

**SEDIMENT SOURCE ANALYSIS AND
PRELIMINARY SEDIMENT BUDGET FOR
THE TEN MILE RIVER, MENDOCINO
COUNTY, CA**

Prepared for:

**Tetra Tech, Inc.
Under Contract 68-C99-249
Work Assignment # 0-34**

VOLUME 2: Appendices

Prepared by:

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with assistance from:

John Coyle & Associates, Inc.

September 2000

**SEDIMENT SOURCE ANALYSIS AND PRELIMINARY
SEDIMENT BUDGET FOR THE TEN MILE RIVER,
MENDOCINO COUNTY, CA**

APPENDICES A-D

**APPENDIX A: Delivering Landslides by Year by Sub-Watershed
GIS Figures A-1 through A-18**

**APPENDIX B: Road Network by Year by Sub-Watershed
GIS Figures B-1 through B-18**

**APPENDIX C: Harvest Areas by Year by Sub-Watershed
GIS Figures C-1 through C-18**

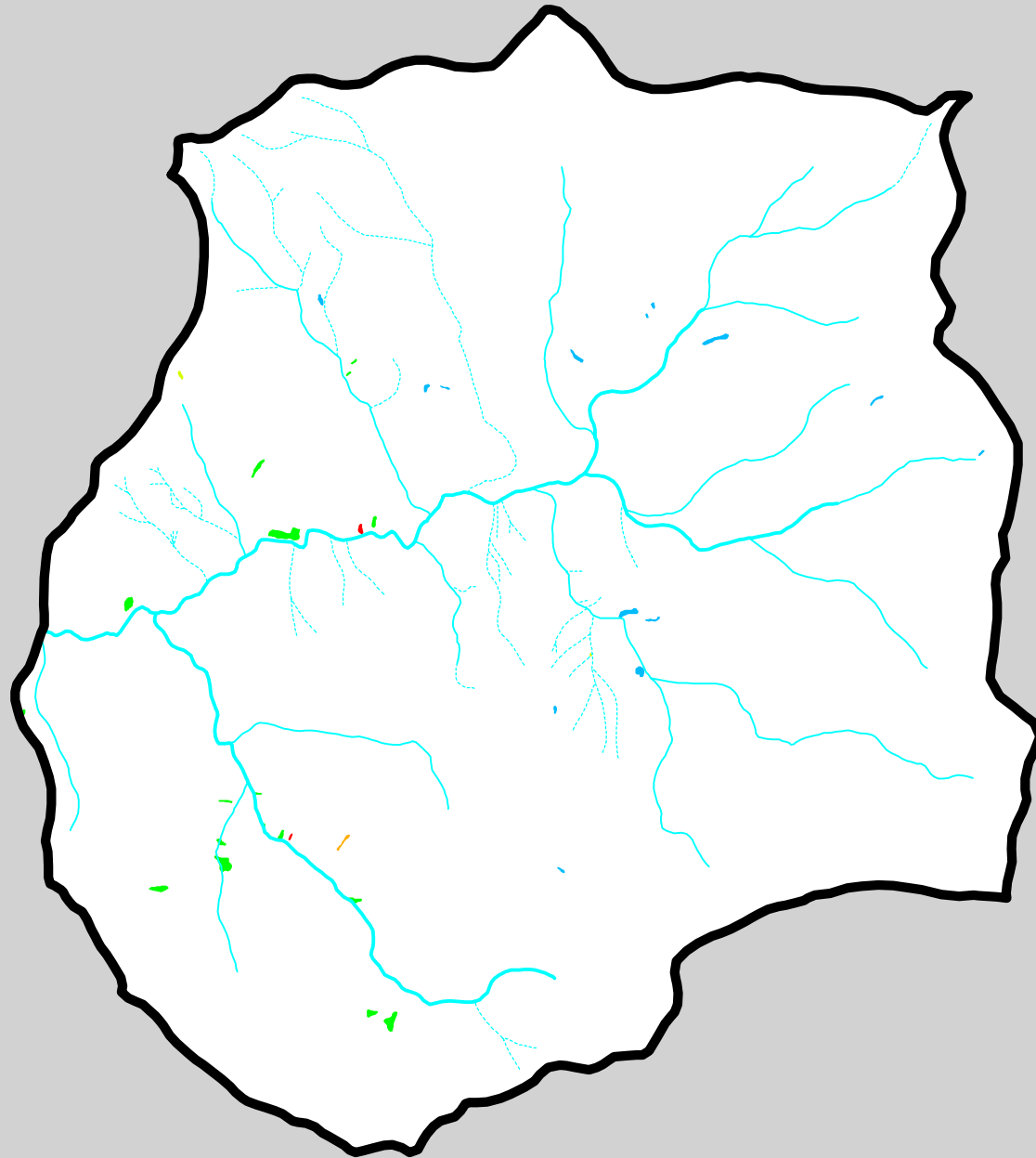
**APPENDIX D: Aerial Photographs Used
Date, Frame, Source**

APPENDIX A - 1

TEN MILE RIVER WATERSHED

Upper North Fork

Ten Mile Sub-Watershed



Watershed Boundary

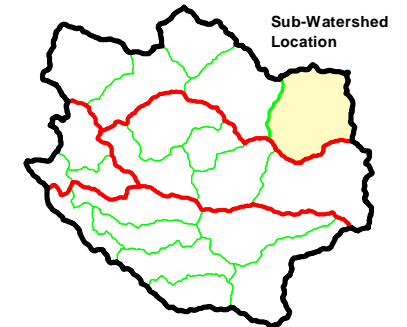
Delivering
Landslides

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



4

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Conservation District**

Scale: 1 = 40,000

August 1, 2000

2000 0 2000 4000 Feet

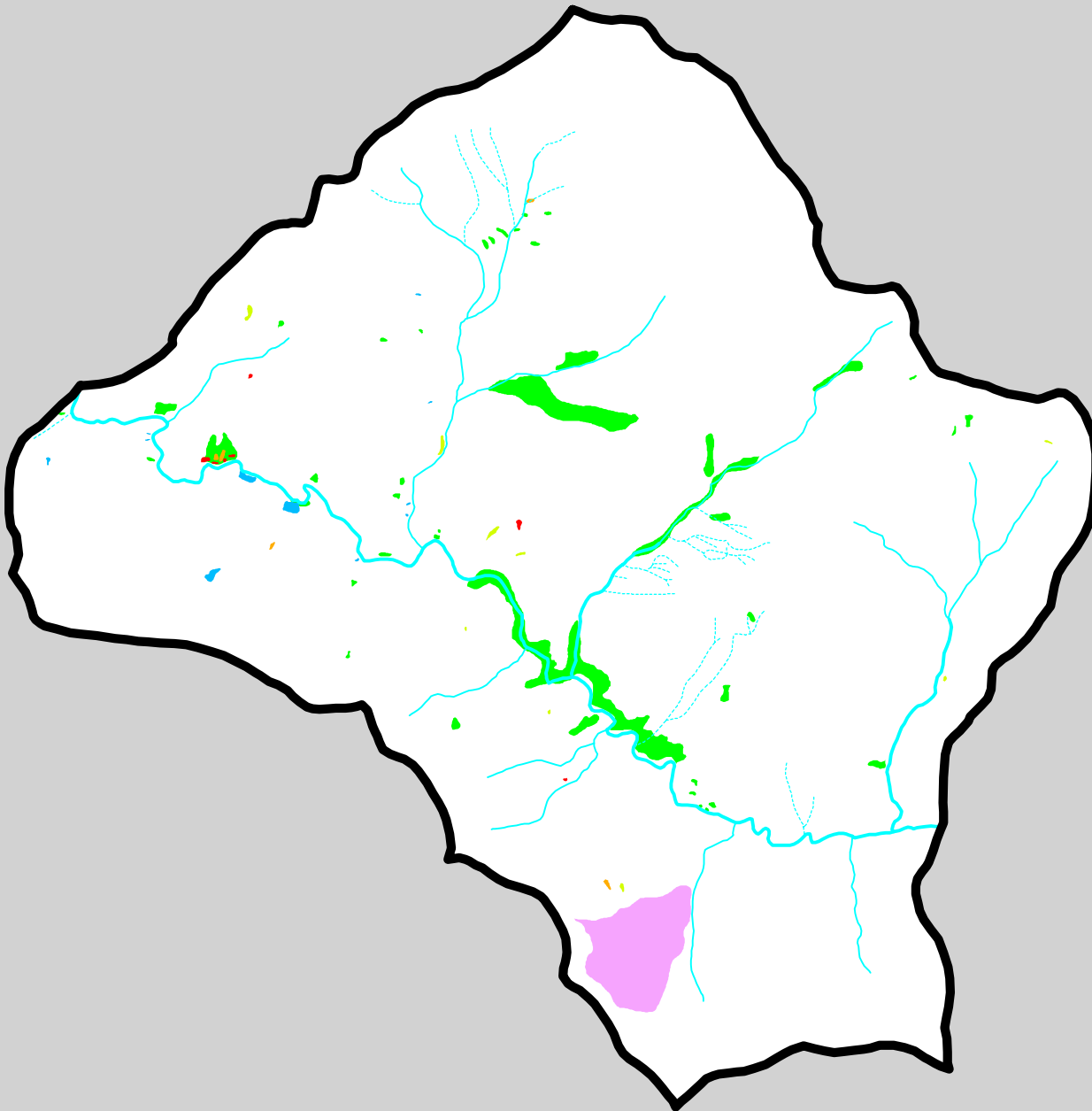
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APPENDIX A - 2

TEN MILE RIVER WATERSHED

Middle North Fork

Ten Mile Sub-Watershed



Watershed Boundary

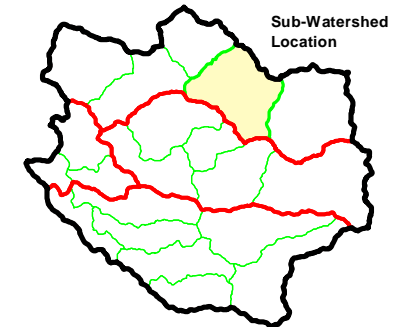
Delivering
Landslides

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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August 1, 2000







APPENDIX A - 3

TEN MILE RIVER WATERSHED




Bald Hill Creek Sub-Watershed

 Watershed Boundary

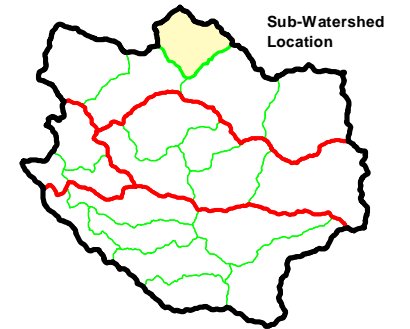
Delivering
Landslides

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Scale: 1 = 30,000

August 1, 2000

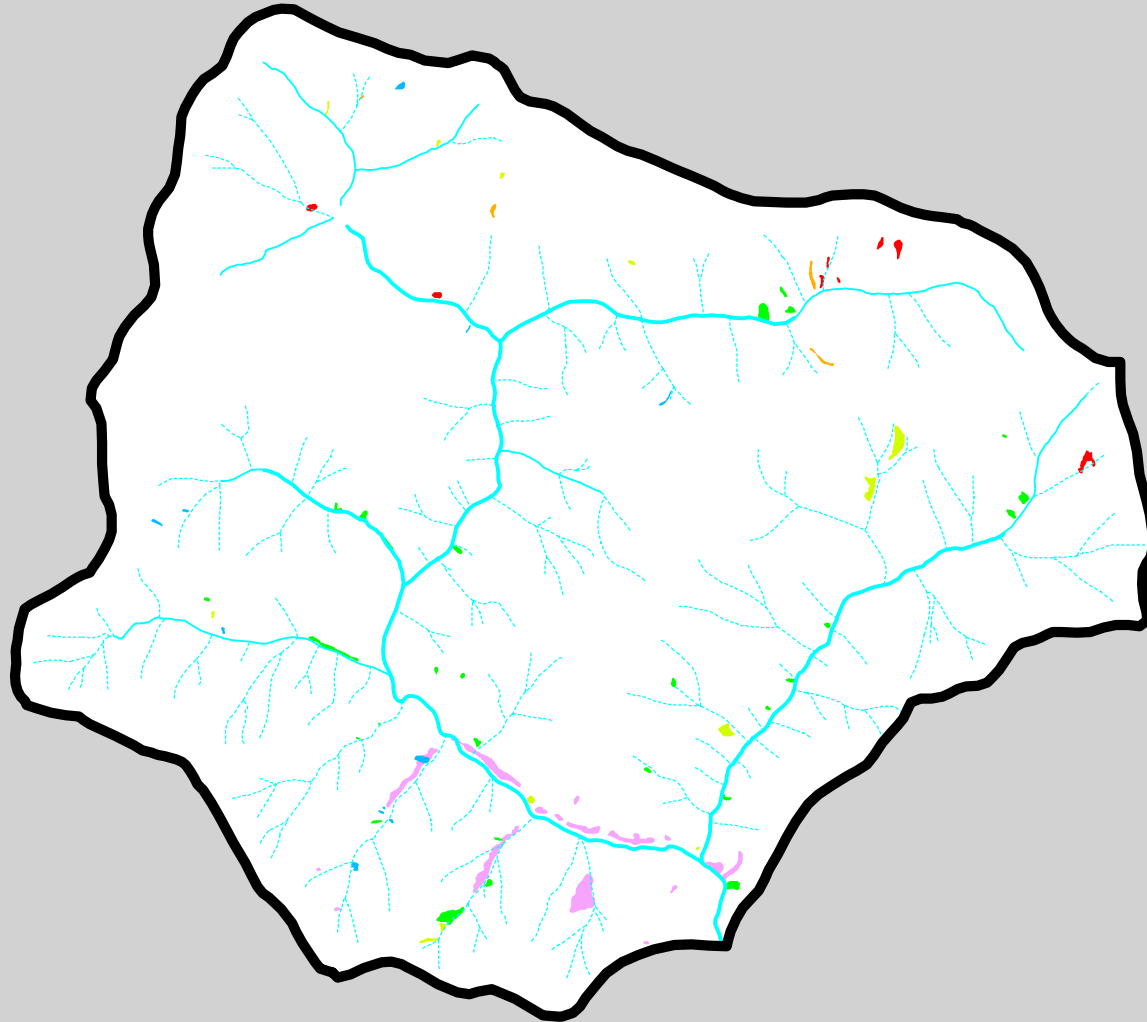
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250 0 250 500 750 Meters

