APPENDIX I

**TABLES OF SIMULATED PROPORTIONATE CONTRIBUTION
OF WATER DERIVED USING GENETIC ALGORITHM (GA)
METHODS, SENSITIVITY ANALYSES SENS0,
DOVER TOWNSHIP AREA, NEW JERSEY
1962, 1965, 1971, 1978, 1988, 1995, AND 1996**

Table I-1. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1962

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node; *see* Plate 52 for pipeline location]

Month	Pipeline location	Water contributed from well or well field (percentage)										
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
January	A	2	98	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	[2]0
	C	25	75	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0
February	A	0	100	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	0
	C	1	99	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0
March	A	11	89	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	0
	C	31	69	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0
April	A	15	85	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	0
	C	43	57	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0
May	A	21	79	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	0
	C	73	27	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0
June	A	28	72	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	0
	C	85	15	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0
July	A	22	78	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	0
	C	84	16	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0
August	A	22	78	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	0
	C	49	51	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0

Table I-1. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1962—Continued

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node; *see* Plate 52 for pipeline location]

| Month | Pipeline location | Water contributed from well or well field (percentage) | | | | | | | | | | |
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
September	A	41	59	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	0
	C	90	10	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0
October	A	39	61	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	0
	C	76	24	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0
November	A	23	77	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	0
	C	40	60	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0
December	A	23	77	—	—	—	—	—	—	—	—	100
	B	0	0	—	—	—	—	—	—	—	—	0
	C	44	57	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	0	—	—	—	—	—	—	—	—	0

[1]SUM: sum of percentages across row for each location.

[2]A sum of 0% indicates node was not part of water distribution-system for this month and year.

Table I-2. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1965

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node ; *see* Plate 58 for pipeline location]

| Month | Pipeline location | Water contributed from well or well field (percentage) | | | | | | | | | | |
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
January	A	54	46	—	—	—	—	—	—	—	—	100
	B	91	9	—	—	—	—	—	—	—	—	100
	C	47	53	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	100	—	—	—	—	—	—	—	—	100
February[3]	A	56	44	—	—	—	—	—	—	—	—	100
	B	83	17	—	—	—	—	—	—	—	—	100
	C	39	61	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	100	—	—	—	—	—	—	—	—	100
March	A	56	44	—	—	—	—	—	—	—	—	100
	B	86	14	—	—	—	—	—	—	—	—	100
	C	43	57	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	100	—	—	—	—	—	—	—	—	100
April	A	89	11	—	—	—	—	—	—	—	—	100
	B	99	1	—	—	—	—	—	—	—	—	100
	C	72	28	—	—	—	—	—	—	—	—	100
	D	6	94	—	—	—	—	—	—	—	—	100
	E	3	97	—	—	—	—	—	—	—	—	100
May	A	98	2	—	—	—	—	—	—	—	—	100
	B	100	0	—	—	—	—	—	—	—	—	100
	C	78	22	—	—	—	—	—	—	—	—	100
	D	20	80	—	—	—	—	—	—	—	—	100
	E	0	100	—	—	—	—	—	—	—	—	100
June	A	98	2	—	—	—	—	—	—	—	—	100
	B	100	0	—	—	—	—	—	—	—	—	100
	C	80	20	—	—	—	—	—	—	—	—	100
	D	20	80	—	—	—	—	—	—	—	—	100
	E	0	100	—	—	—	—	—	—	—	—	100
July	A	98	2	—	—	—	—	—	—	—	—	100
	B	100	0	—	—	—	—	—	—	—	—	100
	C	78	22	—	—	—	—	—	—	—	—	100
	D	21	79	—	—	—	—	—	—	—	—	100
	E	0	100	—	—	—	—	—	—	—	—	100
August	A	99	1	—	—	—	—	—	—	—	—	100
	B	100	0	—	—	—	—	—	—	—	—	100
	C	82	18	—	—	—	—	—	—	—	—	100
	D	22	78	—	—	—	—	—	—	—	—	100
	E	0	100	—	—	—	—	—	—	—	—	100

Table I-2. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1965—Continued

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node ; *see* Plate 58 for pipeline location]

