APPENDIX J

**GRAPHS OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER DERIVED USING
GENETIC ALGORITHM (GA) METHODS, SENSITIVITY ANALYSES SENS0,
DOVER TOWNSHIP AREA, NEW JERSEY,
MINIMUM-, MAXIMUM-, AND AVERAGE-DEMAND MONTHS
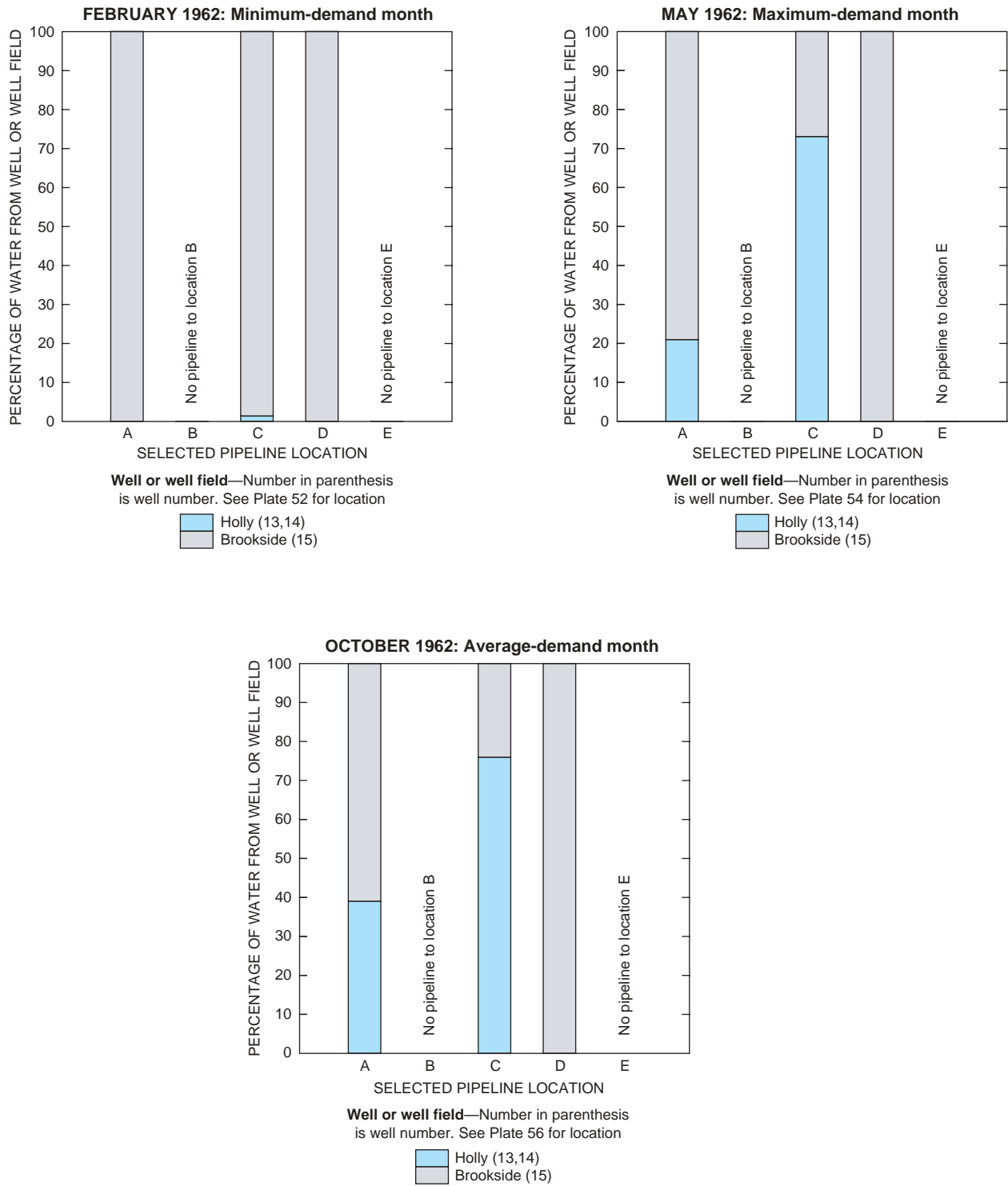1962, 1965, 1971, 1978, 1988, 1995, AND 1996**

