15	7.081E-11	7.081E-11	5.480E-10
SMALL IN	8.847E-14	7.524E-12	7.537E-12	1.655E-15	5.521E-12	5.521E-12	1.600E-11
LUNGS	1.043E-13	8.893E-12	8.909E-12	1.957E-15	1.429E-10	1.429E-10	1.260E-11
RED MARR	1.059E-13	9.008E-12	9.025E-12	1.982E-15	6.067E-12	6.067E-12	1.090E-11
THYROID	1.306E-13	1.114E-11	1.116E-11	2.451E-15	-1.000E+00	2.848E-10	6.160E-10
LOWER LI	9.513E-14	8.100E-12	8.115E-12	1.782E-15	4.800E-12	4.800E-12	1.290E-11
BONE SUR	1.148E-13	9.787E-12	9.804E-12	2.153E-15	-1.000E+00	5.296E-12	9.290E-12
BREAST	1.246E-13	1.061E-11	1.063E-11	2.334E-15	-1.000E+00	6.153E-12	1.160E-11
TESTES	1.379E-13	1.175E-11	1.177E-11	2.584E-15	-1.000E+00	4.001E-12	8.860E-12
OVARIES	9.418E-14	8.028E-12	8.043E-12	1.766E-15	-1.000E+00	4.235E-12	1.100E-11
EDEWBODY	1.204E-13	1.042E-11	1.044E-11	2.292E-15	-1.000E+00	3.548E-11	6.630E-11
THYROIDH	1.306E-13	1.114E-11	1.116E-11	2.451E-15	2.848E-10	2.848E-10	6.160E-10
ADRENALS	1.012E-13	8.619E-12	8.635E-12	1.896E-15	-1.000E+00	8.761E-12	1.580E-11
BLAD WAL	9.830E-14	8.374E-12	8.389E-12	1.842E-15	-1.000E+00	4.494E-12	1.040E-11
KIDNEYS	1.031E-13	8.778E-12	8.794E-12	1.931E-15	-1.000E+00	6.626E-12	1.750E-11
LIVER	9.798E-14	8.345E-12	8.360E-12	1.836E-15	-1.000E+00	8.358E-12	1.400E-11
PANCREAS	8.467E-14	7.207E-12	7.220E-12	1.585E-15	-1.000E+00	1.302E-11	5.400E-11
SPLEEN	9.481E-14	8.086E-12	8.100E-12	1.779E-15	-1.000E+00	1.032E-11	3.430E-11
THYMUS	1.094E-13	9.311E-12	9.328E-12	2.048E-15	-1.000E+00	1.044E-11	9.910E-12
I-135							
STOMACH	6.093E-14	2.170E-11	4.265E-11	1.065E-15	9.819E-11	9.855E-11	5.403E-10
SMALL IN	5.689E-14	2.020E-11	3.951E-11	9.932E-16	1.878E-11	1.899E-11	4.108E-11
LUNGS	6.589E-14	2.354E-11	4.632E-11	1.154E-15	4.291E-10	4.396E-10	3.737E-11
RED MARR	6.658E-14	2.377E-11	4.682E-11	1.165E-15	2.194E-11	2.231E-11	3.638E-11
THYROID	8.172E-14	2.917E-11	5.765E-11	1.427E-15	-1.000E+00	8.435E-09	1.778E-08
LOWER LI	6.056E-14	2.154E-11	4.231E-11	1.057E-15	1.765E-11	1.784E-11	3.937E-11
BONE SUR	7.106E-14	2.561E-11	5.157E-11	1.242E-15	-1.000E+00	1.997E-11	3.342E-11
BREAST	7.823E-14	2.817E-11	5.639E-11	1.370E-15	-1.000E+00	2.334E-11	3.844E-11
TESTES	8.672E-14	3.094E-11	6.113E-11	1.514E-15	-1.000E+00	1.521E-11	3.213E-11
OVARIES	5.897E-14	2.091E-11	4.088E-11	1.029E-15	-1.000E+00	1.699E-11	3.616E-11
EDEWBODY	7.257E-14	2.643E-11	5.277E-11	1.285E-15	-1.000E+00	3.308E-10	6.041E-10
THYROIDH	8.172E-14	2.917E-11	5.765E-11	1.427E-15	7.172E-09	8.435E-09	1.778E-08
ADRENALS	6.269E-14	2.243E-11	4.442E-11	1.097E-15	-1.000E+00	3.019E-11	4.824E-11

BLAD WAL	6.225E-14	2.223E-11	4.366E-11	1.091E-15	-1.000E+00	1.688E-11	3.535E-11
KIDNEYS	6.583E-14	2.336E-11	4.579E-11	1.147E-15	-1.000E+00	2.161E-11	4.083E-11
LIVER	6.223E-14	2.216E-11	4.351E-11	1.087E-15	-1.000E+00	2.763E-11	3.818E-11
PANCREAS	5.399E-14	1.918E-11	3.763E-11	9.413E-16	-1.000E+00	3.329E-11	7.571E-11
SPLEEN	6.028E-14	2.145E-11	4.222E-11	1.051E-15	-1.000E+00	2.816E-11	5.546E-11
THYMUS	6.879E-14	2.452E-11	4.821E-11	1.203E-15	-1.000E+00	4.388E-11	5.120E-11
XE-133							
STOMACH	9.450E-16	0.000E+00	0.000E+00	0.000E+00	1.312E-13	1.451E-13	0.000E+00
SMALL IN	7.991E-16	0.000E+00	0.000E+00	0.000E+00	1.368E-13	1.498E-13	0.000E+00
LUNGS	1.113E-15	0.000E+00	0.000E+00	0.000E+00	3.508E-13	3.716E-13	0.000E+00
RED MARR	7.293E-16	0.000E+00	0.000E+00	0.000E+00	1.558E-13	1.686E-13	0.000E+00
THYROID	1.719E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.381E-13	0.000E+00
LOWER LI	8.689E-16	0.000E+00	0.000E+00	0.000E+00	1.357E-13	1.486E-13	0.000E+00
BONE SUR	1.976E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.616E-13	0.000E+00
BREAST	2.255E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.415E-13	0.000E+00
TESTES	1.814E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.392E-13	0.000E+00
OVARIES	8.340E-16	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.464E-13	0.000E+00
EDEWBODY	1.551E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.762E-13	0.000E+00
THYROIDH	1.719E-15	0.000E+00	0.000E+00	0.000E+00	1.212E-13	1.381E-13	0.000E+00
ADRENALS	9.703E-16	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.426E-13	0.000E+00
BLAD WAL	1.031E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.464E-13	0.000E+00
KIDNEYS	1.119E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.439E-13	0.000E+00
LIVER	9.989E-16	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.473E-13	0.000E+00
PANCREAS	6.944E-16	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.486E-13	0.000E+00
SPLEEN	9.259E-16	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.462E-13	0.000E+00
THYMUS	1.313E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	1.461E-13	0.000E+00
XE-135							
STOMACH	8.213E-15	0.000E+00	0.000E+00	0.000E+00	2.546E-13	2.575E-13	0.000E+00
SMALL IN	7.293E-15	0.000E+00	0.000E+00	0.000E+00	2.560E-13	2.586E-13	0.000E+00
LUNGS	9.006E-15	0.000E+00	0.000E+00	0.000E+00	7.645E-13	7.685E-13	0.000E+00
RED MARR	9.228E-15	0.000E+00	0.000E+00	0.000E+00	2.532E-13	2.554E-13	0.000E+00
THYROID	1.167E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.341E-13	0.000E+00
LOWER LI	8.118E-15	0.000E+00	0.000E+00	0.000E+00	2.479E-13	2.504E-13	0.000E+00
BONE SUR	1.202E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.473E-13	0.000E+00
BREAST	1.253E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.392E-13	0.000E+00
TESTES	1.227E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.321E-13	0.000E+00
OVARIES	7.515E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.525E-13	0.000E+00
EDEWBODY	1.103E-14	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	3.151E-13	0.000E+00
THYROIDH	1.167E-14	0.000E+00	0.000E+00	0.000E+00	2.308E-13	2.341E-13	0.000E+00
ADRENALS	9.101E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.605E-13	0.000E+00
BLAD WAL	8.371E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.514E-13	0.000E+00
KIDNEYS	8.625E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.514E-13	0.000E+00
LIVER	8.340E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.503E-13	0.000E+00
PANCREAS	7.166E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.655E-13	0.000E+00
SPLEEN	8.245E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.544E-13	0.000E+00
THYMUS	9.323E-15	0.000E+00	0.000E+00	0.000E+00	-1.000E+00	2.716E-13	0.000E+00
CS-134							
STOMACH	5.581E-14	3.159E-11	6.615E-10	1.097E-15	3.462E-10	1.251E-08	2.009E-08
SMALL IN	5.042E-14	2.858E-11	5.984E-10	9.925E-16	3.382E-10	1.372E-08	2.178E-08
LUNGS	6.025E-14	3.424E-11	7.169E-10	1.189E-15	8.600E-10	1.173E-08	1.746E-08
RED MARR	6.152E-14	3.488E-11	7.303E-10	1.211E-15	9.057E-10	1.178E-08	1.868E-08
THYROID	7.579E-14	4.292E-11	8.986E-10	1.490E-15	-1.000E+00	1.113E-08	1.764E-08
LOWER LI	5.454E-14	3.095E-11	6.481E-10	1.075E-15	3.349E-10	1.372E-08	2.177E-08
BONE SUR	6.786E-14	3.844E-11	8.049E-10	1.335E-15	-1.000E+00	1.091E-08	1.731E-08
BREAST	7.293E-14	4.136E-11	8.661E-10	1.436E-15	-1.000E+00	1.082E-08	1.714E-08
TESTES	8.023E-14	4.556E-11	9.540E-10	1.582E-15	-1.000E+00	1.296E-08	2.058E-08
OVARIES	5.454E-14	3.105E-11	6.500E-10	1.078E-15	-1.000E+00	1.133E-08	1.798E-08
EDEWBODY	6.968E-14	3.966E-11	8.304E-10	1.377E-15	-1.000E+00	1.253E-08	1.975E-08
THYROIDH	7.579E-14	4.292E-11	8.986E-10	1.490E-15	4.736E-10	1.113E-08	1.764E-08
ADRENALS	5.898E-14	3.351E-11	7.016E-10	1.164E-15	-1.000E+00	1.463E-08	2.318E-08
BLAD WAL	5.676E-14	3.223E-11	6.749E-10	1.119E-15	-1.000E+00	1.351E-08	2.144E-08
KIDNEYS	5.930E-14	3.360E-11	7.036E-10	1.167E-15	-1.000E+00	1.265E-08	2.007E-08
LIVER	5.644E-14	3.196E-11	6.691E-10	1.110E-15	-1.000E+00	1.267E-08	2.007E-08

PANCREAS	4.852E-14	2.758E-11	5.774E-10	9.576E-16	-1.000E+00	1.225E-08	1.943E-08
SPLEEN	5.486E-14	3.114E-11	6.519E-10	1.081E-15	-1.000E+00	1.267E-08	2.009E-08
THYMUS	6.279E-14	3.552E-11	7.437E-10	1.234E-15	-1.000E+00	1.073E-08	1.694E-08
CS-136							
STOMACH	7.864E-14	4.255E-11	7.539E-10	1.490E-15	3.756E-10	1.965E-09	3.384E-09
SMALL IN	7.166E-14	3.884E-11	6.882E-10	1.360E-15	3.663E-10	2.114E-09	3.408E-09
LUNGS	8.498E-14	4.608E-11	8.165E-10	1.614E-15	6.540E-10	2.311E-09	2.617E-09
RED MARR	8.593E-14	4.653E-11	8.245E-10	1.630E-15	7.018E-10	1.855E-09	2.952E-09
THYROID	1.072E-13	5.830E-11	1.033E-09	2.042E-15	-1.000E+00	1.723E-09	2.736E-09
LOWER LI	7.737E-14	4.191E-11	7.427E-10	1.468E-15	3.617E-10	2.108E-09	3.404E-09
BONE SUR	9.481E-14	5.178E-11	9.176E-10	1.814E-15	-1.000E+00	1.691E-09	2.697E-09
BREAST	1.027E-13	5.604E-11	9.930E-10	1.963E-15	-1.000E+00	1.658E-09	2.636E-09
TESTES	1.126E-13	6.129E-11	1.086E-09	2.147E-15	-1.000E+00	1.881E-09	3.034E-09
OVARIES	7.642E-14	4.146E-11	7.347E-10	1.452E-15	-1.000E+00	1.673E-09	2.699E-09
EDEWBODY	9.792E-14	5.320E-11	9.427E-10	1.863E-15	-1.000E+00	1.990E-09	3.062E-09
THYROIDH	1.072E-13	5.830E-11	1.033E-09	2.042E-15	3.585E-10	1.723E-09	2.736E-09
ADRENALS	8.245E-14	4.481E-11	7.941E-10	1.570E-15	-1.000E+00	2.196E-09	3.471E-09
BLAD WAL	7.991E-14	4.345E-11	7.700E-10	1.522E-15	-1.000E+00	2.148E-09	3.464E-09
KIDNEYS	8.371E-14	4.544E-11	8.053E-10	1.592E-15	-1.000E+00	1.971E-09	3.156E-09
LIVER	7.959E-14	4.318E-11	7.652E-10	1.513E-15	-1.000E+00	1.998E-09	3.151E-09
PANCREAS	6.849E-14	3.721E-11	6.593E-10	1.303E-15	-1.000E+00	1.928E-09	3.084E-09
SPLEEN	7.737E-14	4.191E-11	7.427E-10	1.468E-15	-1.000E+00	1.973E-09	3.139E-09
THYMUS	8.942E-14	4.852E-11	8.598E-10	1.700E-15	-1.000E+00	1.729E-09	2.654E-09
CS-137							
STOMACH	2.010E-14	1.149E-11	2.430E-10	4.020E-16	2.251E-10	8.606E-09	1.390E-08
SMALL IN	1.812E-14	1.037E-11	2.194E-10	3.630E-16	1.956E-10	9.043E-09	1.436E-08
LUNGS	2.178E-14	1.243E-11	2.630E-10	4.350E-16	8.287E-10	8.799E-09	1.266E-08
RED MARR	2.217E-14	1.260E-11	2.666E-10	4.410E-16	5.625E-10	8.295E-09	1.316E-08
THYROID	2.730E-14	1.560E-11	3.301E-10	5.460E-16	-1.000E+00	7.919E-09	1.257E-08
LOWER LI	1.968E-14	1.123E-11	2.376E-10	3.930E-16	1.953E-10	9.063E-09	1.439E-08
BONE SUR	2.460E-14	1.406E-11	2.974E-10	4.920E-16	-1.000E+00	7.933E-09	1.258E-08
BREAST	2.643E-14	1.509E-11	3.192E-10	5.280E-16	-1.000E+00	7.823E-09	1.240E-08
TESTES	2.904E-14	1.655E-11	3.500E-10	5.790E-16	-1.000E+00	8.758E-09	1.390E-08
OVARIES	1.974E-14	1.123E-11	2.376E-10	3.930E-16	-1.000E+00	8.107E-09	1.286E-08
EDEWBODY	2.526E-14	1.459E-11	3.085E-10	5.104E-16	-1.000E+00	8.628E-09	1.355E-08
THYROIDH	2.730E-14	1.560E-11	3.301E-10	5.460E-16	2.960E-10	7.919E-09	1.257E-08
ADRENALS	2.139E-14	1.217E-11	2.575E-10	4.260E-16	-1.000E+00	9.444E-09	1.498E-08
BLAD WAL	2.046E-14	1.166E-11	2.466E-10	4.080E-16	-1.000E+00	8.888E-09	1.410E-08
KIDNEYS	2.133E-14	1.217E-11	2.575E-10	4.260E-16	-1.000E+00	8.596E-09	1.363E-08
LIVER	2.034E-14	1.157E-11	2.448E-10	4.050E-16	-1.000E+00	8.592E-09	1.362E-08
PANCREAS	1.752E-14	9.945E-12	2.104E-10	3.480E-16	-1.000E+00	8.424E-09	1.336E-08
SPLEEN	1.977E-14	1.132E-11	2.394E-10	3.960E-16	-1.000E+00	8.619E-09	1.367E-08
THYMUS	2.256E-14	1.286E-11	2.720E-10	4.500E-16	-1.000E+00	7.815E-09	1.237E-08
BA-139							
STOMACH	1.157E-15	1.742E-13	1.775E-13	2.467E-17	9.184E-11	9.184E-11	6.880E-10
SMALL IN	1.024E-15	1.539E-13	1.567E-13	2.178E-17	7.425E-11	7.425E-11	5.560E-10
LUNGS	1.278E-15	1.928E-13	1.964E-13	2.730E-17	2.529E-10	2.529E-10	4.450E-13
RED MARR	1.227E-15	1.841E-13	1.875E-13	2.607E-17	4.351E-12	4.351E-12	9.610E-13
THYROID	1.709E-15	2.598E-13	2.646E-13	3.678E-17	-1.000E+00	2.905E-12	3.210E-13
LOWER LI	1.138E-15	1.711E-13	1.743E-13	2.423E-17	1.573E-11	1.573E-11	1.000E-10
BONE SUR	1.826E-15	2.777E-13	2.829E-13	3.932E-17	-1.000E+00	4.354E-12	6.400E-13
BREAST	1.887E-15	2.911E-13	2.966E-13	4.122E-17	-1.000E+00	2.947E-12	5.700E-13
TESTES	1.763E-15	2.687E-13	2.737E-13	3.805E-17	-1.000E+00	2.870E-12	3.620E-13
OVARIES	1.034E-15	1.554E-13	1.583E-13	2.201E-17	-1.000E+00	3.054E-12	1.610E-12
EDEWBODY	2.164E-15	8.125E-13	8.276E-13	1.150E-16	-1.000E+00	4.686E-11	1.080E-10
THYROIDH	1.709E-15	2.598E-13	2.646E-13	3.678E-17	2.905E-12	2.905E-12	3.210E-13
ADRENALS	1.265E-15	1.908E-13	1.944E-13	2.702E-17	-1.000E+00	3.028E-12	5.970E-13
BLAD WAL	1.176E-15	1.778E-13	1.811E-13	2.518E-17	-1.000E+00	2.929E-12	6.320E-13
KIDNEYS	1.211E-15	1.836E-13	1.871E-13	2.600E-17	-1.000E+00	2.988E-12	8.510E-13
LIVER	1.173E-15	1.767E-13	1.800E-13	2.502E-17	-1.000E+00	3.037E-12	6.560E-13
PANCREAS	9.925E-16	1.489E-13	1.517E-13	2.109E-17	-1.000E+00	3.168E-12	1.640E-12
SPLEEN	1.164E-15	1.751E-13	1.784E-13	2.480E-17	-1.000E+00	3.086E-12	1.080E-12
THYMUS	1.357E-15	2.051E-13	2.090E-13	2.905E-17	-1.000E+00	3.068E-12	3.430E-13

