### APPENDIX II

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# II.1 GOODWIN CREEK DEM, LAND USE, SOIL TYPE, AND WATERSHED DEFINITION AT DIFFERENT SPATIAL RESOLUTION

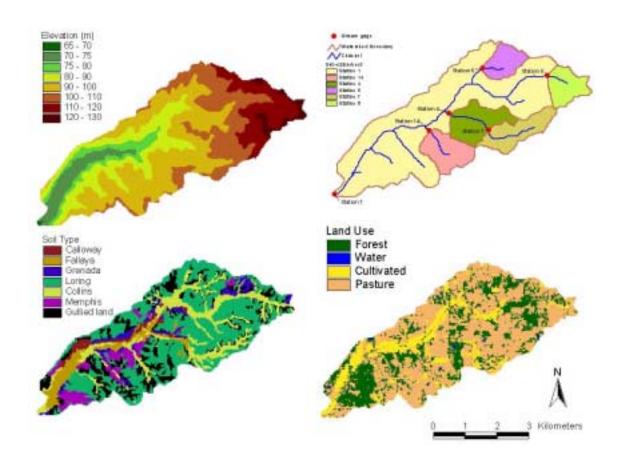


Figure II.1.1 DEM, watershed definition, soil type, and land use at 30-m

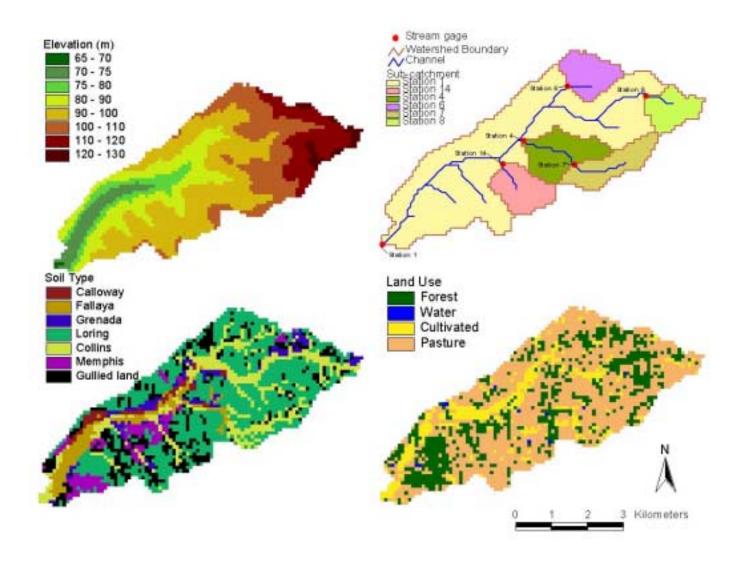


Figure II.1.2 DEM, watershed definition, soil type, and land use at 90-m

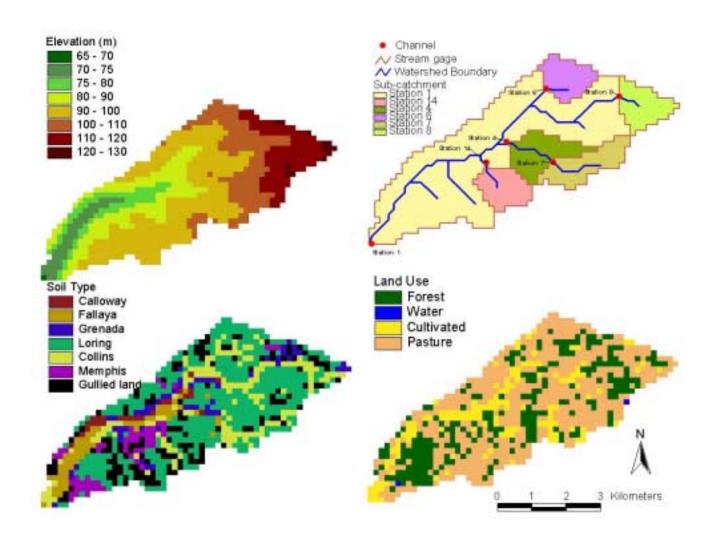


Figure II.1.3 DEM, watershed definition, soil type, and land use at 150-m

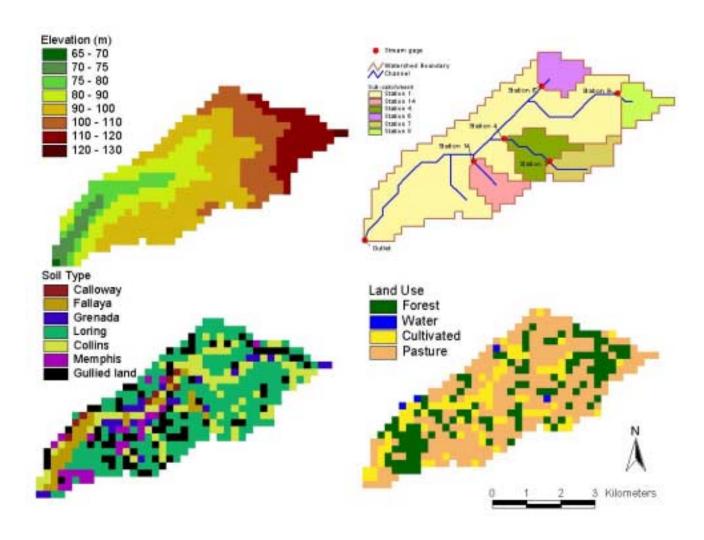


Figure II.1.4 DEM, watershed definition, soil type, and land use at 210-m

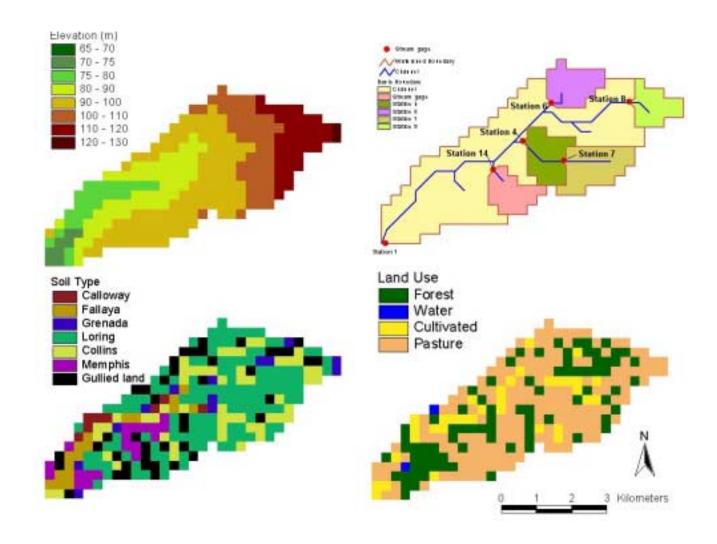


Figure II.1.5 DEM, watershed definition, soil type, and land use at 270-m

