
APPENDIX K

**TABLES OF ABSOLUTE DIFFERENCE IN SIMULATED PROPORTIONATE CONTRIBUTION OF
WATER BETWEEN THE MANUAL ADJUSTMENT PROCESS AND
GENETIC ALGORITHM (GA) METHODS FOR SENSITIVITY ANALYSES SENS0,
DOVER TOWNSHIP AREA, NEW JERSEY,
1962, 1965, 1971, 1978, 1988, 1995, AND 1996**

Table K-1. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
January	A	7	7	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	0	0	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
February	A	0	0	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	7	7	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
March	A	1	1	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	10	10	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
April	A	13	13	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	4	4	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
May	A	2	2	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	1	1	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
June	A	1	1	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	5	5	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
July	A	2	2	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	6	6	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
August	A	9	9	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	13	13	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—

Table K-1. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
September	A	8	8	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	6	6	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
October	A	2	2	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	4	4	—	—	—	—	—	—	—	—
	D	1	1	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
November	A	3	3	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	4	4	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
December	A	3	3	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	4	4	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—

Table K-2. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
January	A	0	0	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	0	0	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
February	A	0	0	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	0	0	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
March	A	0	0	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	0	0	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
April	A	0	0	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	0	0	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
May	A	1	1	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	4	4	—	—	—	—	—	—	—	—
	D	1	1	—	—	—	—	—	—	—	—
	E	2	2	—	—	—	—	—	—	—	—
June	A	2	2	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	3	3	—	—	—	—	—	—	—	—
	D	3	3	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
July	A	2	2	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	2	2	—	—	—	—	—	—	—	—
	D	1	1	—	—	—	—	—	—	—	—
	E	1	1	—	—	—	—	—	—	—	—
August	A	1	1	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	3	3	—	—	—	—	—	—	—	—
	D	1	1	—	—	—	—	—	—	—	—
	E	1	1	—	—	—	—	—	—	—	—

Table K-2. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
September	A	1	1	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	2	2	—	—	—	—	—	—	—	—
	D	1	1	—	—	—	—	—	—	—	—
	E	2	2	—	—	—	—	—	—	—	—
October	A	0	0	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	0	0	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
November	A	0	0	—	—	—	—	—	—	—	—
	B	1	0	—	—	—	—	—	—	—	—
	C	0	0	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—
December	A	0	0	—	—	—	—	—	—	—	—
	B	0	0	—	—	—	—	—	—	—	—
	C	0	0	—	—	—	—	—	—	—	—
	D	0	0	—	—	—	—	—	—	—	—
	E	0	0	—	—	—	—	—	—	—	—

Table K-3. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
January	A	0	0	0	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	0	0	0	0	0	—	—	—	0	0
	D	0	0	0	0	0	—	—	—	0	0
	E	2	2	0	0	0	—	—	—	0	0
February	A	1	0	1	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	0	0	0	0	0	—	—	—	0	0
	D	2	1	0	1	0	—	—	—	0	0
	E	0	1	0	1	0	—	—	—	0	0
March	A	2	0	2	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	0	0	0	0	0	—	—	—	0	0
	D	1	1	0	0	0	—	—	—	0	0
	E	4	6	0	3	0	—	—	—	0	0
April	A	5	0	5	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	3	0	0	3	0	—	—	—	0	0
	D	1	1	0	0	0	—	—	—	0	0
	E	1	1	0	0	0	—	—	—	1	0
May	A	0	0	0	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	0	0	0	0	0	—	—	—	0	0
	D	0	1	0	0	0	—	—	—	0	0
	E	1	2	0	0	0	—	—	—	1	0
June	A	0	0	0	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	7	0	0	7	0	—	—	—	0	0
	D	0	0	0	1	0	—	—	—	0	0
	E	2	1	0	3	3	—	—	—	0	0
July	A	1	0	1	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	0	0	0	0	0	—	—	—	0	0
	D	1	1	0	0	1	—	—	—	0	0
	E	1	0	0	0	1	—	—	—	0	0
August	A	0	0	0	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	0	0	0	4	4	—	—	—	0	0
	D	2	3	0	0	0	—	—	—	0	0
	E	0	1	0	1	2	—	—	—	4	0