BA-140							
STOMACH	6.405E-15	6.623E-12	5.941E-10	1.332E-16	1.416E-10	3.561E-10	5.836E-10
SMALL IN	5.708E-15	6.025E-12	5.512E-10	1.189E-16	2.874E-10	5.526E-10	1.691E-09
LUNGS	6.976E-15	7.209E-12	6.438E-10	1.455E-16	9.303E-10	1.678E-09	6.920E-11
RED MARR	7.071E-15	7.296E-12	6.525E-10	1.471E-16	4.739E-10	1.221E-09	4.219E-10
THYROID	8.752E-15	9.019E-12	7.951E-10	1.842E-16	-1.000E+00	2.721E-10	5.583E-11
LOWER LI	6.247E-15	6.515E-12	5.891E-10	1.300E-16	2.334E-09	4.364E-09	2.630E-08
BONE SUR	8.340E-15	8.317E-12	7.069E-10	1.754E-16	-1.000E+00	2.317E-09	5.331E-10
BREAST	8.942E-15	9.129E-12	7.788E-10	1.918E-16	-1.000E+00	3.023E-10	1.609E-10
TESTES	9.418E-15	9.696E-12	8.495E-10	1.991E-16	-1.000E+00	2.908E-10	1.467E-10
OVARIES	6.152E-15	6.374E-12	5.705E-10	1.284E-16	-1.000E+00	4.480E-10	9.877E-10
EDEWBODY	8.333E-15	8.930E-12	7.628E-10	1.875E-16	-1.000E+00	1.020E-09	2.545E-09
THYROIDH	8.752E-15	9.019E-12	7.951E-10	1.842E-16	6.819E-11	2.721E-10	5.583E-11
ADRENALS	6.881E-15	7.000E-12	6.139E-10	1.436E-16	-1.000E+00	4.133E-10	1.229E-10
BLAD WAL	6.532E-15	6.779E-12	6.080E-10	1.364E-16	-1.000E+00	3.339E-10	3.727E-10
KIDNEYS	6.786E-15	7.107E-12	6.400E-10	1.424E-16	-1.000E+00	3.079E-10	1.529E-10
LIVER	6.469E-15	6.743E-12	6.073E-10	1.351E-16	-1.000E+00	3.033E-10	1.189E-10
PANCREAS	5.549E-15	5.803E-12	5.250E-10	1.157E-16	-1.000E+00	3.324E-10	1.377E-10
SPLEEN	6.342E-15	6.551E-12	5.867E-10	1.319E-16	-1.000E+00	2.967E-10	1.296E-10
THYMUS	7.135E-15	7.417E-12	6.657E-10	1.490E-16	-1.000E+00	3.066E-10	6.250E-11
LA-140							
STOMACH	8.657E-14	4.027E-11	2.954E-10	1.497E-15	3.570E-10	4.664E-10	1.086E-09
SMALL IN	8.086E-14	3.754E-11	2.754E-10	1.395E-15	7.481E-10	9.753E-10	2.968E-09
LUNGS	9.354E-14	4.359E-11	3.198E-10	1.620E-15	1.958E-09	4.213E-09	4.000E-11
RED MARR	9.481E-14	4.419E-11	3.242E-10	1.643E-15	1.440E-10	2.124E-10	2.816E-10
THYROID	1.148E-13	5.366E-11	3.936E-10	1.995E-15	-1.000E+00	6.865E-11	6.386E-12
LOWER LI	8.593E-14	4.001E-11	2.935E-10	1.487E-15	2.946E-09	5.498E-09	1.750E-08
BONE SUR	1.008E-13	4.726E-11	3.467E-10	1.757E-15	-1.000E+00	1.406E-10	9.757E-11
BREAST	1.116E-13	5.212E-11	3.824E-10	1.937E-15	-1.000E+00	1.453E-10	1.800E-10
TESTES	1.227E-13	5.724E-11	4.199E-10	2.128E-15	-1.000E+00	5.875E-11	1.217E-10
OVARIES	8.276E-14	3.864E-11	2.835E-10	1.436E-15	-1.000E+00	4.534E-10	1.334E-09
EDEWBODY	1.071E-13	5.107E-11	3.746E-10	1.898E-15	-1.000E+00	1.315E-09	2.290E-09
THYROIDH	1.148E-13	5.366E-11	3.936E-10	1.995E-15	3.768E-11	6.865E-11	6.386E-12
ADRENALS	8.847E-14	4.137E-11	3.035E-10	1.538E-15	-1.000E+00	1.928E-10	1.049E-10
BLAD WAL	8.847E-14	4.120E-11	3.023E-10	1.532E-15	-1.000E+00	1.657E-10	4.489E-10
KIDNEYS	9.323E-14	4.342E-11	3.185E-10	1.614E-15	-1.000E+00	1.707E-10	2.225E-10
LIVER	8.847E-14	4.120E-11	3.023E-10	1.532E-15	-1.000E+00	7.637E-10	1.693E-10
PANCREAS	7.674E-14	3.566E-11	2.616E-10	1.325E-15	-1.000E+00	2.371E-10	2.190E-10
SPLEEN	8.530E-14	3.975E-11	2.916E-10	1.478E-15	-1.000E+00	1.713E-10	1.752E-10
THYMUS	9.703E-14	4.513E-11	3.311E-10	1.677E-15	-1.000E+00	2.270E-10	1.746E-11
LA-141							
STOMACH	1.566E-15	4.158E-13	6.939E-13	2.667E-17	9.818E-11	9.900E-11	9.310E-10
SMALL IN	1.475E-15	3.913E-13	6.421E-13	2.511E-17	1.430E-10	1.445E-10	1.370E-09
LUNGS	1.700E-15	4.510E-13	7.574E-13	2.892E-17	8.303E-10	8.904E-10	2.715E-13
RED MARR	1.712E-15	4.545E-13	7.461E-13	2.917E-17	5.104E-12	6.845E-12	1.073E-12
THYROID	2.099E-15	5.594E-13	9.643E-13	3.583E-17	-1.000E+00	2.447E-12	5.284E-14
LOWER LI	1.563E-15	4.152E-13	6.889E-13	2.664E-17	1.440E-10	1.672E-10	1.448E-09
BONE SUR	1.804E-15	4.812E-13	8.877E-13	3.073E-17	-1.000E+00	2.502E-11	6.220E-13
BREAST	2.001E-15	5.310E-13	9.646E-13	3.393E-17	-1.000E+00	2.669E-12	7.068E-13
TESTES	2.223E-15	5.890E-13	1.010E-12	3.773E-17	-1.000E+00	2.300E-12	3.183E-13
OVARIES	1.516E-15	4.021E-13	6.581E-13	2.581E-17	-1.000E+00	2.896E-12	3.757E-12
EDEWBODY	2.569E-15	1.848E-12	2.653E-12	1.192E-16	-1.000E+00	1.529E-10	3.750E-10
THYROIDH	2.099E-15	5.594E-13	9.643E-13	3.583E-17	2.195E-12	2.447E-12	5.284E-14
ADRENALS	1.605E-15	4.259E-13	7.209E-13	2.730E-17	-1.000E+00	3.076E-12	6.358E-13
BLAD WAL	1.608E-15	4.272E-13	7.132E-13	2.740E-17	-1.000E+00	2.467E-12	1.263E-12
KIDNEYS	1.696E-15	4.498E-13	7.483E-13	2.886E-17	-1.000E+00	2.822E-12	1.199E-12
LIVER	1.608E-15	4.266E-13	7.100E-13	2.737E-17	-1.000E+00	4.705E-11	1.266E-12
PANCREAS	1.395E-15	3.696E-13	6.083E-13	2.372E-17	-1.000E+00	3.211E-12	1.745E-12
SPLEEN	1.551E-15	4.119E-13	6.887E-13	2.641E-17	-1.000E+00	2.875E-12	1.172E-12
THYMUS	1.776E-15	4.719E-13	7.986E-13	3.025E-17	-1.000E+00	3.205E-12	1.288E-13
LA-142							
STOMACH	1.123E-13	1.396E-11	1.440E-11	1.744E-15	4.911E-11	4.911E-11	8.530E-10
SMALL IN	1.053E-13	1.307E-11	1.349E-11	1.633E-15	4.066E-11	4.066E-11	7.750E-10

LUNGS	1.195E-13	1.490E-11	1.537E-11	1.861E-15	3.508E-10	3.508E-10	8.370E-12
RED MARR	1.221E-13	1.521E-11	1.569E-11	1.899E-15	6.799E-12	6.799E-12	1.930E-11
THYROID	1.433E-13	1.792E-11	1.849E-11	2.239E-15	-1.000E+00	4.904E-12	1.160E-12
LOWER LI	1.113E-13	1.384E-11	1.427E-11	1.728E-15	1.143E-11	1.144E-11	1.901E-10
BONE SUR	1.262E-13	1.579E-11	1.629E-11	1.972E-15	-1.000E+00	5.372E-12	7.400E-12
BREAST	1.427E-13	1.780E-11	1.836E-11	2.223E-15	-1.000E+00	6.257E-12	1.540E-11
TESTES	1.560E-13	1.945E-11	2.006E-11	2.429E-15	-1.000E+00	2.103E-12	5.290E-12
OVARIES	1.037E-13	1.297E-11	1.338E-11	1.620E-15	-1.000E+00	5.887E-12	6.970E-11
EDEWBODY	1.366E-13	1.761E-11	1.816E-11	2.199E-15	-1.000E+00	5.587E-11	1.790E-10
THYROIDH	1.433E-13	1.792E-11	1.849E-11	2.239E-15	4.904E-12	4.904E-12	1.160E-12
ADRENALS	1.116E-13	1.394E-11	1.438E-11	1.741E-15	-1.000E+00	8.091E-12	1.710E-11
BLAD WAL	1.135E-13	1.414E-11	1.459E-11	1.766E-15	-1.000E+00	3.114E-12	2.050E-11
KIDNEYS	1.218E-13	1.513E-11	1.561E-11	1.890E-15	-1.000E+00	6.167E-12	2.940E-11
LIVER	1.138E-13	1.419E-11	1.464E-11	1.773E-15	-1.000E+00	1.571E-11	2.070E-11
PANCREAS	9.957E-14	1.236E-11	1.275E-11	1.544E-15	-1.000E+00	1.198E-11	6.400E-11
SPLEEN	1.094E-13	1.363E-11	1.406E-11	1.703E-15	-1.000E+00	9.825E-12	3.860E-11
THYMUS	1.227E-13	1.531E-11	1.579E-11	1.912E-15	-1.000E+00	1.362E-11	3.210E-12
CE-141							
STOMACH	2.388E-15	1.547E-12	3.029E-11	5.391E-17	9.040E-11	1.603E-10	2.240E-10
SMALL IN	2.074E-15	1.338E-12	2.619E-11	4.661E-17	2.167E-10	2.866E-10	5.893E-10
LUNGS	2.664E-15	1.729E-12	3.385E-11	6.025E-17	1.192E-09	1.669E-08	1.429E-12
RED MARR	2.419E-15	1.556E-12	3.047E-11	5.422E-17	2.434E-11	8.891E-11	3.396E-11
THYROID	3.678E-15	2.412E-12	4.721E-11	8.403E-17	-1.000E+00	2.543E-11	1.800E-13
LOWER LI	2.328E-15	1.502E-12	2.940E-11	5.232E-17	1.972E-09	4.100E-09	8.641E-09
BONE SUR	4.154E-15	2.703E-12	5.292E-11	9.418E-17	-1.000E+00	2.657E-10	2.375E-11
BREAST	4.249E-15	2.821E-12	5.523E-11	9.830E-17	-1.000E+00	4.456E-11	1.105E-11
TESTES	3.773E-15	2.484E-12	4.864E-11	8.657E-17	-1.000E+00	5.369E-12	7.580E-12
OVARIES	2.093E-15	1.356E-12	2.655E-11	4.725E-17	-1.000E+00	5.544E-11	1.076E-10
EDEWBODY	3.426E-15	2.229E-12	4.364E-11	7.766E-17	-1.000E+00	2.436E-09	7.850E-10
THYROIDH	3.678E-15	2.412E-12	4.721E-11	8.403E-17	3.186E-12	2.543E-11	1.800E-13
ADRENALS	2.619E-15	1.693E-12	3.314E-11	5.898E-17	-1.000E+00	7.773E-11	4.542E-12
BLAD WAL	2.438E-15	1.593E-12	3.118E-11	5.549E-17	-1.000E+00	1.820E-11	3.284E-11
KIDNEYS	2.508E-15	1.647E-12	3.225E-11	5.740E-17	-1.000E+00	3.210E-11	1.192E-11
LIVER	2.419E-15	1.565E-12	3.065E-11	5.454E-17	-1.000E+00	2.612E-10	1.956E-11
PANCREAS	1.995E-15	1.283E-12	2.512E-11	4.471E-17	-1.000E+00	8.150E-11	1.224E-11
SPLEEN	2.404E-15	1.547E-12	3.029E-11	5.391E-17	-1.000E+00	2.196E-10	1.800E-11
THYMUS	2.879E-15	1.875E-12	3.670E-11	6.532E-17	-1.000E+00	1.214E-10	5.150E-13
CE-143							
STOMACH	8.720E-15	4.926E-12	3.092E-11	1.858E-16	1.854E-10	2.121E-10	5.608E-10
SMALL IN	7.769E-15	4.380E-12	2.749E-11	1.652E-16	4.174E-10	4.914E-10	1.365E-09
LUNGS	9.545E-15	5.422E-12	3.403E-11	2.045E-16	1.429E-09	3.884E-09	3.829E-12
RED MARR	9.545E-15	5.330E-12	3.345E-11	2.010E-16	2.039E-11	2.953E-11	5.074E-11
THYROID	1.234E-14	7.087E-12	4.448E-11	2.673E-16	-1.000E+00	6.239E-12	4.351E-13
LOWER LI	8.498E-15	4.792E-12	3.007E-11	1.807E-16	2.311E-09	4.281E-09	1.167E-08
BONE SUR	1.195E-14	6.893E-12	4.326E-11	2.600E-16	-1.000E+00	1.647E-11	1.610E-11
BREAST	1.303E-14	7.675E-12	4.817E-11	2.895E-16	-1.000E+00	1.661E-11	2.327E-11
TESTES	1.319E-14	7.616E-12	4.780E-11	2.873E-16	-1.000E+00	5.816E-12	1.531E-11
OVARIES	8.245E-15	4.657E-12	2.923E-11	1.757E-16	-1.000E+00	7.556E-11	2.131E-10
EDEWBODY	1.169E-14	7.369E-12	4.697E-11	2.778E-16	-1.000E+00	9.190E-10	1.228E-09
THYROIDH	1.234E-14	7.087E-12	4.448E-11	2.673E-16	3.686E-12	6.239E-12	4.351E-13
ADRENALS	9.418E-15	5.321E-12	3.340E-11	2.007E-16	-1.000E+00	1.858E-11	1.177E-11
BLAD WAL	8.974E-15	5.111E-12	3.208E-11	1.928E-16	-1.000E+00	2.023E-11	5.571E-11
KIDNEYS	9.386E-15	5.397E-12	3.387E-11	2.036E-16	-1.000E+00	1.557E-11	2.793E-11
LIVER	8.847E-15	5.019E-12	3.150E-11	1.893E-16	-1.000E+00	4.852E-11	2.175E-11
PANCREAS	7.547E-15	4.228E-12	2.654E-11	1.595E-16	-1.000E+00	2.585E-11	2.969E-11
SPLEEN	8.625E-15	4.876E-12	3.060E-11	1.839E-16	-1.000E+00	4.251E-11	2.257E-11
THYMUS	9.989E-15	5.708E-12	3.582E-11	2.153E-16	-1.000E+00	2.367E-11	1.434E-12
CE-144							
STOMACH	1.793E-15	9.314E-13	2.002E-11	3.343E-17	6.003E-10	1.185E-09	1.110E-09
SMALL IN	1.636E-15	8.416E-13	1.811E-11	3.024E-17	1.461E-09	2.166E-09	3.711E-09
LUNGS	1.960E-15	1.025E-12	2.201E-11	3.675E-17	1.811E-08	7.896E-07	6.514E-12
RED MARR	1.882E-15	9.613E-13	2.070E-11	3.457E-17	4.025E-11	2.786E-09	8.660E-11
THYROID	2.505E-15	1.344E-12	2.880E-11	4.810E-17	-1.000E+00	2.908E-10	5.137E-12

LOWER LI	1.761E-15	9.113E-13	1.960E-11	3.272E-17	1.526E-08	3.410E-08	6.638E-08
BONE SUR	2.426E-15	1.328E-12	2.838E-11	4.738E-17	-1.000E+00	4.819E-09	1.304E-10
BREAST	2.649E-15	1.467E-12	3.136E-11	5.235E-17	-1.000E+00	3.478E-10	1.215E-11
TESTES	2.660E-15	1.426E-12	3.057E-11	5.105E-17	-1.000E+00	1.922E-10	1.013E-11
OVARIES	1.651E-15	8.577E-13	1.845E-11	3.081E-17	-1.000E+00	2.383E-10	6.961E-11
EDEWBODY	8.079E-16	5.398E-13	1.124E-11	1.875E-17	-1.000E+00	1.012E-07	5.710E-09
THYROIDH	2.505E-15	1.344E-12	2.880E-11	4.810E-17	3.907E-12	2.908E-10	5.137E-12
ADRENALS	1.850E-15	9.673E-13	2.077E-11	3.469E-17	-1.000E+00	4.513E-10	8.919E-12
BLAD WAL	1.835E-15	9.625E-13	2.068E-11	3.453E-17	-1.000E+00	2.050E-10	2.428E-11
KIDNEYS	1.942E-15	1.021E-12	2.194E-11	3.664E-17	-1.000E+00	3.113E-10	1.302E-11
LIVER	1.828E-15	9.518E-13	2.046E-11	3.416E-17	-1.000E+00	2.577E-08	6.894E-10
PANCREAS	1.548E-15	7.950E-13	1.710E-11	2.857E-17	-1.000E+00	4.903E-10	1.297E-11
SPLEEN	1.768E-15	9.192E-13	1.975E-11	3.299E-17	-1.000E+00	2.147E-08	5.739E-10
THYMUS	2.058E-15	1.093E-12	2.345E-11	3.915E-17	-1.000E+00	6.443E-10	5.533E-12
PR-143							
STOMACH	3.234E-22	1.802E-19	3.209E-18	6.310E-24	1.398E-10	1.661E-10	3.620E-10
SMALL IN	2.917E-22	1.630E-19	2.902E-18	5.708E-24	3.371E-10	4.126E-10	8.939E-10
LUNGS	3.488E-22	1.947E-19	3.467E-18	6.818E-24	1.631E-09	1.332E-08	6.518E-15
RED MARR	3.552E-22	1.983E-19	3.531E-18	6.944E-24	4.864E-12	1.497E-11	1.039E-12
THYROID	4.376E-22	2.454E-19	4.370E-18	8.593E-24	-1.000E+00	9.391E-14	6.518E-15
LOWER LI	3.158E-22	1.766E-19	3.144E-18	6.183E-24	3.304E-09	6.763E-09	1.466E-08
BONE SUR	3.900E-22	2.173E-19	3.870E-18	7.610E-24	-1.000E+00	1.495E-11	1.037E-12
BREAST	4.186E-22	2.345E-19	4.176E-18	8.213E-24	-1.000E+00	9.391E-14	6.519E-15
TESTES	4.630E-22	2.590E-19	4.611E-18	9.069E-24	-1.000E+00	9.390E-14	6.519E-15
OVARIES	3.168E-22	1.775E-19	3.160E-18	6.215E-24	-1.000E+00	9.390E-14	6.523E-15
EDEWBODY	1.771E-16	5.553E-13	9.887E-12	1.944E-17	-1.000E+00	2.190E-09	1.264E-09
THYROIDH	4.376E-22	2.454E-19	4.370E-18	8.593E-24	8.229E-14	9.391E-14	6.518E-15
ADRENALS	3.425E-22	1.911E-19	3.402E-18	6.691E-24	-1.000E+00	9.391E-14	6.519E-15
BLAD WAL	3.266E-22	1.838E-19	3.273E-18	6.437E-24	-1.000E+00	9.390E-14	6.519E-15
KIDNEYS	3.425E-22	1.920E-19	3.418E-18	6.723E-24	-1.000E+00	2.443E-11	1.696E-12
LIVER	3.266E-22	1.829E-19	3.257E-18	6.405E-24	-1.000E+00	1.192E-10	8.256E-12
PANCREAS	2.810E-22	1.576E-19	2.806E-18	5.518E-24	-1.000E+00	9.391E-14	6.519E-15
SPLEEN	3.165E-22	1.775E-19	3.160E-18	6.215E-24	-1.000E+00	9.391E-14	6.519E-15
THYMUS	3.647E-22	2.037E-19	3.628E-18	7.135E-24	-1.000E+00	9.391E-14	6.518E-15
ND-147							
STOMACH	4.313E-15	2.675E-12	4.589E-11	9.386E-17	1.419E-10	1.977E-10	3.571E-10
SMALL IN	3.805E-15	2.359E-12	4.046E-11	8.276E-17	3.388E-10	4.346E-10	9.403E-10
LUNGS	4.756E-15	2.982E-12	5.116E-11	1.046E-16	1.380E-09	1.060E-08	2.446E-12
RED MARR	4.471E-15	2.729E-12	4.682E-11	9.576E-17	3.426E-11	9.219E-11	5.042E-11
THYROID	6.279E-15	4.003E-12	6.868E-11	1.405E-16	-1.000E+00	1.825E-11	2.699E-13
LOWER LI	4.154E-15	2.567E-12	4.403E-11	9.006E-17	2.868E-09	5.843E-09	1.279E-08
BONE SUR	6.247E-15	4.003E-12	6.868E-11	1.405E-16	-1.000E+00	3.258E-10	2.219E-11
BREAST	6.818E-15	4.473E-12	7.674E-11	1.570E-16	-1.000E+00	3.465E-11	1.872E-11
TESTES	6.723E-15	4.302E-12	7.379E-11	1.509E-16	-1.000E+00	6.749E-12	1.364E-11
OVARIES	4.091E-15	2.539E-12	4.356E-11	8.911E-17	-1.000E+00	8.412E-11	1.790E-10
EDEWBODY	5.891E-15	3.991E-12	6.847E-11	1.400E-16	-1.000E+00	1.849E-09	1.184E-09
THYROIDH	6.279E-15	4.003E-12	6.868E-11	1.405E-16	4.598E-12	1.825E-11	2.699E-13
ADRENALS	4.598E-15	2.847E-12	4.883E-11	9.989E-17	-1.000E+00	4.839E-11	7.681E-12
BLAD WAL	4.471E-15	2.820E-12	4.837E-11	9.894E-17	-1.000E+00	2.381E-11	4.948E-11
KIDNEYS	4.693E-15	2.982E-12	5.116E-11	1.046E-16	-1.000E+00	2.582E-11	1.912E-11
LIVER	4.408E-15	2.747E-12	4.713E-11	9.640E-17	-1.000E+00	1.800E-10	1.881E-11
PANCREAS	3.615E-15	2.232E-12	3.829E-11	7.832E-17	-1.000E+00	5.796E-11	1.898E-11
SPLEEN	4.249E-15	2.639E-12	4.527E-11	9.259E-17	-1.000E+00	4.781E-11	1.454E-11
THYMUS	5.042E-15	3.208E-12	5.504E-11	1.126E-16	-1.000E+00	7.228E-11	8.979E-13
NP-239							
STOMACH	5.296E-15	3.236E-12	3.022E-11	1.180E-16	1.059E-10	1.291E-10	3.457E-10
SMALL IN	4.630E-15	2.818E-12	2.632E-11	1.027E-16	2.413E-10	2.988E-10	8.735E-10
LUNGS	5.898E-15	3.610E-12	3.371E-11	1.316E-16	9.014E-10	2.348E-09	2.402E-12
RED MARR	5.454E-15	3.314E-12	3.095E-11	1.208E-16	7.943E-11	2.075E-10	4.660E-11
THYROID	7.991E-15	4.915E-12	4.590E-11	1.792E-16	-1.000E+00	7.599E-12	2.063E-13
LOWER LI	5.137E-15	3.149E-12	2.941E-11	1.148E-16	1.509E-09	2.916E-09	8.684E-09
BONE SUR	8.815E-15	5.437E-12	5.077E-11	1.982E-16	-1.000E+00	2.027E-09	3.609E-11
BREAST	9.037E-15	6.028E-12	5.629E-11	2.198E-16	-1.000E+00	1.623E-11	1.714E-11