Figure J-1. Simulated proportionate contribution of water from wells and well fields to selected locations, Dover Township area, New Jersey, 1962 [Genetic Algorithm (GA) optimization simulation SENS0].

FEBRUARY 1965: Minimum-demand month

JUNE 1965: Maximum-demand month

OCTOBER 1965: Average-demand month

Figure J-2. Simulated proportionate contribution of water from wells and well fields to selected locations, Dover Township area, New Jersey, 1965 [Genetic Algorithm (GA) optimization simulation SENS0].
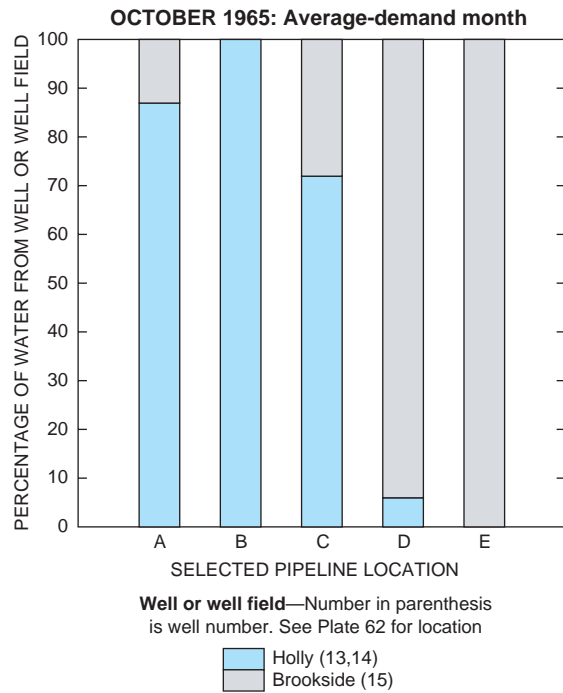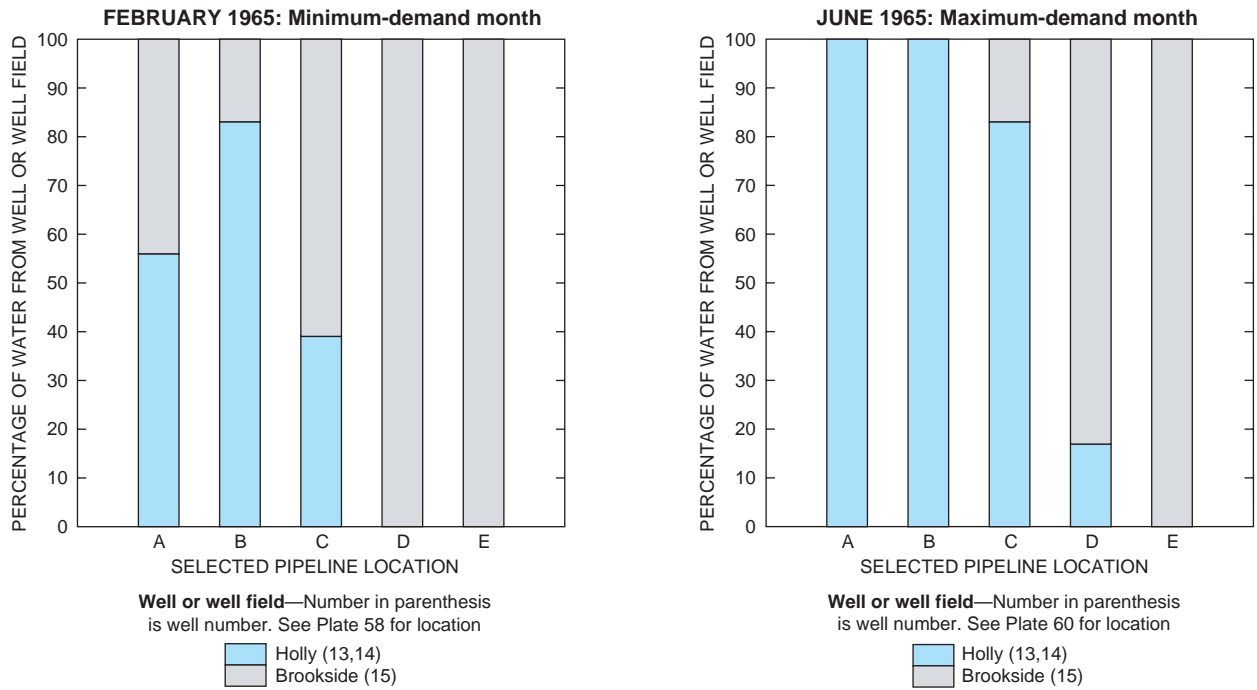
FEBRUARY 1971: Minimum-demand month