APPENDIX A - 4

TEN MILE RIVER WATERSHED

Little North Fork Ten Mile Sub-Watershed



Watershed Boundary

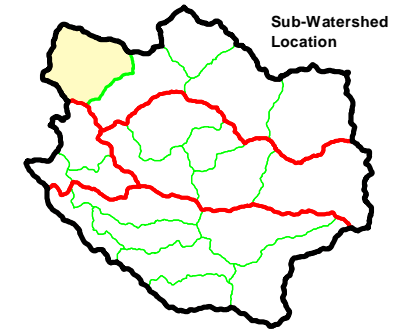
Delivering
Landslides

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000

August 1, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX A - 5





TEN MILE RIVER WATERSHED

Lower North Fork




Ten Mile Sub-Watershed

 Watershed Boundary

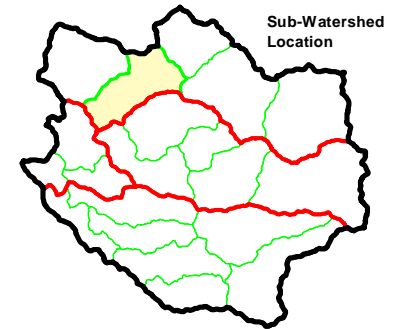
Delivering Landslides

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

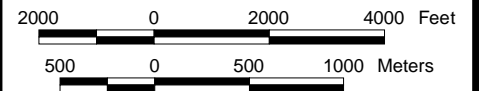
Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000

August 1, 2000

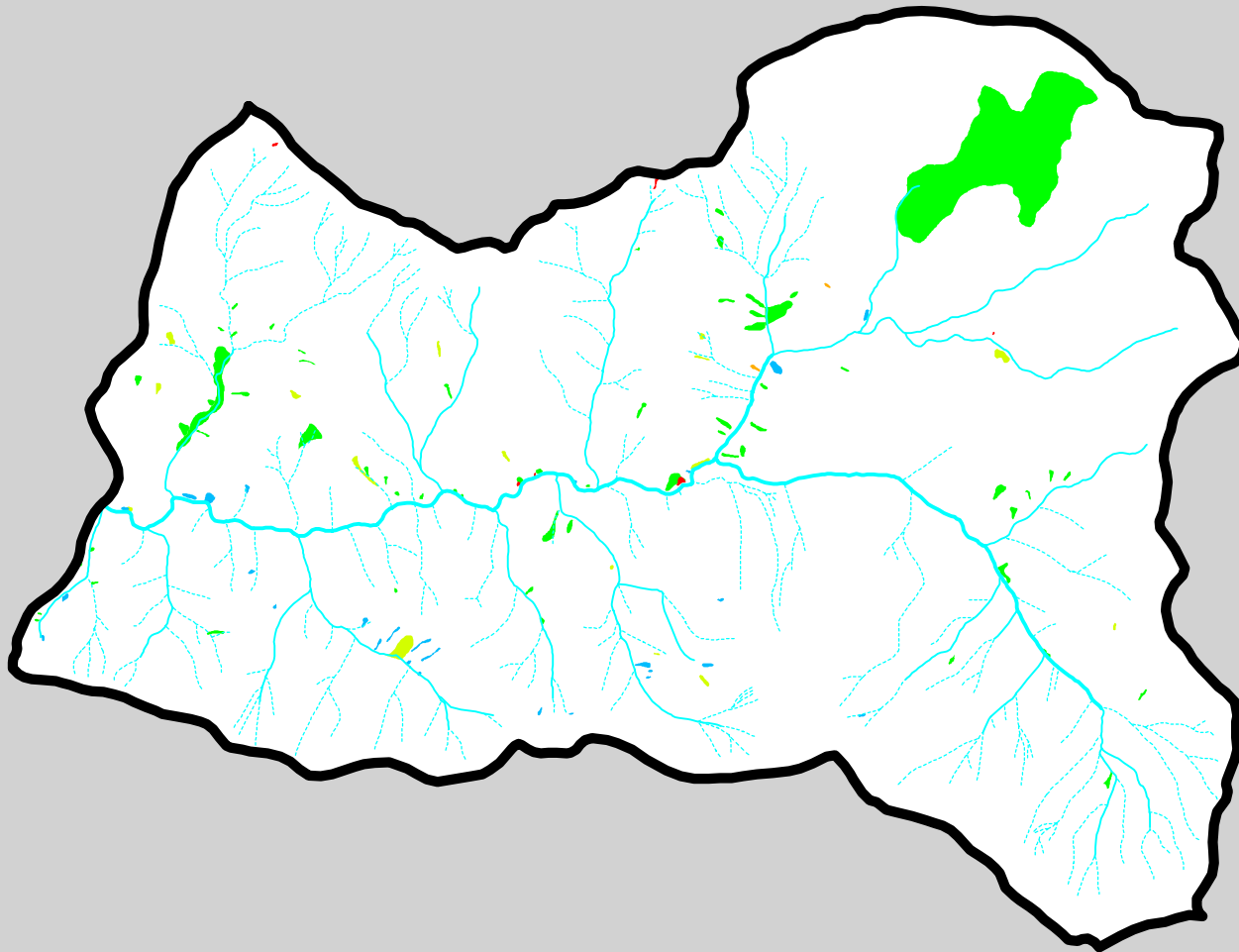


APPENDIX A - 6

TEN MILE RIVER WATERSHED

Upper Middle Fork

Ten Mile Sub-Watershed



Watershed Boundary

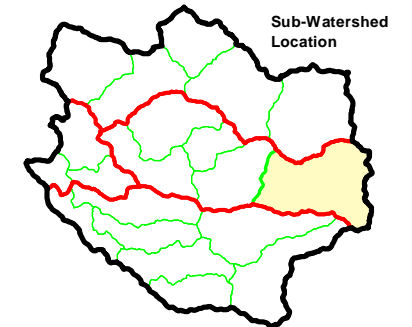
Delivering
Landslides

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Conservation District**

Scale: 1 = 48,000

August 1, 2000

2000 0 2000 4000 Feet

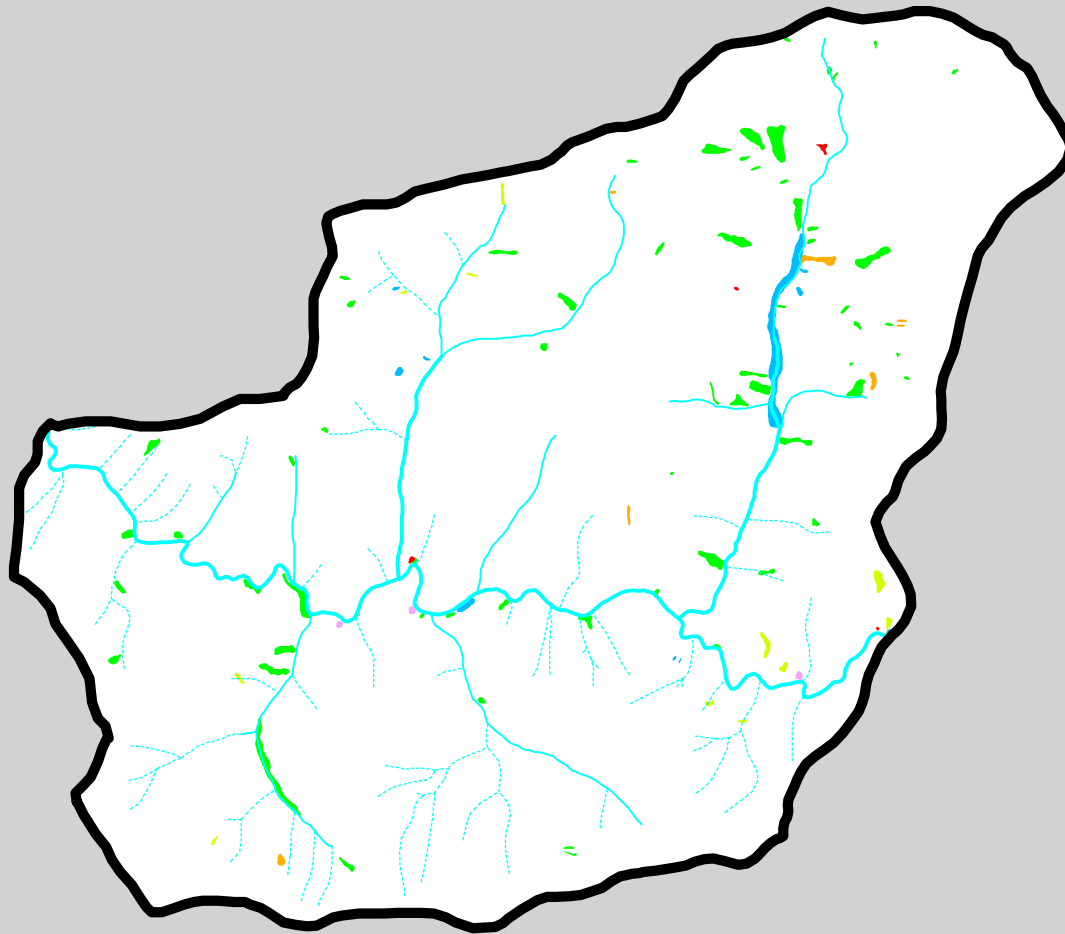
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APPENDIX A - 7

TEN MILE RIVER WATERSHED


Middle Middle Fork

Ten Mile Sub-Watershed






 Watershed Boundary

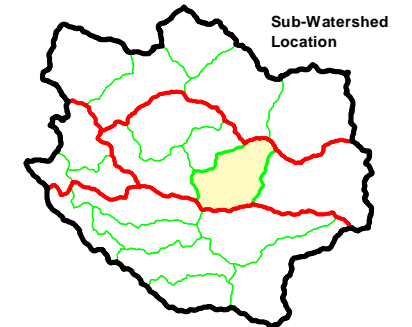
Delivering
Landslides

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000

August 1, 2000

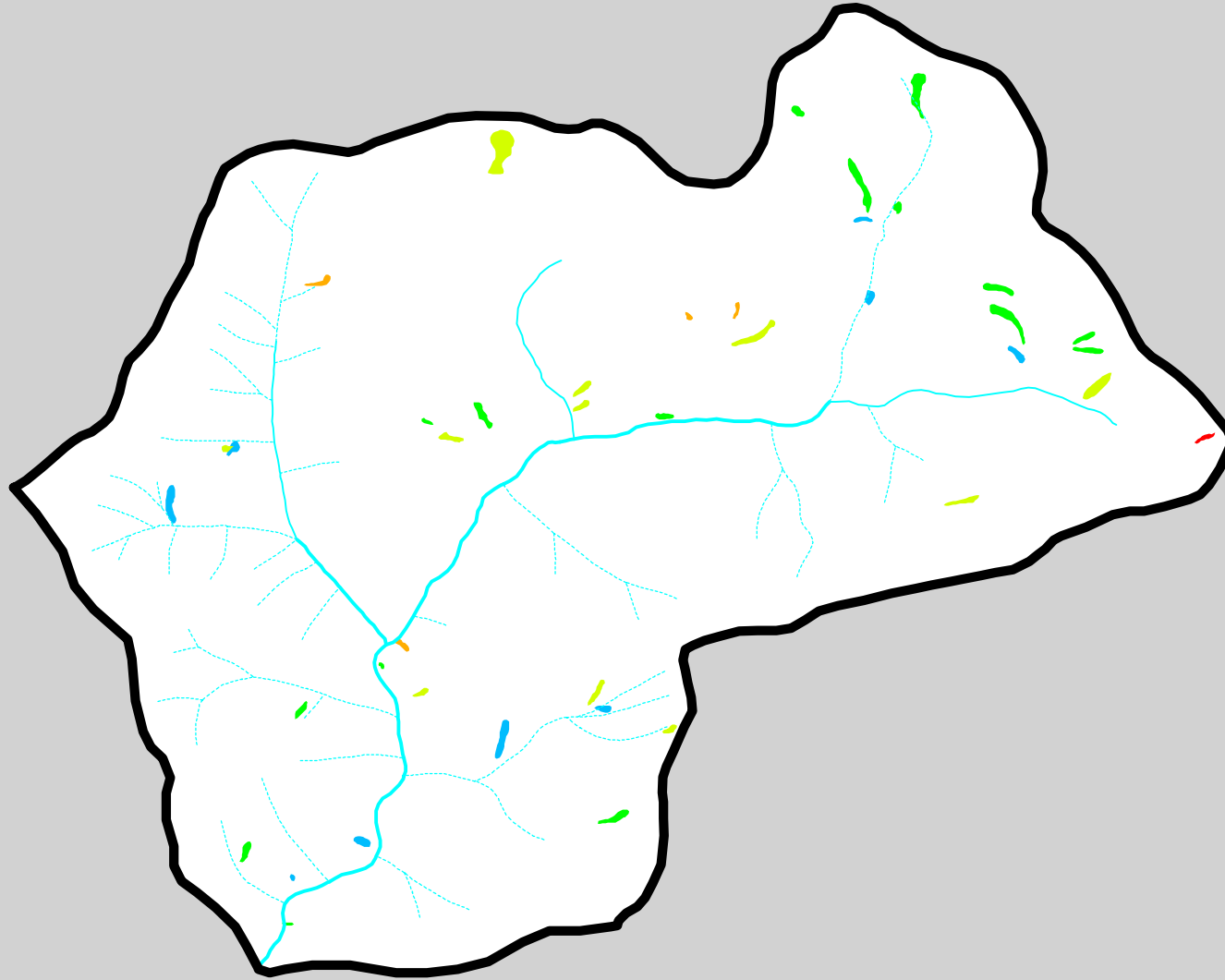
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500 0 500 1000 Meters

