**APPENDIX C. MAPS AND GRAPHS DISPLAYING CLIMATE CHANGE PROJECTIONS FOR THE ROGUE RIVER BASIN.**

C-1. Annual average temperature across the Rogue Basin 1900-2099.

C-2. Average monthly temperature across the Rogue Basin: 2035-2045 (top) and 2075-2085 (bottom) versus baseline (1961-90).

C-3. Annual sum precipitation across the Rogue Basin 1900 – 2099.

C-4. Average monthly precipitation across the Rogue Basin: 2035-2045 (top) and 2075-2085 (bottom) versus baseline (1961-1990).

C-5. Average monthly snow accumulation across the Rogue Basin: 2035-2045 (top) and 2075-2085 (bottom) versus baseline (1961-1990).

C-6. Average monthly snow melt across the Rogue Basin: 2035-2045 (top) and 2075-2085 (bottom) versus baseline (1961-1990).

C-7. Annual stream flow at the Gold Rey Gauge (Ft^3 x 10^9): Historical and simulated, with an 11-year filter.

C-8. Distributional map of fall precipitation in the Rogue Basin projected by the Hadley model (top) and CSIRO model (bottom): 1961-1990, 2035-2046, and 2075-2085.

C-9. Distributional map of winter precipitation in the Rogue Basin projected by the Hadley model (top) and CSIRO (bottom): 1961-1990, 2035-2046, and 2075-2085.

C-10. Distributional map of spring precipitation in the Rogue Basin projected by the Hadley model (top) and CSIRO (bottom): 1961-1990, 2035-2046, and 2075-2085.

C-11. Annual sum biomass consumed by fire (top), in gigatons, and carbon sequestered in vegetation (bottom), in teragrams and with an 11-year filter, across the Rogue Basin 1900-2099.

C-12. Changes invegetation type within the Rogue Basin, based on baseline (1961-1990) vegetation types and projections for future vegetation types in 2035-45 and 2075-85, from projections using the MC1 vegetation model and three different Global Climate Models.

C-13. Percent of area burned in the Rogue Basin, for the baseline time period (1961-1990) and projected by three Global Climate Models for two future time periods:2035-2045 and 2075-2085.

C-14. Distributional map of biomass consumed by fire in the Rogue Basin, for the baseline time period (1961-1990) and projected by three Global Climate Models for two future time periods: 2035-2045 and 2075-2085.