Month	Pipeline location	Water contributed from well or well field (percentage)										
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
September	A	97	3	—	—	—	—	—	—	—	—	100
	B	100	0	—	—	—	—	—	—	—	—	100
	C	72	28	—	—	—	—	—	—	—	—	100
	D	21	79	—	—	—	—	—	—	—	—	100
	E	1	99	—	—	—	—	—	—	—	—	100
October	A	87	13	—	—	—	—	—	—	—	—	100
	B	100	0	—	—	—	—	—	—	—	—	100
	C	72	28	—	—	—	—	—	—	—	—	100
	D	6	94	—	—	—	—	—	—	—	—	100
	E	0	100	—	—	—	—	—	—	—	—	100
November	A	73	27	—	—	—	—	—	—	—	—	100
	B	92	8	—	—	—	—	—	—	—	—	100
	C	37	63	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	100	—	—	—	—	—	—	—	—	100
December	A	59	41	—	—	—	—	—	—	—	—	100
	B	89	11	—	—	—	—	—	—	—	—	100
	C	38	62	—	—	—	—	—	—	—	—	100
	D	0	100	—	—	—	—	—	—	—	—	100
	E	0	100	—	—	—	—	—	—	—	—	100

[1]SUM: sum of percentages across row for each location.

Table I-3. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1971

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node ; *see* Plate 64 for pipeline location]

Month	Pipeline location	Water contributed from well or well field (percentage)										
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
January	A	93	0	7	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	4	0	0	96	0	—	—	—	0	0	100
	D	26	73	1	0	0	—	—	—	0	0	100
	E	34	60	0	6	0	—	—	—	0	0	100
February	A	84	0	16	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	4	0	0	96	0	—	—	—	0	0	100
	D	44	45	2	9	0	—	—	—	0	0	100
	E	24	33	0	43	0	—	—	—	0	0	100
March	A	81	0	19	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	4	0	0	96	0	—	—	—	0	0	100
	D	36	61	2	1	0	—	—	—	0	0	100
	E	40	48	1	12	0	—	—	—	0	0	101
April	A	79	0	21	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	7	0	0	93	0	—	—	—	0	0	100
	D	40	55	1	3	0	—	—	—	0	0	99
	E	28	48	0	20	0	—	—	—	2	2	100
May	A	89	0	11	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	4	0	0	96	0	—	—	—	0	0	100
	D	43	55	2	1	0	—	—	—	0	0	101
	E	23	22	0	18	0	—	—	—	2	35	100
June	A	88	0	12	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	11	0	0	89	0	—	—	—	0	0	100
	D	44	52	3	0	1	—	—	—	0	0	100
	E	22	10	0	13	10	—	—	—	12	33	100
July	A	96	0	4	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	0	0	0	96	4	—	—	—	0	0	100
	D	29	53	0	3	15	—	—	—	0	0	100
	E	4	4	0	5	23	—	—	—	24	40	100
August	A	100	0	0	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	0	0	0	92	8	—	—	—	0	0	100
	D	41	58	0	0	1	—	—	—	0	0	100
	E	2	3	0	3	16	—	—	—	23	53	100

Table I-3. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1971—Continued

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node ; *see* Plate 64 for pipeline location]

Month	Pipeline location	Water contributed from well or well field (percentage)										
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
September	A	100	0	0	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	0	0	0	96	4	—	—	—	0	0	100
	D	17	78	0	1	5	—	—	—	0	0	101
	E	0	7	0	1	3	—	—	—	20	69	100
October	A	99	0	1	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	4	0	0	96	0	—	—	—	0	0	100
	D	21	79	0	0	0	—	—	—	0	0	100
	E	0	0	0	0	0	—	—	—	16	84	100
November	A	99	0	1	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	2	0	0	98	0	—	—	—	0	0	100
	D	16	81	0	3	0	—	—	—	0	0	100
	E	7	43	0	17	0	—	—	—	9	25	101
December	A	100	0	0	0	0	—	—	—	0	0	100
	B	100	0	0	0	0	—	—	—	0	0	100
	C	3	0	0	97	0	—	—	—	0	0	100
	D	28	71	0	1	0	—	—	—	0	0	100
	E	16	50	0	34	0	—	—	—	0	0	100

[1]SUM: sum of percentages across row for each location.