TESTES	8.245E-15	5.141E-12	4.801E-11	1.874E-16	-1.000E+00	2.296E-11	1.144E-11
OVARIES	4.725E-15	2.897E-12	2.705E-11	1.056E-16	-1.000E+00	7.449E-11	1.621E-10
EDEWBODY	7.350E-15	4.572E-12	4.270E-11	1.667E-16	-1.000E+00	6.760E-10	8.807E-10
THYROIDH	7.991E-15	4.915E-12	4.590E-11	1.792E-16	4.130E-12	7.599E-12	2.063E-13
ADRENALS	5.771E-15	3.540E-12	3.306E-11	1.291E-16	-1.000E+00	2.091E-11	7.890E-12
BLAD WAL	5.391E-15	3.297E-12	3.079E-11	1.202E-16	-1.000E+00	1.849E-11	4.729E-11
KIDNEYS	5.518E-15	3.375E-12	3.152E-11	1.230E-16	-1.000E+00	1.526E-11	2.046E-11
LIVER	5.359E-15	3.279E-12	3.062E-11	1.195E-16	-1.000E+00	1.285E-10	1.529E-11
PANCREAS	4.439E-15	2.723E-12	2.543E-11	9.925E-17	-1.000E+00	2.489E-11	2.155E-11
SPLEEN	5.296E-15	3.245E-12	3.030E-11	1.183E-16	-1.000E+00	1.981E-11	1.502E-11
THYMUS	6.279E-15	3.845E-12	3.590E-11	1.402E-16	-1.000E+00	2.493E-11	8.126E-13
PU-238							
STOMACH	6.723E-19	1.396E-15	2.932E-14	4.852E-20	2.725E-10	1.134E-09	1.277E-09
SMALL IN	4.566E-19	4.249E-16	8.924E-15	1.478E-20	6.381E-10	2.222E-09	3.186E-09
LUNGS	1.008E-18	3.021E-15	6.345E-14	1.050E-19	9.682E-07	3.186E-04	8.643E-14
RED MARR	4.535E-19	1.113E-15	2.338E-14	3.869E-20	2.552E-09	5.785E-05	1.266E-08
THYROID	1.465E-18	3.724E-15	7.821E-14	1.294E-19	-1.000E+00	3.852E-10	7.993E-14
LOWER LI	6.659E-19	1.780E-15	3.738E-14	6.183E-20	6.605E-09	3.294E-08	5.656E-08
BONE SUR	1.792E-18	5.057E-15	1.062E-13	1.757E-19	-1.000E+00	7.211E-04	1.576E-07
BREAST	1.547E-17	1.004E-13	2.109E-12	3.488E-18	-1.000E+00	4.394E-10	1.804E-13
TESTES	3.615E-18	1.862E-14	3.911E-13	6.469E-19	-1.000E+00	1.038E-05	2.318E-09
OVARIES	6.659E-19	1.716E-15	3.603E-14	5.961E-20	-1.000E+00	1.041E-05	2.325E-09
EDEWBODY	4.028E-18	2.290E-14	4.809E-13	7.951E-19	-1.000E+00	7.759E-05	1.337E-08
THYROIDH	1.465E-18	3.724E-15	7.821E-14	1.294E-19	1.480E-11	3.852E-10	7.993E-14
ADRENALS	8.879E-19	3.030E-15	6.364E-14	1.053E-19	-1.000E+00	4.358E-10	8.973E-14
BLAD WAL	6.152E-19	5.216E-16	1.095E-14	1.814E-20	-1.000E+00	3.837E-10	1.536E-13
KIDNEYS	6.881E-19	6.585E-16	1.383E-14	2.289E-20	-1.000E+00	3.976E-10	9.036E-14
LIVER	6.120E-19	6.494E-16	1.364E-14	2.258E-20	-1.000E+00	1.363E-04	2.914E-08
PANCREAS	5.803E-19	1.880E-15	3.949E-14	6.532E-20	-1.000E+00	4.005E-10	1.219E-13
SPLEEN	6.437E-19	1.360E-15	2.856E-14	4.725E-20	-1.000E+00	4.029E-10	8.896E-14
THYMUS	8.276E-19	7.195E-16	1.511E-14	2.502E-20	-1.000E+00	3.954E-10	8.030E-14
PU-239							
STOMACH	1.776E-18	1.489E-15	2.909E-14	5.169E-20	2.533E-10	1.069E-09	1.196E-09
SMALL IN	1.481E-18	9.863E-16	1.881E-14	3.425E-20	5.952E-10	2.097E-09	2.991E-09
LUNGS	2.074E-18	2.210E-15	4.401E-14	7.674E-20	9.116E-07	3.213E-04	7.881E-14
RED MARR	1.671E-18	1.379E-15	2.665E-14	4.788E-20	2.400E-09	6.568E-05	1.405E-08
THYROID	2.901E-18	2.877E-15	5.717E-14	9.989E-20	-1.000E+00	3.757E-10	7.495E-14
LOWER LI	1.735E-18	1.616E-15	3.182E-14	5.613E-20	6.175E-09	3.099E-08	5.316E-08
BONE SUR	3.425E-18	3.635E-15	7.276E-14	1.262E-19	-1.000E+00	8.167E-04	1.748E-07
BREAST	8.562E-18	3.991E-14	8.344E-13	1.386E-18	-1.000E+00	3.990E-10	1.207E-13
TESTES	3.710E-18	8.548E-15	1.762E-13	2.968E-19	-1.000E+00	1.197E-05	2.631E-09
OVARIES	1.573E-18	1.479E-15	2.915E-14	5.137E-20	-1.000E+00	1.194E-05	2.624E-09
EDEWBODY	3.646E-18	1.003E-14	2.107E-13	3.484E-19	-1.000E+00	8.299E-05	1.396E-08
THYROIDH	2.901E-18	2.877E-15	5.717E-14	9.989E-20	1.381E-11	3.757E-10	7.495E-14
ADRENALS	1.998E-18	2.201E-15	4.382E-14	7.642E-20	-1.000E+00	4.015E-10	8.280E-14
BLAD WAL	1.754E-18	1.151E-15	2.196E-14	3.995E-20	-1.000E+00	3.743E-10	1.253E-13
KIDNEYS	1.785E-18	1.196E-15	2.287E-14	4.154E-20	-1.000E+00	3.831E-10	8.769E-14
LIVER	1.757E-18	1.196E-15	2.292E-14	4.154E-20	-1.000E+00	1.507E-04	3.134E-08
PANCREAS	1.484E-18	1.516E-15	2.998E-14	5.264E-20	-1.000E+00	3.858E-10	9.949E-14
SPLEEN	1.782E-18	1.489E-15	2.907E-14	5.169E-20	-1.000E+00	3.841E-10	8.468E-14
THYMUS	2.134E-18	1.397E-15	2.679E-14	4.852E-20	-1.000E+00	3.820E-10	7.536E-14
PU-240							
STOMACH	6.976E-19	1.387E-15	2.914E-14	4.820E-20	2.553E-10	1.079E-09	1.201E-09
SMALL IN	4.820E-19	4.516E-16	9.487E-15	1.570E-20	6.007E-10	2.108E-09	3.005E-09
LUNGS	1.034E-18	2.949E-15	6.193E-14	1.024E-19	9.117E-07	3.213E-04	8.206E-14
RED MARR	4.661E-19	1.095E-15	2.301E-14	3.805E-20	2.400E-09	6.562E-05	1.405E-08
THYROID	1.522E-18	3.661E-15	7.689E-14	1.272E-19	-1.000E+00	3.758E-10	7.499E-14
LOWER LI	6.849E-19	1.744E-15	3.662E-14	6.057E-20	6.224E-09	3.112E-08	5.337E-08
BONE SUR	1.842E-18	4.948E-15	1.039E-13	1.719E-19	-1.000E+00	8.145E-04	1.746E-07
BREAST	1.490E-17	9.586E-14	2.013E-12	3.330E-18	-1.000E+00	4.333E-10	1.734E-13
TESTES	3.583E-18	1.789E-14	3.758E-13	6.215E-19	-1.000E+00	1.197E-05	2.631E-09
OVARIES	6.881E-19	1.689E-15	3.547E-14	5.866E-20	-1.000E+00	1.197E-05	2.632E-09
EDEWBODY	3.958E-18	2.190E-14	4.599E-13	7.604E-19	-1.000E+00	8.291E-05	1.397E-08

THYROIDH	1.522E-18	3.661E-15	7.689E-14	1.272E-19	1.381E-11	3.758E-10	7.499E-14
ADRENALS	9.037E-19	2.940E-15	6.174E-14	1.021E-19	-1.000E+00	4.327E-10	8.670E-14
BLAD WAL	6.564E-19	5.657E-16	1.188E-14	1.966E-20	-1.000E+00	3.740E-10	1.513E-13
KIDNEYS	7.388E-19	7.063E-16	1.484E-14	2.454E-20	-1.000E+00	3.903E-10	8.755E-14
LIVER	6.501E-19	6.825E-16	1.434E-14	2.372E-20	-1.000E+00	1.505E-04	3.128E-08
PANCREAS	5.930E-19	1.826E-15	3.835E-14	6.342E-20	-1.000E+00	3.935E-10	1.173E-13
SPLEEN	6.659E-19	1.351E-15	2.837E-14	4.693E-20	-1.000E+00	3.948E-10	8.529E-14
THYMUS	8.815E-19	7.774E-16	1.633E-14	2.702E-20	-1.000E+00	3.870E-10	7.541E-14
PU-241							
STOMACH	0.000E+00	8.927E-19	3.289E-16	0.000E+00	2.415E-12	2.455E-11	6.080E-12
SMALL IN	0.000E+00	7.733E-19	2.849E-16	0.000E+00	5.838E-12	2.436E-11	1.513E-11
LUNGS	0.000E+00	1.015E-18	3.739E-16	0.000E+00	5.369E-10	3.172E-06	4.468E-15
RED MARR	0.000E+00	8.539E-19	3.146E-16	0.000E+00	4.411E-13	1.426E-06	2.780E-10
THYROID	0.000E+00	1.430E-18	5.268E-16	0.000E+00	-1.000E+00	9.130E-12	1.011E-15
LOWER LI	0.000E+00	8.569E-19	3.157E-16	0.000E+00	6.199E-11	1.805E-10	2.694E-10
BONE SUR	0.000E+00	1.615E-18	5.950E-16	0.000E+00	-1.000E+00	1.776E-05	3.467E-09
BREAST	0.000E+00	1.860E-18	6.852E-16	0.000E+00	-1.000E+00	2.141E-11	2.780E-15
TESTES	0.000E+00	1.496E-18	5.510E-16	0.000E+00	-1.000E+00	2.753E-07	5.636E-11
OVARIES	0.000E+00	7.912E-19	2.915E-16	0.000E+00	-1.000E+00	2.755E-07	5.650E-11
EDEWBODY	7.153E-20	6.100E-17	1.281E-15	2.118E-21	-1.000E+00	1.334E-06	2.069E-10
THYROIDH	0.000E+00	1.430E-18	5.268E-16	0.000E+00	1.872E-15	9.130E-12	1.011E-15
ADRENALS	0.000E+00	9.644E-19	3.553E-16	0.000E+00	-1.000E+00	4.467E-11	6.558E-15
BLAD WAL	0.000E+00	9.226E-19	3.399E-16	0.000E+00	-1.000E+00	5.505E-12	1.423E-15
KIDNEYS	0.000E+00	9.524E-19	3.509E-16	0.000E+00	-1.000E+00	3.072E-11	5.138E-15
LIVER	0.000E+00	9.166E-19	3.377E-16	0.000E+00	-1.000E+00	3.000E-06	5.439E-10
PANCREAS	0.000E+00	7.255E-19	2.673E-16	0.000E+00	-1.000E+00	3.877E-11	5.540E-15
SPLEEN	0.000E+00	8.927E-19	3.289E-16	0.000E+00	-1.000E+00	1.772E-11	1.770E-15
THYMUS	0.000E+00	1.111E-18	4.091E-16	0.000E+00	-1.000E+00	2.072E-11	1.043E-15
AM-241							
STOMACH	4.883E-16	4.036E-13	8.475E-12	1.402E-17	5.091E-10	3.251E-09	1.345E-09
SMALL IN	4.122E-16	3.378E-13	7.095E-12	1.173E-17	8.464E-10	4.191E-09	3.330E-09
LUNGS	5.930E-16	4.958E-13	1.041E-11	1.722E-17	4.703E-07	1.837E-05	3.364E-11
RED MARR	3.203E-16	2.657E-13	5.580E-12	9.228E-18	4.847E-08	1.738E-04	1.448E-06
THYROID	9.418E-16	7.834E-13	1.645E-11	2.721E-17	-1.000E+00	1.596E-09	1.321E-11
LOWER LI	4.313E-16	3.588E-13	7.536E-12	1.246E-17	6.275E-09	3.161E-08	5.810E-08
BONE SUR	1.091E-15	9.112E-13	1.914E-11	3.165E-17	-1.000E+00	2.166E-03	1.802E-05
BREAST	1.259E-15	1.370E-12	2.876E-11	4.756E-17	-1.000E+00	2.666E-09	2.625E-11
TESTES	9.862E-16	8.738E-13	1.835E-11	3.035E-17	-1.000E+00	3.243E-05	2.693E-07
OVARIES	4.344E-16	3.606E-13	7.574E-12	1.253E-17	-1.000E+00	3.251E-05	2.706E-07
EDEWBODY	8.264E-16	7.533E-13	1.582E-11	2.616E-17	-1.000E+00	1.197E-04	9.819E-07
THYROIDH	9.418E-16	7.834E-13	1.645E-11	2.721E-17	2.761E-10	1.596E-09	1.321E-11
ADRENALS	4.788E-16	4.026E-13	8.456E-12	1.398E-17	-1.000E+00	5.462E-09	4.608E-11
BLAD WAL	5.486E-16	4.510E-13	9.473E-12	1.566E-17	-1.000E+00	1.342E-09	2.285E-11
KIDNEYS	5.930E-16	4.876E-13	1.024E-11	1.693E-17	-1.000E+00	4.371E-09	3.986E-11
LIVER	5.327E-16	4.392E-13	9.223E-12	1.525E-17	-1.000E+00	3.908E-04	3.247E-06
PANCREAS	3.330E-16	2.785E-13	5.848E-12	9.672E-18	-1.000E+00	4.691E-09	4.238E-11
SPLEEN	4.693E-16	3.880E-13	8.149E-12	1.348E-17	-1.000E+00	2.029E-09	1.944E-11
THYMUS	7.293E-16	5.999E-13	1.260E-11	2.083E-17	-1.000E+00	1.706E-09	1.362E-11
CM-242							
STOMACH	7.008E-19	1.652E-15	3.421E-14	5.740E-20	5.453E-10	1.627E-09	1.423E-09
SMALL IN	4.439E-19	4.317E-16	8.939E-15	1.500E-20	8.934E-10	2.656E-09	3.545E-09
LUNGS	1.081E-18	3.541E-15	7.333E-14	1.230E-19	4.630E-07	1.546E-05	8.833E-12
RED MARR	4.915E-19	1.296E-15	2.684E-14	4.503E-20	5.125E-08	3.908E-06	3.581E-08
THYROID	1.560E-18	4.581E-15	9.487E-14	1.592E-19	-1.000E+00	9.384E-10	8.805E-12
LOWER LI	7.135E-19	2.090E-15	4.328E-14	7.262E-20	6.546E-09	3.118E-08	6.234E-08
BONE SUR	1.899E-18	5.886E-15	1.219E-13	2.045E-19	-1.000E+00	4.862E-05	4.463E-07
BREAST	1.719E-17	1.059E-13	2.192E-12	3.678E-18	-1.000E+00	9.415E-10	8.935E-12
TESTES	4.186E-18	2.172E-14	4.498E-13	7.547E-19	-1.000E+00	5.695E-07	5.190E-09
OVARIES	7.040E-19	2.017E-15	4.177E-14	7.008E-20	-1.000E+00	5.699E-07	5.198E-09
EDEWBODY	4.502E-18	2.482E-14	5.139E-13	8.623E-19	-1.000E+00	4.663E-06	3.102E-08
THYROIDH	1.560E-18	4.581E-15	9.487E-14	1.592E-19	3.048E-10	9.384E-10	8.805E-12
ADRENALS	9.703E-19	3.504E-15	7.257E-14	1.218E-19	-1.000E+00	9.424E-10	8.845E-12
BLAD WAL	5.803E-19	4.809E-16	9.960E-15	1.671E-20	-1.000E+00	9.383E-10	8.909E-12