APPENDIX C-1. ANNUAL AVERAGE TEMPERATURE ACROSS THE ROGUE BASIN 1900-2099. THE BOTTOM GRAPH SHOWS AN 11-YEAR RUNNING AVERAGE.
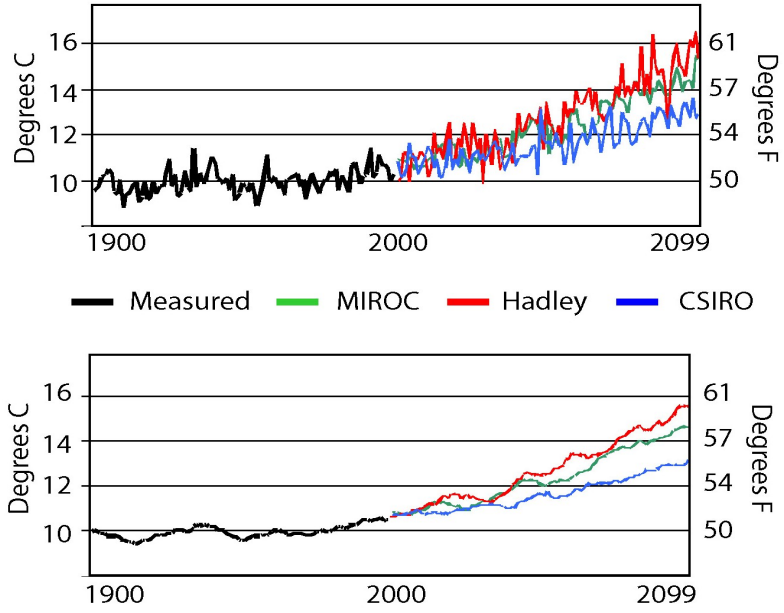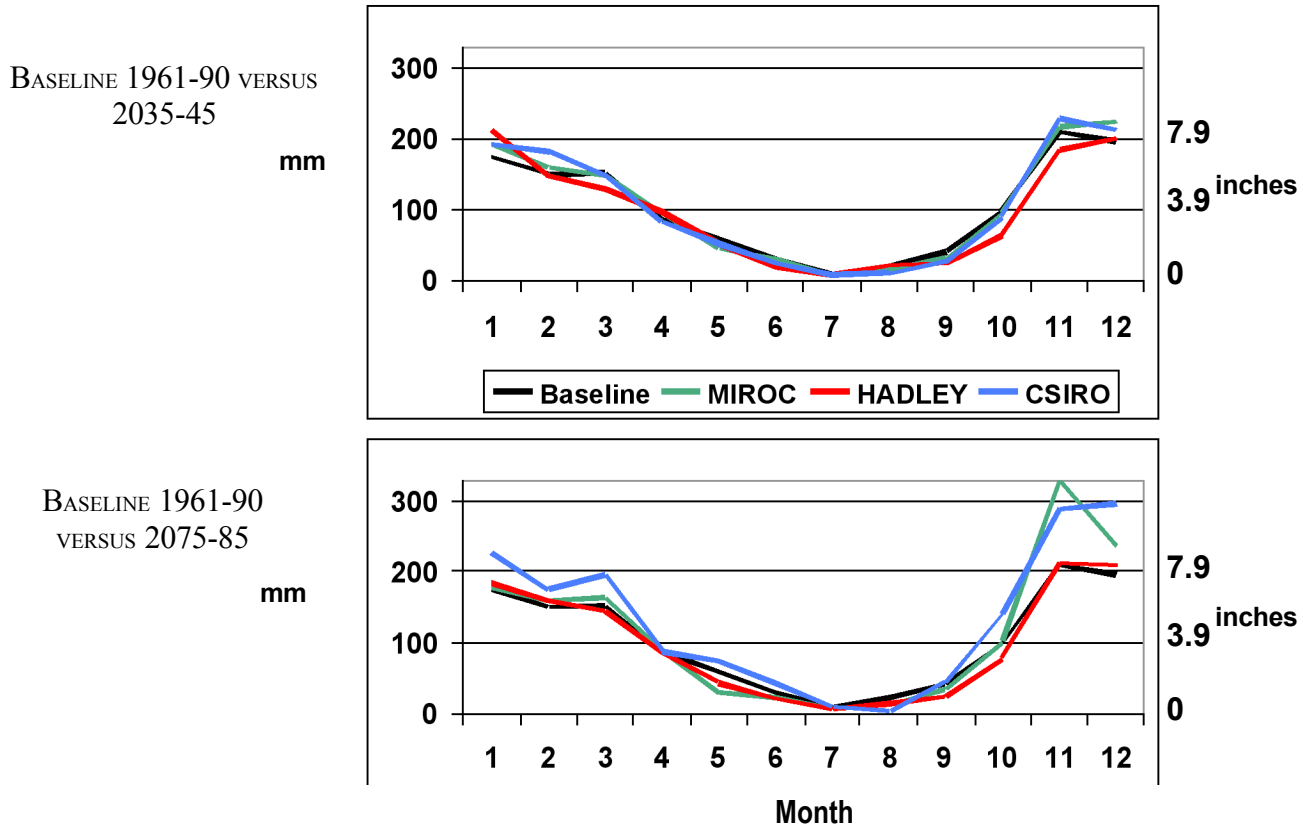
APPENDIX C-2. AVERAGE MONTHLY TEMPERATURE ACROSS THE ROGUE BASIN: 2035-2045 (TOP) AND 2075-2085 (BOTTOM) VERSUS BASELINE (1961-90).
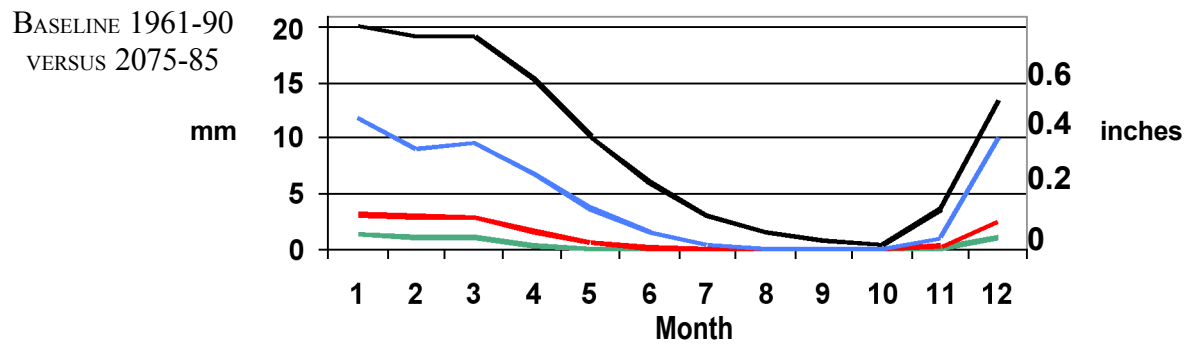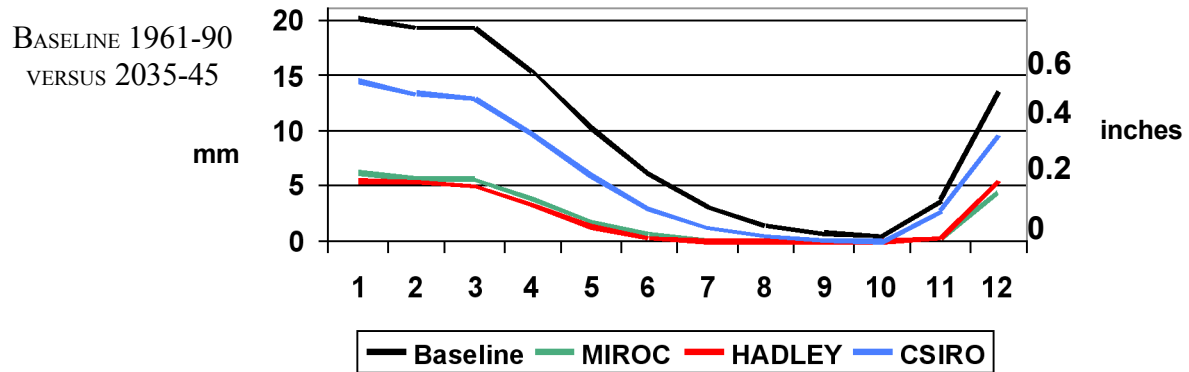
BASELINE 1961-90 VERSUS 2035-45