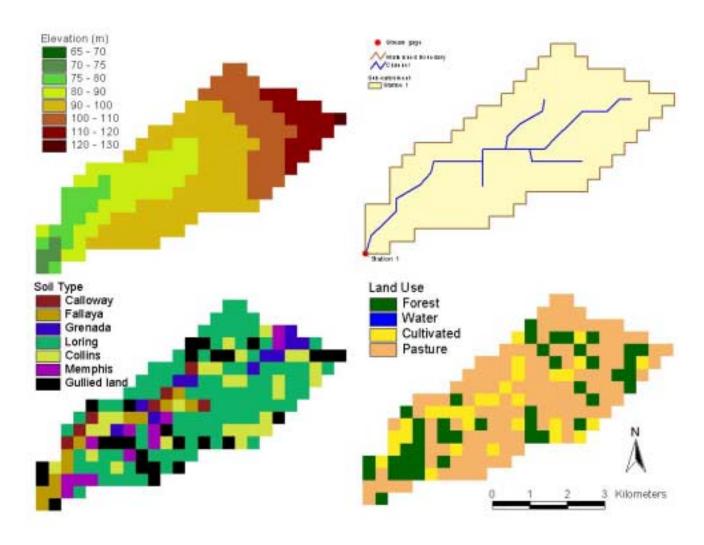


Figure II.1.6 DEM, watershed definition, soil type, and land use at 330-m

## II.2 PERCENTAGE OF THE AREA COVERED BY EACH SOIL TYPE FOR EACH GRID SIZE AND SUB-BASIN

Goodwin Creek sub-basin 4

### 70% $\square$ 30 m. resolution □90 m. resolution 60% □150 m. resolution 50% % Area □210 m. resolution 40% □270 m. resolution □330 m. resolution 30% 20% 10% 0% Callowa Memphi Gullied Fallaya Grenada Loring Collins Land 1% 6% 3% 61% 21% 0% 7% 30 m. resolution 90 m. resolution 1% 60% 0% 8% 150 m. resolution 1% 63% 20% 0% 8% 210 m. resolution 0% 7% 3% 61% 19% 0% 10% 270 m. resolution 2% 2% 4% 62% 28% 0% 2% 330 m. resolution 3% 3% 0% 65% 19% 0% 11%