KIDNEYS	6.501E-19	6.854E-16	1.419E-14	2.381E-20	-1.000E+00	9.395E-10	8.833E-12
LIVER	5.993E-19	6.945E-16	1.438E-14	2.413E-20	-1.000E+00	1.223E-05	1.129E-07
PANCREAS	6.342E-19	2.172E-15	4.498E-14	7.547E-20	-1.000E+00	9.397E-10	8.870E-12
SPLEEN	6.723E-19	1.597E-15	3.307E-14	5.549E-20	-1.000E+00	9.394E-10	8.825E-12
THYMUS	7.801E-19	6.835E-16	1.416E-14	2.375E-20	-1.000E+00	9.390E-10	8.812E-12
CM-244							
STOMACH	5.105E-19	1.389E-15	2.914E-14	4.820E-20	5.191E-10	1.712E-09	1.356E-09
SMALL IN	3.000E-19	3.090E-16	6.480E-15	1.072E-20	8.501E-10	2.737E-09	3.362E-09
LUNGS	8.308E-19	3.052E-15	6.404E-14	1.059E-19	4.950E-07	1.925E-05	8.846E-12
RED MARR	3.583E-19	1.097E-15	2.301E-14	3.805E-20	5.102E-08	9.330E-05	7.766E-07
THYROID	1.186E-18	3.929E-15	8.244E-14	1.364E-19	-1.000E+00	1.015E-09	8.467E-12
LOWER LI	5.359E-19	1.791E-15	3.758E-14	6.215E-20	6.289E-09	3.147E-08	5.967E-08
BONE SUR	1.446E-18	5.072E-15	1.064E-13	1.760E-19	-1.000E+00	1.171E-03	9.748E-06
BREAST	1.509E-17	9.504E-14	1.994E-12	3.298E-18	-1.000E+00	1.052E-09	8.920E-12
TESTES	3.520E-18	1.919E-14	4.026E-13	6.659E-19	-1.000E+00	1.584E-05	1.319E-07
OVARIES	5.296E-19	1.727E-15	3.624E-14	5.993E-20	-1.000E+00	1.587E-05	1.324E-07
EDEWBODY	3.831E-18	2.208E-14	4.633E-13	7.662E-19	-1.000E+00	6.687E-05	5.429E-07
THYROIDH	1.186E-18	3.929E-15	8.244E-14	1.364E-19	2.909E-10	1.015E-09	8.467E-12
ADRENALS	7.547E-19	3.043E-15	6.385E-14	1.056E-19	-1.000E+00	1.113E-09	9.276E-12
BLAD WAL	3.932E-19	3.319E-16	6.960E-15	1.151E-20	-1.000E+00	1.011E-09	8.646E-12
KIDNEYS	4.503E-19	5.109E-16	1.072E-14	1.773E-20	-1.000E+00	1.059E-09	8.891E-12
LIVER	4.091E-19	5.237E-16	1.099E-14	1.817E-20	-1.000E+00	2.379E-04	1.984E-06
PANCREAS	4.852E-19	1.882E-15	3.950E-14	6.532E-20	-1.000E+00	1.056E-09	8.895E-12
SPLEEN	4.915E-19	1.334E-15	2.799E-14	4.630E-20	-1.000E+00	1.027E-09	8.574E-12
THYMUS	5.296E-19	4.818E-16	1.010E-14	1.671E-20	-1.000E+00	1.020E-09	8.493E-12

```
* GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "ATMOS" INPUT
*
RIATNAM1001 'ATMOS INPUT FOR PNPS CALCULATIONS'
*******************************************************************************
* GEOMETRY DATA BLOCK, LOADED BY INPGEO, STORED IN /GEOM/
*
* NUMBER OF RADIAL SPATIAL ELEMENTS
*
GENUMRAD001  15
*
*
*
GESPAEND001      0.53       1.61       3.23       4.84       6.45
GESPAEND002      8.06       9.68      11.29      12.90      14.52
GESPAEND003     16.13      32.26      48.39      64.52      80.65
*******************************************************************************
* NUCLIDE DATA BLOCK, LOADED BY INPISO, STORED IN /ISOGRP/, /ISONAM/
*
* Number of pseudo-stable nuclides (used to truncate the decay chains)
*
ISNUMSTB001       27
*
* List of pseudo-stable nuclides
*
ISNAMSTB001      I-129    (daughter of Te-129 and Te-129m)
ISNAMSTB002      Xe-131m  (daughter of I-131)
ISNAMSTB003      Xe-133m  (daughter of I-133)
ISNAMSTB004      Xe-135m  (daughter of I-135)
ISNAMSTB005      Cs-135   (daughter of Xe-135 and Xe-135m)
ISNAMSTB006      Sm-147   (daughter of Pm-147)
ISNAMSTB007      U-234    (daughter of Pu-238)
ISNAMSTB008      U-235    (daughter of Pu-239)
ISNAMSTB009      U-236    (daughter of Pu-240)
ISNAMSTB010      U-237    (daughter of Pu-241)
ISNAMSTB011      Np-237   (daughter of Am-241)
ISNAMSTB012      Rb-87    (daughter of Kr-87)
ISNAMSTB013      Ba-137m  (daughter of Cs-137)
ISNAMSTB014      Rb-88    (daughter of Kr-88)
ISNAMSTB015      Y-91m    (daughter of Sr-91)
ISNAMSTB016      Zr-93    (daughter of Y-93)
ISNAMSTB017      Nb-93m   (daughter of Zr-93)
ISNAMSTB018      Nb-95m   (daughter of Zr-95)
ISNAMSTB019      Nb-97    (daughter of Zr-97 and Nb-97m)
ISNAMSTB020      Nb-97m   (daughter of Zr-97)
ISNAMSTB021      Tc-99    (daughter of Mo-99)
ISNAMSTB022      Rh-103m  (daughter of Ru-103)
ISNAMSTB023      Rh-106   (daughter of Ru-106)
ISNAMSTB024     Te-131    (daughter of Te-131m)
ISNAMSTB025      Pr-144   (daughter of Ce-144 and Pr-144m)
ISNAMSTB026      Pr-144m  (daughter of Ce-144)
ISNAMSTB027      Pm-147   (daughter of Nd-147)
*
* Number of radioactive nuclides to be considered
*
ISNUMISO001 60
*
* NUMBER OF NUCLIDE GROUPS
*
ISMAXGRP001  9
*
* WET AND DRY DEPOSITION FLAGS FOR EACH NUCLIDE GROUP
*
*              WETDEP     DRYDEP
```

```
*
ISDEPFLA001     .FALSE.    .FALSE.
ISDEPFLA002     .TRUE.     .TRUE.
ISDEPFLA003     .TRUE.     .TRUE.
ISDEPFLA004     .TRUE.     .TRUE.
ISDEPFLA005     .TRUE.     .TRUE.
ISDEPFLA006     .TRUE.     .TRUE.
ISDEPFLA007     .TRUE.     .TRUE.
ISDEPFLA008     .TRUE.     .TRUE.
ISDEPFLA009     .TRUE.     .TRUE.
*
* NUCLIDE GROUP DATA FOR 9 NUCLIDE GROUPS
*
*                NUCNAM     IGROUP
*
ISOTPGRP001      Co-58         6
ISOTPGRP002      Co-60         6
ISOTPGRP003      Kr-85         1
ISOTPGRP004      Kr-85m        1
ISOTPGRP005      Kr-87         1
ISOTPGRP006      Kr-88         1
ISOTPGRP007      Rb-86         3
ISOTPGRP008      Sr-89         5
ISOTPGRP009      Sr-90         5
ISOTPGRP010      Sr-91         5
ISOTPGRP011      Sr-92         5
ISOTPGRP012      Y-90          7
ISOTPGRP013      Y-91          7
ISOTPGRP014      Y-92          7
ISOTPGRP015      Y-93          7
ISOTPGRP016      Zr-95         7
ISOTPGRP017      Zr-97         7
ISOTPGRP018      Nb-95         7
ISOTPGRP019      Mo-99         6
ISOTPGRP020      Tc-99m        6
ISOTPGRP021      Ru-103        6
ISOTPGRP022      Ru-105        6
ISOTPGRP023      Ru-106        6
ISOTPGRP024      Rh-105        6
ISOTPGRP025      Sb-127        4
ISOTPGRP026      Sb-129        4
ISOTPGRP027      Te-127        4
ISOTPGRP028      Te-127m       4
ISOTPGRP029      Te-129        4
ISOTPGRP030      Te-129m       4
ISOTPGRP031      Te-131m       4
ISOTPGRP032      Te-132        4
ISOTPGRP033      I-131         2
ISOTPGRP034      I-132         2
ISOTPGRP035      I-133         2
ISOTPGRP036      I-134         2
ISOTPGRP037      I-135         2
ISOTPGRP038      Xe-133        1
ISOTPGRP039      Xe-135        1
ISOTPGRP040      Cs-134        3
ISOTPGRP041      Cs-136        3
ISOTPGRP042      Cs-137        3
ISOTPGRP043      Ba-139        9
ISOTPGRP044      Ba-140        9
ISOTPGRP045      La-140        7
ISOTPGRP046      La-141        7
ISOTPGRP047      La-142        7
ISOTPGRP048      Ce-141        8
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ISOTPGRP049     Ce-143       8
ISOTPGRP050     Ce-144       8
ISOTPGRP051     Pr-143       7
ISOTPGRP052     Nd-147       7
ISOTPGRP053     Np-239       8
ISOTPGRP054     Pu-238       8
ISOTPGRP055     Pu-239       8
ISOTPGRP056     Pu-240       8
ISOTPGRP057     Pu-241       8
ISOTPGRP058     Am-241       7
ISOTPGRP059     Cm-242       7
ISOTPGRP060     Cm-244       7
*******************************************************************************
* WET DEPOSITION DATA BLOCK, LOADED BY INPWET, STORED IN /WETCON/
*
* WASHOUT COEFFICIENT NUMBER ONE, LINEAR FACTOR
*
WDCWASH1001  9.5E-5   (JON HELTON AFTER JONES, 1986)
*
* WASHOUT COEFFICIENT NUMBER TWO, EXPONENTIAL FACTOR
*
WDCWASH2001  0.8      (JON HELTON AFTER JONES, 1986)
*******************************************************************************
* DRY DEPOSITION DATA BLOCK, LOADED BY INPDRY, STORED IN /DRYCON/
*
* NUMBER OF PARTICLE SIZE GROUPS
*
DDNPSGRP001   1
*
* DEPOSITION VELOCITY OF EACH PARTICLE SIZE GROUP (M/S)
*
DDVDEPOS001   0.01   (VALUE SELECTED BY S. ACHARYA, NRC)
*******************************************************************************
* DISPERSION PARAMETER DATA BLOCK, LOADED BY INPDIS, STORED IN /DISPY/, /DISPZ/
*
* # of distances in plume-size tables--which can be used as an alternative to the
power-law model:
* (to utilize the power-law model, set NUM_DIST to zero or delete the following data
card)
*
NUM_DIST001   0
*
* SIGMA = A * X ** B
*
* Tadmor and Gur Parameterization for Distance Range 0.5 to 5.0 km
* as taken from Atmospheric Motion and Air Pollution (Dobbins 1979).
* P-G CLASS:          A            B            C            D            E
 F
DPCYSIGA001         0.3658       0.2751       0.2089       0.1474       0.1046
0.0722
DPCYSIGB001         0.9031       0.9031       0.9031       0.9031       0.9031
0.9031
DPCZSIGA001         2.5E-4       1.9E-3       0.2          0.3          0.4
0.2
DPCZSIGB001         2.125        1.6021       0.8543       0.6532       0.6021
0.6020
*
*  LINEAR SCALING FACTOR FOR SIGMA-Y FUNCTION, NORMALLY 1
*
DPYSCALE001    1.
*
*  LINEAR SCALING FACTOR FOR SIGMA-Z FUNCTION,
*  NORMALLY USED FOR SURFACE ROUGHNESS LENGTH CORRECTION.
```

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*  (Z1 / Z0) ** 0.2,    FROM CRAC2 WE HAVE  (10 CM / 3 CM) ** 0.2 = 1.27
*
DPZSCALE001    1.27
************************************************************************** *
* EXPANSION FACTOR DATA BLOCK, LOADED BY INPEXP, STORED IN /EXPAND/
*
* TIME BASE FOR EXPANSION FACTOR (SECONDS)
*
PMTIMBAS001    600.    (10 MINUTES)
*
* BREAK POINT FOR FORMULA CHANGE (SECONDS)
*
PMBRKPNT001    3600.    (1 HOUR)
*
* EXPONENTIAL EXPANSION FACTOR NUMBER 1
*
PMXPFAC1001      0.2
*
* EXPONENTIAL EXPANSION FACTOR NUMBER 2
*
PMXPFAC2001      0.25
************************************************************************************
* PLUME RISE DATA BLOCK, LOADED BY INPLRS, STORED IN /PLUMRS/
*
* SCALING FACTOR FOR THE CRITICAL WIND SPEED FOR ENTRAINMENT OF A BOUYANT PLUME
* (USED BY FUNCTION CAUGHT)
*
PRSCLCRW001    1.
*
* SCALING FACTOR FOR THE A-D STABILITY PLUME RISE FORMULA
* (USED BY FUNCTION PLMRIS)
*
PRSCLADP001    1.
*
* SCALING FACTOR FOR THE E-F STABILITY PLUME RISE FORMULA
* (USED BY FUNCTION PLMRIS)
*
PRSCLEFP001    1.
************************************************************************************
* RELEASE DATA BLOCK, LOADED BY INPREL, STORED IN /ATNAM2/, /MULREL/
************************ RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  1 OF 19
RDATNAM2001 'CAPB-1'
*
* TIME AFTER ACCIDENT INITIATION WHEN THE ACCIDENT REACHES GENERAL EMERGENCY
* CONDITIONS (AS DEFINED IN NUREG-0654), OR WHEN PLANT PERSONNEL CAN RELIABLY
* PREDICT THAT GENERAL EMERGENCY CONDITIONS WILL BE ATTAINED
*
RDOALARM001    3.98E+03
*
* NUMBER OF PLUME SEGMENTS THAT ARE RELEASED
*
RDNUMREL001           1
*
* SELECTION OF RISK DOMINANT PLUME
*
RDMAXRIS001           1
*
* REFERENCE TIME FOR DISPERSION AND RADIOACTIVE DECAY
*
RDREFTIM001         0.5
*
* HEAT CONTENT OF THE RELEASE SEGMENTS (W)
```

```
* A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
*
RDPLHEAT001    2.61E+05
*
* HEIGHT OF THE PLUME SEGMENTS AT RELEASE (M)
* A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
*
RDPLHITE001         30.
*
* DURATION OF THE PLUME SEGMENTS (S)
* A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
*
RDPLUDUR001    9.00E+03
*
* TIME OF RELEASE FOR EACH PLUME (S AFTER SCRAM)
* A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
*
RDPDELAY001    2.20E+04
*
* Initial value of sigma-y for each plume--Note: values required for each plume
*
SIGYINIT001  9.9   (initial sigma-y = W/4.3 = 42.7/4.3)
*
* Initial value of sigma-z for each plume--Note: values required for each plume
*
SIGZINIT001  20.4  (initial sigma-z = H/2.15 = 43.9/2.15)
*
* Building height (meters)--Note: values required for each plume
*
WEBUILDH001    43.9
*
* PARTICLE SIZE DISTRIBUTION OF EACH NUCLIDE GROUP
* YOU MUST SPECIFY A COLUMN OF DATA FOR EACH OF THE PARTICLE SIZE GROUPS
*
RDPSDIST001       1.
RDPSDIST002       1.
RDPSDIST003       1.
RDPSDIST004       1.
RDPSDIST005       1.
RDPSDIST006       1.
RDPSDIST007       1.
RDPSDIST008       1.
RDPSDIST009       1.
*
* 3578 MWTH BWR CORE INVENTORY (NUREG/CR-4551, Vol. 2, Rev. 1)
*
*
*                 NUCNAM          CORINV (Bq)
*
RDCORINV001       Co-58           2.024E+16
RDCORINV002       Co-60           2.423E+16
RDCORINV003       Kr-85           3.317E+16
RDCORINV004       Kr-85m          1.206E+18
RDCORINV005       Kr-87           2.193E+18
RDCORINV006       Kr-88           2.960E+18
RDCORINV007       Rb-86           1.856E+15
RDCORINV008       Sr-89           3.673E+18
RDCORINV009       Sr-90           3.250E+17
RDCORINV010       Sr-91           4.771E+18
RDCORINV011       Sr-92           4.984E+18
RDCORINV012       Y-90            2.783E+17
RDCORINV013       Y-91            4.482E+18
RDCORINV014       Y-92            5.004E+18
```

```
RDCORINV015     Y-93          5.690E+18
RDCORINV016     Zr-95         5.899E+18
RDCORINV017     Zr-97         6.073E+18
RDCORINV018     Nb-95         5.581E+18
RDCORINV019     Mo-99         6.436E+18
RDCORINV020     Tc-99m        5.554E+18
RDCORINV021     Ru-103        4.877E+18
RDCORINV022     Ru-105        3.254E+18
RDCORINV023     Ru-106        1.327E+18
RDCORINV024     Rh-105        2.429E+18
RDCORINV025     Sb-127        3.077E+17
RDCORINV026     Sb-129        1.068E+18
RDCORINV027     Te-127        2.979E+17
RDCORINV028     Te-127m       4.010E+16
RDCORINV029     Te-129        1.002E+18
RDCORINV030     Te-129m       2.634E+17
RDCORINV031     Te-131m       5.058E+17
RDCORINV032     Te-132        4.944E+18
RDCORINV033     I-131         3.417E+18
RDCORINV034     I-132         5.020E+18
RDCORINV035     I-133         7.172E+18
RDCORINV036     I-134         7.850E+18
RDCORINV037     I-135         6.751E+18
RDCORINV038     Xe-133        7.182E+18
RDCORINV039     Xe-135        1.707E+18
RDCORINV040     Cs-134        6.995E+17
RDCORINV041     Cs-136        1.501E+17
RDCORINV042     Cs-137        4.200E+17
RDCORINV043     Ba-139        6.612E+18
RDCORINV044     Ba-140        6.522E+18
RDCORINV045     La-140        6.655E+18
RDCORINV046     La-141        6.145E+18
RDCORINV047     La-142        5.912E+18
RDCORINV048     Ce-141        5.922E+18
RDCORINV049     Ce-143        5.765E+18
RDCORINV050     Ce-144        3.841E+18
RDCORINV051     Pr-143        5.643E+18
RDCORINV052     Nd-147        2.522E+18
RDCORINV053     Np-239        7.516E+19
RDCORINV054     Pu-238        5.226E+15
RDCORINV055     Pu-239        1.325E+15
RDCORINV056     Pu-240        1.659E+15
RDCORINV057     Pu-241        2.856E+17
RDCORINV058     Am-241        2.903E+14
RDCORINV059     Cm-242        7.667E+16
RDCORINV060     Cm-244        4.137E+15
*
*  SCALING FACTOR TO ADJUST THE CORE INVENTORY FOR POWER LEVEL
*
*         POWER LEVEL (MWTH)    3578    2028
*         SCALING FACTOR        1.0     0.567
*
RDCORSCA001   0.567
*
RDAPLFRC001   PARENT      (apply rel fracs the same as prior versions)
*
* RELEASE FRACTIONS FOR ISOTOPE GROUPS IN RELEASE
*
*  ISOTOPE GROUPS:
*
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 2.0E-07 1.9E-07 1.9E-07 0.0E+00 1.2E-09 8.0E-09 5.0E-11 8.4E-11 1.7E-08
```

```
*
*******************************************************************************
* OUTPUT CONTROL DATA BLOCK, LOADED BY INPOPT, STORED IN /STOPME/, /ATMOPT/
*
* FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
*
OCENDAT1001  .FALSE. (SET THIS VALUE TO .TRUE. TO SKIP EARLY AND CHRONC)
*
OCIDEBUG001  0
*
* NAME OF THE NUCLIDE TO BE LISTED ON THE DISPERSION LISTINGS
*
*OCNUCOUT001  Cs-137
*
*               NUM0
TYPE0NUMBER      0
*
*               INDREL   INDRAD
*TYPE0OUT001       1        9
*TYPE0OUT002       1       10          XCCDF
*******************************************************************************
* METEOROLOGICAL SAMPLING DATA BLOCK
*
* METEOROLOGICAL SAMPLING OPTION CODE:
*
* METCOD = 1, USER SPECIFIED DAY AND HOUR IN THE YEAR (FROM MET FILE),
*          2, WEATHER CATEGORY BIN SAMPLING,
*          3, 120 HOURS OF WEATHER SPECIFIED ON THE ATMOS USER INPUT FILE,
*          4, CONSTANT MET (BOUNDARY WEATHER USED FROM THE START),
*          5, STRATIFIED RANDOM SAMPLES FOR EACH DAY OF THE YEAR.
*
M1METCOD001  2
*
* LAST SPATIAL INTERVAL FOR MEASURED WEATHER
*
M2LIMSPA001  15
*
* BOUNDARY WEATHER MIXING LAYER HEIGHT
*
M2BNDMXH001  1000.  (METERS)
*
* BOUNDARY WEATHER STABILITY CLASS INDEX
*
M2IBDSTB001  4      (D-STABILITY)
*
* BOUNDARY WEATHER RAIN RATE
*
M2BNDRAN001  0.     (MM/HR)
*
* BOUNDARY WEATHER WIND SPEED
*
M2BNDWND001  5.     (M/S)
*
* NUMBER OF RAIN DISTANCE INTERVALS FOR BINNING
*
M4NRNINT001  6
*
* ENDPOINTS OF THE RAIN DISTANCE INTERVALS (KILOMETERS)
*
* NOTE: THESE MUST BE CHOSEN TO MATCH THE SPATIAL ENDPOINT DISTANCES
*       SPECIFIED FOR THE ARRAY SPAEND (10 % ERROR IS ALLOWED).
*
*             2.0    4.0      7     10.0     20.0   40.0   MILES
```

```
*
M4RNDSTS001  3.23  6.45    11.29   16.13    32.26  64.52   KM
*
* NUMBER OF RAIN INTENSITIY BREAKPOINTS
*
M4NRINTN001   3
*
* RAIN INTENSITY BREAKPOINTS FOR WEATHER BINNING (MILLIMETERS PER HOUR)
*
M4RNRATE001   2.  4.  6.
*
* NUMBER OF SAMPLES PER BIN
*
M4NSMPLS001  4  (THIS NUMBER SHOULD BE SET TO 4 FOR RISK ASSESSMENT)
*
* INITIAL SEED FOR RANDOM NUMBER GENERATOR
*
M4IRSEED001   79
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  2 OF 19
*
RDATNAM2001 'CAPB-2'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.20E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E-04 4.8E-05 4.7E-05 1.8E-07 4.0E-07 4.0E-06 1.7E-08 5.2E-08 4.9E-06
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  3 OF 19
*
RDATNAM2001 'CAPB-3'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.20E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E-04 5.4E-05 5.0E-05 1.8E-06 5.8E-07 4.0E-06 2.4E-08 1.6E-07 5.0E-06
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  4 OF 19
*
RDATNAM2001 'CAPB-4'
*
RDOALARM001   7.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   1.10E+07
```

```
RDPLHITE001   30.
RDPLUDUR001   3.56E+03
RDPDELAY001   1.83E+04
*            Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 4.9E-02 2.6E-02 4.2E-05 2.5E-05 3.7E-04 9.0E-07 3.0E-06 1.9E-04
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  5 OF 19
*
RDATNAM2001 'CAPB-5'
*
RDOALARM001   1.31E+04
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   8.34E+06

RDPLHITE001   30.
RDPLUDUR001   7.93E+03

RDPDELAY001   2.53E+04
*            Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 9.9E-01 7.9E-02 3.7E-02 4.3E-05 4.1E-05 3.7E-04 1.6E-06 6.8E-06 3.4E-04

.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  6 OF 19
*
RDATNAM2001 'CAPB-6'
*
RDOALARM001   1.33E+04
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   8.23E+06

RDPLHITE001   30.
RDPLUDUR001   8.11E+03
RDPDELAY001   2.56E+04
*            Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 4.0E-02 2.3E-02 1.5E-03 3.2E-04 3.7E-04 6.5E-06 7.2E-05 3.2E-04

.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  7 OF 19
*
RDATNAM2001 'CAPB-7'
*
RDOALARM001   1.38E+04

RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   8.03E+06

RDPLHITE001   30.
RDPLUDUR001   8.46E+03
RDPDELAY001   2.61E+04
*            Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
```

```
RDRELFRC001 9.8E-01 6.1E-02 2.9E-02 1.3E-03 2.3E-04 3.7E-04 9.1E-06 1.1E-04 4.5E-04

.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  8 OF 19
*
RDATNAM2001 'CAPB-8'
*
RDOALARM001   9.18E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   1.04E+07
RDPLHITE001   30.
RDPLUDUR001   4.59E+03