°C

°F

Baseline — MIROC — HADLEY — CSIRO

BASELINE 1961-90 VERSUS 2075-85

°C

°F
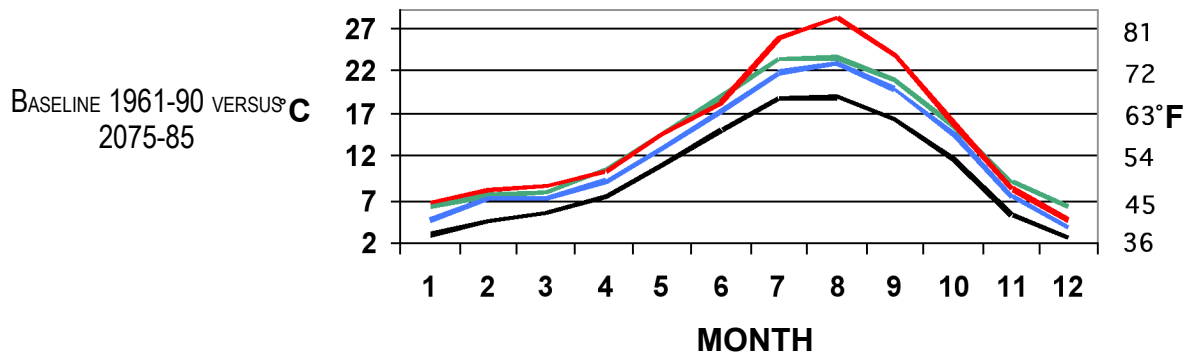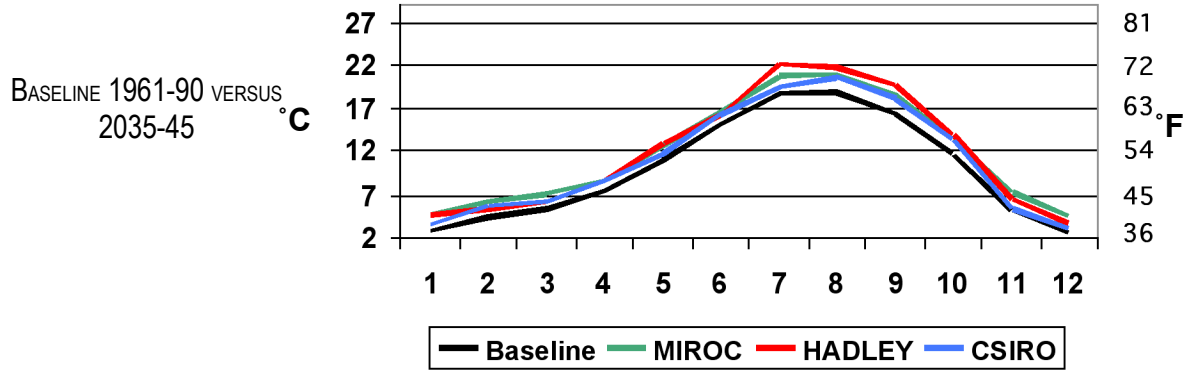
MONTH

**APPENDIX C-3. ANNUAL SUM PRECIPITATION ACROSS THE ROGUE BASIN 1900 – 2099. THE BOTTOM GRAPH SHOWS AN 11-YEAR RUNNING AVERAGE.**
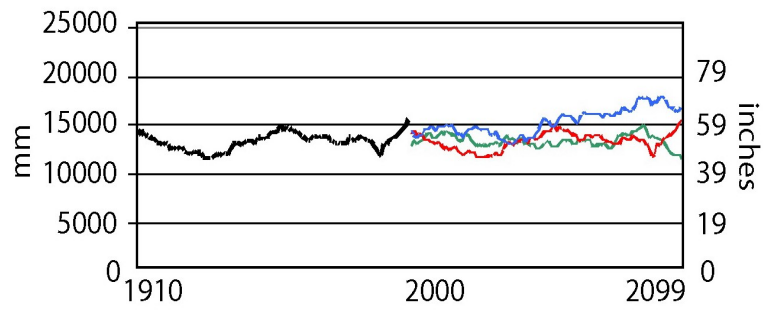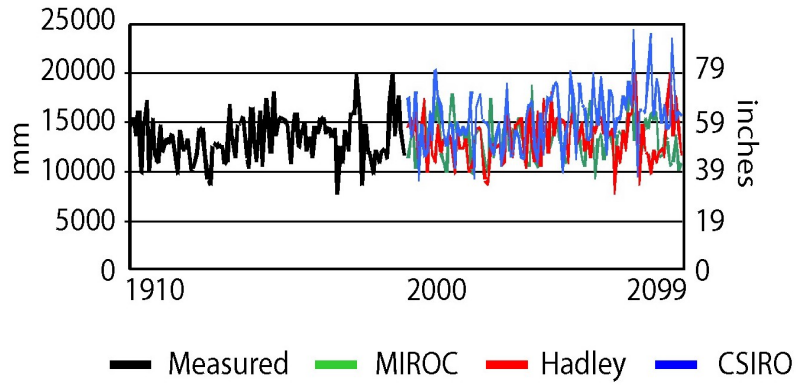
APPENDIX C-4. AVERAGE MONTHLY PRECIPITATION ACROSS THE ROGUE BASIN: 2035-2045 (TOP) AND 2075-2085 (BOTTOM) VERSUS BASELINE (1961-1990).

BASELINE 1961-90 VERSUS 2035-45

mm

BASELINE 1961-90 VERSUS 2075-85

mm

APPENDIX C-5. AVERAGE MONTHLY SNOW ACCUMULATION ACROSS THE ROGUE BASIN: 2035-2045 (TOP) AND 2075-2085 (BOTTOM) VERSUS BASELINE (1961-1990).


BASELINE 1961-90 VERSUS 2035-45

mm / inches

Legend: Baseline — MIROC — HADLEY — CSIRO

BASELINE 1961-90 VERSUS 2075-85

mm / inches

Month

APPENDIX C-6. AVERAGE MONTHLY SNOW MELT ACROSS THE ROGUE BASIN: 2035-2045 (TOP) AND 2075-2085 (BOTTOM) VERSUS BASELINE (1961-1990).