JULY 1971: Maximum-demand month

OCTOBER 1971: Average-demand month

Well or well field—Number in parenthesis
is well number. See Plate 64 for location

- Holly (16,18,19)
- Brookside (15)
- South Toms River (17)
- Indian Head (20)

Well or well field—Number in parenthesis
is well number. See Plate 70 for location

- Holly (14,16,18,19,21)
- Brookside (15)
- South Toms River (17)
- Indian Head (20)
- Parkway (22,23,26,27)
- Anchorage
- Silver Bay

Well or well field—Number in parenthesis
is well number. See Plate 77 for location

- Holly (16,18,19)
- Brookside (15)
- South Toms River (17)
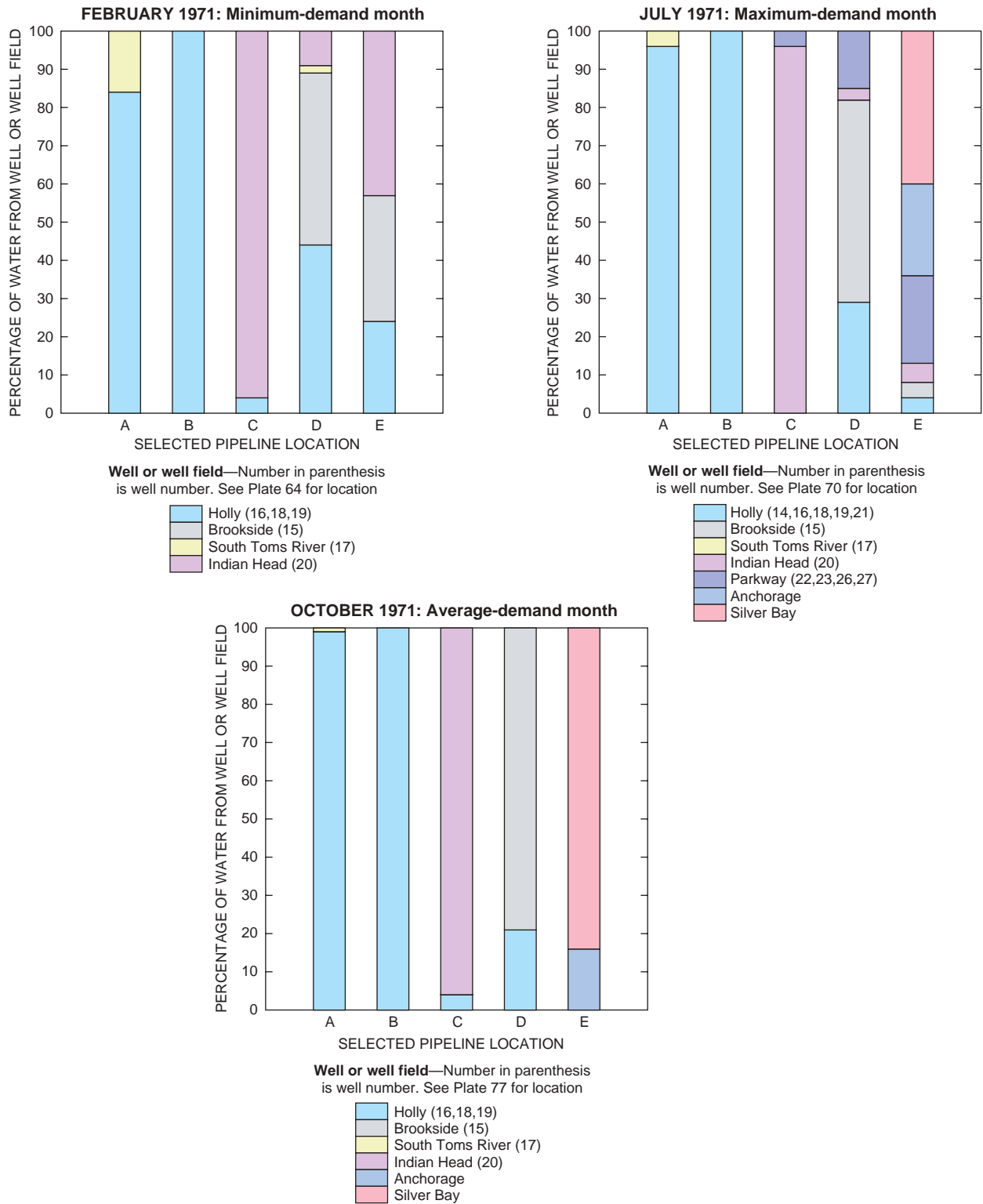- Indian Head (20)
- Anchorage
- Silver Bay

Figure J-3. Simulated proportionate contribution of water from wells and well fields to selected locations, Dover Township area, New Jersey, 1971 [Genetic Algorithm (GA) optimization simulation SENS0].