APPENDIX A - 8

TEN MILE RIVER WATERSHED

Little Bear Haven Creek Sub-Watershed



Watershed Boundary

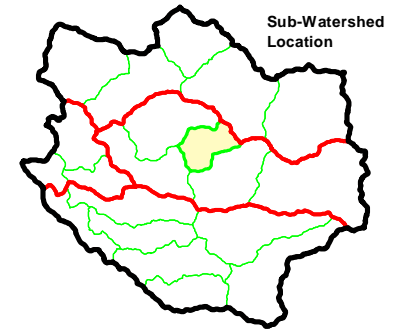
Delivering
Landslides

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Scale: 1 = 24,000

August 1, 2000

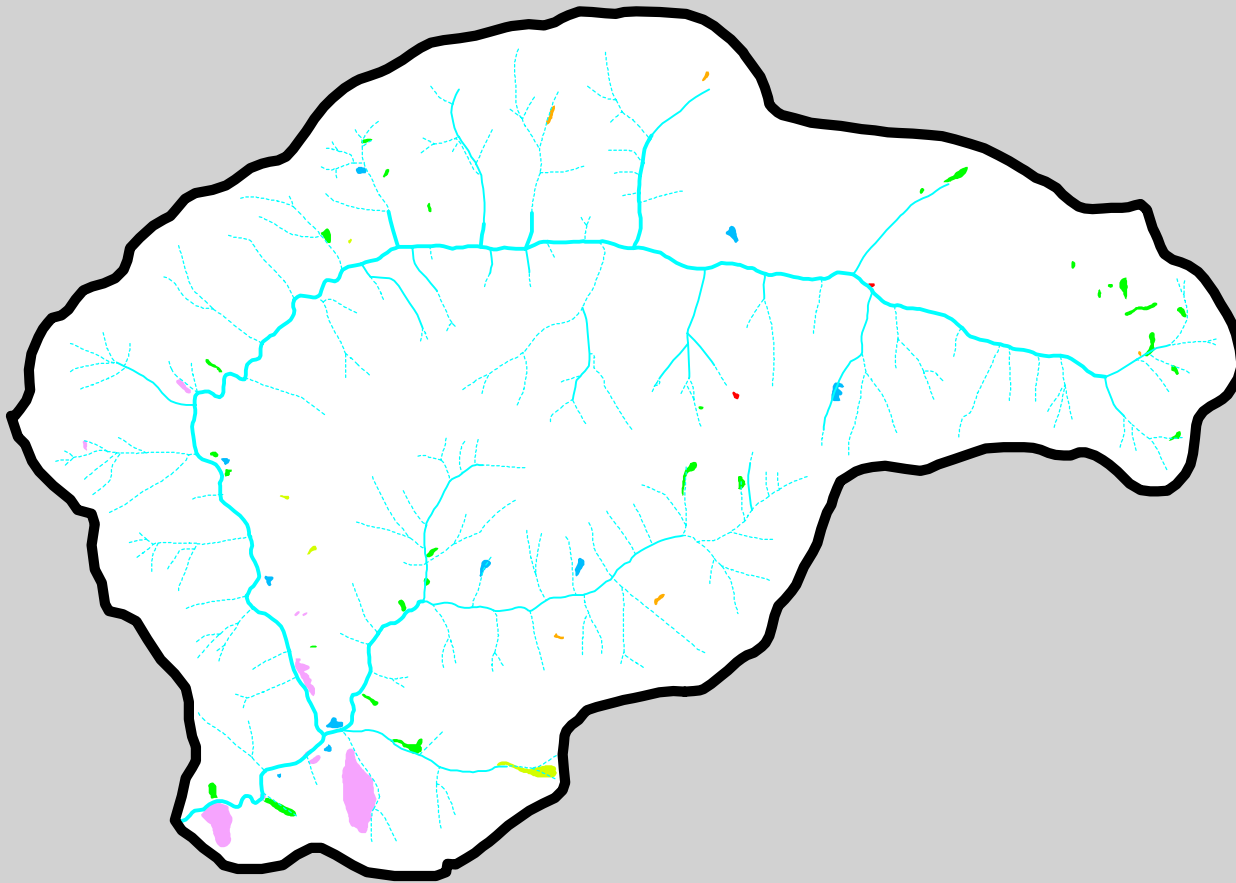
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250 0 250 500 Meters

APPENDIX A - 9


TEN MILE RIVER WATERSHED

Bear Haven Creek Sub-Watershed






 Watershed Boundary

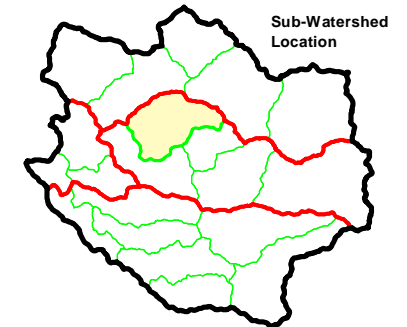
Delivering
Landslides

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000

August 1, 2000

2000 0 2000 4000 Feet

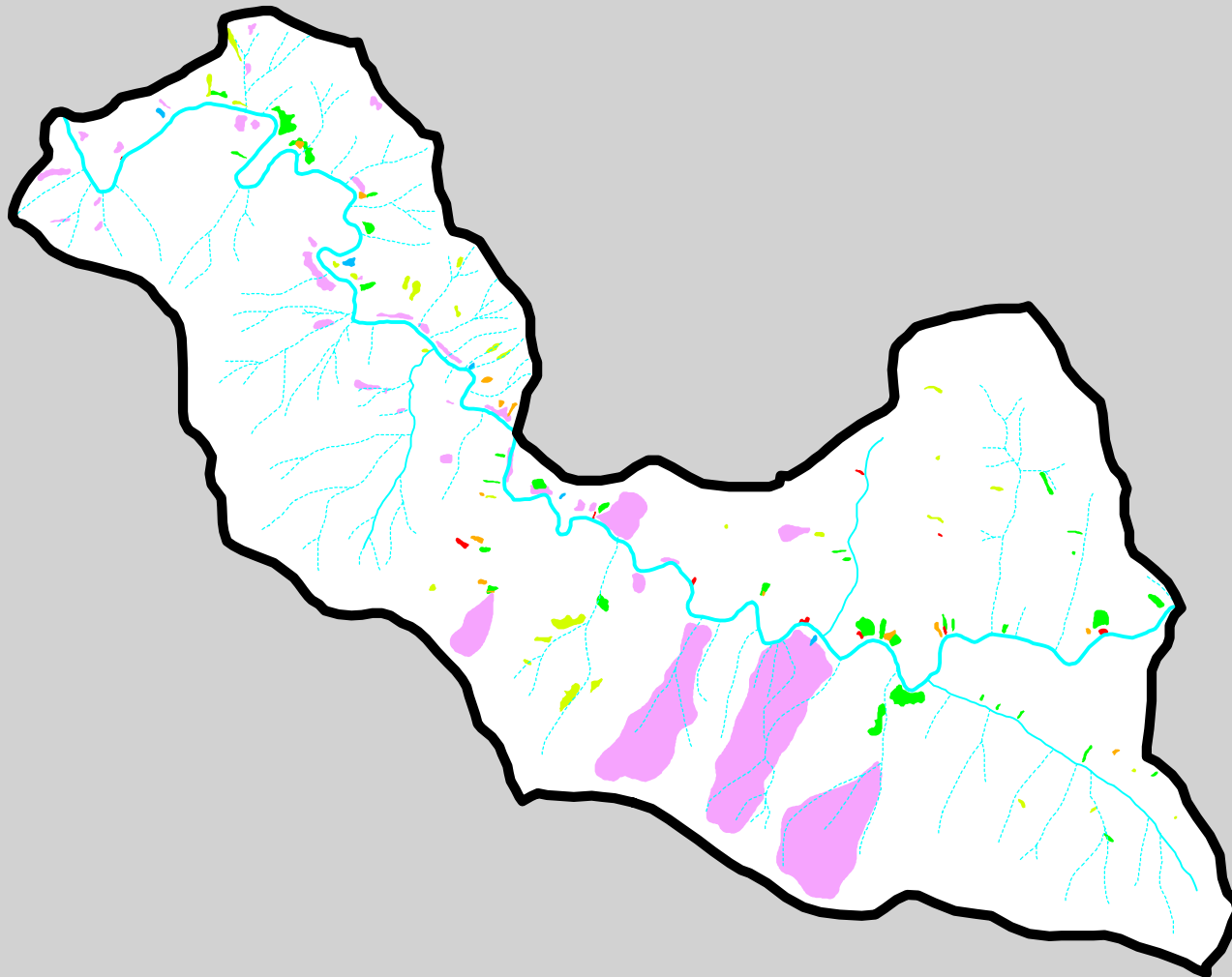
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APPENDIX A - 10

TEN MILE RIVER WATERSHED

Lower Middle Fork

Ten Mile Sub-Watershed



Watershed Boundary

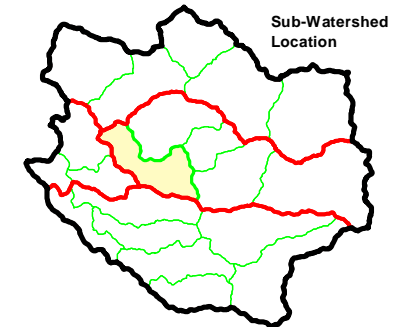
Delivering
Landslides

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000

August 1, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX A - 11



TEN MILE RIVER WATERSHED

Upper South Fork




Ten Mile Sub-Watershed

 Watershed Boundary

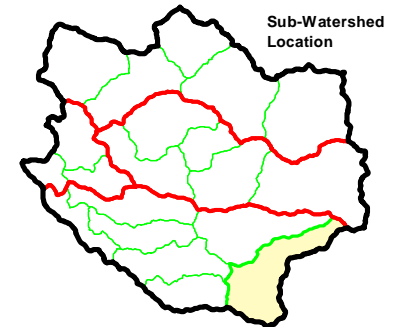
Delivering
Landslides

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Scale: 1 = 48,000

August 1, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters





APPENDIX A - 12

TEN MILE RIVER WATERSHED




Redwood Creek Sub-Watershed

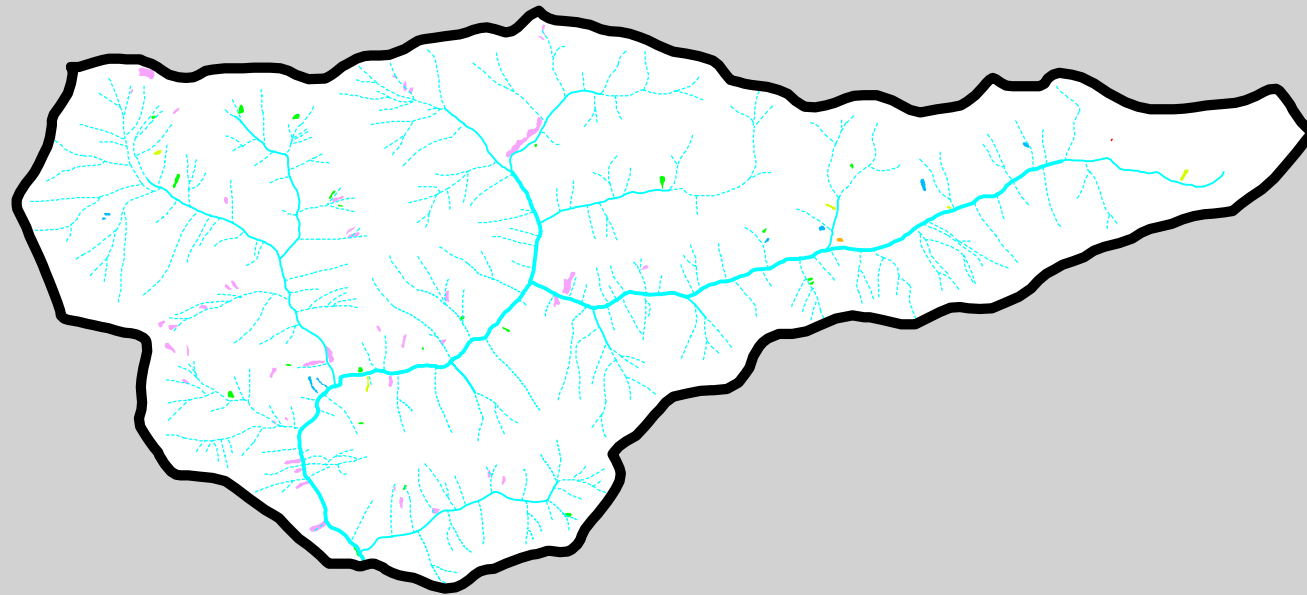
 Watershed Boundary

Delivering
Landslides

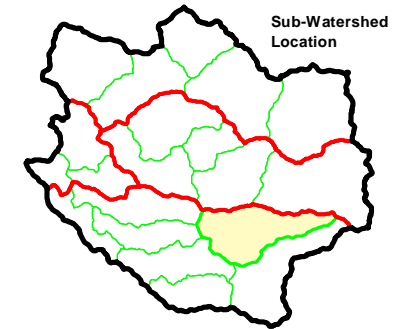
-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral



Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



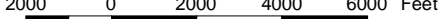
4


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Scale: 1 = 54,000

August 1, 2000

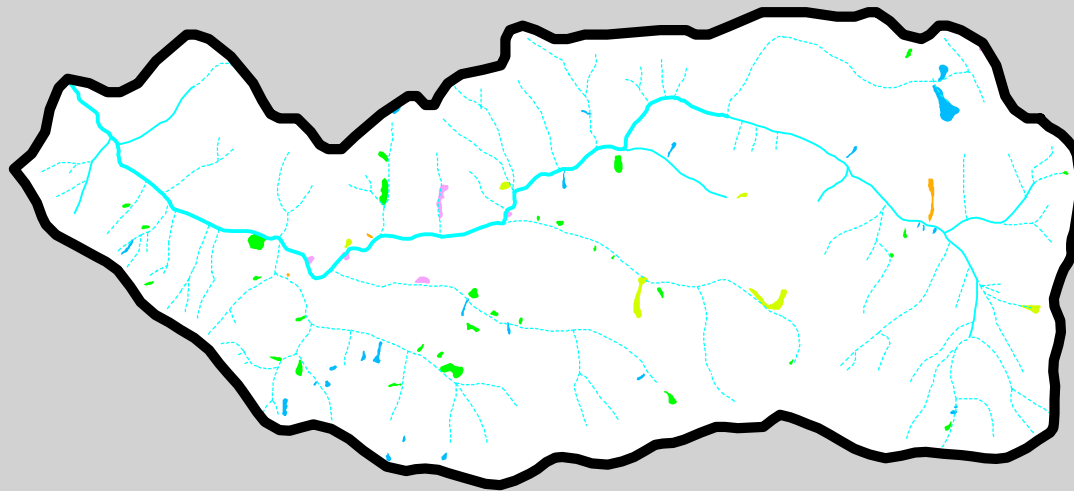
 2000 0 2000 4000 6000 Feet

 500 0 500 1000 1500 Meters

APPENDIX A - 13



TEN MILE RIVER WATERSHED

Churchman Creek Sub-Watershed






 Watershed Boundary

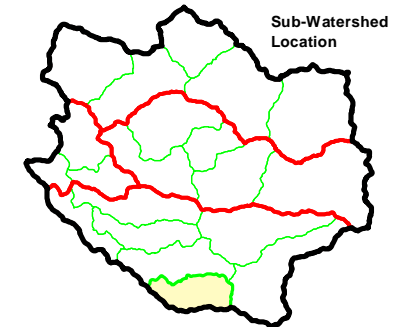
Delivering
Landslides

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Conservation District**

Scale: 1 = 40,000

August 1, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX A - 14

TEN MILE RIVER WATERSHED

Middle South Fork




Ten Mile Sub-Watershed

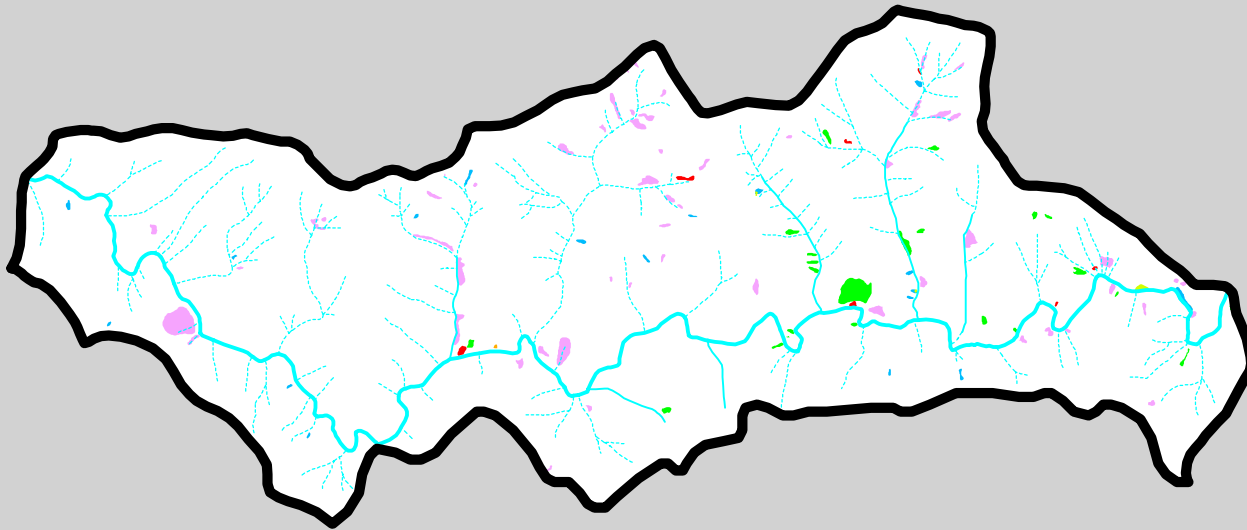
 Watershed Boundary

Delivering
Landslides

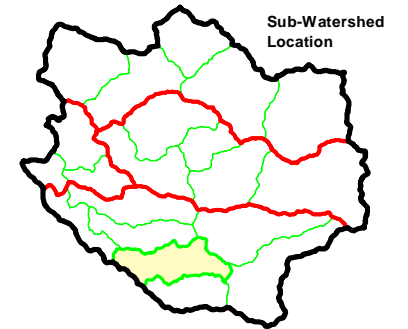
-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral



Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Conservation District**

Scale: 1 = 48,000

August 1, 2000

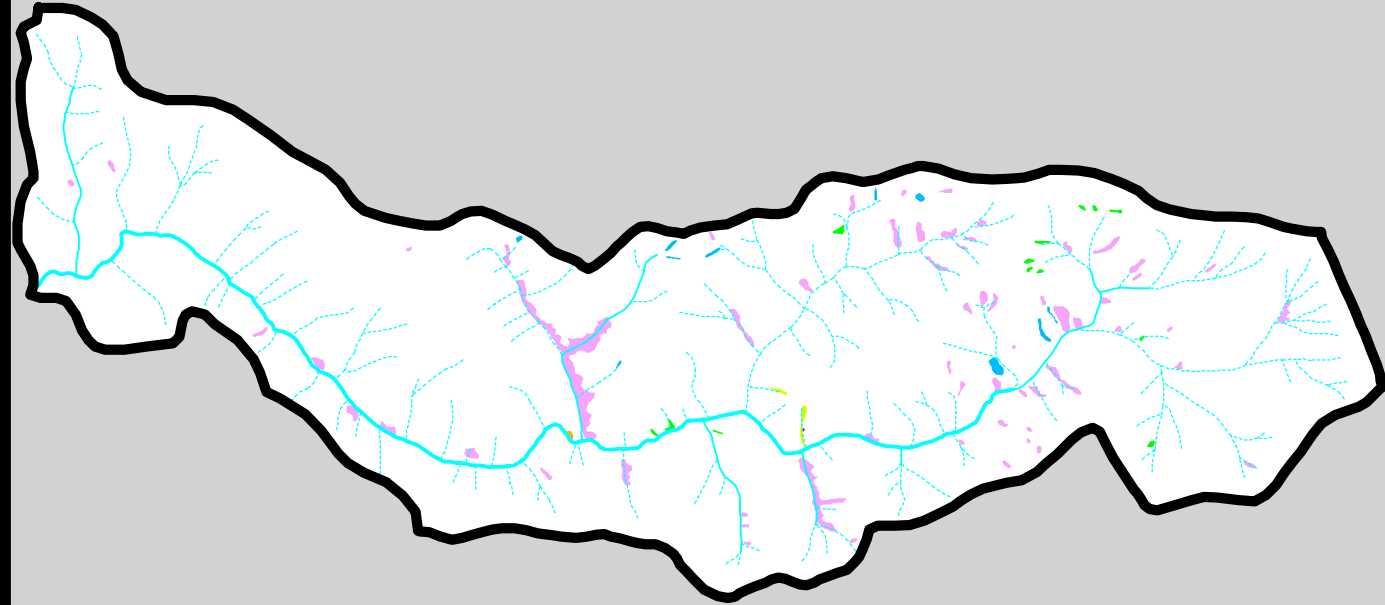
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500 0 500 1000 Meters

APPENDIX A - 15





TEN MILE RIVER WATERSHED

Campbell Creek Sub-Watershed






 Watershed Boundary

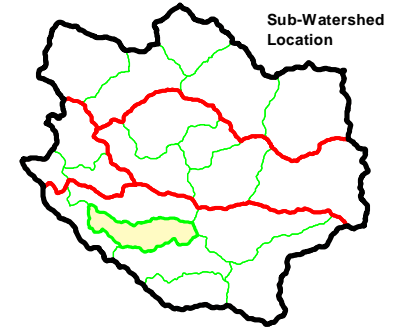
Delivering Landslides

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



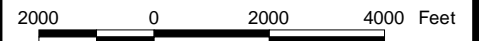
4

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August 1, 2000




APPENDIX A - 16

TEN MILE RIVER WATERSHED




Smith Creek Sub-Watershed

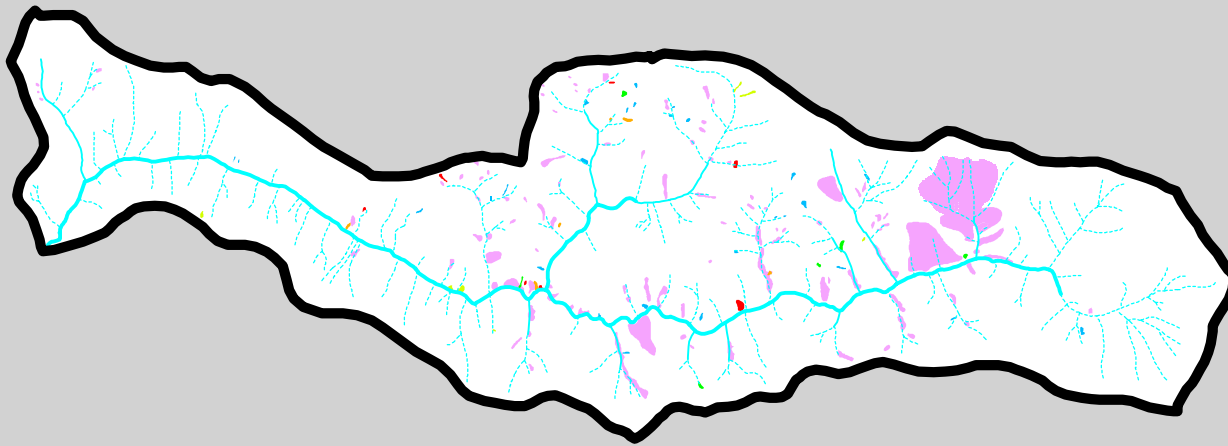
 Watershed Boundary

Delivering
Landslides

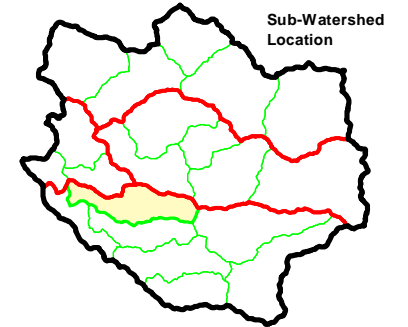
-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral



Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Scale: 1 = 54,000

August 1, 2000

2000 0 2000 4000 6000 Feet

500 0 500 1000 1500 Meters

APPENDIX A - 17

TEN MILE RIVER WATERSHED

Lower South Fork




Ten Mile Sub-Watershed

 Watershed Boundary

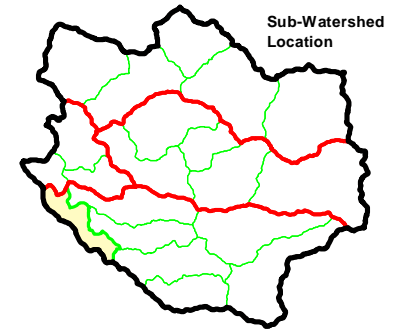
Delivering
Landslides

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Scale: 1 = 30,000

August 1, 2000

1000 0 1000 2000 3000 Feet

250 0 250 500 750 Meters

APPENDIX A - 18

TEN MILE RIVER WATERSHED

Mainstem Ten Mile River Sub-Watersheds



Watershed Boundary

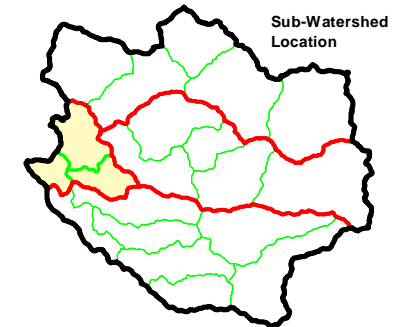
Delivering
Landslides

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Slide Data & Location: John Coyle & Assoc.



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Scale: 1 = 42,000

August 1, 2000

2000 0 2000 4000 Feet

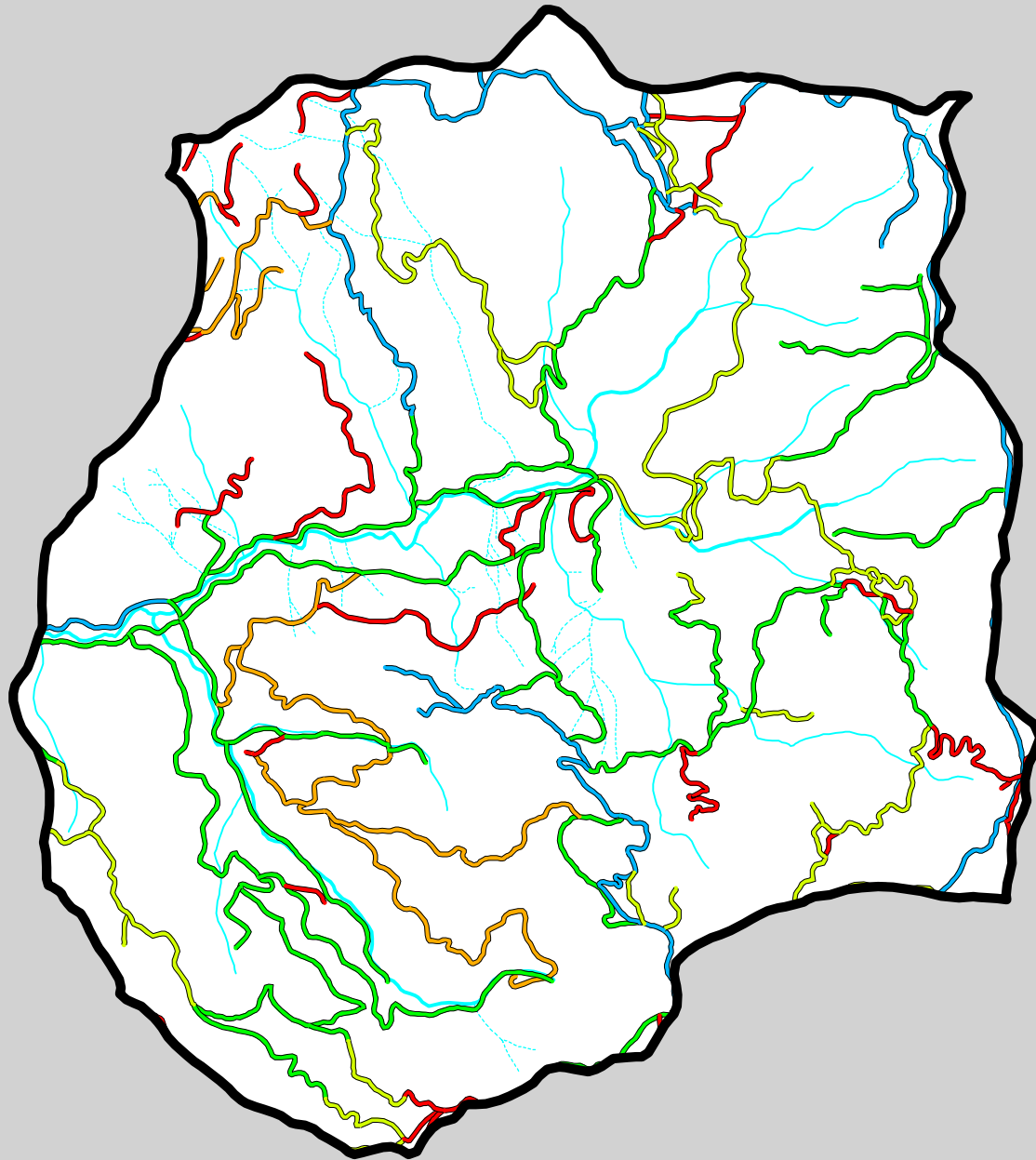
500 0 500 1000 Meters

APPENDIX B - 1

TEN MILE RIVER WATERSHED







Upper North Fork

Ten Mile Sub-Watershed






 Watershed Boundary

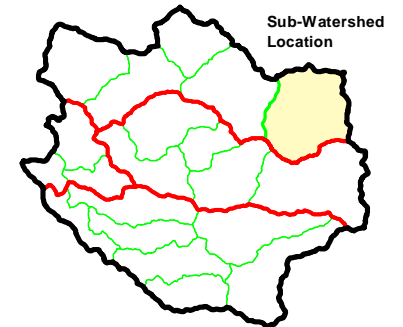
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