BASELINE 1961-90 VERSUS 2035-45

BASELINE 1961-90 VERSUS 2075-85
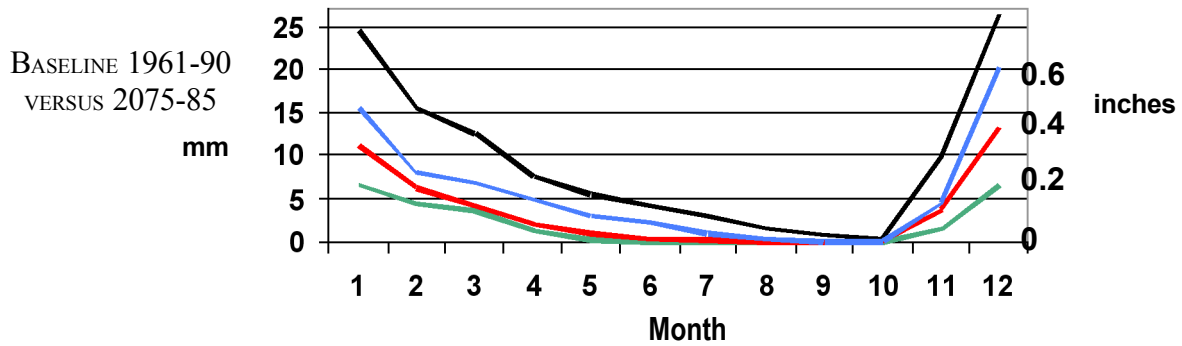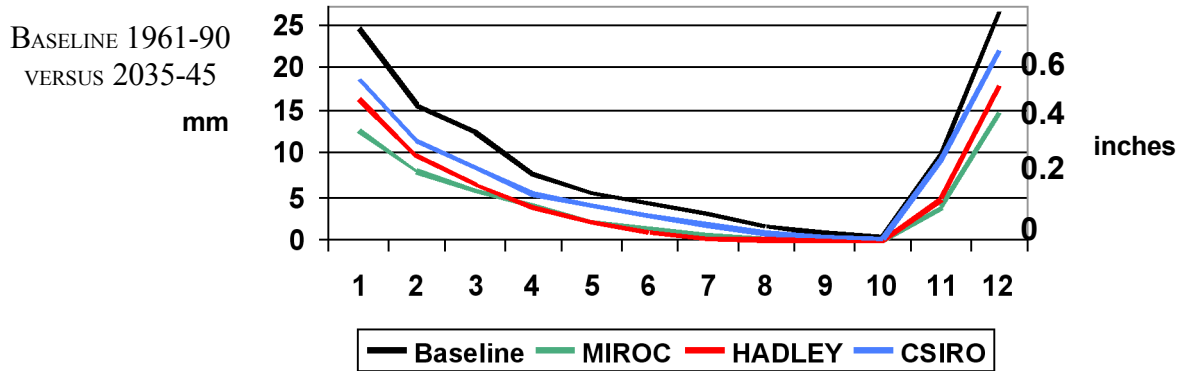
APPENDIX C-7. ANNUAL STREAM FLOW AT THE GOLD REY GAUGE (FT^3 x 10^9): HISTORICAL AND SIMULATED, WITH AN 11-YEAR FILTER.