Figure II.2.1 Percentage of the area covered by each soil type in sub-basin 4

Goodwin Creek sub-basin 6

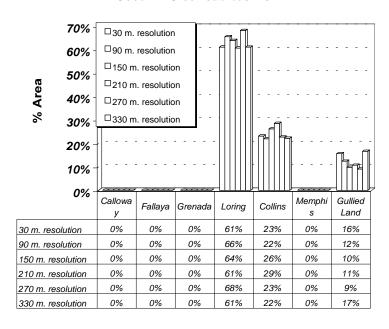


Figure II.2.2 Percentage of the area covered by each soil type in sub-basin 6

### Goodwin Creek sub-basin 7

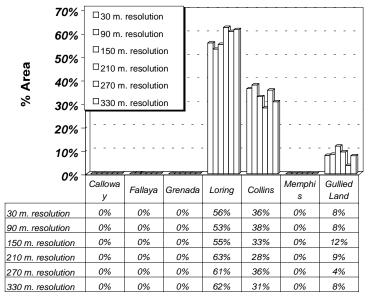


Figure II.2.3 Percentage of the area covered by each soil type in sub-basin 7

Goodwin Creek sub-basin 8

### 45% □30 m. resolution 40% □90 m. resolution 35% □150 m. resolution % Area 30% □210 m. resolution 25% □270 m. resolution 20% □330 m. resolution 15% 10% 5% 0% Gullied Callowa Memphi Fallaya Grenada Loring Collins Land 0% 0% 4% 44% 28% 0% 24% 30 m. resolution 90 m. resolution 0% 0% 6% 41% 31% 0% 21% 0% 41% 27% 21% 0% 11% 0% 150 m. resolution 210 m. resolution 0% 0% 8% 36% 36% 0% 20% 270 m. resolution 0% 0% 11% 33% 39% 0% 17% 330 m. resolution 0% 0% 8% 38%

Figure II.2.4 Percentage of the area covered by each soil type in sub-basin 8

### 50% $\square$ 30 m. resolution □90 m. resolution 40% □150 m. resolution % Area □210 m. resolution **30%** □270 m. resolution $\square$ 330 m. resolution 20% 10% 0% Callowa Gullied Memphi Fallaya Loring Grenada Collins Land s 48% 0% 0% 1% 9% 10% 32% 30 m. resolution 90 m. resolution 0% 0% 1% 47% 9% 9% 33% 0% 2% 35% 0% 42% 15% 6% 150 m. resolution 0% 3% 48% 0% 17% 10% 21% 210 m. resolution 0% 0% 0% 47% 16% 16% 21% 270 m. resolution

0%

330 m. resolution

0%

0%

Goodwin Creek sub-basin 14

Figure II.2.5 Percentage of the area covered by each soil type in sub-basin 14

40%

10%

20%

30%

## II.3 PERCENTAGE OF THE AREA COVERED BY EACH SOIL TYPE FOR EACH GRID SIZE AND SUB-BASIN

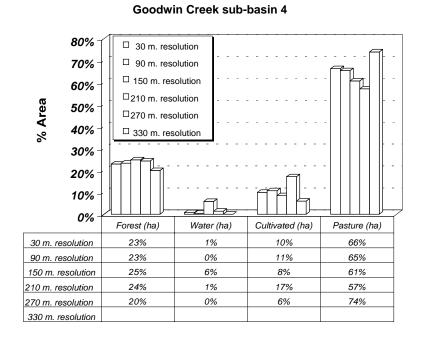


Figure II.3.1 Percentage of the area covered by each land use type in sub-basin 4

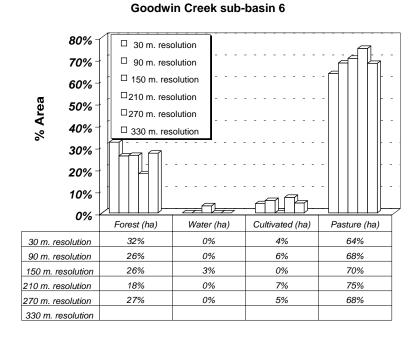


Figure II.3.2 Percentage of the area covered by each land use type in sub-basin 6

### Goodwin Creek sub-basin 7 80% □ 30 m. resolution 70% □ 90 m. resolution $\hfill\Box$ 150 m. resolution 60% □210 m. resolution % Area 50% □270 m. resolution 40% $\hfill 330 \ \text{m.}$ resolution 30% 20% 10% 0% Forest (ha) Water (ha) Cultivated (ha) Pasture (ha) 30 m. resolution 17% 70% 18% 90 m. resolution 0% 10% 72% 13% 1% 17% 68% 150 m. resolution 19% 0% 25% 56% 210 m. resolution

Figure II.3.3 Percentage of the area covered by each land use type in sub-basin 7

0%

7%

79%

14%

270 m. resolution

330 m. resolution

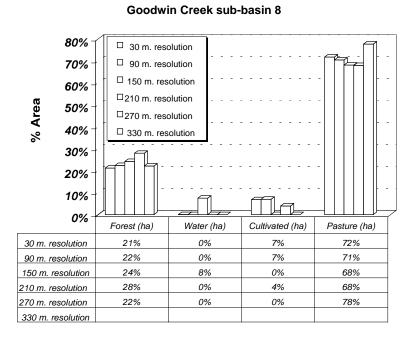


Figure II.3.4 Percentage of the area covered by each land use type in sub-basin 7

### Goodwin Creek sub-basin 14 80% $\hfill\Box$ 30 m. resolution 70% □ 90 m. resolution $\hfill\Box$ 150 m. resolution 60% □210 m. resolution % Area **50%** □270 m. resolution 40% $\hfill 330 \ \text{m.}$ resolution 30% 20% 10% 0% Forest (ha) Water (ha) Cultivated (ha) Pasture (ha) 19% 1% 11% 69% 30 m. resolution 90 m. resolution 16% 1% 8% 75% 19% 15% 0% 66% 150 m. resolution 21% 0% 17% 62% 210 m. resolution 26% 0% 0% 74% 270 m. resolution

Figure II.3.5 Percentage of the area covered by each land use type in sub-basin 14

330 m. resolution