Table K-3. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
September	A	1	0	1	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	0	0	0	0	0	—	—	—	0	0
	D	1	3	0	1	1	—	—	—	0	0
	E	1	1	0	0	0	—	—	—	1	0
October	A	1	0	1	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	0	0	0	0	0	—	—	—	0	0
	D	2	1	0	1	0	—	—	—	0	0
	E	0	2	0	0	0	—	—	—	5	7
November	A	0	0	0	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	0	0	0	0	0	—	—	—	0	0
	D	2	2	0	0	0	—	—	—	0	0
	E	3	7	0	2	0	—	—	—	0	3
December	A	0	0	0	0	0	—	—	—	0	0
	B	0	0	0	0	0	—	—	—	0	0
	C	1	0	0	1	0	—	—	—	0	0
	D	1	1	0	0	0	—	—	—	0	0
	E	1	1	0	2	0	—	—	—	0	0

Table K-4. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
January	A	7	0	7	0	0	—	—	—	0	0
	B	3	0	0	1	1	—	—	—	0	0
	C	0	0	0	0	0	—	—	—	0	0
	D	5	0	3	1	4	—	—	—	0	0
	E	1	0	0	1	1	—	—	—	0	0
February	A	3	0	4	0	0	—	—	—	0	0
	B	0	0	0	3	3	—	—	—	0	0
	C	0	0	0	1	1	—	—	—	0	0
	D	8	0	1	2	4	—	—	—	0	0
	E	0	0	0	5	4	—	—	—	0	0
March	A	6	0	8	1	1	—	—	—	0	0
	B	0	0	0	1	1	—	—	—	0	0
	C	0	0	0	4	4	—	—	—	0	0
	D	6	0	1	1	7	—	—	—	0	0
	E	0	0	0	0	4	—	—	—	0	0
April	A	0	0	0	0	0	—	—	—	0	0
	B	1	0	0	2	1	—	—	—	0	0
	C	0	0	0	1	1	—	—	—	0	0
	D	1	1	0	1	1	—	—	—	0	0
	E	1	2	0	1	4	—	—	—	4	2
May	A	3	0	3	0	0	—	—	—	0	0
	B	3	0	0	1	2	—	—	—	0	0
	C	0	0	0	5	5	—	—	—	0	0
	D	7	7	4	2	2	—	—	—	0	0
	E	1	2	0	1	1	—	—	—	1	3
June	A	1	0	1	0	0	—	—	—	0	0
	B	4	0	0	3	3	—	—	—	0	0
	C	0	0	0	1	1	—	—	—	0	0
	D	3	0	0	0	3	—	—	—	0	0
	E	0	1	0	0	2	—	—	—	3	2
July	A	2	0	2	0	0	—	—	—	0	0
	B	2	0	0	1	1	—	—	—	0	0
	C	0	0	0	0	0	—	—	—	0	0
	D	3	4	0	0	0	—	—	—	0	0
	E	0	0	0	0	7	—	—	—	0	7
August	A	8	0	8	0	0	—	—	—	0	0
	B	4	0	0	2	2	—	—	—	0	0
	C	0	0	0	3	3	—	—	—	0	0
	D	5	7	3	0	15	—	—	—	0	0
	E	0	0	0	0	3	—	—	—	11	7