Figure J-4. Simulated proportionate contribution of water from wells and well fields to selected locations, Dover Township area, New Jersey, 1978 [Genetic Algorithm (GA) optimization simulation SENS0].
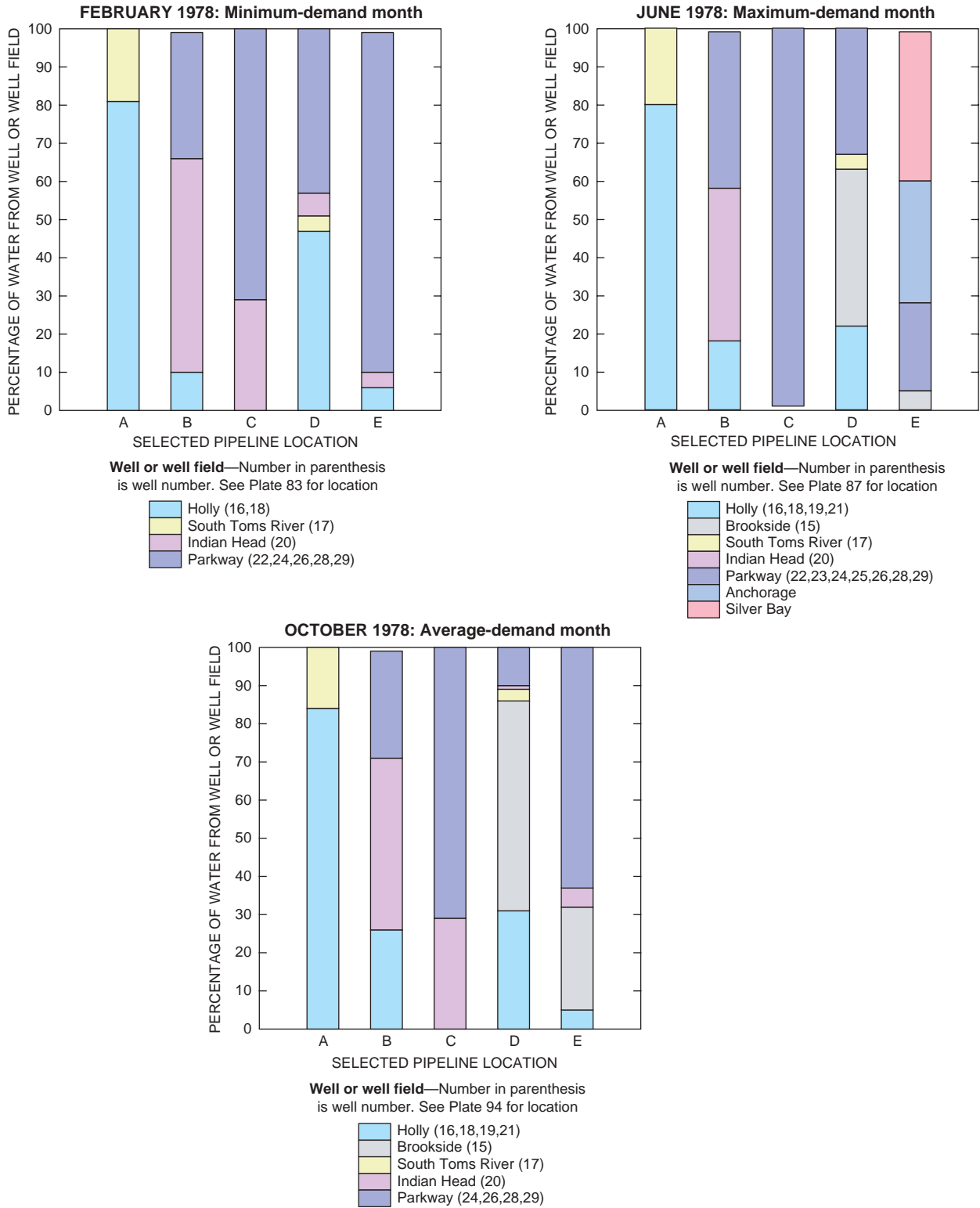
Figure J-5. Simulated proportionate contribution of water from wells and well fields to selected locations, Dover Township area, New Jersey, 1988 [Genetic Algorithm (GA) optimization simulation SENS0].