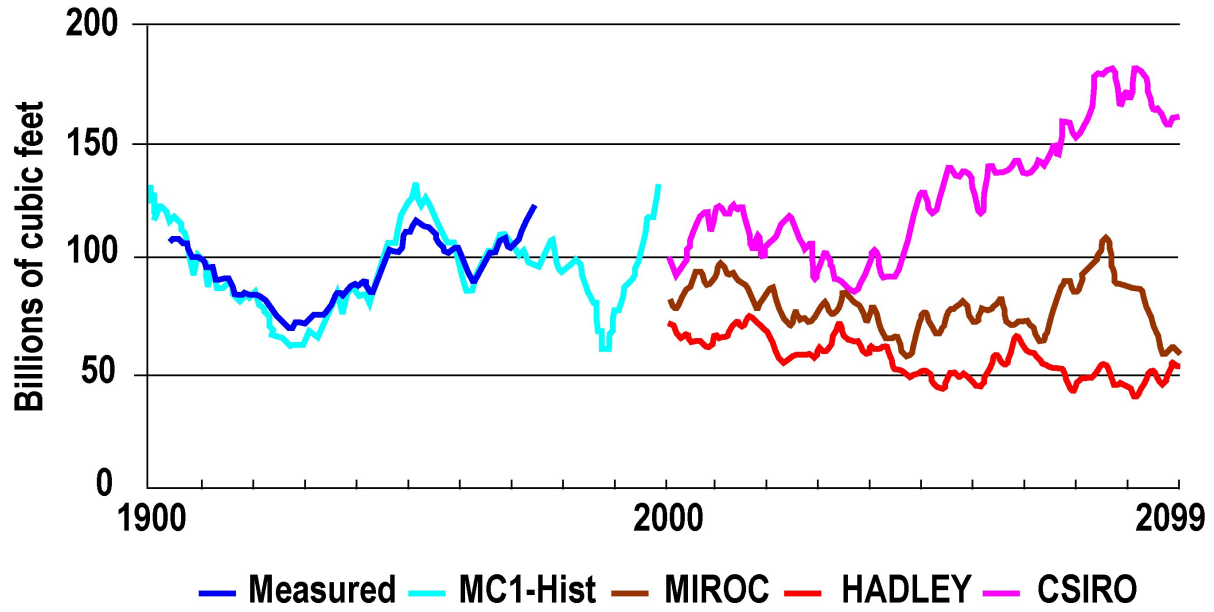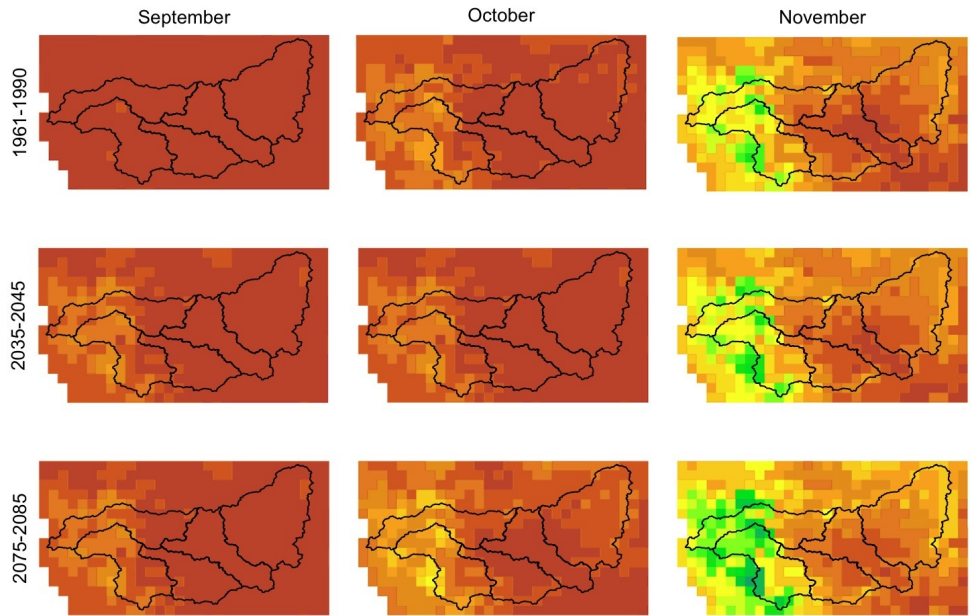
APPENDIX C-8: DISTRIBUTIONAL MAP OF FALL PRECIPITATION IN THE ROGUE BASIN PROJECTED BY THE HADLEY MODEL (TOP) AND CSIRO MODEL (BOTTOM): 1961-1990, 2035-2046, AND 2075-2085.
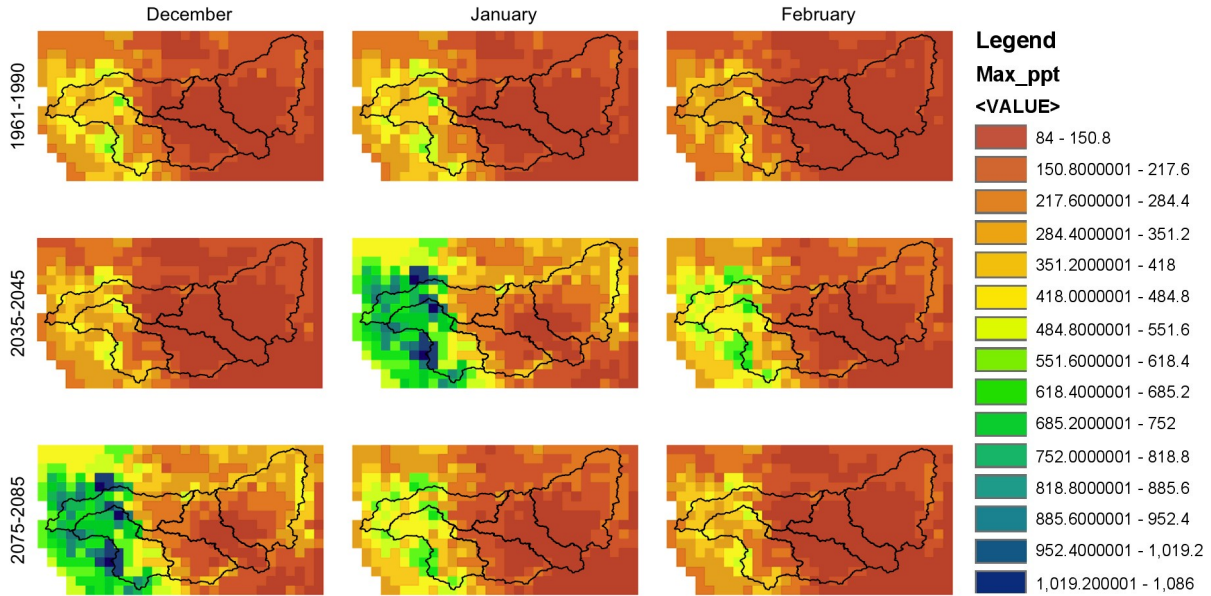