Table I-4. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1978

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node; *see* Plate 83 for pipeline location]

Month	Pipeline location	Water contributed from well or well field (percentage)										
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
January	A	81	0	19	0	0	—	—	—	0	0	100
	B	23	0	0	49	29	—	—	—	0	0	101
	C	0	0	0	34	66	—	—	—	0	0	100
	D	65	0	6	2	27	—	—	—	0	0	100
	E	10	0	1	11	78	—	—	—	0	0	100
February	A	81	0	19	0	0	—	—	—	0	0	100
	B	10	0	0	56	33	—	—	—	0	0	99
	C	0	0	0	29	71	—	—	—	0	0	100
	D	47	0	4	6	43	—	—	—	0	0	100
	E	6	0	0	4	89	—	—	—	0	0	99
March	A	80	0	12	2	6	—	—	—	0	0	100
	B	8	0	0	54	38	—	—	—	0	0	100
	C	0	0	0	31	69	—	—	—	0	0	100
	D	44	0	3	3	50	—	—	—	0	0	100
	E	5	0	0	4	90	—	—	—	0	0	99
April	A	76	0	24	0	0	—	—	—	0	0	100
	B	19	0	0	36	45	—	—	—	0	0	100
	C	0	0	0	15	85	—	—	—	0	0	100
	D	43	23	7	1	25	—	—	—	0	0	99
	E	1	6	0	3	35	—	—	—	35	19	99
May	A	75	0	25	0	0	—	—	—	0	0	100
	B	17	0	0	51	32	—	—	—	0	0	100
	C	0	0	0	13	87	—	—	—	0	0	100
	D	34	33	3	1	29	—	—	—	0	0	100
	E	2	15	0	1	46	—	—	—	20	16	100
June	A	80	0	20	0	0	—	—	—	0	0	100
	B	18	0	0	40	41	—	—	—	0	0	99
	C	0	0	0	1	99	—	—	—	0	0	100
	D	22	42	4	0	33	—	—	—	0	0	101
	E	0	5	0	0	23	—	—	—	32	39	99
July	A	80	0	20	0	0	—	—	—	0	0	100
	B	17	0	0	39	44	—	—	—	0	0	100
	C	0	0	0	0	100	—	—	—	0	0	100
	D	20	50	3	0	28	—	—	—	0	0	101
	E	1	7	0	0	34	—	—	—	31	27	100
August	A	92	0	6	0	2	—	—	—	0	0	100
	B	20	0	0	44	36	—	—	—	0	0	100
	C	0	0	0	16	84	—	—	—	0	0	100
	D	13	52	1	0	34	—	—	—	0	0	100
	E	0	4	0	0	16	—	—	—	40	40	100

Table I-4. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1978—Continued

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node; *see* Plate 83 for pipeline location]

Month	Pipeline location	Water contributed from well or well field (percentage)										
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
September	A	86	0	14	0	0	—	—	—	0	0	100
	B	18	0	0	49	33	—	—	—	0	0	100
	C	0	0	0	17	83	—	—	—	0	0	100
	D	19	51	2	0	28	—	—	—	0	0	100
	E	1	15	0	0	31	—	—	—	23	29	99
October	A	84	0	16	0	0	—	—	—	0	0	100
	B	26	0	0	45	28	—	—	—	0	0	99
	C	0	0	0	29	71	—	—	—	0	0	100
	D	31	55	3	1	10	—	—	—	0	0	100
	E	5	27	0	5	63	—	—	—	0	0	100
November	A	96	0	4	0	0	—	—	—	0	0	100
	B	19	0	0	46	36	—	—	—	0	0	101
	C	0	0	0	30	70	—	—	—	0	0	100
	D	51	15	1	3	29	—	—	—	0	0	99
	E	7	6	0	2	84	—	—	—	0	0	99
December	A	72	0	25	0	3	—	—	—	0	0	100
	B	17	0	0	0	83	—	—	—	0	0	100
	C	0	0	0	0	100	—	—	—	0	0	100
	D	52	0	5	0	44	—	—	—	0	0	101
	E	7	0	1	0	93	—	—	—	0	0	101

[1]SUM: sum of percentages across row for each location.