RDPDELAY001   2.00E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 3.0E-01 2.7E-01 3.1E-05 9.9E-04 2.2E-02 4.5E-05 6.6E-05 1.2E-02

.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  9 OF 19
*
RDATNAM2001 'CAPB-9'
*
RDOALARM001   9.21E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   4.18E+06
RDPLHITE001   30.
RDPLUDUR001   8.87E+03
RDPDELAY001   2.44E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 6.0E-01 7.6E-02 7.1E-02 1.4E-05 9.7E-04 1.1E-02 3.7E-05 7.6E-05 1.0E-02

.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  10 OF 19
*
RDATNAM2001 'CAPB-10'
*
RDOALARM001   1.37E+04
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   8.06E+06
RDPLHITE001   30.
RDPLUDUR001   8.40E+03

RDPDELAY001   2.60E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 2.8E-01 2.5E-01 1.1E-02 3.1E-03 1.8E-02 8.0E-05 5.8E-04 1.0E-02

.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  11 OF 19
*
RDATNAM2001 'CAPB-11'
*
RDOALARM001   1.37E+04
RDNUMREL001   1
```

```
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   8.06E+06

RDPLHITE001   30.
RDPLUDUR001   8.40E+03

RDPDELAY001   2.60E+04
*             Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 9.8E-01 1.7E-01 1.4E-01 1.0E-02 3.1E-03 1.8E-02 1.2E-04 9.4E-04 1.7E-02
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  12 OF 19
*
RDATNAM2001 'CAPB-12'
*
RDOALARM001   2.84E+04
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   7.59E+06

RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   4.64E+04

*             Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 2.0E-01 5.8E-05 4.4E-05 1.3E-07 2.4E-07 1.7E-06 8.0E-09 2.6E-08 3.0E-06
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  13 OF 19
*
RDATNAM2001 'CAPB-13'
*
RDOALARM001   9.14E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   1.80E+06

RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.71E+04

*             Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 8.0E-03 6.0E-03 1.8E-04 3.6E-05 3.7E-04 2.2E-06 1.4E-05 4.5E-04
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  14 OF 19
*
RDATNAM2001 'CAPB-14'
*
RDOALARM001   2.66E+04

RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   7.08E+06
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
```

```
RDPDELAY001   4.46E+04

*            Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 7.8E-01 2.9E-02 2.7E-02 2.5E-05 2.1E-04 2.1E-03 8.5E-06 2.3E-05 2.6E-03

.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  15 OF 19
*
RDATNAM2001 'CAPB-15'
*
RDOALARM001   2.81E+04
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   7.60E+06
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   4.62E+04

*            Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 2.8E-01 2.7E-01 1.3E-03 2.3E-03 2.3E-02 9.3E-05 3.0E-04 2.7E-02
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  2 OF 19
*
RDATNAM2001 'CAPB-16'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.12E+04
*            Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 6.7E-02 3.3E-02 4.1E-04 9.1E-05 2.2E-02 1.5E-06 1.7E-05 4.3E-05

.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  17 OF 19
*
RDATNAM2001 'CAPB-17'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.14E+04
*            Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 9.7E-01 3.6E-01 3.4E-01 1.3E-03 2.4E-03 2.2E-02 9.9E-05 1.6E-04 8.6E-03

.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  18 OF 19
```

```
*
RDATNAM2001 'CAPB-18'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.12E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 9.8E-02 6.3E-02 2.1E-02 4.7E-03 2.3E-02 7.5E-05 8.5E-04 2.1E-03

.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  19 OF 19
*
RDATNAM2001 'CAPB-19'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.18E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 9.7E-01 4.0E-01 3.8E-01 6.9E-02 9.6E-03 2.3E-02 3.0E-04 2.3E-03 1.2E-02

.
```

```
* GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "ATMOS" INPUT
*
RIATNAM1001 'ATMOS INPUT FOR PNPS CALCULATIONS'
*******************************************************************************
* GEOMETRY DATA BLOCK, LOADED BY INPGEO, STORED IN /GEOM/
*
* NUMBER OF RADIAL SPATIAL ELEMENTS
*
GENUMRAD001  15
*
*
*
GESPAEND001     0.53      1.61      3.23      4.84      6.45
GESPAEND002     8.06      9.68     11.29     12.90     14.52
GESPAEND003    16.13     32.26     48.39     64.52     80.65
*******************************************************************************
* NUCLIDE DATA BLOCK, LOADED BY INPISO, STORED IN /ISOGRP/, /ISONAM/
*
* Number of pseudo-stable nuclides (used to truncate the decay chains)
*
ISNUMSTB001      27
*
* List of pseudo-stable nuclides
*
ISNAMSTB001     I-129    (daughter of Te-129 and Te-129m)
ISNAMSTB002     Xe-131m  (daughter of I-131)
ISNAMSTB003     Xe-133m  (daughter of I-133)
ISNAMSTB004     Xe-135m  (daughter of I-135)
ISNAMSTB005     Cs-135   (daughter of Xe-135 and Xe-135m)
ISNAMSTB006     Sm-147   (daughter of Pm-147)
ISNAMSTB007     U-234    (daughter of Pu-238)
ISNAMSTB008     U-235    (daughter of Pu-239)
ISNAMSTB009     U-236    (daughter of Pu-240)
ISNAMSTB010     U-237    (daughter of Pu-241)
ISNAMSTB011     Np-237   (daughter of Am-241)
ISNAMSTB012     Rb-87    (daughter of Kr-87)
ISNAMSTB013     Ba-137m  (daughter of Cs-137)
ISNAMSTB014     Rb-88    (daughter of Kr-88)
ISNAMSTB015     Y-91m    (daughter of Sr-91)
ISNAMSTB016     Zr-93    (daughter of Y-93)
ISNAMSTB017     Nb-93m   (daughter of Zr-93)
ISNAMSTB018     Nb-95m   (daughter of Zr-95)
ISNAMSTB019     Nb-97    (daughter of Zr-97 and Nb-97m)
ISNAMSTB020     Nb-97m   (daughter of Zr-97)
ISNAMSTB021     Tc-99    (daughter of Mo-99)
ISNAMSTB022     Rh-103m  (daughter of Ru-103)
ISNAMSTB023     Rh-106   (daughter of Ru-106)
ISNAMSTB024    Te-131    (daughter of Te-131m)
ISNAMSTB025     Pr-144   (daughter of Ce-144 and Pr-144m)
ISNAMSTB026     Pr-144m  (daughter of Ce-144)
ISNAMSTB027     Pm-147   (daughter of Nd-147)
*
* Number of radioactive nuclides to be considered
*
ISNUMISO001 60
*
* NUMBER OF NUCLIDE GROUPS
*
ISMAXGRP001  9
*
* WET AND DRY DEPOSITION FLAGS FOR EACH NUCLIDE GROUP
*
*              WETDEP     DRYDEP
```

```
*
ISDEPFLA001     .FALSE.    .FALSE.
ISDEPFLA002     .TRUE.     .TRUE.
ISDEPFLA003     .TRUE.     .TRUE.
ISDEPFLA004     .TRUE.     .TRUE.
ISDEPFLA005     .TRUE.     .TRUE.
ISDEPFLA006     .TRUE.     .TRUE.
ISDEPFLA007     .TRUE.     .TRUE.
ISDEPFLA008     .TRUE.     .TRUE.
ISDEPFLA009     .TRUE.     .TRUE.
*
* NUCLIDE GROUP DATA FOR 9 NUCLIDE GROUPS
*
*                NUCNAM     IGROUP
*
ISOTPGRP001      Co-58         6
ISOTPGRP002      Co-60         6
ISOTPGRP003      Kr-85         1
ISOTPGRP004      Kr-85m        1
ISOTPGRP005      Kr-87         1
ISOTPGRP006      Kr-88         1
ISOTPGRP007      Rb-86         3
ISOTPGRP008      Sr-89         5
ISOTPGRP009      Sr-90         5
ISOTPGRP010      Sr-91         5
ISOTPGRP011      Sr-92         5
ISOTPGRP012      Y-90          7
ISOTPGRP013      Y-91          7
ISOTPGRP014      Y-92          7
ISOTPGRP015      Y-93          7
ISOTPGRP016      Zr-95         7
ISOTPGRP017      Zr-97         7
ISOTPGRP018      Nb-95         7
ISOTPGRP019      Mo-99         6
ISOTPGRP020      Tc-99m        6
ISOTPGRP021      Ru-103        6
ISOTPGRP022      Ru-105        6
ISOTPGRP023      Ru-106        6
ISOTPGRP024      Rh-105        6
ISOTPGRP025      Sb-127        4
ISOTPGRP026      Sb-129        4
ISOTPGRP027      Te-127        4
ISOTPGRP028      Te-127m       4
ISOTPGRP029      Te-129        4
ISOTPGRP030      Te-129m       4
ISOTPGRP031      Te-131m       4
ISOTPGRP032      Te-132        4
ISOTPGRP033      I-131         2
ISOTPGRP034      I-132         2
ISOTPGRP035      I-133         2
ISOTPGRP036      I-134         2
ISOTPGRP037      I-135         2
ISOTPGRP038      Xe-133        1
ISOTPGRP039      Xe-135        1
ISOTPGRP040      Cs-134        3
ISOTPGRP041      Cs-136        3
ISOTPGRP042      Cs-137        3
ISOTPGRP043      Ba-139        9
ISOTPGRP044      Ba-140        9
ISOTPGRP045      La-140        7
ISOTPGRP046      La-141        7
ISOTPGRP047      La-142        7
ISOTPGRP048      Ce-141        8
```

```
ISOTPGRP049     Ce-143       8
ISOTPGRP050     Ce-144       8
ISOTPGRP051     Pr-143       7
ISOTPGRP052     Nd-147       7
ISOTPGRP053     Np-239       8
ISOTPGRP054     Pu-238       8
ISOTPGRP055     Pu-239       8
ISOTPGRP056     Pu-240       8
ISOTPGRP057     Pu-241       8
ISOTPGRP058     Am-241       7
ISOTPGRP059     Cm-242       7
ISOTPGRP060     Cm-244       7
*******************************************************************************
* WET DEPOSITION DATA BLOCK, LOADED BY INPWET, STORED IN /WETCON/
*
* WASHOUT COEFFICIENT NUMBER ONE, LINEAR FACTOR
*
WDCWASH1001  9.5E-5   (JON HELTON AFTER JONES, 1986)
*
* WASHOUT COEFFICIENT NUMBER TWO, EXPONENTIAL FACTOR
*
WDCWASH2001  0.8      (JON HELTON AFTER JONES, 1986)
*******************************************************************************
* DRY DEPOSITION DATA BLOCK, LOADED BY INPDRY, STORED IN /DRYCON/
*
* NUMBER OF PARTICLE SIZE GROUPS
*
DDNPSGRP001   1
*
* DEPOSITION VELOCITY OF EACH PARTICLE SIZE GROUP (M/S)
*
DDVDEPOS001   0.01   (VALUE SELECTED BY S. ACHARYA, NRC)
*******************************************************************************
* DISPERSION PARAMETER DATA BLOCK, LOADED BY INPDIS, STORED IN /DISPY/, /DISPZ/
*
* # of distances in plume-size tables--which can be used as an alternative to the
power-law model:
* (to utilize the power-law model, set NUM_DIST to zero or delete the following data
card)
*
NUM_DIST001   0
*
* SIGMA = A * X ** B
*
* Tadmor and Gur Parameterization for Distance Range 0.5 to 5.0 km
* as taken from Atmospheric Motion and Air Pollution (Dobbins 1979).
* P-G CLASS:          A           B           C           D           E
 F
DPCYSIGA001         0.3658      0.2751      0.2089      0.1474      0.1046
0.0722
DPCYSIGB001         0.9031      0.9031      0.9031      0.9031      0.9031
0.9031
DPCZSIGA001         2.5E-4      1.9E-3      0.2         0.3         0.4
0.2
DPCZSIGB001         2.125       1.6021      0.8543      0.6532      0.6021
0.6020
*
*  LINEAR SCALING FACTOR FOR SIGMA-Y FUNCTION, NORMALLY 1
*
DPYSCALE001    1.
*
*  LINEAR SCALING FACTOR FOR SIGMA-Z FUNCTION,
*  NORMALLY USED FOR SURFACE ROUGHNESS LENGTH CORRECTION.
```

```
*  (Z1 / Z0) ** 0.2,    FROM CRAC2 WE HAVE  (10 CM / 3 CM) ** 0.2 = 1.27
*
DPZSCALE001    1.27
********************************************************************************
* EXPANSION FACTOR DATA BLOCK, LOADED BY INPEXP, STORED IN /EXPAND/
*
* TIME BASE FOR EXPANSION FACTOR (SECONDS)
*
PMTIMBAS001    600.    (10 MINUTES)
*
* BREAK POINT FOR FORMULA CHANGE (SECONDS)
*
PMBRKPNT001    3600.    (1 HOUR)
*
* EXPONENTIAL EXPANSION FACTOR NUMBER 1
*
PMXPFAC1001      0.2
*
* EXPONENTIAL EXPANSION FACTOR NUMBER 2
*
PMXPFAC2001      0.25
********************************************************************************
* PLUME RISE DATA BLOCK, LOADED BY INPLRS, STORED IN /PLUMRS/
*
* SCALING FACTOR FOR THE CRITICAL WIND SPEED FOR ENTRAINMENT OF A BOUYANT PLUME
* (USED BY FUNCTION CAUGHT)
*
PRSCLCRW001    1.
*
* SCALING FACTOR FOR THE A-D STABILITY PLUME RISE FORMULA
* (USED BY FUNCTION PLMRIS)
*
PRSCLADP001    1.
*
* SCALING FACTOR FOR THE E-F STABILITY PLUME RISE FORMULA
* (USED BY FUNCTION PLMRIS)
*
PRSCLEFP001    1.
********************************************************************************
* RELEASE DATA BLOCK, LOADED BY INPREL, STORED IN /ATNAM2/, /MULREL/
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  1 OF 19
RDATNAM2001 'CAPB-1'
*
* TIME AFTER ACCIDENT INITIATION WHEN THE ACCIDENT REACHES GENERAL EMERGENCY
* CONDITIONS (AS DEFINED IN NUREG-0654), OR WHEN PLANT PERSONNEL CAN RELIABLY
* PREDICT THAT GENERAL EMERGENCY CONDITIONS WILL BE ATTAINED
*
RDOALARM001    3.98E+03
*
* NUMBER OF PLUME SEGMENTS THAT ARE RELEASED
*
RDNUMREL001           1
*
* SELECTION OF RISK DOMINANT PLUME
*
RDMAXRIS001           1
*
* REFERENCE TIME FOR DISPERSION AND RADIOACTIVE DECAY
*
RDREFTIM001         0.5
*
* HEAT CONTENT OF THE RELEASE SEGMENTS (W)
```