Table K-4. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
September	A	2	0	2	0	0	—	—	—	0	0
	B	0	0	0	1	1	—	—	—	0	0
	C	0	0	0	6	6	—	—	—	0	0
	D	6	3	2	0	5	—	—	—	0	0
	E	0	4	0	0	3	—	—	—	7	2
October	A	1	0	1	0	0	—	—	—	0	0
	B	1	0	0	311	1	—	—	—	0	0
	C	0	0	0	0	11	—	—	—	0	0
	D	9	7	1	1	1	—	—	—	0	0
	E	3	2	0		0	—	—	—	0	0
November	A	2	0	2	0	0	—	—	—	0	0
	B	2	0	0	1	0	—	—	—	0	0
	C	0	0	0	1	1	—	—	—	0	0
	D	1	5	1	1	2	—	—	—	0	0
	E		1	0	4	5	—	—	—	0	0
December	A	12	0	13	0	1	—	—	—	0	0
	B	2	0	0	0	2	—	—	—	0	0
	C	0	0	0	0	0	—	—	—	0	0
	D	4	0	2	0	3	—	—	—	0	0
	E	0	0	1	0	1	—	—	—	0	0

Table K-5. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
January	A	1	0	0	0	0	0	1	—	—	—
	B	0	0	0	0	0	0	0	—	—	—
	C	2	0	0	0	1	3	1	—	—	—
	D	1	1	0	0	2	0	0	—	—	—
	E	0	0	0	0	3	2	2	—	—	—
February	A	2	0	1	0	0	0	1	—	—	—
	B	0	0	0	0	0	0	0	—	—	—
	C	2	0	0	0	3	3	5	—	—	—
	D	1	1	0	0	1	0	2	—	—	—
	E	0	0	0	0	4	5	1	—	—	—
March	A	8	0	3	0	0	0	5	—	—	—
	B	0	0	0	0	0	0	0	—	—	—
	C	0	0	0	0	7	0	6	—	—	—
	D	6	0	6	0	3	1	3	—	—	—
	E	1	3	0	0	7	9	2	—	—	—
April	A	1	0	0	0	0	0	0	—	—	—
	B	0	0	0	0	0	0	0	—	—	—
	C	1	0	0	0	4	0	3	—	—	—
	D	1	5	1	0	4	0	0	—	—	—
	E	0	0	0	0	3	1	1	—	—	—
May	A	1	0	1	0	0	0	0	—	—	—
	B	0	0	0	0	0	0	0	—	—	—
	C	0	0	0	0	8	1	9	—	—	—
	D	7	7	0	0	0	0	0	—	—	—
	E	1	3	0	0	8	4	0	—	—	—
June	A	2	0	1	0	0	0	0	—	—	—
	B	1	0	0	1	0	0	0	—	—	—
	C	0	0	0	0	0	0	0	—	—	—
	D	0	0	0	0	1	0	0	—	—	—
	E	0	0	0	0	1	1	0	—	—	—
July	A	0	0	0	0	0	0	0	—	—	—
	B	2	0	0	0	0	0	1	—	—	—
	C	8	0	0	0	12	0	4	—	—	—
	D	1	2	2	0	0	0	0	—	—	—
	E	1	0	0	0	2	1	0	—	—	—
August	A	0	0	0	0	0	0	0	—	—	—
	B	3	0	0	0	0	0	2	—	—	—
	C	0	0	0	1	1	0	0	—	—	—
	D	0	0	0	1	0	0	0	—	—	—
	E	0	0	0	0	1	1	0	—	—	—

Table K-5. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
September	A	2	0	0	0	0	0	1	—	—	—
	B	1	0	0	0	0	0	1	—	—	—
	C	0	0	0	3	4	0	0	—	—	—
	D	0	1	0	0	0	0	1	—	—	—
	E	0	0	0	0	0	0	0	—	—	—
October	A	4	0	7	0	0	0	2	—	—	—
	B	0	0	0	6	5	0	12	—	—	—
	C	0	0	0	1	1	0	0	—	—	—
	D	2	0	0	1	3	0	0	—	—	—
	E	0	0	0	1	1	0	0	—	—	—
November	A	0	0	2	0	0	0	1	—	—	—
	B	0	0	0	0	0	0	0	—	—	—
	C	0	0	0	12	2	1	10	—	—	—
	D	0	6	0	1	3	0	2	—	—	—
	E	0	0	0	3	7	4	1	—	—	—
December	A	0	0	1	1	8	0	11	—	—	—
	B	0	0	0	0	0	0	0	—	—	—
	C	0	0	0	3	4	6	0	—	—	—
	D	0	0	0	2	2	0	0	—	—	—
	E	0	0	0	0	9	9	1	—	—	—