Table I-5. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1988

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node; *see* Plate 99 for pipeline location]

Month	Pipeline location	Water contributed from well or well field (percentage)										
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
January	A	80	0	20	0	0	0	0	—	—	—	100
	B	0	0	0	0	0	0	100	—	—	—	100
	C	13	0	0	0	54	9	23	—	—	—	99
	D	39	53	1	0	6	0	1	—	—	—	100
	E	5	8	0	0	39	45	2	—	—	—	99
February	A	71	0	29	0	0	0	1	—	—	—	100
	B	0	0	0	0	0	0	100	—	—	—	100
	C	5	0	0	0	24	0	71	—	—	—	100
	D	75	7	4	0	11	0	4	—	—	—	100
	E	7	1	0	0	28	46	18	—	—	—	100
March	A	50	0	34	0	0	0	16	—	—	—	100
	B	0	0	0	0	0	0	100	—	—	—	100
	C	0	0	0	0	22	2	75	—	—	—	99
	D	38	35	8	0	9	0	9	—	—	—	99
	E	3	7	0	0	38	40	12	—	—	—	100
April	A	80	0	16	0	0	0	5	—	—	—	101
	B	0	0	0	0	0	0	100	—	—	—	100
	C	1	0	0	0	39	1	60	—	—	—	101
	D	40	52	2	0	4	0	3	—	—	—	101
	E	2	6	0	0	40	44	9	—	—	—	101
May	A	83	0	14	0	0	0	3	—	—	—	100
	B	0	0	0	0	0	0	100	—	—	—	100
	C	1	0	0	0	46	0	53	—	—	—	100
	D	49	43	1	0	6	0	1	—	—	—	100
	E	2	3	0	0	50	37	8	—	—	—	100
June	A	48	0	49	0	0	0	3	—	—	—	100
	B	16	0	0	0	1	0	83	—	—	—	100
	C	9	0	0	4	80	0	7	—	—	—	100
	D	46	30	7	0	16	0	1	—	—	—	100
	E	5	5	0	5	63	22	1	—	—	—	101
July	A	40	0	60	0	0	0	0	—	—	—	100
	B	10	0	0	0	0	0	90	—	—	—	100
	C	17	0	0	4	65	0	14	—	—	—	100
	D	48	28	9	0	14	0	1	—	—	—	100
	E	5	3	0	15	59	15	2	—	—	—	99
August	A	52	0	47	0	0	0	1	—	—	—	100
	B	46	0	0	1	4	0	49	—	—	—	100
	C	6	0	0	15	79	0	0	—	—	—	100
	D	45	32	9	0	13	0	0	—	—	—	99
	E	4	4	0	15	57	20	0	—	—	—	100

Table I-5. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1988—Continued

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node; *see* Plate 99 for pipeline location]

Month	Pipeline location	Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
September	A	72	0	19	0	0	0	8	—	—	—	99
	B	0	0	0	0	0	0	100	—	—	—	100
	C	0	0	0	34	65	0	0	—	—	—	99
	D	24	24	0	5	43	0	4	—	—	—	100
	E	0	1	0	25	44	30	0	—	—	—	100
October	A	73	0	22	1	1	0	4	—	—	—	101
	B	0	0	0	16	26	0	58	—	—	—	100
	C	0	0	0	22	78	0	0	—	—	—	100
	D	20	0	0	7	72	0	1	—	—	—	100
	E	0	0	0	17	44	39	0	—	—	—	100
November	A	58	0	30	0	0	0	13	—	—	—	101
	B	0	0	0	0	0	0	100	—	—	—	100
	C	0	0	0	42	29	1	27	—	—	—	99
	D	30	26	1	11	20	1	11	—	—	—	100
	E	1	2	0	22	29	43	4	—	—	—	101
December	A	0	0	18	3	21	0	57	—	—	—	99
	B	0	0	0	0	0	0	100	—	—	—	100
	C	0	0	0	18	75	7	0	—	—	—	100
	D	0	0	0	6	88	1	5	—	—	—	100
	E	0	0	0	4	56	39	1	—	—	—	100

[1]SUM: sum of percentages across row for each location.