Figure J-6. Simulated proportionate contribution of water from wells and well fields to selected locations, Dover Township area, New Jersey, 1995 [Genetic Algorithm (GA) optimization simulation SENS0].
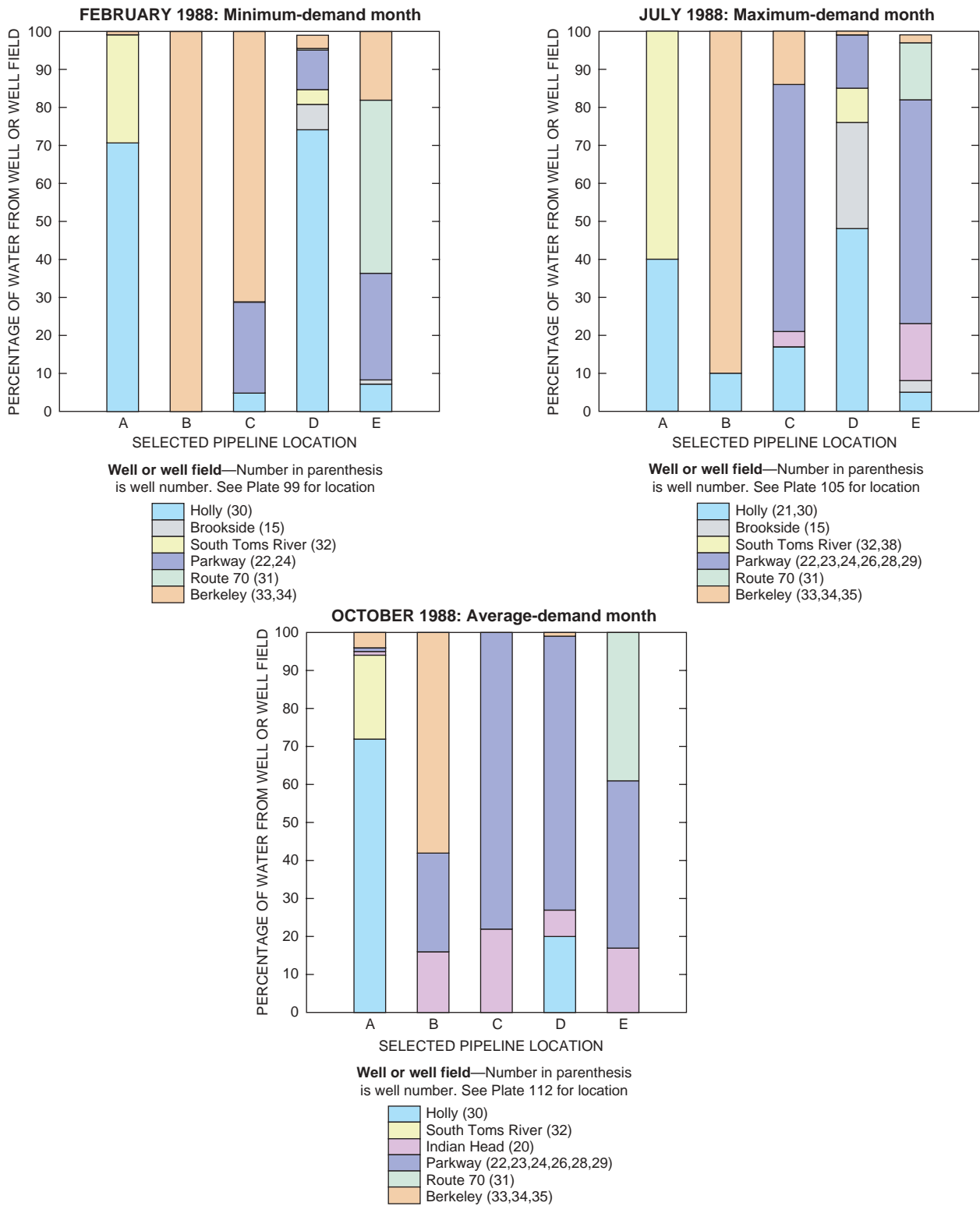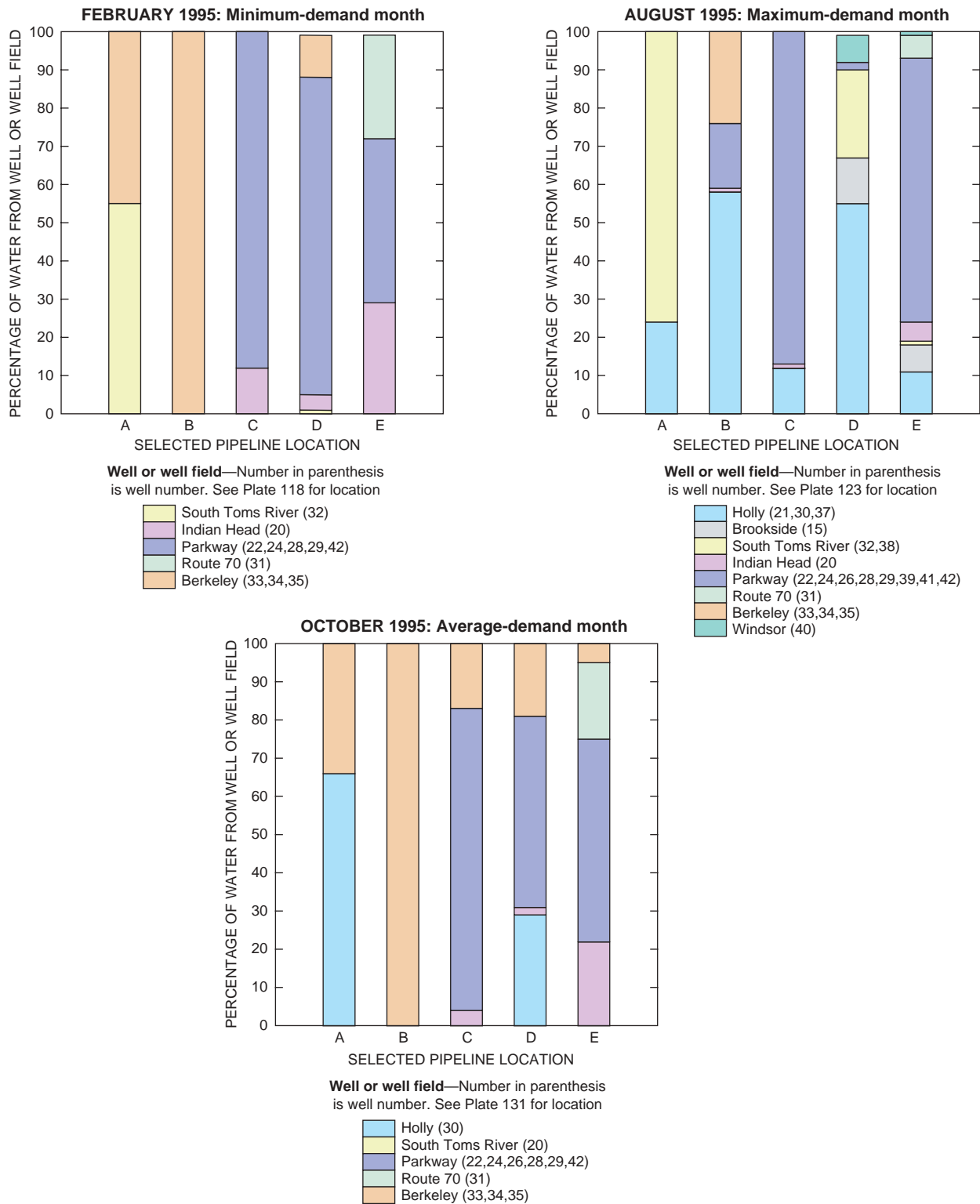
FEBRUARY 1996: Minimum-demand month