Table K-6. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
January	A	0	0	10	0	0	0	10	0	—	—
	B	0	0	0	0	0	0	0	0	—	—
	C	0	0	0	5	13	0	8	0	—	—
	D	0	0	1	1	5	0	3	0	—	—
	E	0	0	0	3	2	5	1	0	—	—
February	A	0	0	5	0	1	0	4	0	—	—
	B	0	0	0	0	0	0	0	0	—	—
	C	0	0	0	7	10	0	3	0	—	—
	D	0	0	2	4	6	0	2	0	—	—
	E	0	0	0	4	3	3	0	0	—	—
March	A	0	0	5	1	7	0	11	0	—	—
	B	0	0	0	0	0	0	0	0	—	—
	C	0	0	0	1	7	0	9	0	—	—
	D	0	0	0	4	3	0	1	0	—	—
	E	0	0	0	4	2	1	0	0	—	—
April	A	2	0	9	1	2	0	8	0	—	—
	B	0	0	0	0	0	0	0	0	—	—
	C	0	0	0	12	10	0	2	0	—	—
	D	4	0	1	1	6	0	2	0	—	—
	E	0	0	0	7	3	3	2	0	—	—
May	A	5	0	4	0	0	0	0	0	—	—
	B	0	0	0	8	7	0	15	0	—	—
	C	0	0	0	4	10	0	7	0	—	—
	D	5	0	1	1	3	0	2	0	—	—
	E	1	0	0	1	0	1	3	0	—	—
June	A	0	0	1	0	0	0	1	0	—	—
	B	17	0	0	5	2	0	23	0	—	—
	C	2	0	0	2	14	0	10	0	—	—
	D	9	0	2	0	5	0	1	0	—	—
	E	0	0	0	2	4	5	2	0	—	—
July	A	5	0	5	0	0	0	0	0	—	—
	B	4	0	0	4	9	0	17	0	—	—
	C	7	0	0	7	4	0	5	0	—	—
	D	7	3	0	0	4	0	1	0	—	—
	E	3	1	0	3	3	2	1	0	—	—
August	A	1	0	2	0	0	0	1	0	—	—
	B	9	0	0	1	15	0	7	0	—	—
	C	2	0	0	0	5	0	3	0	—	—
	D	10	3	0	0	3	0	1	4	—	—
	E	3	4	1	2	3	1	1	1	—	—

Table K-6. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
September	A	5	0	5	0	0	0	1	0	—	—
	B	17	0	0	1	5	0	21	0	—	—
	C	6	0	0	0	7	0	13	0	—	—
	D	4	1	3	0	1	0	0	0	—	—
	E	2	0	0	3	8	0	0	0	—	—
October	A	0	0	0	0	0	0	0	0	—	—
	B	0	0	0	0	0	0	0	0	—	—
	C	0	0	0	3	9	0	5	0	—	—
	D	4	0	0	0	6	0	3	0	—	—
	E	0	0	0	5	2	2	0	0	—	—
November	A	0	0	0	2	4	0	6	0	—	—
	B	0	0	0	0	0	0	0	0	—	—
	C	0	0	0	0	11	0	10	0	—	—
	D	0	0	0	2	0	0	2	0	—	—
	E	0	0	0	10	8	2	1	0	—	—
December	A	0	0	3	2	3	0	8	0	—	—
	B	0	0	0	0	0	0	0	0	—	—
	C	0	0	0	1	22	0	21	0	—	—
	D	0	0	0	3	2	0	1	0	—	—
	E	0	0	0	5	9	1	4	0	—	—