```
* A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
*
RDPLHEAT001   2.61E+05
*
* HEIGHT OF THE PLUME SEGMENTS AT RELEASE (M)
* A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
*
RDPLHITE001        30.
*
* DURATION OF THE PLUME SEGMENTS (S)
* A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
*
RDPLUDUR001   9.00E+03
*
* TIME OF RELEASE FOR EACH PLUME (S AFTER SCRAM)
* A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
*
RDPDELAY001   2.20E+04
*
* Initial value of sigma-y for each plume--Note: values required for each plume
*
SIGYINIT001  9.9   (initial sigma-y = W/4.3 = 42.7/4.3)
*
* Initial value of sigma-z for each plume--Note: values required for each plume
*
SIGZINIT001  20.4  (initial sigma-z = H/2.15 = 43.9/2.15)
*
* Building height (meters)--Note: values required for each plume
*
WEBUILDH001   43.9
*
* PARTICLE SIZE DISTRIBUTION OF EACH NUCLIDE GROUP
* YOU MUST SPECIFY A COLUMN OF DATA FOR EACH OF THE PARTICLE SIZE GROUPS
*
RDPSDIST001      1.
RDPSDIST002      1.
RDPSDIST003      1.
RDPSDIST004      1.
RDPSDIST005      1.
RDPSDIST006      1.
RDPSDIST007      1.
RDPSDIST008      1.
RDPSDIST009      1.
*
* 3578 MWTH BWR CORE INVENTORY (NUREG/CR-4551, Vol. 2, Rev. 1)
*
*
*              NUCNAM        CORINV (Bq)
*
RDCORINV001     Co-58         2.024E+16
RDCORINV002     Co-60         2.423E+16
RDCORINV003     Kr-85         3.317E+16
RDCORINV004     Kr-85m        1.206E+18
RDCORINV005     Kr-87         2.193E+18
RDCORINV006     Kr-88         2.960E+18
RDCORINV007     Rb-86         1.856E+15
RDCORINV008     Sr-89         3.673E+18
RDCORINV009     Sr-90         3.250E+17
RDCORINV010     Sr-91         4.771E+18
RDCORINV011     Sr-92         4.984E+18
RDCORINV012     Y-90          2.783E+17
RDCORINV013     Y-91          4.482E+18
RDCORINV014     Y-92          5.004E+18
```

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RDCORINV015     Y-93          5.690E+18
RDCORINV016     Zr-95         5.899E+18
RDCORINV017     Zr-97         6.073E+18
RDCORINV018     Nb-95         5.581E+18
RDCORINV019     Mo-99         6.436E+18
RDCORINV020     Tc-99m        5.554E+18
RDCORINV021     Ru-103        4.877E+18
RDCORINV022     Ru-105        3.254E+18
RDCORINV023     Ru-106        1.327E+18
RDCORINV024     Rh-105        2.429E+18
RDCORINV025     Sb-127        3.077E+17
RDCORINV026     Sb-129        1.068E+18
RDCORINV027     Te-127        2.979E+17
RDCORINV028     Te-127m       4.010E+16
RDCORINV029     Te-129        1.002E+18
RDCORINV030     Te-129m       2.634E+17
RDCORINV031     Te-131m       5.058E+17
RDCORINV032     Te-132        4.944E+18
RDCORINV033     I-131         3.417E+18
RDCORINV034     I-132         5.020E+18
RDCORINV035     I-133         7.172E+18
RDCORINV036     I-134         7.850E+18
RDCORINV037     I-135         6.751E+18
RDCORINV038     Xe-133        7.182E+18
RDCORINV039     Xe-135        1.707E+18
RDCORINV040     Cs-134        6.995E+17
RDCORINV041     Cs-136        1.501E+17
RDCORINV042     Cs-137        4.200E+17
RDCORINV043     Ba-139        6.612E+18
RDCORINV044     Ba-140        6.522E+18
RDCORINV045     La-140        6.655E+18
RDCORINV046     La-141        6.145E+18
RDCORINV047     La-142        5.912E+18
RDCORINV048     Ce-141        5.922E+18
RDCORINV049     Ce-143        5.765E+18
RDCORINV050     Ce-144        3.841E+18
RDCORINV051     Pr-143        5.643E+18
RDCORINV052     Nd-147        2.522E+18
RDCORINV053     Np-239        7.516E+19
RDCORINV054     Pu-238        5.226E+15
RDCORINV055     Pu-239        1.325E+15
RDCORINV056     Pu-240        1.659E+15
RDCORINV057     Pu-241        2.856E+17
RDCORINV058     Am-241        2.903E+14
RDCORINV059     Cm-242        7.667E+16
RDCORINV060     Cm-244        4.137E+15
*
*  SCALING FACTOR TO ADJUST THE CORE INVENTORY FOR POWER LEVEL
*
*         POWER LEVEL (MWTH)    3578    2028
*         SCALING FACTOR        1.0     0.567
*
RDCORSCA001   0.567
*
RDAPLFRC001   PARENT      (apply rel fracs the same as prior versions)
*
* RELEASE FRACTIONS FOR ISOTOPE GROUPS IN RELEASE
*
*  ISOTOPE GROUPS:
*
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 2.0E-07 1.9E-07 1.9E-07 0.0E+00 1.2E-09 8.0E-09 5.0E-11 8.4E-11 1.7E-08
```

```
*
*******************************************************************************
* OUTPUT CONTROL DATA BLOCK, LOADED BY INPOPT, STORED IN /STOPME/, /ATMOPT/
*
* FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
*
OCENDAT1001  .FALSE. (SET THIS VALUE TO .TRUE. TO SKIP EARLY AND CHRONC)
*
OCIDEBUG001  0
*
* NAME OF THE NUCLIDE TO BE LISTED ON THE DISPERSION LISTINGS
*
*OCNUCOUT001  Cs-137
*
*              NUM0
TYPE0NUMBER      0
*
*             INDREL   INDRAD
*TYPE0OUT001      1        9
*TYPE0OUT002      1       10          XCCDF
*******************************************************************************
* METEOROLOGICAL SAMPLING DATA BLOCK
*
* METEOROLOGICAL SAMPLING OPTION CODE:
*
* METCOD = 1, USER SPECIFIED DAY AND HOUR IN THE YEAR (FROM MET FILE),
*          2, WEATHER CATEGORY BIN SAMPLING,
*          3, 120 HOURS OF WEATHER SPECIFIED ON THE ATMOS USER INPUT FILE,
*          4, CONSTANT MET (BOUNDARY WEATHER USED FROM THE START),
*          5, STRATIFIED RANDOM SAMPLES FOR EACH DAY OF THE YEAR.
*
M1METCOD001  2
*
* LAST SPATIAL INTERVAL FOR MEASURED WEATHER
*
M2LIMSPA001  15
*
* BOUNDARY WEATHER MIXING LAYER HEIGHT
*
M2BNDMXH001  1000.  (METERS)
*
* BOUNDARY WEATHER STABILITY CLASS INDEX
*
M2IBDSTB001  4      (D-STABILITY)
*
* BOUNDARY WEATHER RAIN RATE
*
M2BNDRAN001  0.     (MM/HR)
*
* BOUNDARY WEATHER WIND SPEED
*
M2BNDWND001  5.     (M/S)
*
* NUMBER OF RAIN DISTANCE INTERVALS FOR BINNING
*
M4NRNINT001  6
*
* ENDPOINTS OF THE RAIN DISTANCE INTERVALS (KILOMETERS)
*
* NOTE: THESE MUST BE CHOSEN TO MATCH THE SPATIAL ENDPOINT DISTANCES
*       SPECIFIED FOR THE ARRAY SPAEND (10 % ERROR IS ALLOWED).
*
*            2.0    4.0      7     10.0     20.0   40.0   MILES
```

```
*
M4RNDSTS001  3.23  6.45    11.29   16.13    32.26  64.52   KM
*
* NUMBER OF RAIN INTENSITIY BREAKPOINTS
*
M4NRINTN001   3
*
* RAIN INTENSITY BREAKPOINTS FOR WEATHER BINNING (MILLIMETERS PER HOUR)
*
M4RNRATE001   2.  4.  6.
*
* NUMBER OF SAMPLES PER BIN
*
M4NSMPLS001  4  (THIS NUMBER SHOULD BE SET TO 4 FOR RISK ASSESSMENT)
*
* INITIAL SEED FOR RANDOM NUMBER GENERATOR
*
M4IRSEED001   79
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  2 OF 19
*
RDATNAM2001 'CAPB-2'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.20E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E-04 4.8E-05 4.7E-05 1.8E-07 4.0E-07 4.0E-06 1.7E-08 5.2E-08 4.9E-06
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  3 OF 19
*
RDATNAM2001 'CAPB-3'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.20E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E-04 5.4E-05 5.0E-05 1.8E-06 5.8E-07 4.0E-06 2.4E-08 1.6E-07 5.0E-06
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  4 OF 19
*
RDATNAM2001 'CAPB-4'
*
RDOALARM001   7.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   1.10E+07
```

```
RDPLHITE001   30.
RDPLUDUR001   3.56E+03
RDPDELAY001   1.83E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 4.9E-02 2.6E-02 4.2E-05 2.5E-05 3.7E-04 9.0E-07 3.0E-06 1.9E-04
.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  5 OF 19
*
RDATNAM2001 'CAPB-5'
*
RDOALARM001   1.31E+04
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   8.34E+06

RDPLHITE001   30.
RDPLUDUR001   7.93E+03

RDPDELAY001   2.53E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 9.9E-01 7.9E-02 3.7E-02 4.3E-05 4.1E-05 3.7E-04 1.6E-06 6.8E-06 3.4E-04

.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  6 OF 19
*
RDATNAM2001 'CAPB-6'
*
RDOALARM001   1.33E+04
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   8.23E+06

RDPLHITE001   30.
RDPLUDUR001   8.11E+03
RDPDELAY001   2.56E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 4.0E-02 2.3E-02 1.5E-03 3.2E-04 3.7E-04 6.5E-06 7.2E-05 3.2E-04

.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  7 OF 19
*
RDATNAM2001 'CAPB-7'
*
RDOALARM001   1.38E+04

RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   8.03E+06

RDPLHITE001   30.
RDPLUDUR001   8.46E+03
RDPDELAY001   2.61E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
```

```
RDRELFRC001 9.8E-01 6.1E-02 2.9E-02 1.3E-03 2.3E-04 3.7E-04 9.1E-06 1.1E-04 4.5E-04

.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  8 OF 19
*
RDATNAM2001 'CAPB-8'
*
RDOALARM001   9.18E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   1.04E+07
RDPLHITE001   30.
RDPLUDUR001   4.59E+03

RDPDELAY001   2.00E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 3.0E-01 2.7E-01 3.1E-05 9.9E-04 2.2E-02 4.5E-05 6.6E-05 1.2E-02

.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  9 OF 19
*
RDATNAM2001 'CAPB-9'
*
RDOALARM001   9.21E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   4.18E+06
RDPLHITE001   30.
RDPLUDUR001   8.87E+03
RDPDELAY001   2.44E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 6.0E-01 7.6E-02 7.1E-02 1.4E-05 9.7E-04 1.1E-02 3.7E-05 7.6E-05 1.0E-02

.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  10 OF 19
*
RDATNAM2001 'CAPB-10'
*
RDOALARM001   1.37E+04
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   8.06E+06
RDPLHITE001   30.
RDPLUDUR001   8.40E+03

RDPDELAY001   2.60E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 2.8E-01 2.5E-01 1.1E-02 3.1E-03 1.8E-02 8.0E-05 5.8E-04 1.0E-02

.
********** RELEASE DATA BLOCK **********
* SOURCE TERM NUMBER  11 OF 19
*
RDATNAM2001 'CAPB-11'
*
RDOALARM001   1.37E+04
RDNUMREL001   1
```

```
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   8.06E+06

RDPLHITE001   30.
RDPLUDUR001   8.40E+03

RDPDELAY001   2.60E+04
*             Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 9.8E-01 1.7E-01 1.4E-01 1.0E-02 3.1E-03 1.8E-02 1.2E-04 9.4E-04 1.7E-02
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  12 OF 19
*
RDATNAM2001 'CAPB-12'
*
RDOALARM001   2.84E+04
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   7.59E+06

RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   4.64E+04

*             Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 2.0E-01 5.7E-05 4.2E-05 1.2E-07 2.2E-07 1.6E-06 7.9E-09 2.4E-08 2.8E-06
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  13 OF 19
*
RDATNAM2001 'CAPB-13'
*
RDOALARM001   9.14E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   1.80E+06

RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.71E+04

*             Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 8.0E-03 6.0E-03 1.8E-04 3.6E-05 3.7E-04 2.2E-06 1.4E-05 4.5E-04
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  14 OF 19
*
RDATNAM2001 'CAPB-14'
*
RDOALARM001   2.66E+04

RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   7.08E+06
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
```

```
RDPDELAY001   4.46E+04

*            Xe/Kr   I       Cs       Te       Sr       Ru       La       Ce       Ba
*
RDRELFRC001 7.8E-01 2.9E-02 2.7E-02 2.5E-05 2.0E-04 2.1E-03 8.4E-06 2.3E-05 2.6E-03

.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  15 OF 19
*
RDATNAM2001 'CAPB-15'
*
RDOALARM001   2.81E+04
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.5
RDPLHEAT001   7.60E+06
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   4.62E+04

*            Xe/Kr   I       Cs       Te       Sr       Ru       La       Ce       Ba
*
RDRELFRC001 1.0E+00 1.5E-01 1.4E-01 1.0E-04 1.1E-03 1.2E-02 4.8E-05 1.3E-04 1.5E-02
.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  2 OF 19
*
RDATNAM2001 'CAPB-16'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.12E+04
*            Xe/Kr   I       Cs       Te       Sr       Ru       La       Ce       Ba
*
RDRELFRC001 1.0E+00 6.7E-02 3.3E-02 4.1E-04 9.1E-05 2.2E-02 1.5E-06 1.7E-05 4.3E-05

.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  17 OF 19
*
RDATNAM2001 'CAPB-17'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.14E+04
*            Xe/Kr   I       Cs       Te       Sr       Ru       La       Ce       Ba
*
RDRELFRC001 9.7E-01 3.6E-01 3.4E-01 1.3E-03 2.4E-03 2.2E-02 9.9E-05 1.6E-04 8.6E-03

.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  18 OF 19
```

```
*
RDATNAM2001 'CAPB-18'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.12E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 1.0E+00 9.8E-02 6.3E-02 2.1E-02 4.7E-03 2.3E-02 7.5E-05 8.5E-04 2.1E-03

.
********************** RELEASE DATA BLOCK *************
* SOURCE TERM NUMBER  19 OF 19
*
RDATNAM2001 'CAPB-19'
*
RDOALARM001   3.96E+03
RDNUMREL001   1
RDMAXRIS001   1
RDREFTIM001   0.
RDPLHEAT001   2.50E+05
RDPLHITE001   30.
RDPLUDUR001   9.00E+03
RDPDELAY001   2.18E+04
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce      Ba
*
RDRELFRC001 9.7E-01 4.0E-01 3.8E-01 6.9E-02 9.6E-03 2.3E-02 3.0E-04 2.3E-03 1.2E-02

.
```

```
* GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "CHRONC" INPUT FILE
*
CHCHNAME001 'CHRONC.IN - PNPS, "New" COMIDA2-Based Food Model'
*******************************************************************************
* EMERGENCY RESPONSE COST DATA BLOCK
*
* DAILY COST FOR A PERSON WHO IS EVACUATED (DOLLARS/PERSON-DAY)
*
CHEVACST001  42.3    (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)
*
* DAILY COST FOR A PERSON WHO IS RELOCATED (DOLLARS/PERSON-DAY)
*
CHRELCST001  42.3    (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)
*******************************************************************************
* LONG TERM PROTECTIVE ACTION DATA BLOCK
*
* Duration of the intermediate phase period--at version 1.11c TMIPND is no
* longer processed.  The new input variable DUR_INTPHAS is the period's
* duration, not the time after plume arrival at which the period ends.
*
DUR_INTPHAS    0.0     (in seconds)   (no intermediate phase)
*
* LONG-TERM PHASE DOSE PROJECTION PERIOD, THE DURATION OF THE EXPOSURE
* PERIOD OVER WHICH THE LONG-TERM DOSE CRITERION IS EVALUATED (SECONDS)
*
CHTMPACT001   1.58E8              (5 YEARS)
*
* DOSE CRITERION FOR INTERMEDIATE PHASE RELOCATION (Sv)
*
CHDSCRTI001    1.0E5              (NO INTERMEDIATE PHASE RELOCATION)
*
* DOSE CRITERION FOR LONG-TERM PHASE RELOCATION (Sv)
*
CHDSCRLT001     0.04
*
* CRITICAL ORGAN NAME FOR LONG-TERM ACTIONS
*
CHCRTOCR001 'L-EDEWBODY'
*
* Long Term Exposure Period    Previously permanently set to:
*    one million years = 3.15 E13 seconds
*    MACCS2 allowable range is 3.15E7 to 1.E10
*
CHEXPTIM001     9.45E8
*******************************************************************************
* DECONTAMINATION PLAN DATA BLOCK
*
* NUMBER OF LEVELS OF DECONTAMINATION
*
CHLVLDEC001  2
*
* DECONTAMINATION TIMES CORRESPONDING TO THE LVLDEC LEVELS OF DECONTAMINATION
*  (SECONDS)
*
CHTIMDEC001   5.184E6  1.0368E7     (60, 120 DAYS)
*
* DOSE REDUCTION FACTORS CORRESPONDING TO THE LVLDEC LEVELS OF DECONTAMINATION
*
CHDSRFCT001   3.       15.
*
* COST OF FARM DECONTAMINATION PER FARMLAND UNIT AREA (DOLLARS/HECTARE)
*  FOR THE VARIOUS LEVELS OF DECONTAMINATION
*
```

```
CHCDFRM0001   881.0   1959.0
*
* COST OF NONFARM DECONTAMINATION PER RESIDENT PERSON (DOLLARS/PERSON)
*  FOR THE VARIOUS LEVELS OF DECONTAMINATION
*
CHCDNFRM001   4700.   12540.
*
* FRACTION OF FARMLAND DECONTAMINATION COST DUE TO LABOR
*  FOR THE VARIOUS DECONTAMINATION LEVELS
*
CHFRFDL0001  .3      .35
*
* FRACTION OF NON-FARM DECONTAMINATION COST DUE TO LABOR
*  FOR THE VARIOUS DECONTAMINATION LEVELS
*
CHFRNFDL001  .7      .5
*
* FRACTION OF TIME WORKERS IN FARM AREAS SPEND IN CONTAMINATED AREAS
*  FOR THE VARIOUS DECONTAMINATION LEVELS
*
CHTFWKF0001  .10     .33
*
* FRACTION OF TIME WORKERS IN NON-FARM AREAS SPEND IN CONTAMINATED AREAS
*  FOR THE VARIOUS DECONTAMINATION LEVELS
*
CHTFWKNF001  .33     .33
*
* AVERAGE COST OF DECONTAMINATION LABOR (DOLLARS/MAN-YEAR)
*
CHDLBCST001   54800.
*******************************************************************************
* INTERDICTION COST DATA BLOCK
*
* DEPRECIATION (DETERIORATION) RATE DURING INTERDICTION PERIOD (PER YEAR)
*
CHDPRATE001    .20   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
*
* INVESTMENT INCOME RETURN (DISCOUNT RATE) DURING INTERDICTION PERIOD (PER YEAR)
* THIS VALUE SHOULD BE DERIVED AS A REAL RETURN RATE ADJUSTED FOR INFLATION
*
CHDSRATE001    .12   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
*
* POPULATION RELOCATION COST (DOLLARS/PERSON):
*  ALTERNATIVE HOUSING, MOVING COSTS, AND LOST INCOME FOR PEOPLE IN
*  AREAS WHICH REQUIRE DECONTAMINATION, INTERDICTION, OR CONDEMNATION
*
CHPOPCST001   7840.
*******************************************************************************
* GROUNDSHINE WEATHERING DEFINITION DATA BLOCK
*
* NUMBER OF TERMS IN THE GROUNDSHINE WEATHERING RELATIONSHIP (EITHER 1 OR 2)
*
CHNGWTRM001   2
*
* GROUNDSHINE WEATHERING COEFFICIENTS
*
CHGWCOEF001   0.5    0.5            (JON HELTON)
*
* HALF LIVES CORRESPONDING TO THE GROUNDSHINE WEATHERING COEFFICIENTS (S)
*
CHTGWHLF001   1.6E7  2.8E9          (JON HELTON)
*******************************************************************************
* RESUSPENSION WEATHERING DEFINITION DATA BLOCK
```

```
*
* NUMBER OF TERMS IN THE RESUSPENSION WEATHERING RELATIONSHIP
*
CHNRWTRM001    3
*
* RESUSPENSION CONCENTRATION COEFFICIENTS    (/ METER)
*  RELATIONSHIP BETWEEN GROUND CONCENTRATION AND INSTANTANEOUS AIR CONC.
*
CHRWCOEF001  1.0E-5   1.0E-7   1.0E-9  (VALUES HERE SELECTED BY JON HELTON)
*
* HALF-LIVES CORRESPONDING TO THE RESUSPENSION CONCENTRATION COEFFICIENTS (S)
*
CHTRWHLF001  1.6E7    1.6E8    1.6E9   (6 MONTHS, 5 YEARS, 50 YEARS)
*******************************************************************************
* SITE REGION DESCRIPTION DATA BLOCK
*
* FRACTION OF AREA THAT IS LAND IN THE REGION
*
CHFRACLD001   0.95   (ROUGH GUESS VALUE, SITE FILE OVERRIDES THIS VALUE)
*
* FRACTION OF LAND DEVOTED TO FARMING IN THE REGION
*
CHFRCFRM001   0.382  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
*
* AVERAGE VALUE OF ANNUAL FARM PRODUCTION IN THE REGION (DOLLARS/HECTARE)
*  (CASH RECEIPTS FROM FARMING PLUS VALUE OF HOME CONSUMPTION)/(LAND IN FARMS)
*
CHFRMPRD001   371.0  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
*
* FRACTION OF FARM PRODUCTION RESULTING FROM DAIRY PRODUCTION IN THE REGION
*  (VALUE OF MILK PRODUCED)/(CASH RECEIPTS FROM FARMING PLUS HOME CONSUMPTION)
*
CHDPFRCT001   0.198  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
*
* VALUE OF FARM WEALTH (DOLLARS/HECTARE)
*  (AVERAGE VALUE PER HECTARE OF FARM LAND AND BUILDINGS TO 100 MILES)
*
CHVALWF0001   23578.
*
* FRACTION OF FARM WEALTH IN IMPROVEMENTS FOR THE REGION
*
CHFRFIM0001   0.25
*
* NON-FARM WEALTH, PROPERTY AND IMPROVEMENTS FOR THE REGION (DOLLARS/PERSON)
*  THE VALUE OF ALL RESIDENTIAL, BUSINESS, AND PUBLIC ASSETS WHICH WOULD BE
*  LOST IN THE EVENT OF PERMANENT INTERDICTION (CONDEMNATION) OF THE AREA
*
CHVALWNF001   189041.
*