Table I-6. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1995

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node; *see* Plate 118 for pipeline location]

Month	Pipeline location	Water contributed from well or well field (percentage)										
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
January	A	0	0	80	0	0	0	20	0	—	—	100
	B	0	0	0	0	0	0	100	0	—	—	100
	C	0	0	0	13	69	0	18	0	—	—	100
	D	0	0	4	4	69	0	23	0	—	—	100
	E	0	0	0	24	42	28	6	0	—	—	100
February	A	0	0	50	0	1	0	49	0	—	—	100
	B	0	0	0	0	0	0	100	0	—	—	100
	C	0	0	0	19	78	0	3	0	—	—	100
	D	0	0	3	8	77	0	13	0	—	—	100
	E	0	0	0	25	46	30	0	0	—	—	100
March	A	0	0	10	1	31	0	58	0	—	—	100
	B	0	0	0	0	0	0	100	0	—	—	100
	C	0	0	0	11	80	0	10	0	—	—	100
	D	0	0	0	3	93	0	4	0	—	—	100
	E	0	0	0	24	45	30	1	0	—	—	100
April	A	6	0	66	1	2	0	26	0	—	—	100
	B	0	0	0	0	0	0	100	0	—	—	100
	C	0	0	0	15	76	0	9	0	—	—	100
	D	5	0	4	3	73	0	16	0	—	—	100
	E	0	0	0	15	58	24	4	0	—	—	100
May	A	37	0	59	0	0	0	4	0	—	—	100
	B	0	0	0	9	8	0	83	0	—	—	100
	C	0	0	0	4	76	0	21	0	—	—	100
	D	37	0	6	1	47	0	10	0	—	—	100
	E	1	0	0	17	58	19	6	0	—	—	100
June	A	54	0	41	0	0	0	5	0	—	—	100
	B	39	0	0	5	3	0	54	0	—	—	100
	C	4	0	0	2	80	0	14	0	—	—	100
	D	64	2	6	0	23	0	5	0	—	—	100
	E	2	0	0	12	70	14	3	0	—	—	100
July	A	22	0	76	0	0	0	2	0	—	—	100
	B	45	0	0	4	15	0	36	0	—	—	100
	C	11	0	0	7	75	0	7	0	—	—	100
	D	66	9	9	0	14	0	2	0	—	—	100
	E	4	0	0	10	74	11	2	0	—	—	100
August	A	25	0	74	0	0	0	1	0	—	—	100
	B	50	0	0	2	32	0	17	0	—	—	100
	C	14	0	0	1	82	0	3	0	—	—	100
	D	45	15	23	0	5	0	1	11	—	—	100
	E	8	3	2	7	72	7	1	2	—	—	100

Table I-6. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1995—Continued

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node; *see* Plate 118 for pipeline location]

Month	Pipeline location	Water contributed from well or well field (percentage)										
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
September	A	49	0	45	0	0	0	6	0	—	—	100
	B	44	0	0	0	5	0	51	0	—	—	100
	C	8	0	0	3	70	0	19	0	—	—	100
	D	62	17	7	0	10	0	4	0	—	—	100
	E	2	1	0	11	78	9	1	0	—	—	101
October	A	66	0	0	0	0	0	34	0	—	—	100
	B	0	0	0	0	0	0	100	0	—	—	100
	C	0	0	0	7	70	0	22	0	—	—	100
	D	25	0	0	2	56	0	17	0	—	—	100
	E	0	0	0	18	56	22	5	0	—	—	100
November	A	0	0	0	3	20	0	77	0	—	—	100
	B	0	0	0	0	0	0	100	0	—	—	100
	C	0	0	0	5	70	0	24	0	—	—	100
	D	0	0	0	3	81	0	16	0	—	—	100
	E	0	0	0	22	46	26	6	0	—	—	100
December	A	0	0	3	3	15	0	79	0	—	—	100
	B	0	0	0	0	0	0	100	0	—	—	100
	C	0	0	0	7	55	0	38	0	—	—	100
	D	0	0	0	3	84	0	13	0	—	—	100
	E	0	0	0	23	45	27	6	0	—	—	100

[1]SUM: sum of percentages across row for each location.

