

TABLE 4  
Surface Stream Transport, Ci  
*Nonvolatile Beta<sup>a</sup>*

<u>Year</u>	<u>Released to Streams</u>	<u>In Transport<sup>b</sup> Past Road A</u>	<u>In Transport<sup>c</sup> in River</u>
1954	30	10	-
1955	112	53	14
1956	305	98	9
1957	875	251	106
1958	537	133	75
1959	1,324	428	40
1960	821	314	186
1961	334	191	141
1962	1,056	207	123
1963	2,548	125	85
1964	1,717	228	135
1965	1,118	98	28
1966	915	127	45
1967	595	94	52
1968	462	127	58
1969	232	58	26
1970	96	45	16
1971	44	19	14
1972	5	5	11
1973	6.0	-	2.1
1974	9.5	-	1.2
1975	3	-	1.2
Total <sup>d</sup>	13,145	2,611	1,169

- a.* Sum of all nonvolatile beta except tritium.
- b.* Measured at the intersection of SRP Road A and surface streams on the SRP site. This is the last point of routine stream sampling before the streams pass through the Savannah River swamp enroute to the Savannah River.
- c.* Downstream from the Savannah River Plant.
- d.* Not corrected for decay.

TABLE 4 (CONTINUED)

Year	<sup>3</sup> H		
	Released to Streams	In Transport <sup>b</sup> Past Road A	In Transport <sup>c</sup> in River
1954			
1955			
1956			
1957			
1958	24,000		
1959	42,000	31,000 <sup>d</sup>	74,000
1960	49,000	70,000	77,000
1961	56,000	83,000	81,000
1962	48,000	64,000	63,000
1963	77,000	97,000	113,000
1964	85,000	137,000	143,000
1965	98,000	109,000	100,000
1966	78,000	98,000	78,000
1967	67,000	77,000	69,000
1968	61,000	67,000	62,000
1969	64,000	64,000	58,000
1970	37,000	43,000	32,000
1971	37,000	45,000	39,000
1972	45,000	47,000	45,000
1973	69,000	58,000	61,000
1974	62,000	49,000	46,000
1975	56,000	50,000	50,000
Total <sup>a</sup>	1,055,000	1,189,000	1,191,000

a. Not corrected for decay.

b. Measured at the intersection of SRP Road A and surface streams on the SRP site. This is the last point of routine stream sampling before the streams pass through the Savannah River swamp enroute to the Savannah River.

c. Downstream from the Savannah River Plant.

d. July-December only.

TABLE 4 (CONTINUED)

<sup>90</sup>Sr

<u>Year</u>	<u>Released To Streams</u>	<u>In Transport<sup>b</sup> Past Road A</u>	<u>In Transport<sup>c</sup> In River</u>
1954			
1955			
1956			
1957			
1958			
1959			
1960			
1961	4.2	2.7	1.3
1962	6.6	5.4	4.9
1963	10.5	4.4	4.3
1964	9.6	7.1	10.0
1965	5.0	6.1	7.6
1966	4.3	5.6	5.6
1967	4.6	3.2	3.9
1968	5.6	4.5	3.9
1969	3.8	4.7	2.9
1970	3.4	4.2	2.8
1971	2.9	2.3	2.5
1972	1.4	1.6	1.6
1973	1.7	<i>d</i>	1.9
1974	1.3	<i>d</i>	1.0
1975	1.2	<i>d</i>	1.0
Total <sup>a</sup>	<u>66.1</u>	<u>51.8</u>	<u>55.2</u>

a. Not corrected for decay.

b. Measured at the intersection of SRP Road A and surface streams on the SRP site. This is the last point of routine stream sampling before the streams pass through the Savannah River swamp enroute to the Savannah River.

c. Downstream from the Savannah River Plant.

d. Data not available because concentrations were less than sensitivity of analysis.

TABLE 4 (CONTINUED)

134,137Cs

<u>Year</u>	<u>Released to Streams</u>	<u>In Transport<sup>b</sup> past Road A</u>	<u>In Transport<sup>c</sup> in River</u>
1954			
1955			
1956			
1957			
1958			
1959			
1960		9.8	
1961	19.0	12.9	
1962	37.6	24.6	
1963	97.4	21.6	5
1964	107.0	55.9	22.3
1965	33.9	30.6	11.6
1966	36.7	35.4	19.1
1967	46.9	31.5	13.6
1968	41.3	30.8	7.8
1969	20.1	20.3	2.9
1970	20.8	18.6	5.3
1971	1.9	5.4	1.2
1972	0.3	3.0	0.5
1973	0.6	d	0.2
1974	0.6	d	0.2
1975	0.9	d	0.2
<u>Total<sup>a</sup></u>	<u>465.0</u>	<u>290.5</u>	<u>89.9</u>

a. Not corrected for decay.

b. Measured at the intersection of SRP Road A and surface streams on the SRP site. This is the last point of routine stream sampling before the streams pass through the Savannah River swamp enroute to the Savannah River.

c. Downstream from the Savannah River Plant.

d. Data not available because concentrations were less than sensitivity of analysis.

TABLE 4 (CONTINUED)

*In Savannah River*

<u>Nuclide</u>	<u>Number of Years of Release Inventory</u>	<u>Number of Years<sup>a</sup> Detectable in River</u>	<u>Total Curies<sup>b</sup> in Transport in River</u>
<sup>32</sup> P	12	0	0
<sup>35</sup> S	15	3	237
<sup>51</sup> Cr	16	5	612
<sup>58,60</sup> Co	16	1	3
<sup>65</sup> Zn	16	1	4
<sup>89</sup> Sr	16	13	64
<sup>95</sup> ZrNb	16	5	4
<sup>103,106</sup> Ru	16	3	8
<sup>131</sup> I	17	5	27
<sup>140</sup> BaLa	16	1	17
<sup>141,144</sup> Ce	16	4	25
<sup>239</sup> Np	16	4	207

a. Present in concentrations above the sensitivity of analysis for a substantial portion of the year.

b. Cumulative total not corrected for decay.