Hadcm3A2 Fall Precipitation
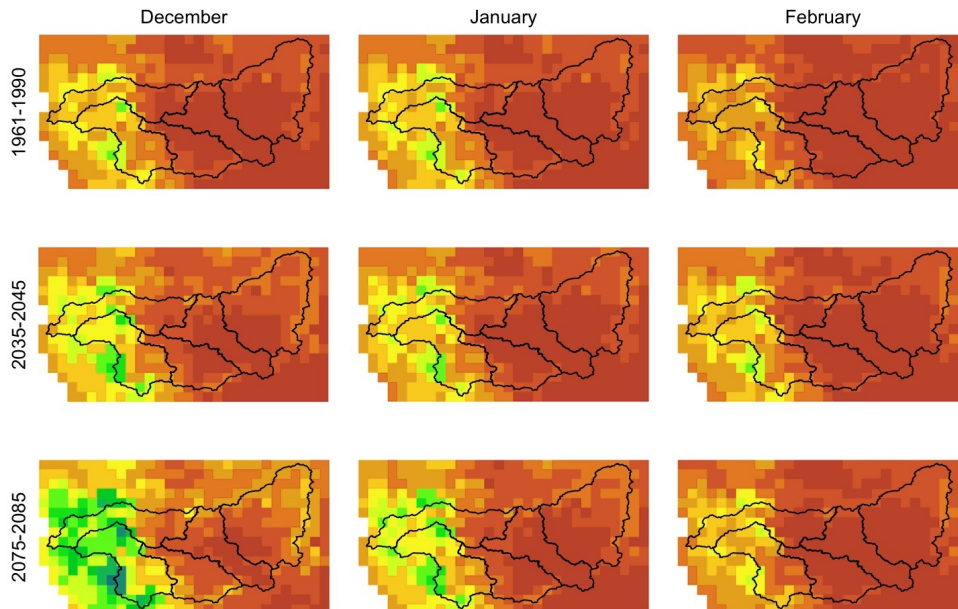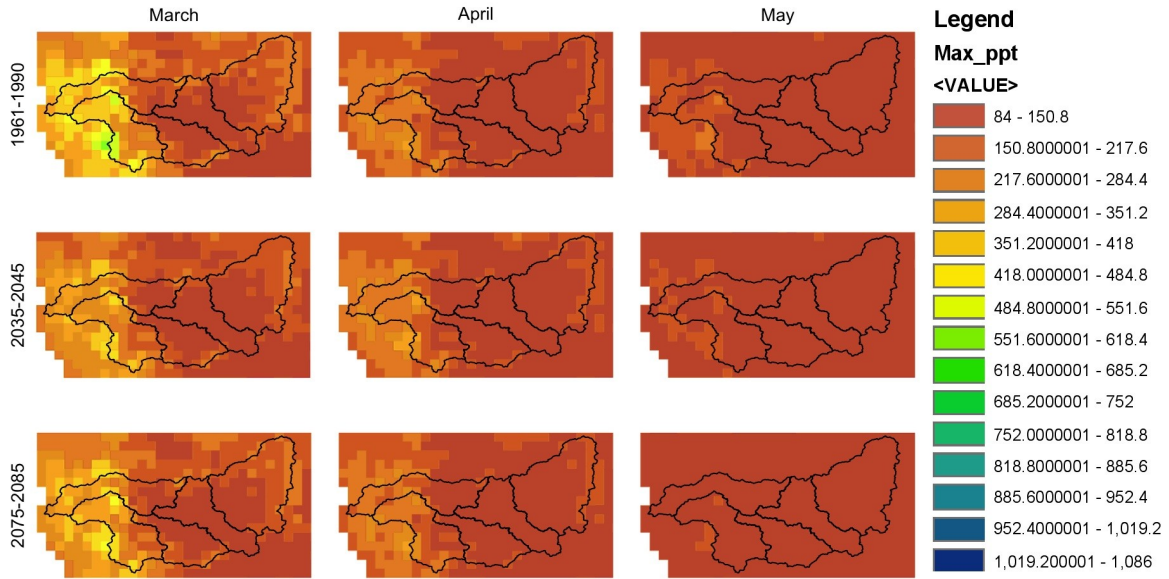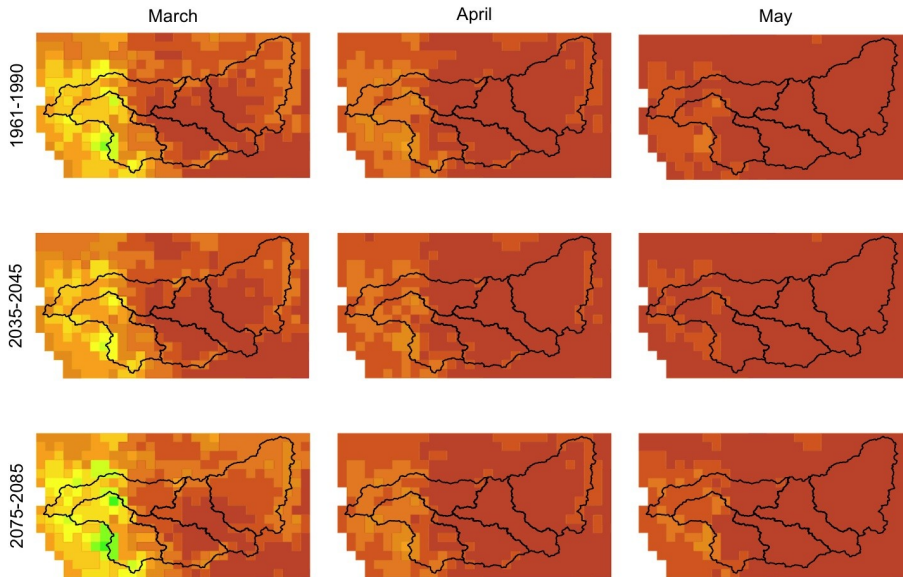
CsiroA2 Fall Precipitation