* FRACTION OF NON-FARM WEALTH IN IMPROVEMENTS FOR THE REGION
*
CHFRNFIM001   0.8
*******************************************************************************
CHFDPATH001 'NEW'
*
* name of the COMIDA2 binary output file
*
BIN_FILE001 'SAMP_A.BIN'   (revised data file of 8/12/95)
*
* Dose limits triggering first year crop disposal of the separate
* milk and non-milk components of the diet, corresponding in purpose,
* more or less, to the MACCS 1.5 input variables PSCMLK and PSCOTH
*
```

```
* For NUREG-1150 calculations, the maximum allowable ground concentrations for
* production of milk and non-milk crops contaminated by an accident occurring
* in the growing season were derived based on an assumed maximum allowable
* dose of 5 rem effective or 15 rem thyroid, per the 1982 FDA guidance that's
* reprinted in the 1992 EPA PAG Manual.  For purposes of comparison against
* the prior results, it is being assumed, for simplicity, that milk and
* non-milk crops contribute equally to the first year dose.  Thus, the 5 rem
* effective dose limit used in NUREG-1150 is equally split between milk and
* non-milk crops, with 2.5 rem allowed for each.  Similarly, the 15 rem
* thyroid limit is split into 7.5 and 7.5 rem for the milk and non-milk
* portions of the diet.
*
*             effective     thyroid  (doses in sieverts)
DOSEMILK001    0.025          0.075
DOSEOTHR001    0.025          0.075
*
* Annual dose limits for the subsequent year's (i.e., after the first year)
* interdiction of BOTH the milk and non-milk (combined) components of the diet
*
* Note: the long-term food critera, GCMAXR, used for NUREG-1150 wre based on
* an ingestion dose integrated from zero to infinity.  It is not possible to
* translate those parameter values into corresponding annual dose limits, as is
* required by the COMIDA2-based food model.  The "total" dose limits used in
* NUREG-1150 for "root uptake", 0.5 rem effective and 1.5 rem thyroid, are used
* here as annual dose limits for interdiction of food production in years the
* years subsequent to the accident.
*
*             effective     thyroid  (doses in sieverts)
DOSELONG001    0.005          0.015
*
* NUMBER OF NUCLIDES IN THE WATER INGESTION PATHWAY MODEL
*
CHNUMWPI001    4
*
* TABLE OF NUCLIDE DEFINITIONS IN THE WATER INGESTION PATHWAY MODEL
*
* IF A SITE DATA FILE IS DEFINED, THE DATA DEFINING THE WATERSHED INGESTION
*  FACTOR IS SUPERSEDED BY THE CORRESPONDING DATA IN THE SITE DATA FILE
*
*                          INITIAL      ANNUAL     INGESTION FACTOR
*              WATER       WASHOFF      WASHOFF     ((Bq INGESTED)/
*             NUCLIDE      FRACTION      RATE        (Bq IN WATER))
*
*              NAMWPI       WSHFRI       WSHRTA          WINGF
CHWTRISO001    Sr-89         0.01         0.004          5.0E-6
CHWTRISO002    Sr-90         0.01         0.004          5.0E-6
CHWTRISO003    Cs-134        0.005        0.001          5.0E-6
CHWTRISO004    Cs-137        0.005        0.001          5.0E-6
*******************************************************************************
* SPECIAL OPTIONS DATA BLOCK
*
* DETAILED PRINT OPTION CONTROL SWITCHES, LOOK AT THE CODE BEFORE TURNING ON!!
*          KSWDSC
*
CHKSWTCH001    0
*******************************************************************************
* DEFINE THE TYPE 9 RESULTS
*
* LONG-TERM POPULATION DOSE IN A GIVEN REGION BROKEN DOWN BY THE 12 PATHWAYS
*
* NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
* FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
*
```

```
TYPE9NUMBER   1      (UP TO 10 ALLOWED)
*
*               ORGNAM         INNER      OUTER
*
TYPE9OUT001   'L-EDEWBODY'       1          15    (0-50 MILES)
*******************************************************************************
* ECONOMIC COST RESULTS IN A REGION BROKEN DOWN BY 12 TYPES OF COSTS
*
* NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
* FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
*
TYP10NUMBER   1      (UP TO 10 ALLOWED)
*
*               INNER      OUTER
*
TYP10OUT001      1          15    (0-50 MILES)
*******************************************************************************
* DEFINE A FLAG THAT CONTROLS THE PRODUCTION OF THE ACTION DISTANCE RESULTS
*
* SPECIFYING A VALUE OF .TRUE. TURNS ON ALL 8 OF THE ACTION DISTANCE RESULTS,
* A VALUE OF .FALSE. WILL ELIMINATE THE ACTION DISTANCE RESULTS FROM THE OUTPUT.
*
TYP11FLAG11  .FALSE.
*******************************************************************************
* IMPACTED AREA/POPULATION RESULTS IN A REGION BROKEN DOWN BY 6 TYPES OF IMPACTS
*
* NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
* FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 8
*
TYP12NUMBER   0      (UP TO 10 ALLOWED)
*
*               INNER      OUTER
*
*TYP12OUT001      1          15    (0-50 MILES)
*******************************************************************************
* Maximal annual food ingestion dose to an individual, requested by IXOT13
*
* This result is calculated after accounting for temporary or
* permanent interdiction.  It is only available for the "new" food model.
*
* NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
*
TYP13NUMBER   0   (UP TO 10 ALLOWED)
*
* IRAD13 is the radial spatial interval at which results are requested
*
* ORGN13 is the name of the organ for which results are requested
*  (allowable values for ORGN13 are 'EFFECTIVE' or 'THYROID')
*
*          IRAD13   ORGN13
*
*TYP13OUT001   2    EFFECTIVE
*TYP13OUT002   4    EFFECTIVE
*TYP13OUT003   6    EFFECTIVE
*TYP13OUT004   8    EFFECTIVE
*TYP13OUT005  10    EFFECTIVE
*TYP13OUT006  12    EFFECTIVE
*TYP13OUT007  15    EFFECTIVE
*TYP13OUT008   2    THYROID
*TYP13OUT009   4    THYROID
*TYP13OUT010   6    THYROID
*TYP13OUT011   8    THYROID
*TYP13OUT012  10    THYROID
```

```
*TYP13OUT013   12     THYROID
*TYP13OUT014   15     THYROID
.
```

```
* GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "EARLY" INPUT FILE
*
MIEANAM1001 'EARLY.IN, PNPS INPUT FROM THE EVACUATION TIME ESTIMATES'
DCF_FILE001 'DOSDATA.INP'  (DCF file of MACCS 1.5.11.1)
*
*              ORGNAM          ORGFLG
*
MIORGDEF001   'A-SKIN'         .TRUE.
MIORGDEF002   'A-RED MARR'     .TRUE.
MIORGDEF003   'A-LUNGS'        .TRUE.
MIORGDEF004   'A-THYROIDH'     .TRUE.
MIORGDEF005   'A-STOMACH'      .TRUE.
MIORGDEF006   'A-LOWER LI'     .FALSE.  (does not contribute to early fatalities)
MIORGDEF007   'L-EDEWBODY'     .TRUE.
MIORGDEF008   'L-RED MARR'     .TRUE.
MIORGDEF009   'L-BONE SUR'     .TRUE.
MIORGDEF010   'L-BREAST'       .TRUE.
MIORGDEF011   'L-LUNGS'        .TRUE.
MIORGDEF012   'L-THYROID'      .TRUE.
MIORGDEF013   'L-LOWER LI'     .TRUE.
MIORGDEF014   'L-BLAD WAL'     .TRUE.
MIORGDEF015   'L-LIVER'        .FALSE.
MIORGDEF016   'L-THYROIDH'     .TRUE.
*
* FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
*
MIENDAT2001   .FALSE.    (SET THIS VALUE TO .TRUE. TO SKIP CHRONC)
*
* DISPERSION MODEL OPTION CODE:  1  *  STRAIGHT LINE
*                                2  *  WIND-SHIFT WITH ROTATION
*                                3  *  WIND-SHIFT WITHOUT ROTATION
*
MIIPLUME001   2
*
* NUMBER OF FINE GRID SUBDIVISIONS USED BY THE MODEL
*
MINUMFIN001   7    (3, 5 OR 7 ALLOWED)
*
* LEVEL OF DEBUG OUTPUT REQUIRED, NORMAL RUNS SHOULD SPECIFY ZERO
*
MIIPRINT001   0
*
* LOGICAL FLAG SIGNIFYING THAT THE BREAKDOWN OF RISK BY WEATHER CATEGORY
* BIN ARE TO BE PRESENTED TO SHOW THEIR RELATIVE CONTRIBUTION TO THE MEAN
*
*              RISBIN
*
MIRISCAT001    .FALSE.
*
* FLAG INDICATING IF WIND-ROSES FROM ATMOS ARE TO BE OVERRIDDEN
*
MIOVRRID001   .FALSE.  (USE THE WIND ROSE CALCULATED FOR EACH WEATHER BIN)
*****************************************************************************
* POPULATION DISTRIBUTION DATA BLOCK, LOADED BY INPOPU, STORED IN /POPDAT/
*
PDPOPFLG001   FILE
*
*PDPOPFLG001   UNIFORM
*PDIBEGIN001   1   (SPATIAL INTERVAL AT WHICH POPULATION BEGINS)
*PDPOPDEN001   50. (POPULATION DENSITY (PEOPLE PER SQUARE KILOMETER))
*****************************************************************************
* SHIELDING AND EXPOSURE FACTORS, LOADED BY INDFAC, STORED IN /EADFAC/
*
```

```
* THREE VALUES OF EACH PROTECTION FACTOR ARE SUPPLIED,
* ONE FOR EACH TYPE OF ACTIVTY:
*
* ACTIVITY TYPE:
*     1 - EVACUEES WHILE MOVING
*     2 - NORMAL ACTIVITY IN SHELTERING AND EVACUATION ZONE
*     3 - SHELTERED ACTIVITY
*
* CLOUD SHIELDING FACTOR
*
*    SITE         GG   PB   SEQ  SUR  ZION
*    SHELTERING   0.7  0.5  0.65 0.6  0.5
*
*             EVACUEES  NORMAL  SHELTER
*
SECSFACT001      1.      0.75      0.6    *  SURRY SHELTERING VALUE
*
* PROTECTION FACTOR FOR INHALATION
*
SEPROTIN001      1.      0.41      0.33   * VALUES FOR NORMAL ACTIVITY AND
*                                           SHELTERING SELECTED BY NRC STAFF
*
* BREATHING RATE (CUBIC METERS PER SECOND)
*
SEBRRATE001  2.66E-4  2.66E-4  2.66E-4
*
* SKIN PROTECTION FACTOR
*
SESKPFAC001  1.0      0.41      0.33     * VALUES FOR NORMAL ACTIVITY AND
*                                          SHELTERING SELECTED BY NRC STAFF
*
* GROUND SHIELDING FACTOR
*
*    SITE         GG   PB   SEQ  SUR  ZION
*    SHELTERING   0.25 0.1  0.2  0.2  0.1
*
SEGSHFAC001      0.5     0.4     0.2    * VALUE FOR NORMAL ACTIVITY SELECTED BY
*                                           NRC STAFF
*
* RESUSPENSION INHALATION MODEL CONCENTRATION COEFFICIENT (/METER)
*
*   RESCON = 1.E-4 IS APPROPRIATE FOR MECHANICAL RESUSPENSION BY VEHICLES.
*   RESHAF = 2.11 DAYS CAUSES 1.E-4 TO DECAY IN ONE WEEK TO 1.E-5, THE VALUE
*   OF RESCON USED IN THE FIRST TERM OF THE LONG-TERM RESUSPENSION EQUATION
*   USED IN CHRONC.
*
SERESCON001   1.E-4     (RESUSPENSION IS TURNED ON)
*
* RESUSPENSION CONCENTRATION COEFFICIENT HALF-LIFE (SEC)
*
SERESHAF001   1.82E5    (2.11 DAYS)
*************************************************************************
* EVACUATION ZONE DATA BLOCK, LOADED BY EVNETW, STORED IN /NETWOR/, /EOPTIO/
*
* SPECIFIC DESCRIPTION OF THE EMERGENCY RESPONSE SCENARIO BEING USED
*
EZEANAM2001  'EVACUATION WITHIN 10 MILES, RELOCATION MODELS APPLY ELSEWHERE'
*
* THE TYPE OF WEIGHTING TO BE APPLIED TO THE EMERGENCY RESPONSE SCENARIOS
* YOU MUST SUPPLY A VALUE OF 'TIME' OR 'PEOPLE'
*
EZWTNAME001  'PEOPLE'
*
```

```
* WEIGHTING FRACTION APPLICABLE TO THIS SCENARIO
*
EZWTFRAC001  1.00
*
* LAST RING IN THE MOVEMENT ZONE
*
EZLASMOV001     12    (EVACUEES DISAPPEAR AFTER TRAVELING TO 20 MILES)
*
*  Flag defining the time at which evacuees "enter" the destination element
*
*TRAVELPOINT   'CENTERPOINT' (new option implemented at MACCS2 v. 1.11f)
TRAVELPOINT   'BOUNDARY'    (functionality derived from MACCS circa 1984)
*
* RADIAL EVACUATION SPEED (M/S)
*
EZESPEED001    0.97  0.97   0.97
EZEVATYP001     'RADIAL'
EZDURBEG001    86400.0
EZDURMID001    0.0
EZREFPNT001     'ALARM'
EZNUMEVA001      10
EZDLTSHL001   2400.  2400.  2400.  2400.  2400.
EZDLTSHL002   2400.  2400.  2400.  2400.  2400.
EZDLTEVA001      0.     0.     0.     0.     0.
EZDLTEVA002      0.     0.     0.     0.     0.
*******************************************************************************
* SHELTER AND RELOCATION ZONE DATA BLOCK, LOADED BY INPEMR,
*                                         STORED IN /INPSRZ/, /RELOCA/
*
* DURATION OF THE EMERGENCY PHASE (SECONDS FROM PLUME ARRIVAL)
*
SRENDEMP001  604800.   (ONE WEEK)
*
* CRITICAL ORGAN FOR RELOCATION DECISIONS
*
SRCRIORG001 'L-EDEWBODY'
*
* HOT SPOT RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
*
SRTIMHOT001  43200.    (ONE-HALF DAY)
*
* NORMAL RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
*
SRTIMNRM001  86400.    (ONE DAY)
*
* HOT SPOT RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
*
SRDOSHOT001  0.5    (50 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
*
* NORMAL RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
*
SRDOSNRM001  0.25   (25 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
*******************************************************************************
* EARLY FATALITY MODEL PARAMETERS, LOADED BY INEFAT, STORED IN /EFATAL/
*
* NUMBER OF EARLY FATALITY EFFECTS
*
EFNUMEFA001   2
*
*            ORGNAM        EFFACA    EFFACB    EFFTHR
*
EFATAGRP001 'A-RED MARR'      3.8       5.0     1.5
EFATAGRP002 'A-LUNGS'        10.0       7.0     5.0
```

```
*************************************************************************************
* EARLY INJURY MODEL PARAMETERS, LOADED BY INEINJ, STORED IN /EINJUR/
*
* NUMBER OF EARLY INJURY EFFECTS
*
EINUMEIN001  7
*
*            EINAME            ORGNAM    EISUSC EITHRE EIFACA EIFACB
*
EINJUGRP001 'PRODROMAL VOMIT' 'A-STOMACH'  1.     .5     2.     3.
EINJUGRP002 'DIARRHEA'        'A-STOMACH'  1.     1.     3.     2.5
EINJUGRP003 'PNEUMONITIS'     'A-LUNGS'    1.     5.    10.     7.
EINJUGRP004 'SKIN ERYTHEMA'   'A-SKIN'     1.     3.     6.     5.
EINJUGRP005 'TRANSEPIDERMAL'  'A-SKIN'     1.    10.    20.     5.
EINJUGRP006 'THYROIDITIS'     'A-THYROIDH' 1.    40.   240.     2.
EINJUGRP007 'HYPOTHYROIDISM'  'A-THYROIDH' 1.     2.    60.     1.3
*************************************************************************************
* ACUTE EXPOSURE CANCER PARAMETERS, LOADED BY INACAN STORED IN /ACANCR/.
*
* NUMBER OF ACUTE EXPOSURE CANCER EFFECTS
*
LCNUMACA001   7
*
* THRESHOLD DOSE FOR APPLYING THE DOSE DEPENDENT REDUCTION FACTOR
*
LCDDTHRE001   0.2  (LOWEST DOSE FOR WHICH DDREFA WILL BE APPLIED)
*
* DOSE THRESHOLD FOR LINEAR DOSE RESPONSE (Sv)
*
LCACTHRE001   0.0  (LINEAR-QUADRATIC MODEL IS NOT BEING USED)
*
*            ACNAME      ORGNAM   ACSUSC DOSEFA DOSEFB CFRISK    CIRISK   DDREFA
*
LCANCERS001 'LEUKEMIA' 'L-RED MARR' 1.0   1.0    0.0   9.70E-3   0.0      2.0
LCANCERS002 'BONE'     'L-BONE SUR' 1.0   1.0    0.0   9.00E-4   0.0      2.0
LCANCERS003 'BREAST'   'L-BREAST'   1.0   1.0    0.0   5.40E-3   1.7E-2   1.0
LCANCERS004 'LUNG'     'L-LUNGS'    1.0   1.0    0.0   1.55E-2   0.0      2.0
LCANCERS005 'THYROID'  'L-THYROIDH' 1.0   1.0    0.0   7.20E-4   7.2E-3   1.0
LCANCERS006 'GI'       'L-LOWER LI' 1.0   1.0    0.0   3.36E-2   0.0      2.0
LCANCERS007 'OTHER'    'L-EDEWBODY' 1.0   1.0    0.0   2.76E-2   0.0      2.0
*************************************************************************************
* RESULT 1 OPTIONS BLOCK, LOADED BY INOUT1, STORED IN /INOUT1/
* TOTAL NUMBER OF A GIVEN EFFECT (LATENT CANCER, EARLY DEATH, EARLY INJURY)
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE1NUMBER    4
*
TYPE1OUT001    'ERL FAT/TOTAL'              1  15   NOCCDF (0 TO 50 MILES)
TYPE1OUT009    'CAN FAT/TOTAL'              1  15   NOCCDF
TYPE1OUT019    'CAN FAT/TOTAL'              1  11   NOCCDF (0 TO 10 MILES)
TYPE1OUT020    'ERL FAT/TOTAL'              1  11          (0 TO 10 MILES)
*************************************************************************************
* RESULT 2 OPTIONS BLOCK, LOADED BY INOUT2, STORED IN /INOUT2/
* FURTHEST DISTANCE AT WHICH A GIVEN RISK OF EARLY DEATH IS EXCEEDED.
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE2NUMBER  0
*
*            FATALITY RISK THRESHOLD
*
*TYPE2OUT001  0.
```

```
*************************************************************************
* RESULT 3 OPTIONS BLOCK, LOADED BY INOUT3, STORED IN /INOUT3/
* NUMBER OF PEOPLE WHOSE DOSE TO A GIVEN ORGAN EXCEEDS A GIVEN THRESHOLD.
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE3NUMBER  0
*
*               ORGAN NAME    DOSE THRESHOLD (Sv)
*
*TYPE3OUT001    'A-RED MARR'        1.5
*TYPE3OUT002    'A-LUNGS'           5.0
*TYPE3OUT003    'L-EDEWBODY'        0.05
*************************************************************************
* RESULT 4 OPTIONS BLOCK, LOADED BY INOUT4, STORED IN /INOUT4/
* 360 DEGREE AVERAGE RISK OF A GIVEN EFFECT AT A GIVEN DISTANCE.
*
* POSSIBLE TYPES OF EFFECTS ARE:
*
*   'ERL FAT/TOTAL'
*   'ERL INJ/INJURY NAME'
*   'CAN FAT/CANCER NAME'
*   'CAN FAT/TOTAL'
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE4NUMBER  3
*
*            RADIAL INDEX   TYPE OF EFFECT
*
TYPE4OUT001       1         'ERL FAT/TOTAL'
TYPE4OUT002       2         'ERL FAT/TOTAL'
TYPE4OUT003       3         'ERL FAT/TOTAL'
*************************************************************************
* RESULT 5 OPTIONS BLOCK, LOADED BY INOUT5, STORED IN /INOUT5/
*
* TOTAL POPULATION DOSE TO A GIVEN ORGAN BETWEEN TWO DISTANCES.
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE5NUMBER     1
*
*             ORGAN      I1DIS5     I2DIS5
*
TYPE5OUT001 'L-EDEWBODY'      1         15     NOCCDF    (0-50 MILES)
*************************************************************************
* RESULT 6 OPTIONS BLOCK, LOADED BY INOUT6, STORED IN /INOUT6/
*
* CENTERLINE DOSE TO AN ORGAN VS DIST BY PATHWAY, PATHWAY NAMES ARE AS FOLLOWS:
*
*  PATHWAY NAME:
*    'CLD'     - CLOUDSHINE
*    'GRD'     - GROUNDSHINE
*    'INH ACU' - "ACUTE DOSE EQUIVALENT" FROM DIRECT INHALATION OF THE CLOUD
*    'INH LIF' - "LIFETIME DOSE COMMITMENT" FROM DIRECT INHALATION OF THE CLOUD
*    'RES ACU' - "ACUTE DOSE EQUIVALENT" FROM RESUSPENSION INHALATION
*    'RES LIF' - "LIFETIME DOSE COMMITMENT" FROM RESUSPENSION INHALATION
*    'TOT ACU' - "ACUTE DOSE EQUIVALENT" FROM ALL PATHWAYS
*    'TOT LIF' - "LIFETIME DOSE COMMITMENT" FROM ALL PATHWAYS
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE6NUMBER     0
```

```
*
*              ORGNAM         PATHNM       I1DIS6    I2DIS6
*
*TYPE6OUT001  'A-RED MARR'     'TOT ACU'       1         19      (0-50 MILES)
*TYPE6OUT002  'A-LUNGS'        'TOT ACU'       1         19      (0-50 MILES)
*TYPE6OUT003  'L-EDEWBODY'     'TOT LIF'       1         26      (0-1000 MILES)
*************************************************************************************
* RESULT 7 OPTIONS BLOCK, LOADED BY INOUT7, STORED IN /INOUT7/
*
* CENTERLINE RISK OF A GIVEN EFFECT VS DISTANCE
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE7NUMBER    0
*
*                     NAME            I1DIS7        I2DIS7
*
*TYPE7OUT001      'ERL FAT/TOTAL'         1            19        (0-50 MILES)
*TYPE7OUT002      'CAN FAT/TOTAL'         1            26        (0-1000 MILES)
*************************************************************************************
* RESULT 8 OPTIONS BLOCK, LOADED BY INOUT8, STORED IN /INOUT8/
*
* POPULATION WEIGHTED FATALITY RISK BETWEEN 2 DISTANCES
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE8NUMBER    2
*
*                 NAME        I1DIS8   I2DIS8
*
TYPE8OUT001 'ERL FAT/TOTAL'    1        3      NOCCDF
TYPE8OUT002 'CAN FAT/TOTAL'    1       11      NOCCDF   (0-10 MILES)
*************************************************************************************
* RESULT A OPTIONS BLOCK, LOADED BY INOUTA, STORED IN /INOUTA/
*
* peak dose to a given organ
*
*             NUMA
TYPEANUMBER    0
*
*               ORGNAM     I1DISA   I2DISA
*TYPEAOUT001 'L-EDEWBODY'   1         15
```