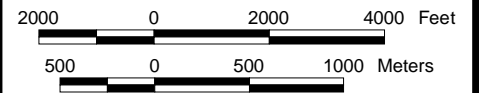
-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000 August 2, 2000

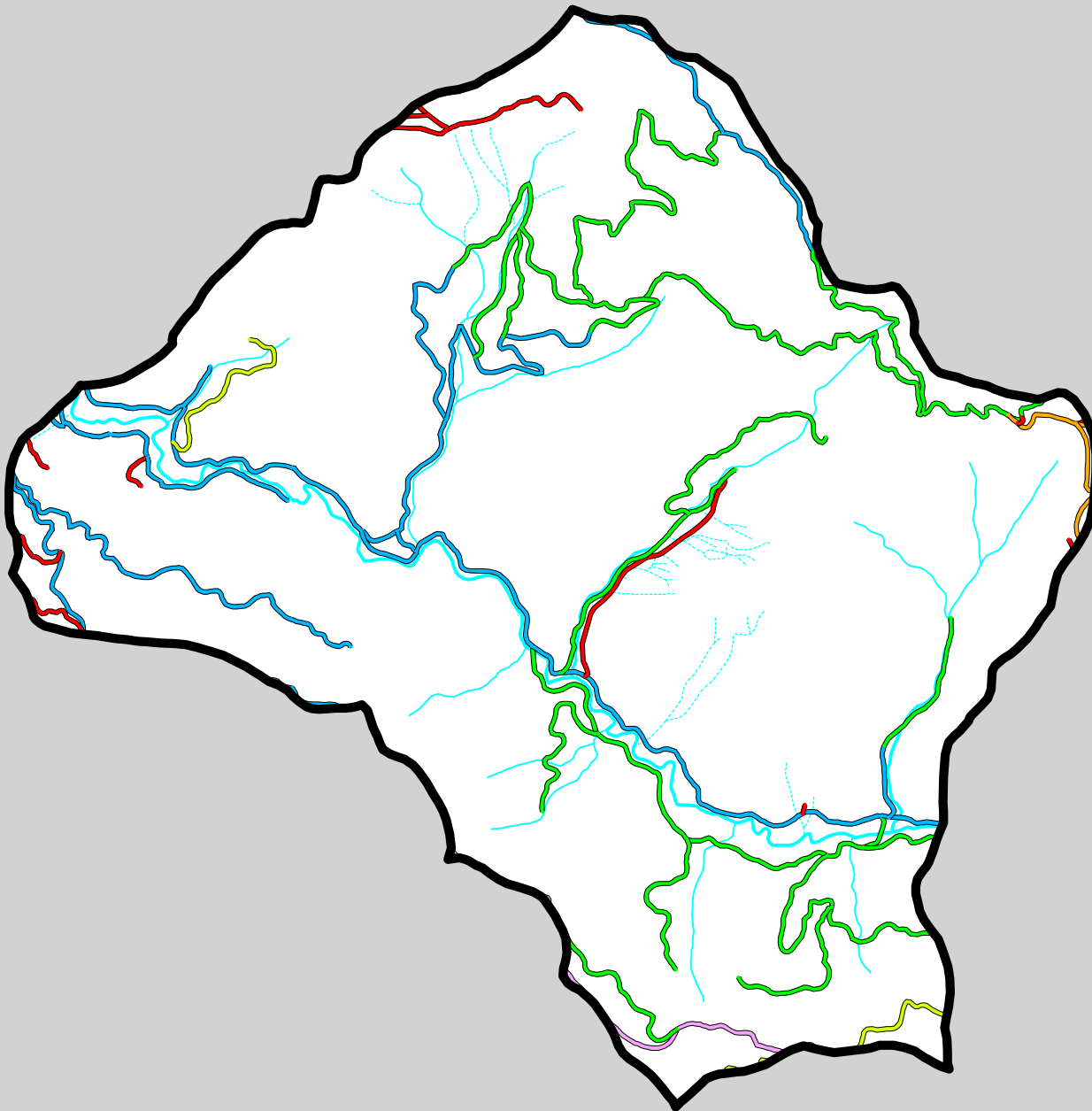


APPENDIX B - 2

TEN MILE RIVER WATERSHED




Middle North Fork

Ten Mile Sub-Watershed






 Watershed Boundary

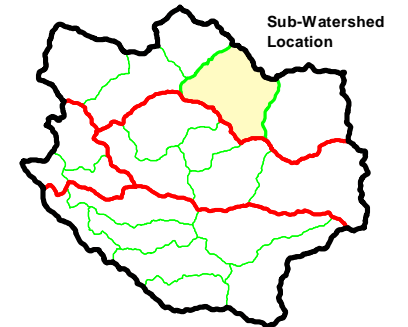
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000

August 2, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters


APPENDIX B - 3

TEN MILE RIVER WATERSHED




Bald Hill Creek Sub-Watershed

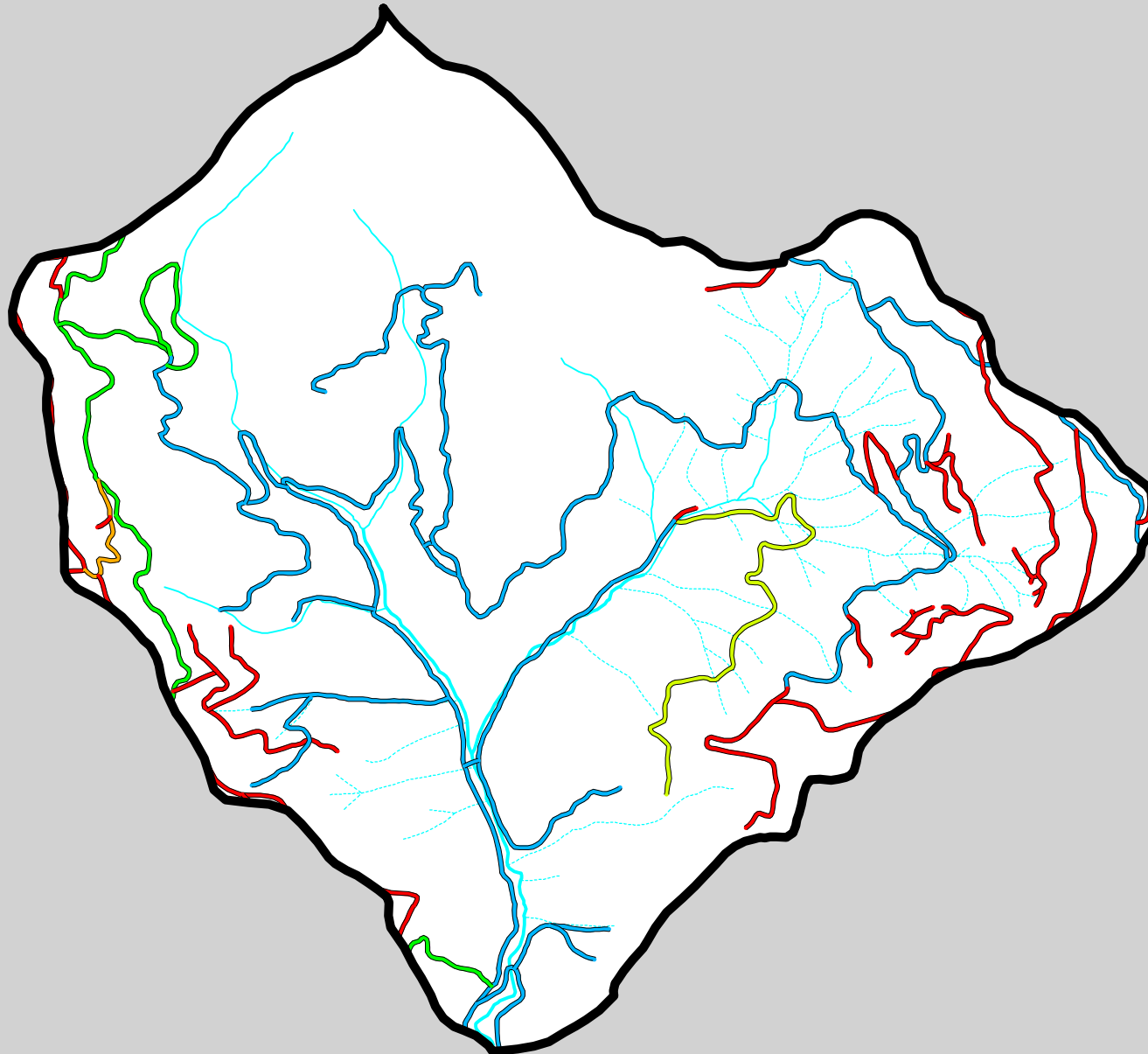
 Watershed Boundary

Road Network

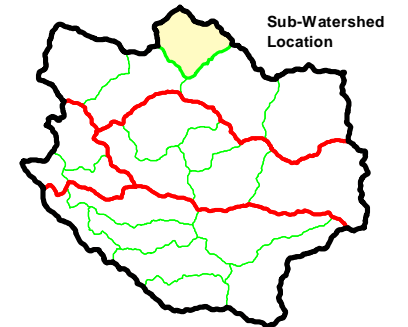
-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral



Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



4

Presented By
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Prepared By
Trinity County Resource Conservation District

Scale: 1 = 30,000

August 2, 2000

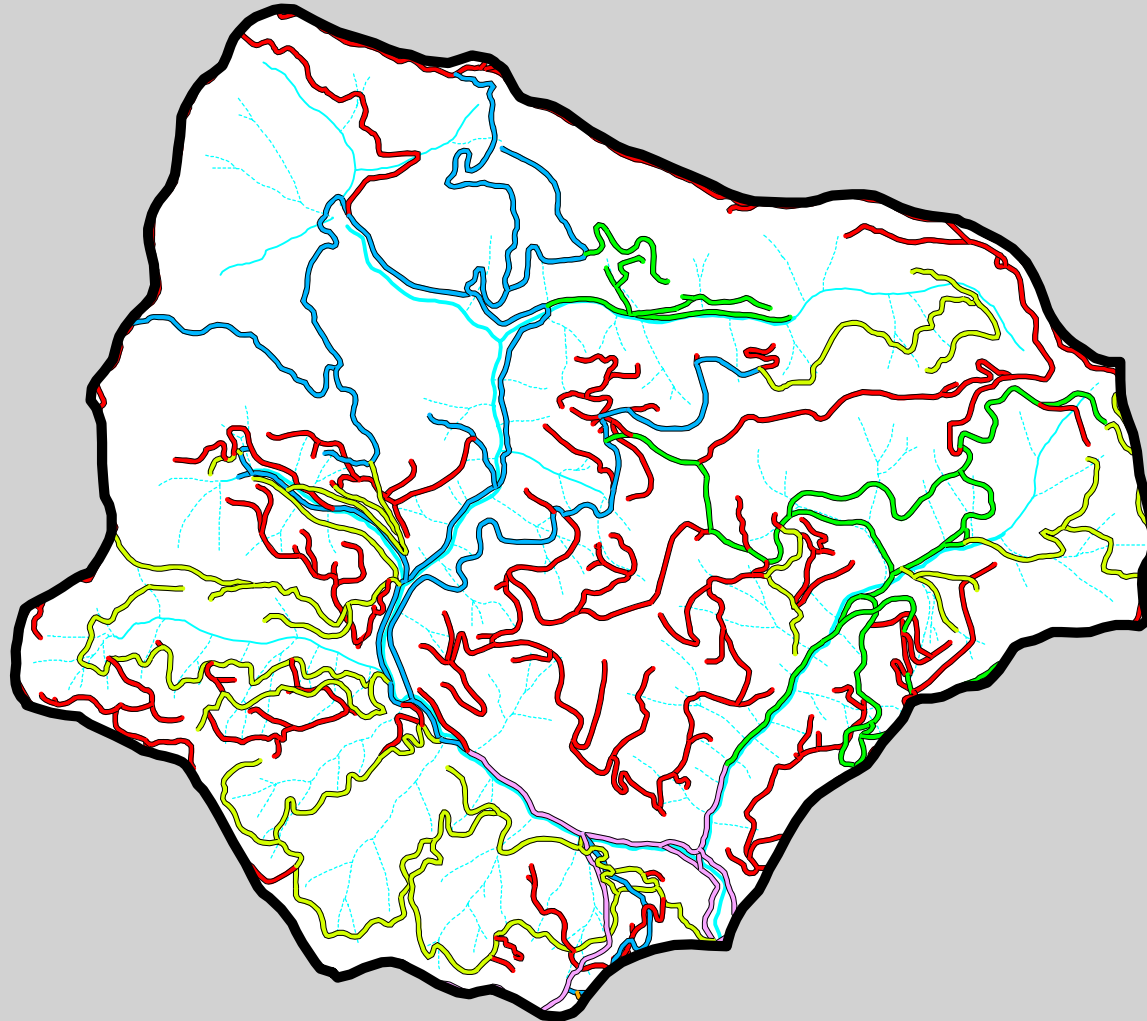
1000 0 1000 2000 3000 Feet

250 0 250 500 750 Meters

APPENDIX B - 4



TEN MILE RIVER WATERSHED

Little North Fork Ten Mile Sub-Watershed






 Watershed Boundary

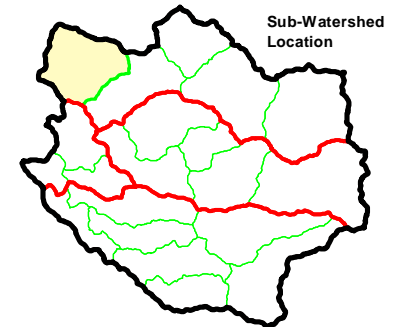
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



Presented By
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Prepared By
Trinity County Resource Conservation District

Scale: 1 = 40,000 August 2, 2000



APPENDIX B - 5






TEN MILE RIVER WATERSHED

Lower North Fork




Ten Mile Sub-Watershed

 Watershed Boundary

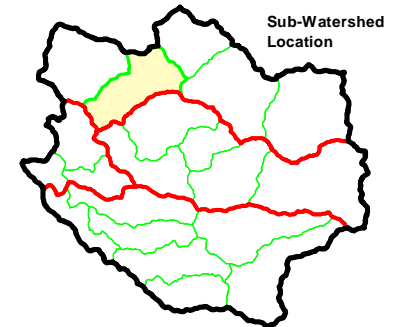
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



Presented By
Graham Matthews & Associates
Prepared By
Trinity County Resource Conservation District