Hadcm3A2 Winter Precipitation

## CsiroA2 Winter Precipitation

## Hadcm3A2 Spring Precipitation
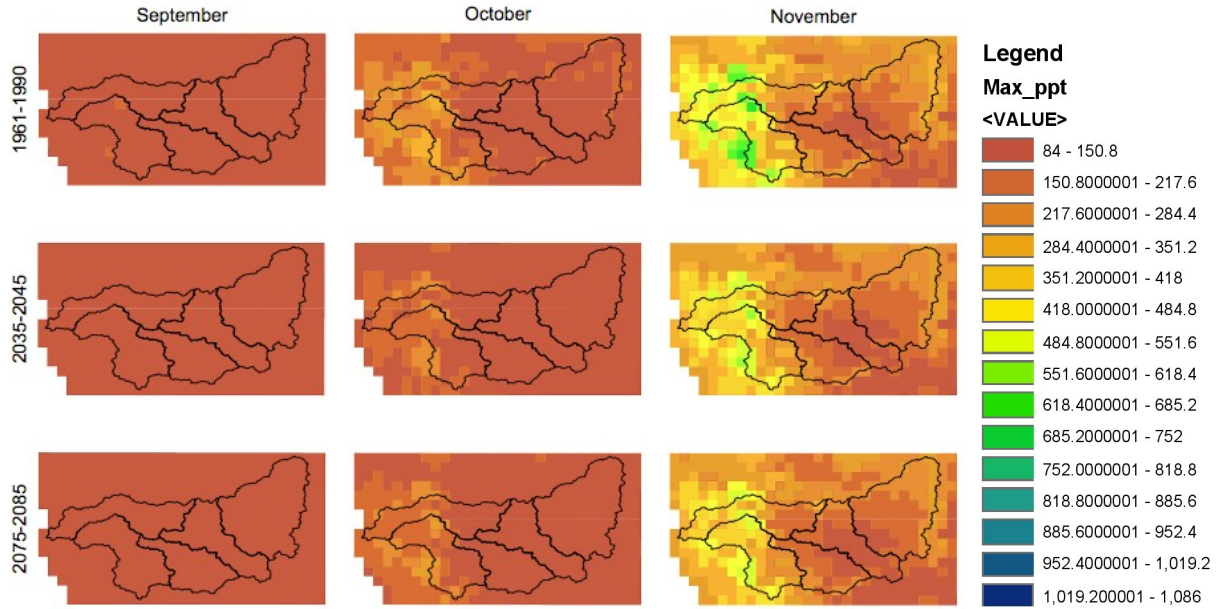

CsiroA2 Spring Precipitation

APPENDIX C-11. ANNUAL SUM BIOMASS CONSUMED BY FIRE (TOP), IN GIGATONS, AND CARBON SEQUESTERED IN VEGETATION (BOTTOM), IN TERAGRAMS AND WITH AN 11-YEAR FILTER, ACROSS THE ROGUE BASIN 1900-2099.