Table I-7. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1996

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node; *see* Plate 137 for pipeline location]

Month	Pipeline location	Water contributed from well or well field (percentage)										
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
January	A	0	0	4	1	9	0	86	0	—	—	100
	B	0	0	0	0	0	0	100	0	—	—	100
	C	0	0	0	19	66	0	15	0	—	—	100
	D	0	0	0	5	81	0	13	0	—	—	99
	E	0	0	0	28	40	27	5	0	—	—	100
February	A	0	0	12	7	49	0	32	0	—	—	100
	B	0	0	0	6	8	0	87	0	—	—	101
	C	0	0	0	8	92	0	0	0	—	—	100
	D	0	0	0	4	94	0	2	0	—	—	100
	E	0	0	0	27	49	25	0	0	—	—	101
March	A	28	0	17	3	27	0	26	0	—	—	101
	B	0	0	0	4	12	0	84	0	—	—	100
	C	0	0	0	6	93	0	0	0	—	—	99
	D	5	0	1	3	86	0	5	0	—	—	100
	E	0	0	0	28	48	24	0	0	—	—	100
April	A	49	0	50	0	0	0	1	0	—	—	100
	B	36	0	0	0	0	0	64	0	—	—	100
	C	9	0	0	1	88	0	1	0	—	—	99
	D	82	0	5	0	12	0	1	0	—	—	100
	E	3	0	0	4	92	0	0	0	—	—	99
May	A	68	0	32	0	0	0	0	0	—	—	100
	B	60	0	0	0	8	0	32	0	—	—	100
	C	3	0	0	0	97	0	0	0	—	—	100
	D	74	0	7	0	10	0	0	0	—	—	100
	E	7	0	0	0	91	0	0	1	—	—	101
June	A	61	0	30	0	0	0	9	0	—	—	100
	B	38	0	0	0	3	0	59	0	—	—	100
	C	13	0	0	0	83	0	4	0	—	—	100
	D	62	0	12	0	3	0	6	15	—	—	101
	E	11	0	1	0	76	5	1	2	—	—	99
July	A	39	0	61	0	0	0	0	0	—	—	100
	B	13	0	0	0	0	0	87	0	—	—	100
	C	24	0	0	0	57	0	19	0	—	—	100
	D	81	0	13	0	5	0	1	0	—	—	100
	E	11	0	1	5	67	12	4	0	—	—	100
August	A	40	0	60	0	0	0	0	0	—	—	100
	B	19	0	0	0	0	0	81	0	—	—	100
	C	13	0	0	0	78	0	10	0	—	—	101
	D	66	0	13	0	2	0	1	18	—	—	100
	E	16	0	1	0	65	12	3	3	—	—	100

Table I-7. Simulated proportionate contribution of water from well or well field to selected pipeline locations, Genetic Algorithm (GA) simulation SENS0, Dover Township area, New Jersey, 1996—Continued

[—, well or well field not part of distribution-system network for this year; *see* Table 18 for correspondence between pipeline location and model node; *see* Plate 137 for pipeline location]

Month	Pipeline location	Water contributed from well or well field (percentage)										
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay	SUM[1]
September	A	25	0	73	0	0	0	1	0	—	—	99
	B	0	0	0	0	0	0	100	0	—	—	100
	C	3	0	0	0	65	0	32	0	—	—	100
	D	62	0	12	0	21	0	6	0	—	—	101
	E	4	0	0	0	75	10	10	0	—	—	99
October	A	6	0	81	0	0	0	14	0	—	—	101
	B	0	0	0	0	0	0	100	0	—	—	100
	C	0	0	0	0	87	0	13	0	—	—	100
	D	8	0	5	0	69	0	17	0	—	—	99
	E	0	0	0	0	72	23	6	0	—	—	101
November	A	54	0	30	0	0	0	16	0	—	—	100
	B	0	0	0	0	0	0	100	0	—	—	100
	C	0	0	0	0	47	0	53	0	—	—	100
	D	62	0	8	0	2	0	17	11	—	—	100
	E	6	0	1	0	51	24	15	4	—	—	101
December	A	96	0	0	0	0	0	4	0	—	—	100
	B	0	0	0	0	0	0	100	0	—	—	100
	C	43	0	0	0	0	0	57	0	—	—	100
	D	2	0	0	0	0	0	0	98	—	—	100
	E	34	0	0	0	0	21	16	30	—	—	101

[1]SUM: sum of percentages across row for each location.