Scale: 1 = 40,000

August 2, 2000

2000 0 2000 4000 Feet

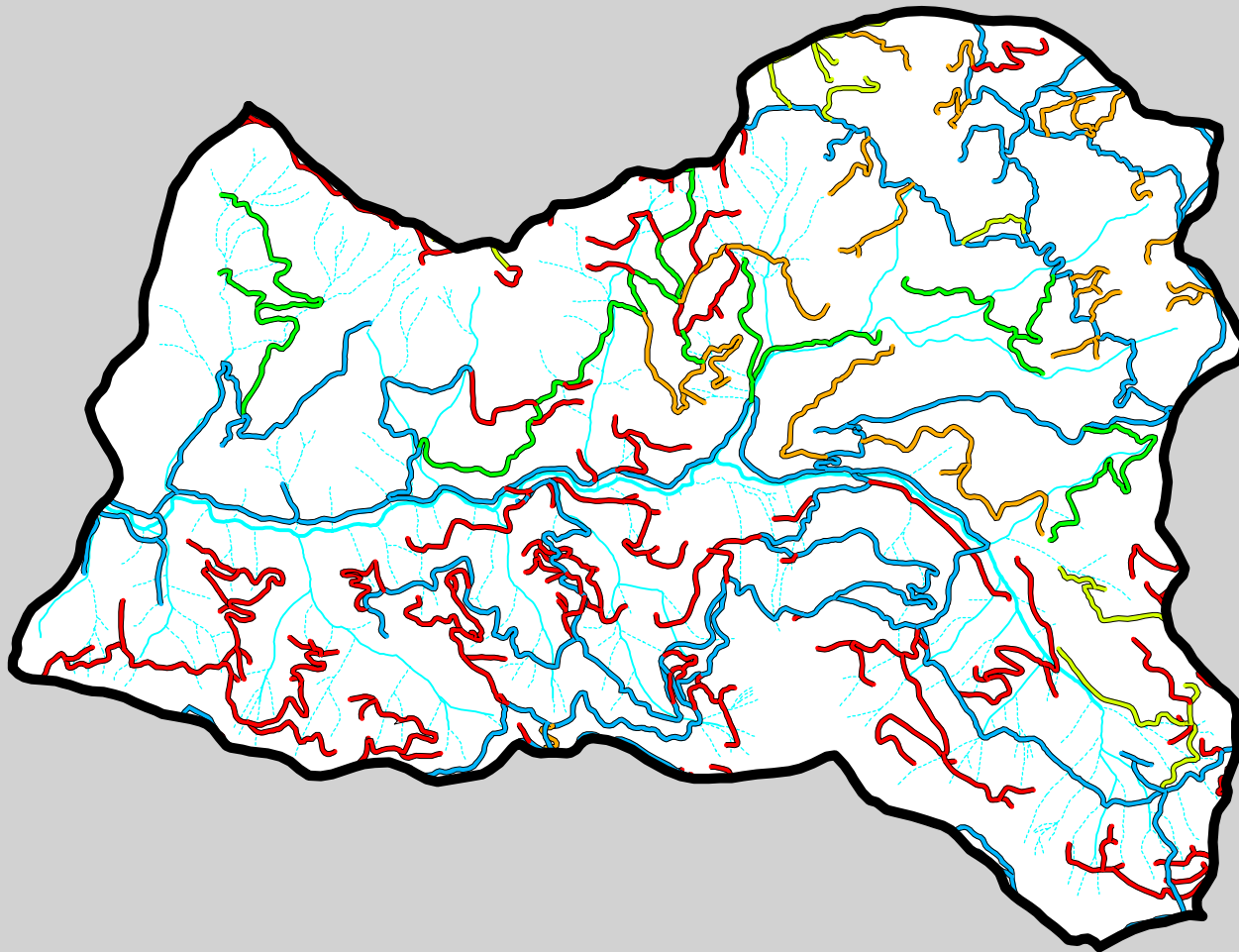
500 0 500 1000 Meters

APPENDIX B - 6

TEN MILE RIVER WATERSHED







Upper Middle Fork

Ten Mile Sub-Watershed






 Watershed Boundary

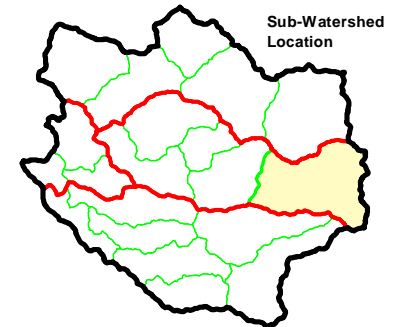
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



Presented By
Graham Matthews & Associates
Prepared By
Trinity County Resource Conservation District

Scale: 1 = 48,000

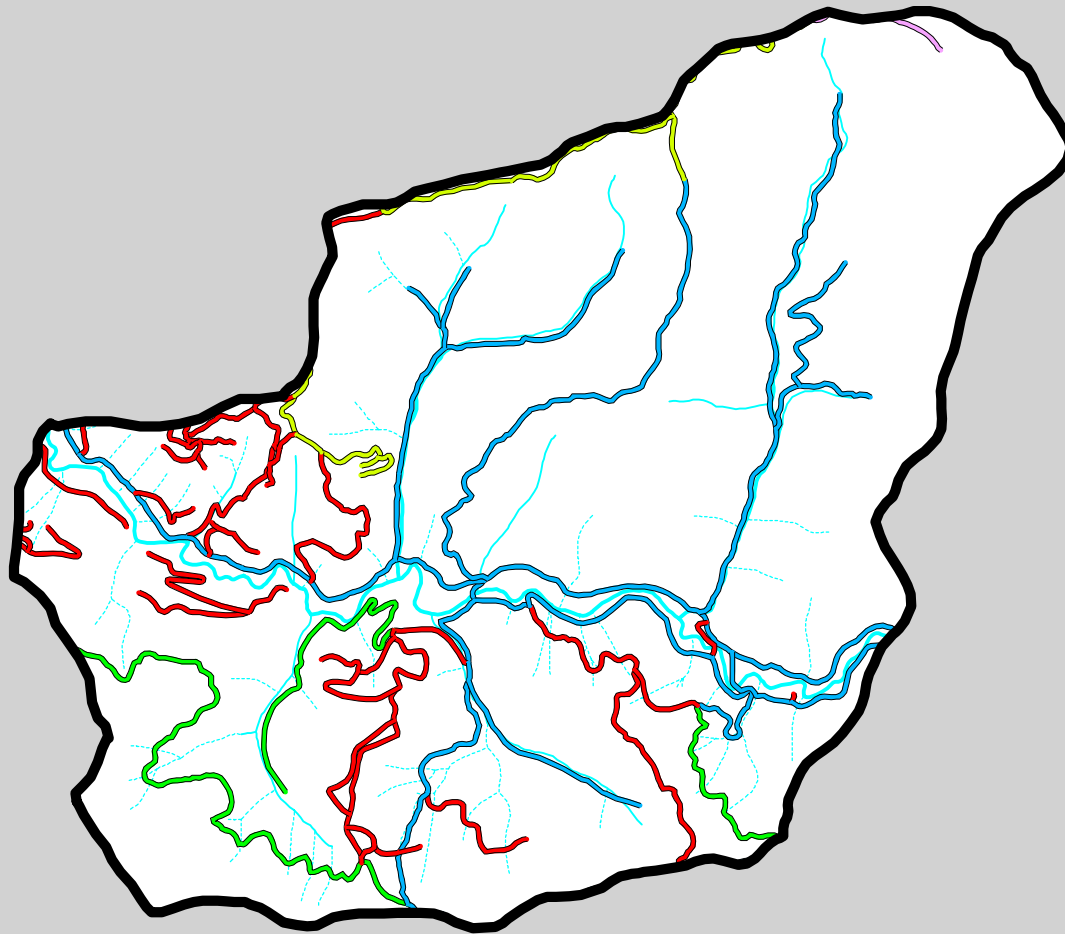


APPENDIX B - 7

TEN MILE RIVER WATERSHED



Middle Middle Fork

Ten Mile Sub-Watershed






 Watershed Boundary

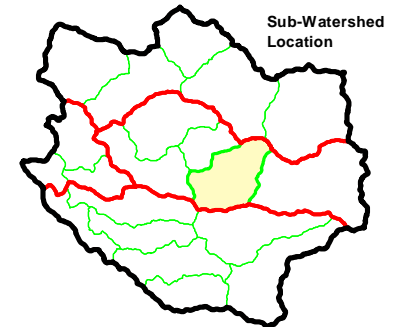
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



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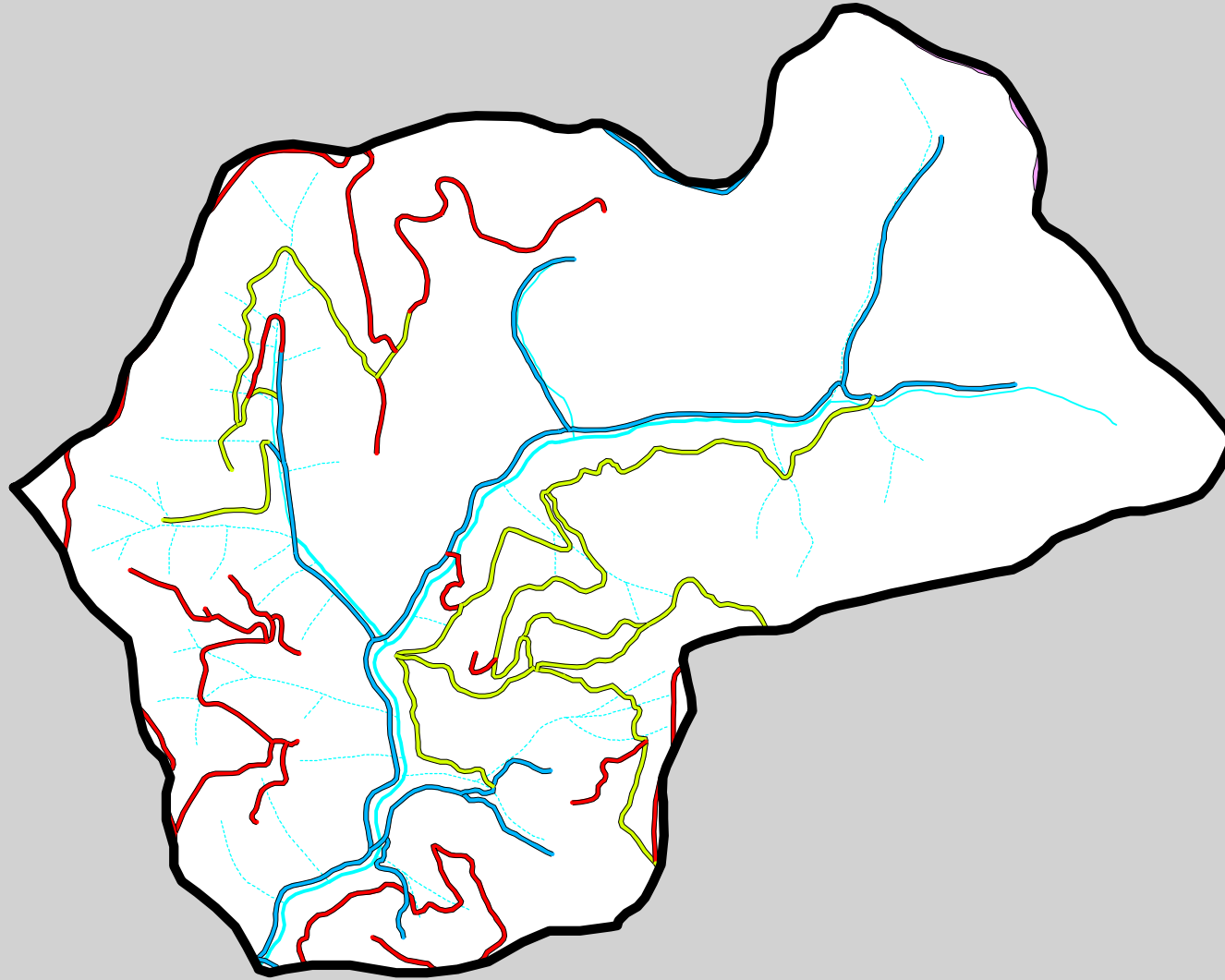
Scale: 1 = 40,000 August 2, 2000



APPENDIX B - 8







TEN MILE RIVER WATERSHED

Little Bear Haven Creek Sub-Watershed






 Watershed Boundary

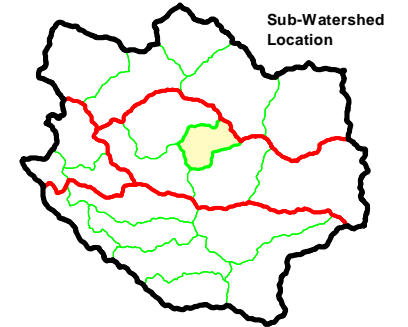
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