Annual sum biomass consumed by fire

Measured — MIROC — HADLEY — CSIRO

Annual sum of vegetation carbon
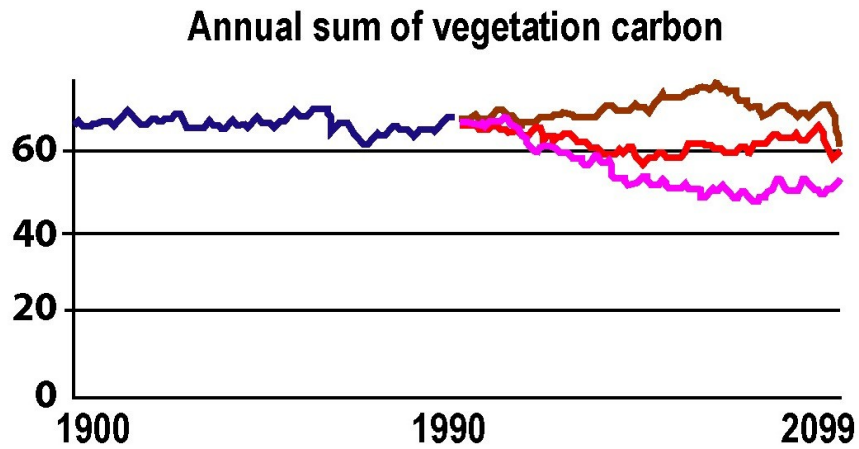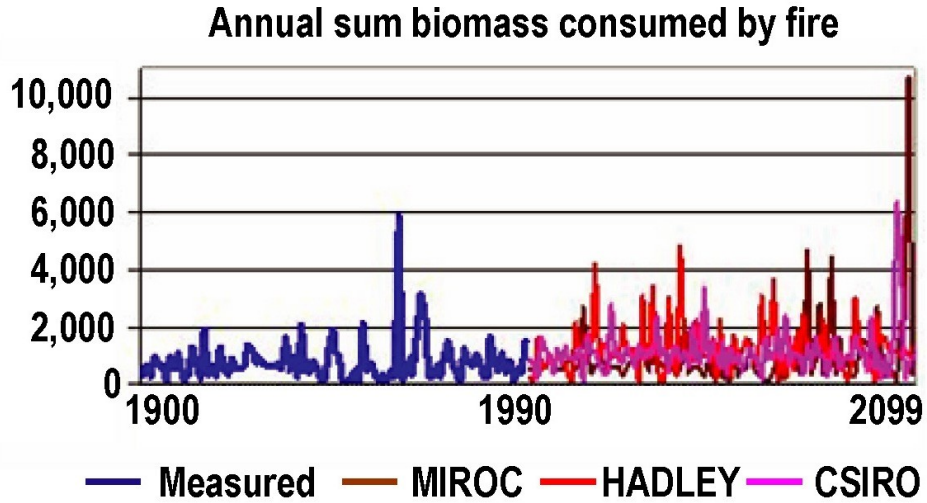
APPENDIX C-12. CHANGES IN VEGETATION TYPE WITHIN THE ROGUE BASIN, BASED ON BASELINE (1961-1990) VEGETATION TYPES AND PROJECTIONS FOR FUTURE VEGETATION TYPES IN 2035-45 AND 2075-85, FROM PROJECTIONS USING THE MC1 VEGETATION MODEL AND THREE DIFFERENT GLOBAL CLIMATE MODELS.
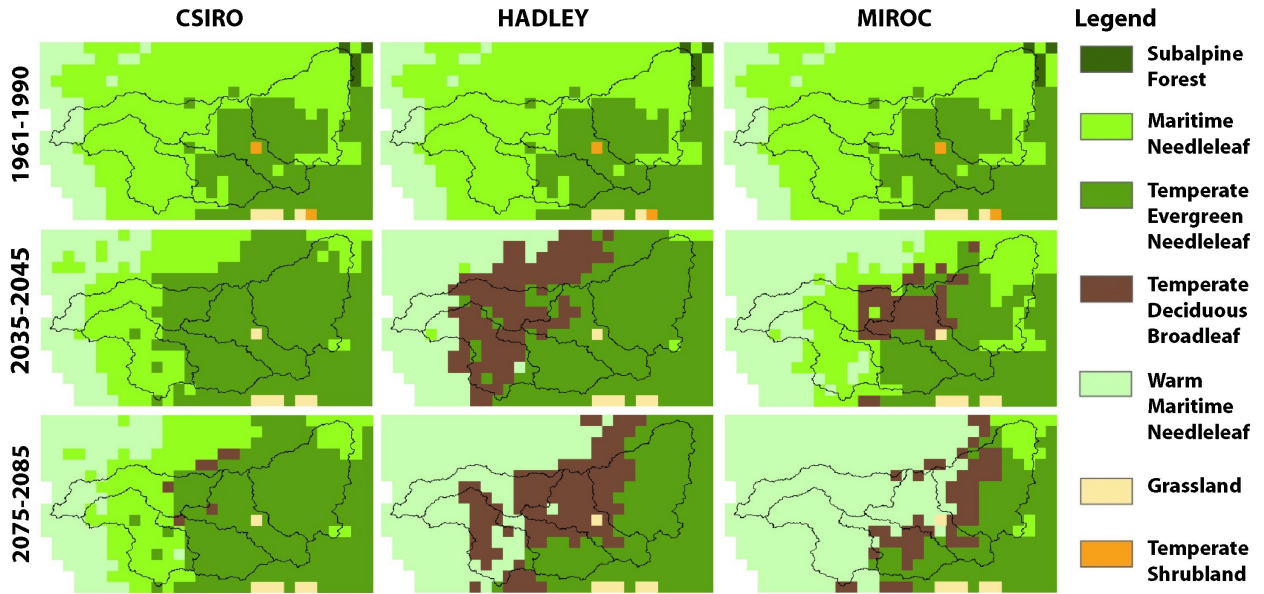
APPENDIX C-13. PERCENT OF AREA BURNED IN THE ROGUE BASIN, FOR THE BASELINE TIME PERIOD (1961-1990) AND PROJECTED BY THREE GLOBAL CLIMATE MODELS FOR TWO FUTURE TIME PERIODS: 2035-2045 AND 2075-2085.
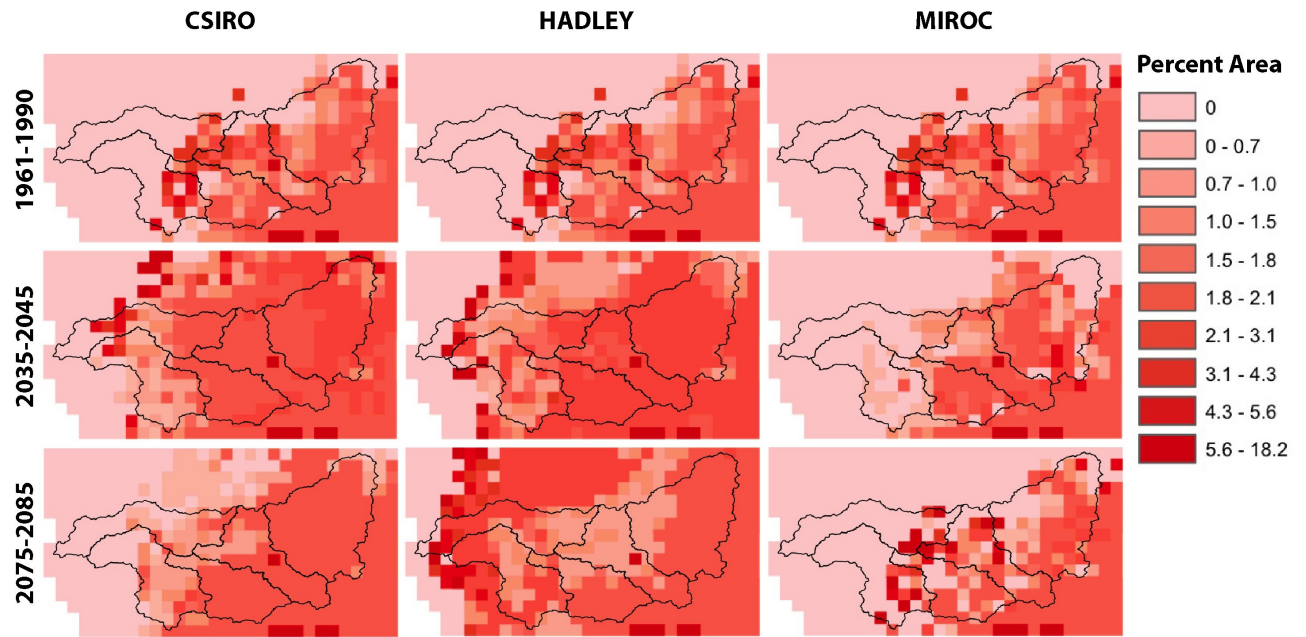
APPENDIX C-14. DISTRIBUTIONAL MAP OF BIOMASS CONSUMED BY FIRE IN THE ROGUE BASIN, FOR THE BASELINE TIME PERIOD (1961-1990) AND PROJECTED BY THREE GLOBAL CLIMATE MODELS FOR TWO FUTURE TIME PERIODS: 2035-2045 AND 2075-2085.