Table K-7. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
January	A	0	0	8	1	1	0	7	0	—	—
	B	0	0	0	0	0	0	0	0	—	—
	C	0	0	0	12	13	0	1	0	—	—
	D	0	0	0	1	7	0	8	0	—	—
	E	0	0	0	6	6	0	0	0	—	—
February	A	0	0	4	3	1	0	1	0	—	—
	B	0	0	0	4	11	0	8	0	—	—
	C	0	0	0	0	0	0	0	0	—	—
	D	0	0	2	2	5	0	1	0	—	—
	E	0	0	0	1	1	1	0	0	—	—
March	A	2	0	9	3	2	0	4	0	—	—
	B	0	0	0	3	8	0	4	0	—	—
	C	0	0	0	5	5	0	0	0	—	—
	D	5	0	1	1	7	0	0	0	—	—
	E	0	0	0	4	3	0	0	0	—	—
April	A	1	0	2	0	0	0	1	0	—	—
	B	2	0	0	0	0	0	3	0	—	—
	C	4	0	0	1	3	0	0	0	—	—
	D	3	0	1	0	4	0	0	0	—	—
	E	1	0	0	0	1	0	0	0	—	—
May	A	4	0	3	0	0	0	0	0	—	—
	B	4	0	0	0	0	0	4	0	—	—
	C	17	0	0	0	17	0	0	0	—	—
	D	6	2	1	0	3	0	0	0	—	—
	E	1	0	0	0	2	0	0	1	—	—
June	A	7	0	3	0	0	0	4	0	—	—
	B	2	0	0	0	1	0	3	0	—	—
	C	6	0	0	0	9	0	3	0	—	—
	D	4	1	3	0	1	0	2	2	—	—
	E	2	1	0	0	2	0	1	1	—	—
July	A	4	0	4	0	0	0	0	0	—	—
	B	3	0	0	0	0	0	3	0	—	—
	C	7	0	0	0	12	0	5	0	—	—
	D	1	0	2	0	2	0	0	0	—	—
	E	1	0	0	1	3	5	0	1	—	—
August	A	0	0	0	0	0	0	0	0	—	—
	B	1	0	0	0	0	0	1	0	—	—
	C	7	0	0	0	13	0	4	0	—	—
	D	0	0	1	0	1	0	0	0	—	—
	E	1	0	0	0	3	5	2	0	—	—

Table K-7. Absolute difference in proportionate contribution of water from well or well field to selected pipeline locations, between the manual adjustment process and Genetic Algorithm (GA) methods for sensitivity analyses 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]

Month	Pipeline location	Absolute difference in percentage of water contributed from well or well field									
		Holly	Brookside	South Toms River	Indian Head	Parkway	Route 70	Berkeley	Windsor	Anchorage	Silver Bay
September	A	2	0	3	0	0	0	0	0	—	—
	B	0	0	0	0	3	0	3	0	—	—
	C	1	0	0	0	6	0	5	0	—	—
	D	5	0	1	0	7	0	0	0	—	—
	E	0	0	0	0	2	0	1	0	—	—
October	A	1	0	2	0	0	0	3	0	—	—
	B	0	0	0	0	0	0	0	0	—	—
	C	0	0	0	0	5	0	5	0	—	—
	D	1	0	1	0	4	0	3	0	—	—
	E	0	0	0	0	4	3	2	0	—	—
November	A	6	0	3	0	0	0	3	0	—	—
	B	0	0	0	0	0	0	0	0	—	—
	C	0	0	0	0	2	0	2	0	—	—
	D	6	0	2	0	0	0	1	10	—	—
	E	1	0	1	0	8	6	2	1	—	—
December	A	0	0	0	0	0	0	0	0	—	—
	B	3	0	0	0	0	0	3	0	—	—
	C	13	0	0	0	0	0	13	0	—	—
	D	1	0	0	0	0	0	0	1	—	—
	E	1	0	0	0	0	2	3	0	—	—