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Scale: 1 = 24,000

August 2, 2000

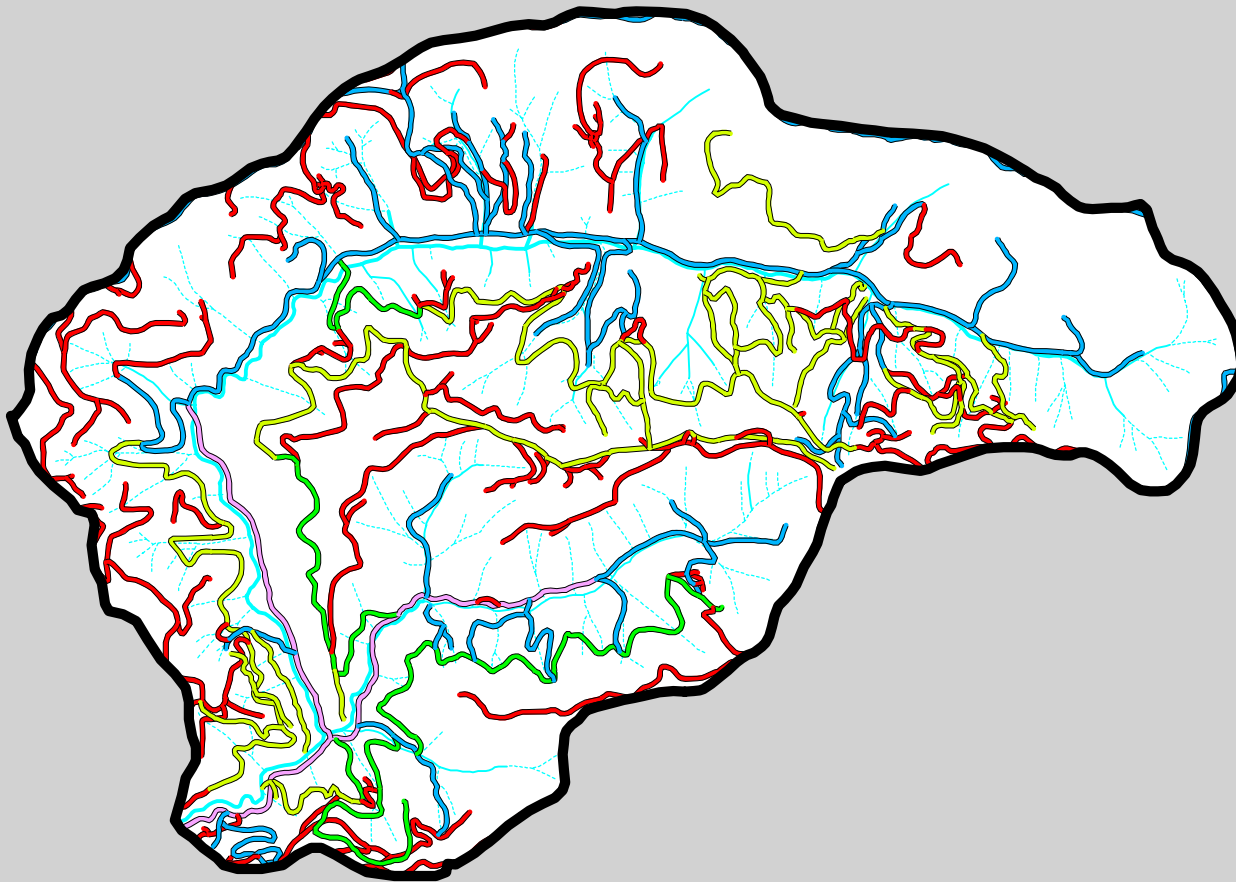
1000 0 1000 2000 Feet

250 0 250 500 Meters

APPENDIX B - 9



TEN MILE RIVER WATERSHED

Bear Haven Creek Sub-Watershed






 Watershed Boundary

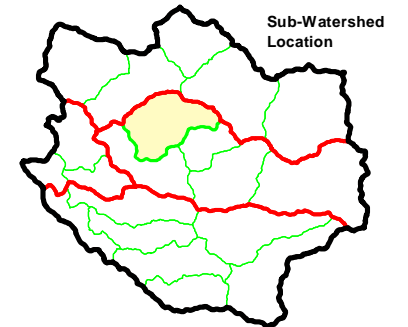
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



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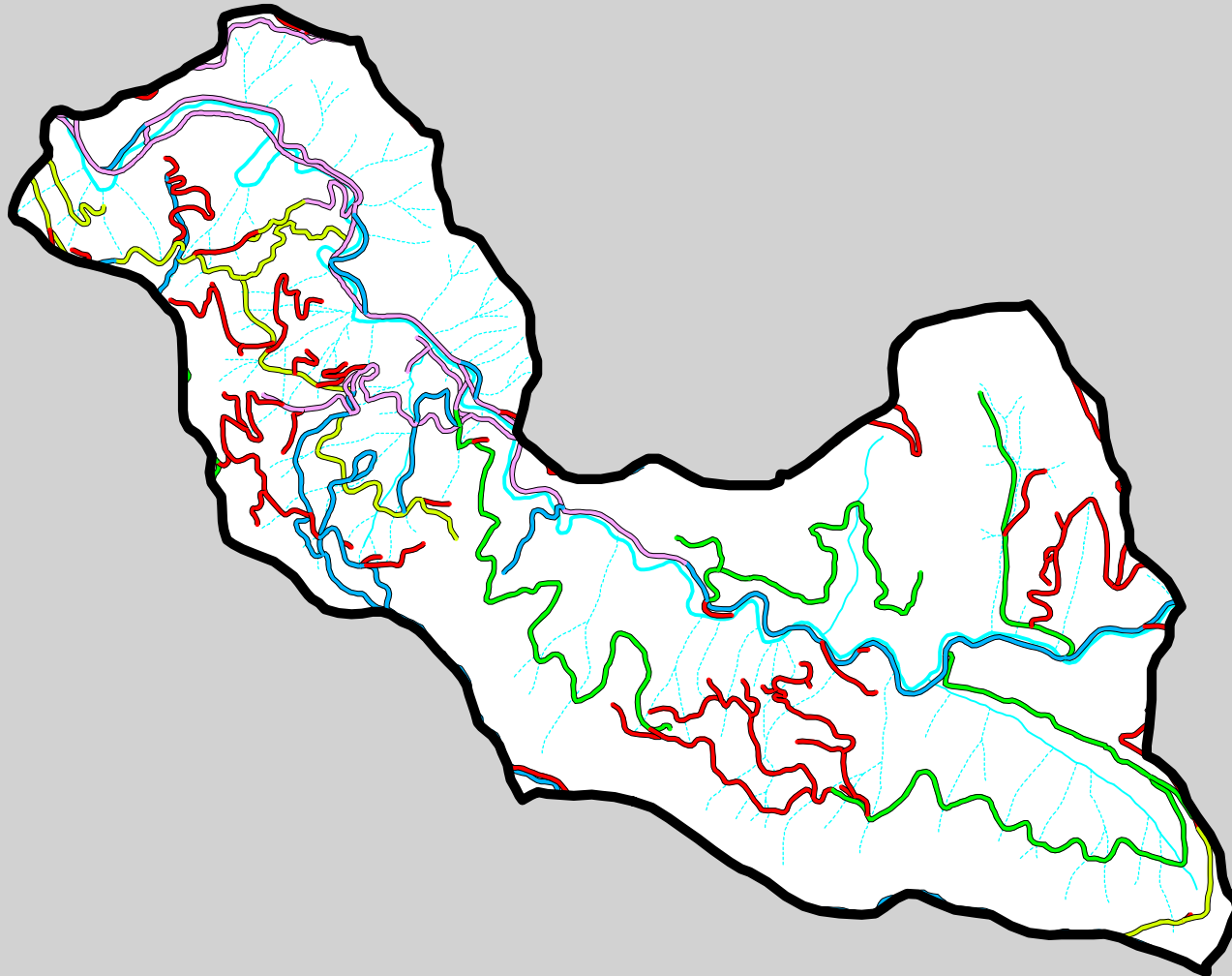
Scale: 1 = 40,000

August 2, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX B - 10
TEN MILE RIVER WATERSHED
Lower Middle Fork
Ten Mile Sub-Watershed



Watershed Boundary

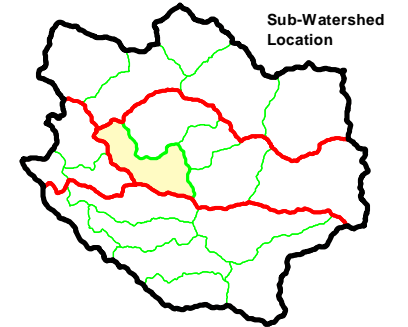
Road Network

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
 Additional Road Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000

August 2, 2000



APPENDIX B - 11







TEN MILE RIVER WATERSHED

Upper South Fork




Ten Mile Sub-Watershed

 Watershed Boundary

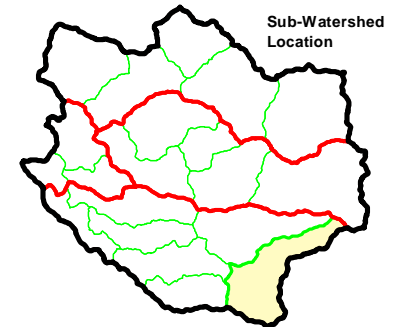
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



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Scale: 1 = 48,000 August 2, 2000





APPENDIX B - 12

TEN MILE RIVER WATERSHED




Redwood Creek Sub-Watershed

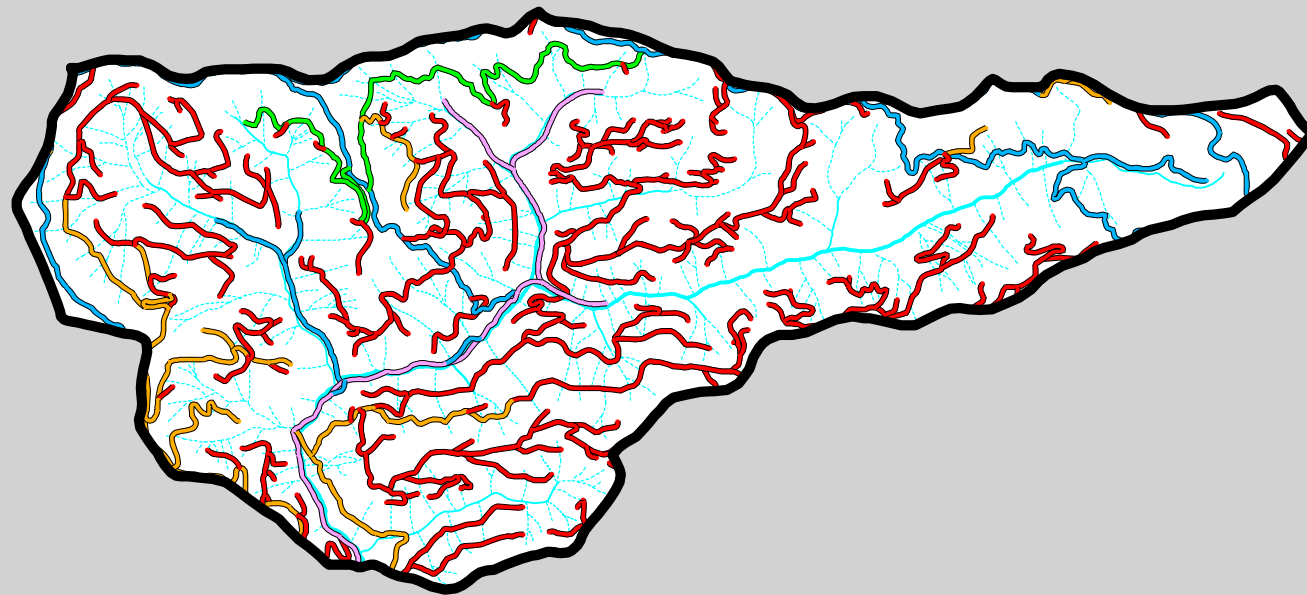
 Watershed Boundary

Road Network

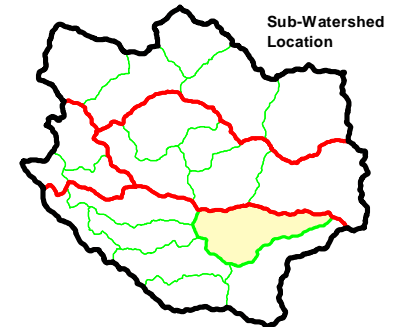
-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral



Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



4

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Scale: 1 = 54,000

August 2, 2000

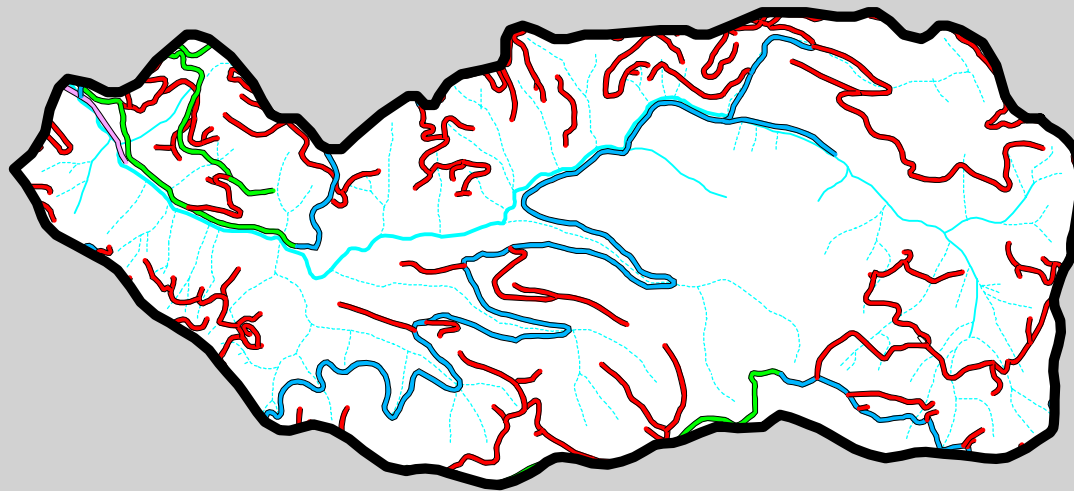
2000 0 2000 4000 6000 Feet

500 0 500 1000 1500 Meters

APPENDIX B - 13


TEN MILE RIVER WATERSHED

Churchman Creek Sub-Watershed






 Watershed Boundary

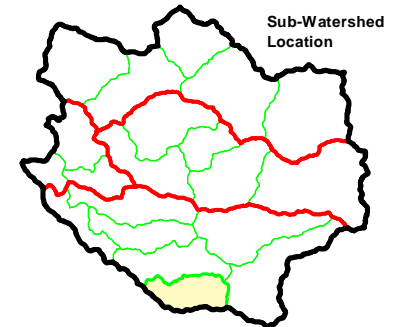
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000

August 2, 2000

2000 0 2000 4000 Feet

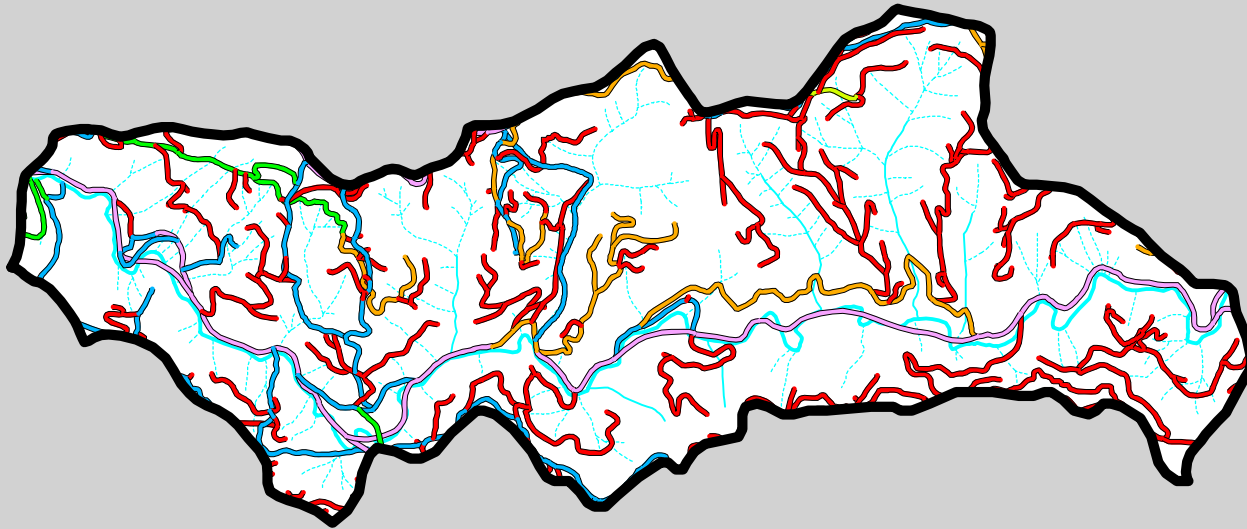
500 0 500 1000 Meters

APPENDIX B - 14

TEN MILE RIVER WATERSHED







Middle South Fork

Ten Mile Sub-Watershed






 Watershed Boundary

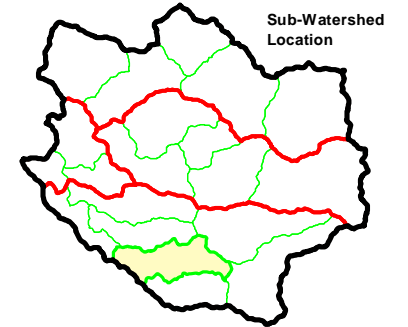
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