Well or well field—Number in parenthesis
is well number. See Plate 137 for location

- South Toms River (32)
- Indian Head (20)
- Parkway (22,24,26,28,29,42)
- Route 70 (31)
- Berkeley (33,34)

JUNE 1996: Maximum-demand month

Well or well field—Number in parenthesis
is well number. See Plate 142 for location

- Holly (30)
- Brookside (15)
- South Toms River (32,38)
- Parkway (22,24,26,28,29,42)
- Route 70 (31)
- Berkeley (33,34,36)
- Windsor (40)

OCTOBER 1996: Average-demand month

Well or well field—Number in parenthesis
is well number. See Plate 149 for location

- Holly (30)
- South Toms River (32)
- Parkway (22,24,26,28,29,42)
- Route 70 (31)
- Berkeley (33,34,35)

Figure J-7. Simulated proportionate contribution of water from wells and well fields to selected locations, Dover Township area, New Jersey, 1996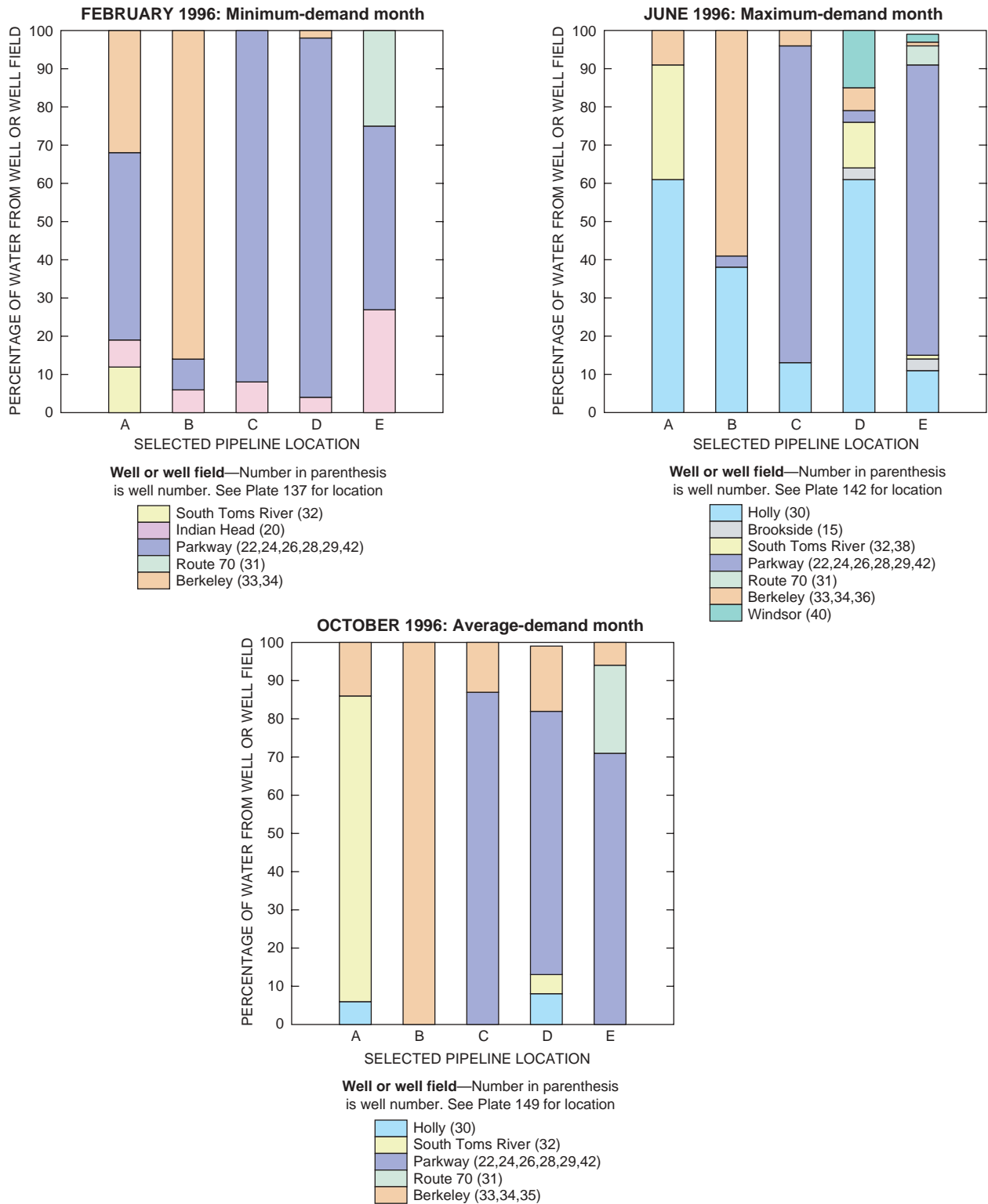 [Genetic Algorithm (GA) optimization simulation SENS0].