PNPS Meteorological Data for Calendar Year 2001

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 1  1  4 454  0
 1  2  4 394  0
 1  3  4 414  0
 1  4  4 454  0
 1  5  4 464  0
 1  6  4 444  0
 1  7  4 384  0
 1  8  4 364  0
 1  9  5 424  0
 1 10  5 432  0
 1 11  5 421  0
 1 12  5 361  0
 1 13  5 351  0
 1 14  5 342  0
 1 15  6 294  0
 1 16  6 254  0
 1 17  6 225  0
 1 18  5 185  0
 1 19  4 275  0
 1 20  5 245  0
 1 21  5 215  0
 1 22  6 235  0
 1 23  6 255  0
 1 24  6 284  0
 2  1  6 294  0
 2  2  6 294  0
 2  3  6 304  0
 2  4  6 294  0
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 2  6  6 244  0
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 2  8  6 274  0
 2  9  6 294  0
 2 10  6 293  0
 2 11  6 281  0
 2 12  6 251  0
 2 13  6 251  0
 2 14  6 251  0
 2 15  6 262  0
 2 16  6 264  0
 2 17  5 255  0
 2 18  5 305  0
 2 19  5 255  0
 2 20  7 374  0
 2 21  6 354  0
 2 22  6 324  0
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 3  2  5 314  0
 3  3  5 334  0
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 3  6  4 285  0
 3  7  4 315  0
 3  8  4 305  0
 3  9  4 314  0
 3 10  5 271  0
 3 11  5 251  0
 3 12  6 251  0
 3 13  7 201  0
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3 14  9 142  0
3 15  9 132  0
3 16 10  74  0
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3 19  1 235  0
3 20  1 236  0
3 21  2 205  0
3 22  2 235  0
3 23  2 256  0
3 24  2 216  0
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4  2  3 165  0
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4  8  3 274  0
4  9  3 284  0
4 10  3 254  0
4 11  4 293  0
4 12  4 302  0
4 13  3 304  0
4 14  4 354  0
4 15  4 354  0
4 16  4 264  0
4 17  4 185  0
4 18  4 195  0
4 19  3 235  0
4 20  3 215  0
4 21  3 165  0
4 22  3 245  0
4 23  4 295  0
4 24  4 315  0
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5  2  4 215  0
5  3  3 215  0
5  4  3 245  0
5  5  4 245  0
5  6  3 215  0
5  7  3 216  0
5  8  4 185  0
5  9  4 205  0
5 10  4 163  0
5 11  2 144  0
5 12  3 144  0
5 13  2 134  0
5 14  1 253  0
5 15  1 234  0
5 16 16 204  0
5 17 15 194  0
5 18 15 175  0
5 19 15 195  0
5 20 15 214  1
5 21 16 214  2
5 22 15 285  1
5 23 15 335  1
5 24 15 305  1
6  1 15 255  0
6  2 15 185  2
6  3 15 185  1
6  4 15 215  1
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6  5 14 215  4
6  6 12 335  2
6  7 12 325  4
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6 10  6 414  0
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6 12  6 424  1
6 13  6 374  0
6 14  7 324  0
6 15  6 314  0
6 16  5 324  1
6 17  6 334  0
6 18  6 364  0
6 19  6 364  0
6 20  6 364  0
6 21  6 304  0
6 22  5 264  0
6 23  5 304  0
6 24  5 314  0
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7  7  4 305  0
7  8  4 334  0
7  9  4 314  0
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7 15  5 194  0
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7 18  2 175  0
7 19  2 186  0
7 20  2 165  0
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8  5  3  86  0
8  6 15  65  0
8  7 15  85  0
8  8 15  95  0
8  9 15 105  0
8 10 14  85  0
8 11 14 134  0
8 12 14 174  0
8 13 13 184  0
8 14 10 124  0
8 15  7  85  0
8 16  7  45  0
8 17  7 115  0
8 18  9 105  0
8 19 10 165  0
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 8 20 10 195  0
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 8 22 11 364  3
 8 23 11 324  3
 8 24 11 304  5
 9  1 11 284  3
 9  2 11 254  1
 9  3 10 254  1
 9  4 10 224  1
 9  5 10 224  1
 9  6  9 224  1
 9  7  6 204  0
 9  8  6 165  1
 9  9  5 194  2
 9 10  6 274  1
 9 11  6 284  1
 9 12  6 334  1
 9 13  6 344  0
 9 14  7 284  1
 9 15  6 224  0
 9 16  6 264  0
 9 17  6 284  0
 9 18  5 304  0
 9 19  4 294  0
 9 20  4 344  0
 9 21  4 324  0
 9 22  4 354  0
 9 23  4 354  0
 9 24  4 364  0
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10  2  4 295  0
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10  4  5 434  0
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10  8  6 544  0
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10 15  5 414  0
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10 17  5 335  0
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11  6  2 395  0
11  7  3 415  0
11  8  3 375  0
11  9  3 375  0
11 10  4 344  0
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11 11   4 364   0
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11 13   5 363   0
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11 18   4 285   0
11 19   4 345   0
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11 21   4 405   0
11 22   4 415   0
11 23   4 345   0
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12  3   4 305   0
12  4   5 285   0
12  5   5 205   0
12  6   5 215   0
12  7   5 275   0
12  8   6 304   0
12  9   7 353   0
12 10   9 343   0
12 11   9 332   0
12 12   8 321   0
12 13   8 311   0
12 14   8 291   0
12 15   8 251   0
12 16   9 214   0
12 17   8 165   0
12 18   7 115   0
12 19   6 105   0
12 20   6 115   0
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12 22   5 136   0
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13  5   4 166   0
13  6   4 136   0
13  7   5 125   0
13  8   5 155   0
13  9   4 145   0
13 10   5 134   0
13 11   5 154   0
13 12  13 174   0
13 13   7 214   0
13 14   3 283   0
13 15   2 263   0
13 16   1 284   0
13 17   1 215   0
13 18   1 215   0
13 19   1 165   0
13 20   2 275   0
13 21   3 345   0
13 22   3 295   0
13 23   3 385   0
13 24   3 365   0
14  1   3 365   0
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14 19  3 285  0
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15  3  7  75  0
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15  6 13 235  0
15  7 12 255  0
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15  9 13 335  3
15 10 12 365  8
15 11 12 405 14
15 12 13 365  9
15 13 13 325  3
15 14 13 345  4
15 15 13 395  1
15 16 11 464  1
15 17 12 484  1
15 18 11 294  1
15 19 10 364  0
15 20 10 344  1
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16 14  4 314  0
16 15  4 344  0
16 16  4 274  0
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18 13 12 174  0
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19  2 16 225  0
19  3 16 125  0
19  4 15  65  0
19  5 14  95  0
19  6 15  95  0
19  7 15 115  0
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19 11 15 164  2
19 12 15 154  3
19 13 15  95  5
19 14 11 175  6
19 15  9 205  8
19 16  9 245  5
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19 18  9 335  4
19 19  9 295  6
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19 24  6 225  0
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20  2  8 245  0
20  3  8 275  0
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20  7  8 264  1
20  8  8 264  1
20  9  8 264  2
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20 12 11 394  3
20 13 10 423  1
20 14 10 412  0
20 15 10 382  1
20 16 11 401  1
20 17 11 481  1
20 18 11 511  1
20 19 11 531  0
20 20 11 562  0
20 21 11 553  7
20 22 11 594  1
20 23 11 633  1
20 24 10 593  5
21  1 11 653  4
21  2 11 654  6
21  3 11 654  1
21  4 11 624  2
21  5 10 654  4
21  6 10 694  2
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21  8  9 724  2
21  9  8 682  1
21 10  7 654  2
21 11  7 653  1
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21 13  7 524  0
21 14  6 484  1
21 15  6 414  0
21 16  6 384  0
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21 19  5 364  0
21 20  5 354  0
21 21  5 354  0
21 22  5 294  0
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22  4   3 366   0
22  5   3 376   0
22  6   3 355   0
22  7   3 345   0
22  8   4 355   0
22  9   3 334   0
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22 13   5 221   0
22 14   6 161   0
22 15   5  81   0
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22 17  15  94   0
22 18   1 174   0
22 19   2 234   0
22 20   2 295   0
22 21   2 265   0
22 22   2 255   0
22 23   2 265   0
22 24   2 254   0
23  1   2 264   0
23  2   2 255   0
23  3   2 266   0
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23  5   3 216   0
23  6   3 206   0
23  7   3 186   0
23  8   3 155   0
23  9   1 105   0
23 10  15 164   0
23 11  15 232   0
23 12  16 291   0
23 13   1 282   0
23 14   1 313   0
23 15   1 293   0
23 16   1 204   0
23 17   1 164   0
23 18   3  85   0
23 19   3  85   0
23 20   3  85   0
23 21   4  95   0
23 22   4 115   0
23 23   4 115   0
23 24   4 155   0
24  1   4 145   0
24  2   5 185   0
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24  7   6 235   0
24  8   5 205   0
24  9   5 234   0
24 10   5 283   0
24 11   5 251   0
24 12   7 241   0
24 13   8 301   0
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24 14  8 211  0
24 15  8 173  0
24 16  9 135  0
24 17  8  65  0
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24 19  1  75  0
24 20  2  85  0
24 21  2 125  0
24 22  2 276  0
24 23  2 276  0
24 24  3 246  0
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25  2  3 256  0
25  3  3 296  0
25  4  3 266  0
25  5  4 196  0
25  6  4 115  0
25  7  3 226  0
25  8  3 247  0
25  9  3 226  0
25 10  4 203  0
25 11  2 164  0
25 12 12 172  0
25 13  9 181  0
25 14  9 211  0
25 15  8 222  0
25 16  9 194  0
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26  2  6 324  0
26  3  7 284  0
26  4  6 304  0
26  5  6 294  0
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36 17 11 744 21
36 18 11 634 16
36 19 11 384 16
36 20 10 414 16
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47 22 15 214  3
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48  3  7 155  1
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74  9  4 421  0
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84 18   5 264   0
84 19   5 245   0
84 20   5 176   0
84 21   5 156   0
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85  9   6 203   0
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87 12   5 234   0
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97 23 14 205  0
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302 17  2 135  0
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302 19  3 245  0
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304  6  4 156  0
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305  8  2 255  0
305  9  2 244  0
305 10  2 244  0
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307 24  4 265  0
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310   6   7 424   0
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310   8   7 454   0
310   9   7 434   0
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310  15   7 464   0
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313  6  4 294  2
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315  20   7 285   0
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316 21   7 245   0
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318 12   3 421   0
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331 14  8 133  0
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347  9 12 134  1
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355  6  4 404  0
355  7  4 375  0
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355 14  7 434  0
355 15  7 444  0
355 16  7 474  0
355 17  7 484  0
355 18  7 464  0
355 19  7 454  0
355 20  7 464  0
355 21  7 524  0
355 22  7 464  0
355 23  7 484  0
355 24  7 424  0
356  1  7 474  0
356  2  7 434  0
356  3  7 444  0
356  4  7 404  0
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356  6  5 345  0
356  7  6 384  0
356  8  5 364  0
356  9  6 354  0
356 10  7 311  0
356 11  7 341  0
356 12  7 301  0
356 13  6 311  0
356 14  6 291  0
356 15  6 264  0
356 16  6 234  0
356 17  6 255  0
356 18  7 335  0
356 19  7 324  0
356 20  6 285  0
356 21  6 255  0
356 22  6 275  0
356 23  5 225  0
356 24  6 215  0
357  1  6 235  0
357  2  5 215  0
357  3  5 175  0
357  4  5 195  0
357  5  4 175  0
357  6  4 215  0
357  7  4 226  0
357  8  4 186  0
357  9  4 155  0
357 10  5 194  0
357 11  5 174  0
357 12 13 165  0
357 13  1 184  0
357 14  3 263  0
357 15  2 234  0
357 16 16 135  0
357 17 16 145  0
357 18 16 165  0
357 19 16 185  0
357 20 15  96  0
357 21 15  86  0
357 22 16  95  0
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357 23 16 106  0
357 24 16 176  0
358  1 15 206  0
358  2 16 255  0
358  3 16 335  0
358  4 15 285  0
358  5 15 255  0
358  6 15 255  4
358  7 15 244 18
358  8 15 254 23
358  9  5 184 15
358 10  6  95  3
358 11 14 115  4
358 12 15 284  2
358 13 15 304  0
358 14  2 174  0
358 15  3 194  0
358 16  4 194  0
358 17  4 144  0
358 18  3 124  0
358 19  4 224  0
358 20  5 334  0
358 21  4 275  0
358 22  5 324  0
358 23  4 294  0
358 24  4 314  0
359  1  4 335  0
359  2  4 335  0
359  3  4 325  0
359  4  4 325  0
359  5  3 345  0
359  6  4 315  0
359  7  3 305  0
359  8  3 305  0
359  9  4 224  0
359 10  5 233  0
359 11  5 243  0
359 12  5 211  0
359 13  5 252  0
359 14  5 253  0
359 15  5 214  0
359 16  5 194  0
359 17  3 145  0
359 18  3 175  0
359 19  3 185  0
359 20  3 136  0
359 21  3 175  0
359 22  3 135  0
359 23  3 135  0
359 24  3 135  0
360  1  3 135  0
360  2  4 105  0
360  3  2  85  0
360  4 16  55  0
360  5  1  65  0
360  6  1  75  0
360  7 16 115  0
360  8  1 165  0
360  9  1 184  0
360 10 16 154  0
360 11 15  84  1
360 12 13 114  1
360 13 12 134  0
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360 14 10 134  0
360 15  6 144  0
360 16  7 194  0
360 17  6 204  0
360 18  6 174  0
360 19  6 164  0
360 20  4 135  0
360 21  4 165  0
360 22  4 185  0
360 23  5 244  0
360 24  4 254  0
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361  3  6 284  0
361  4  5 254  0
361  5  4 284  0
361  6  4 314  0
361  7  4 334  0
361  8  4 314  0
361  9  4 344  0
361 10  4 343  0
361 11  4 352  0
361 12  4 422  1
361 13  4 383  0
361 14  5 393  0
361 15  4 374  0
361 16  4 294  0
361 17  3 215  0
361 18  3 155  0
361 19  3 165  0
361 20  4 195  0
361 21  4 195  0
361 22  4 265  0
361 23  4 285  0
361 24  4 275  0
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362  2  4 295  0
362  3  3 255  0
362  4  3 285  0
362  5  3 275  0
362  6  2 275  0
362  7  3 295  0
362  8  3 285  0
362  9  2 294  0
362 10  2 313  0
362 11  3 372  0
362 12  3 393  0
362 13  3 394  0
362 14  3 373  0
362 15  3 324  0
362 16  2 244  0
362 17  2 165  0
362 18  2 165  0
362 19  1 175  0
362 20  1 155  0
362 21  1 175  0
362 22  2 245  0
362 23  4 344  0
362 24  4 265  0
363  1  4 195  0
363  2  4 315  0
363  3  4 275  0
363  4  4 235  0
```

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363   5   3 215   0
363   6   3 295   0
363   7   3 265   0
363   8   3 285   0
363   9   4 244   0
363  10   4 302   0
363  11   4 322   0
363  12   3 373   0
363  13   4 344   0
363  14   4 344   0
363  15   3 354   0
363  16   3 224   0
363  17   3 244   0
363  18   4 244   0
363  19   4 224   0
363  20   4 254   0
363  21   3 235   0
363  22   4 275   0
363  23   4 215   0
363  24   4 305   0
364   1   4 295   0
364   2   4 315   0
364   3   4 325   0
364   4   4 324   0
364   5   4 284   0
364   6   4 275   0
364   7   4 335   0
364   8   3 314   0
364   9   4 384   0
364  10   4 423   0
364  11   4 402   0
364  12   4 392   0
364  13   3 382   0
364  14   4 343   0
364  15   3 344   0
364  16   3 304   0
364  17   3 255   0
364  18   3 255   0
364  19   3 235   0
364  20   3 345   0
364  21   4 364   0
364  22   4 305   0
364  23   4 334   0
364  24   3 355   0
365   1   3 345   0
365   2   3 375   0
365   3   3 344   0
365   4   3 345   0
365   5   3 325   0
365   6   4 365   0
365   7   3 365   0
365   8   3 404   0
365   9   3 394   0
365  10   4 382   0
365  11   4 391   0
365  12   4 371   0
365  13   3 371   0
365  14   4 313   0
365  15   4 324   0
365  16   4 294   0
365  17   4 224   0
365  18   3 175   0
365  19   3 175   0
```

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365 20   4 255   0
365 21   4 275   0
365 22   4 285   0
365 23   4 305   0
365 24   4 325   0
       8.        6.        6.        5.       10.       13.       13.        8.
```

SITEP.INP

```
PNPS MACCS2 SITE DATA FILE, REVISION 0
 LEVEL 3 PSA FOR SAMA ANALYSIS FOR LICENSE RENEWAL
  15 SPATIAL INTERVALS
  16 WIND DIRECTIONS
   4 CROP CATEGORIES
   4 WATER PATHWAY ISOTOPES
   2 WATERSHEDS
  16 ECONOMIC REGIONS
 SPATIAL DISTANCES
      0.53       1.61       3.23       4.84       6.45       8.06       9.68      11.29
     12.90      14.52      16.13      32.26      48.39      64.52      80.65
 POPULATION
        0.         0.         0.         0.         0.         0.         0.         0.
        0.         0.         0.         0.         0.         0.     80474.
        3.         0.         0.         0.         0.         0.         0.         0.
        0.         0.         0.         0.         0.         0.         0.
        3.         0.         0.         0.         0.         0.         0.         0.
        0.         0.         0.         0.         0.         0.         0.
        3.         0.         0.         0.         0.         0.         0.         0.
        0.         0.         0.         0.     33121.         0.         0.
        5.         0.         0.         0.         0.         0.         0.         0.
        0.         0.         0.         0.     33121.     23185.         0.
       23.         0.         0.         0.         0.         0.         0.         0.
        0.         0.         0.         0.     49682.     92740.         0.
       26.       210.       714.         0.         0.         0.         0.         0.
        0.         0.         0.      9936.    115925.     23185.         0.
       26.       210.       714.      1183.      1655.      2128.      2094.      2152.
     1419.       809.       899.     69555.     82803.         0.         0.
       26.       210.       714.      1183.      1655.      2128.      2617.      3075.
     3547.      4046.      4494.     99364.    132485.     84383.     43397.
       26.       210.       714.      1183.      1655.      2128.      2617.      3075.
     3547.      4046.      4494.     49762.     23696.     23185.     21699.
       26.       210.       714.      1183.      1655.      2128.      2617.      3075.
     3547.      4046.      4494.     71088.    277374.    349491.    114546.
       26.       210.       714.      1183.      1655.      2128.      2617.      3075.
     3547.      4046.      4494.     71088.    277374.    349491.    183037.
       26.       210.       357.       828.      1490.      2128.      2617.      3075.
     3547.      4046.      4494.     71088.    277374.    388324.    286370.
       26.       210.         0.         0.       166.       638.      1570.      2152.
     3192.      4046.      4494.     71088.    118481.    303450.    390150.
       26.       147.         0.         0.         0.       213.       262.       307.
     1774.      4046.      4494.     71088.    195075.   1529212.    405561.
       18.        84.         0.         0.         0.       851.       523.       307.
      355.      1214.      2247.     35544.     43350.     31295.    321894.
 LAND FRACTION
0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20
0.10 0.10 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.10 0.10 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.10 0.10 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 0.00 0.00
0.20 0.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 0.10 0.00
0.90 0.80 0.20 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.30 0.40 0.00
1.00 1.00 1.00 0.70 0.10 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.10 0.70 0.10 0.00
1.00 1.00 1.00 1.00 1.00 1.00 0.80 0.70 0.40 0.20 0.20 0.70 0.50 0.00 0.00
1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.80 0.50 0.20
1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.70 0.20 0.10 0.10
1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.90 0.30
1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.90 0.70
1.00 1.00 0.50 0.70 0.90 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
1.00 1.00 0.00 0.00 0.10 0.30 0.60 0.70 0.90 1.00 1.00 1.00 1.00 1.00 1.00
1.00 0.70 0.00 0.00 0.00 0.10 0.10 0.10 0.50 1.00 1.00 1.00 0.90 0.80 1.00
0.70 0.40 0.00 0.00 0.00 0.40 0.20 0.10 0.10 0.30 0.50 0.50 0.20 0.10 0.80
REGION INDEX
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8161616161616161616161616 11616
8161616161616161616161616 1 116
8161616161616161616161616 1 116
8 8 816161616161616161 1 1 1 6
8 8 8 8 8 8 8 8 8 8 8 8 1 116 6
8 8 8 8 8 8 8 8 8 8 8 8 1 1 3 3
8 8 8 8 8 8 8 8 8 8 8 8 8 1 3 3
8 8 8 8 8 8 8 8 8 8 8 8111113
8 8 8 8 8 8 8 8 8 8 8 81111 2
8 8 8 8 8 8 8 8 8 8 8 8111114
8 8 8 8 8 8 8 8 8 8 8 8 8 7 7
8 8 8 8 8 8 8 8 8 8 8 8 7 9 5
8 8 8 8 8 8 8 8 8 8 8 8 7 4 4
WATERSHED INDEX
2 1 2 2 2 2 2 2 2 2 2 2 2 2 1
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
1 1 2 2 2 2 2 2 2 2 2 2 1 2 2
1 1 2 2 2 2 2 2 2 2 2 2 1 1 2
1 1 1 1 2 2 2 2 2 2 2 2 1 1 2
1 1 1 1 1 2 2 2 2 2 2 1 1 1 2
1 1 1 1 1 1 1 1 1 1 1 1 1 2 2
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 2 2 1 1 1 1 1 1 1 1 1 1 1
1 1 2 2 2 1 1 1 1 1 1 1 1 1 1
1 1 2 2 2 1 1 1 1 1 1 1 1 1 1
CROP SEASON AND SHARE
  1 STORED FORAGE          150. 240.   0.370
  2 GRAINS                 150. 240.   0.022
  3 OTHER FOOD CROPS       150. 240.   0.009
  4 ROOTS AND TUBERS       150. 240.   0.042
WATERSHED DEFINITION
  1 Sr-89                               5.0E-6
  2 Sr-90                               5.0E-6
  3 Cs-134                              5.0E-6
  4 Cs-137                              5.0E-6
REGIONAL ECONOMIC DATA
  1 Barnstable       .016 .000    16515.    47727.   149460.
  2 Bristol MA       .113 .021     2384.    23924.    55486.
  3 Dukes            .061 .000     1134.    18438.   416486.
  4 Essex            .080 .020     3124.    11139.    78987.
  5 Middlesex        .057 .005     5816.    29128.    97491.
  6 Nantucket        .034 .000     6951.    26168.   815028.
  7 Norfolk          .040 .004     2575.    25397.    97711.
  8 Plymouth         .175 .008     5004.    17551.    74035.
  9 Suffolk          .000 .000    92840.   698066.    80103.
 10 Worcester        .095 .025     1780.    12382.    54603.
 11 Bristol RI       .122 .000     4405.    32831.    76995.
 12 Kent             .067 .005      979.    12592.    67988.
 13 Newport          .168 .020     3822.    17668.    87055.
 14 Providence       .065 .006     1587.    14481.    52637.
 15 Washington       .108 .009     2486.    11752.    97569.
 16 Atln Ocean       .000 .000        0.        0.        0.
END
```