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Prepared By
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Scale: 1 = 48,000

August 2, 2000

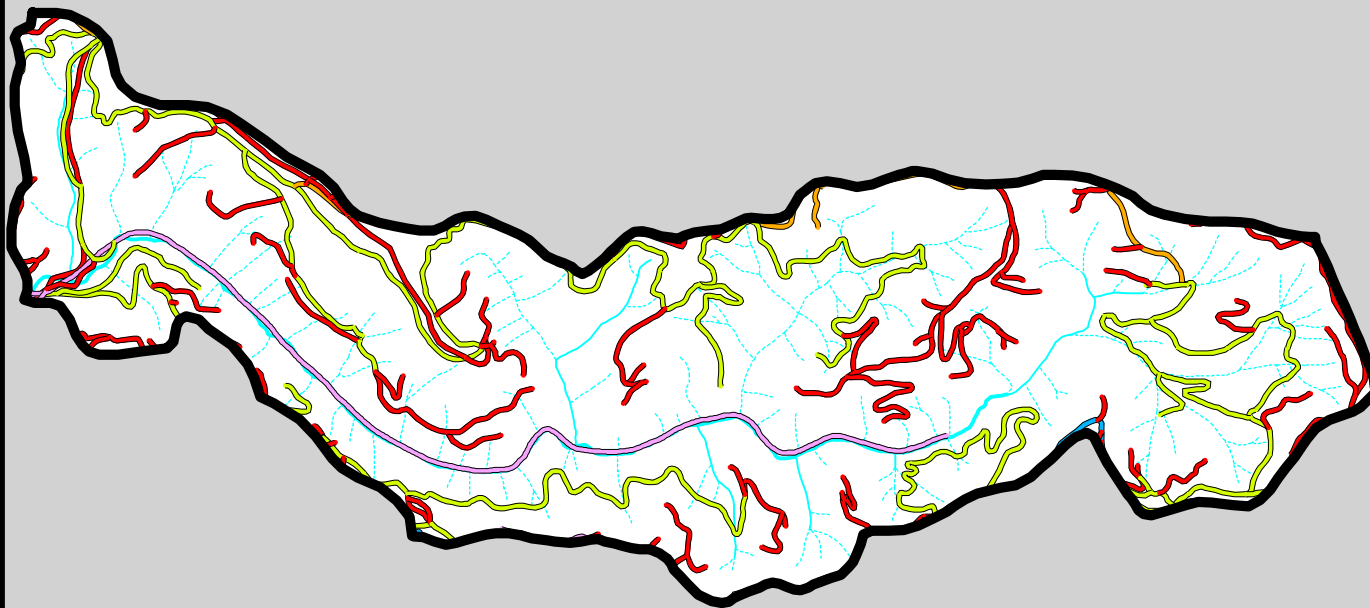
2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX B - 15

TEN MILE RIVER WATERSHED

Campbell Creek Sub-Watershed



Watershed Boundary

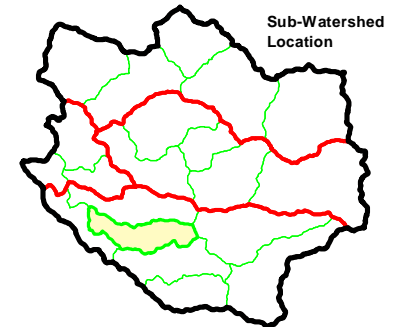
Road Network

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



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APPENDIX B - 16

TEN MILE RIVER WATERSHED




Smith Creek Sub-Watershed

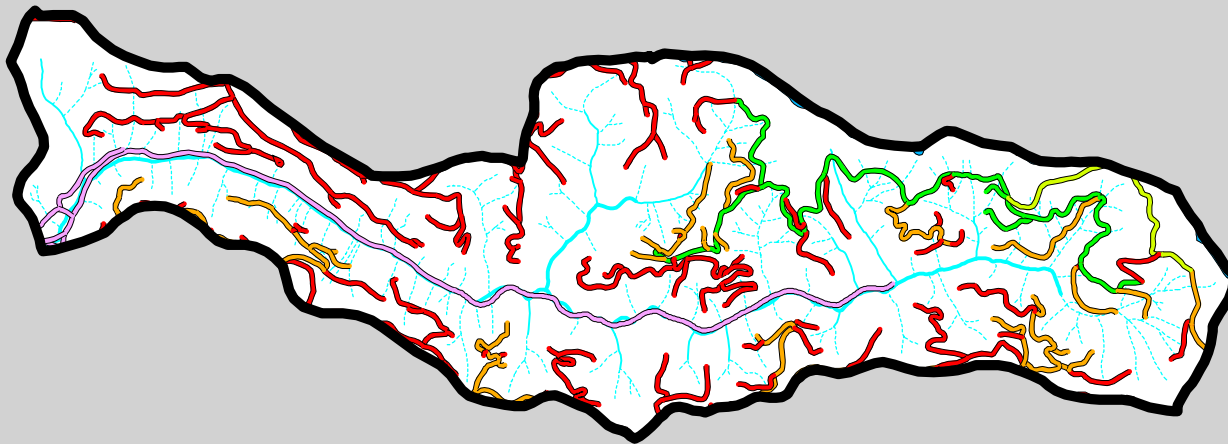
 Watershed Boundary

Road Network

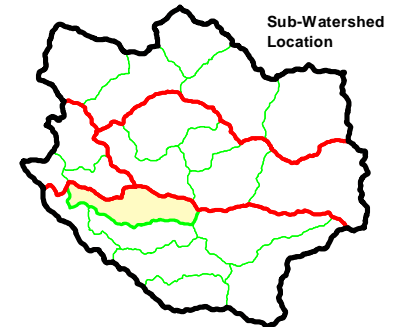
-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral



Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



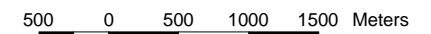
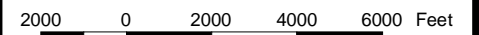
4

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Scale: 1 = 54,000

August 2, 2000



APPENDIX B - 17



TEN MILE RIVER WATERSHED

Lower South Fork




Ten Mile Sub-Watershed

 Watershed Boundary

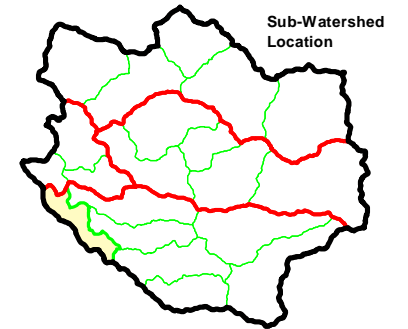
Road Network

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

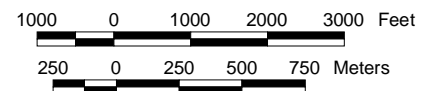
Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



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Prepared By
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Scale: 1 = 30,000

August 2, 2000



APPENDIX B - 18

TEN MILE RIVER WATERSHED

Mainstem Ten Mile River Sub-Watersheds



Watershed Boundary

Sub-Watersheds

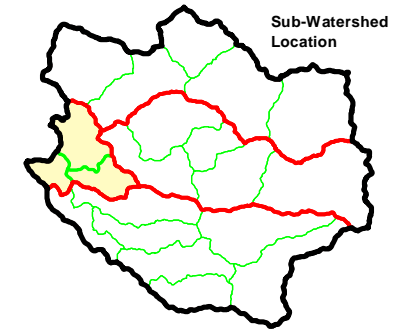
Road Network

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Road Data & Location: John Coyle & Assoc.



4

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Scale: 1 = 42,000

August 2, 2000

2000 0 2000 4000 Feet

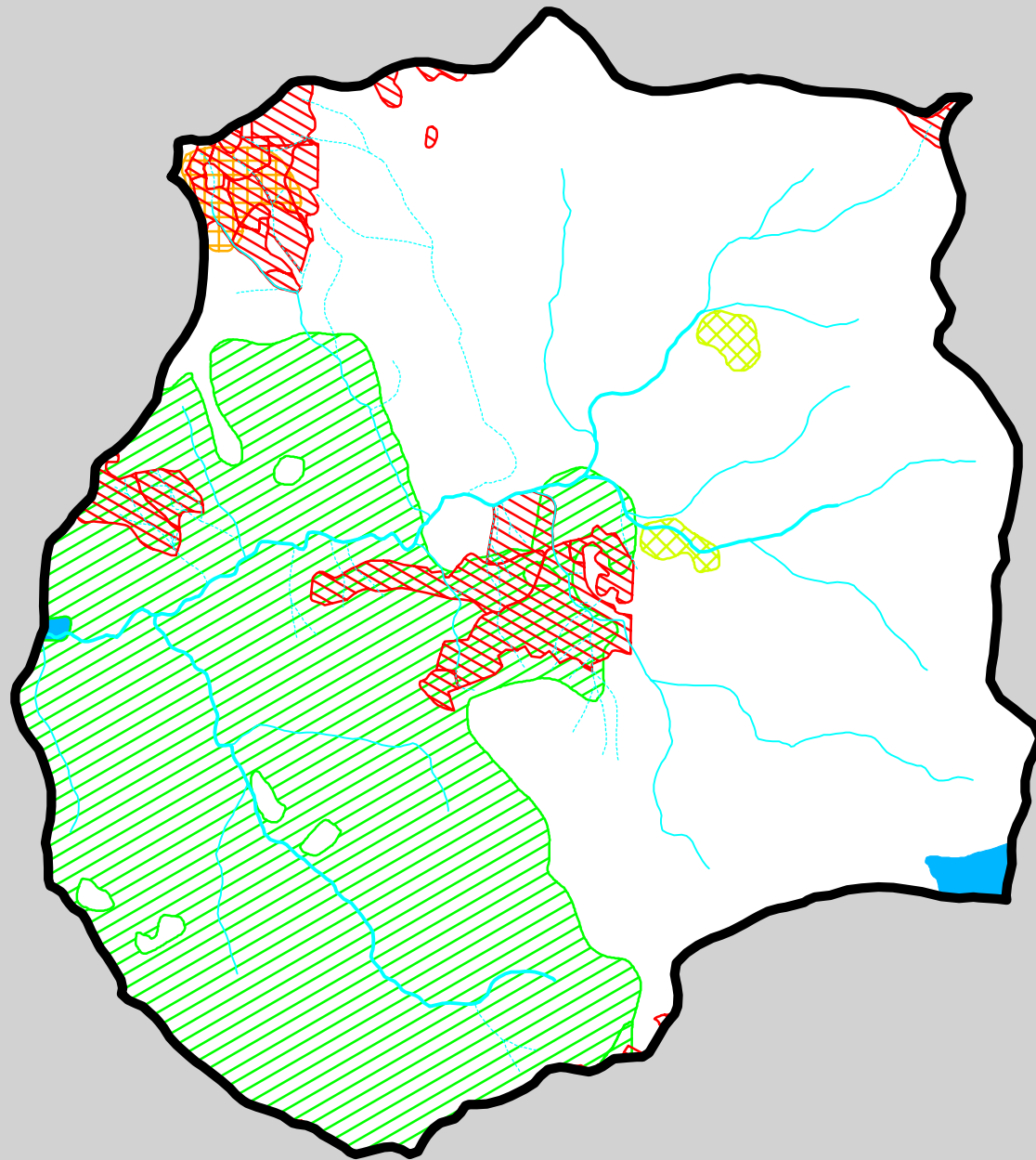
500 0 500 1000 Meters

APPENDIX C - 1

TEN MILE RIVER WATERSHED

Upper North Fork

Ten Mile Sub-Watershed



Watershed Boundary

Sub-Watersheds

Harvest Areas

1941

1952

1965

1978

1988

1999

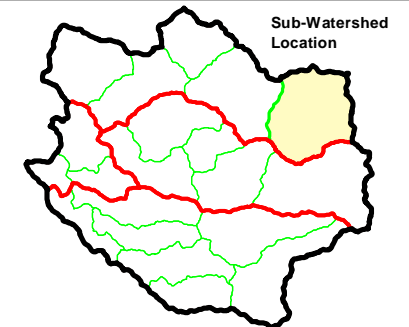
Streams

Perennial

Intermittent

Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



4

Presented By
Graham Matthews & Associates

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Trinity County Resource Conservation District

Scale: 1 = 40,000

August 3, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters


APPENDIX C - 2

TEN MILE RIVER WATERSHED

Middle North Fork

Ten Mile Sub-Watershed

 Watershed Boundary

 Sub-Watersheds

Harvest Areas

 1941

 1952

 1965

 1978

 1988

 1999

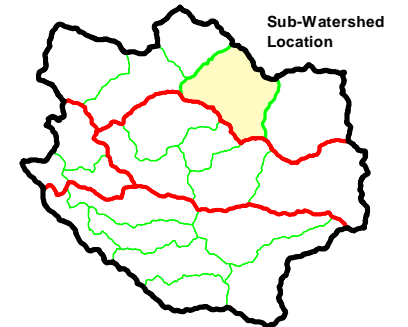
Streams

 Perennial

 Intermittent

 Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



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Graham Matthews & Associates
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Trinity County Resource Conservation District

Scale: 1 = 40,000

August 3, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX C - 3

TEN MILE RIVER WATERSHED

Bald Hill Creek Sub-Watershed

 Watershed Boundary

 Sub-Watersheds

Harvest Areas

 1941

 1952


 1965

 1978

 1988

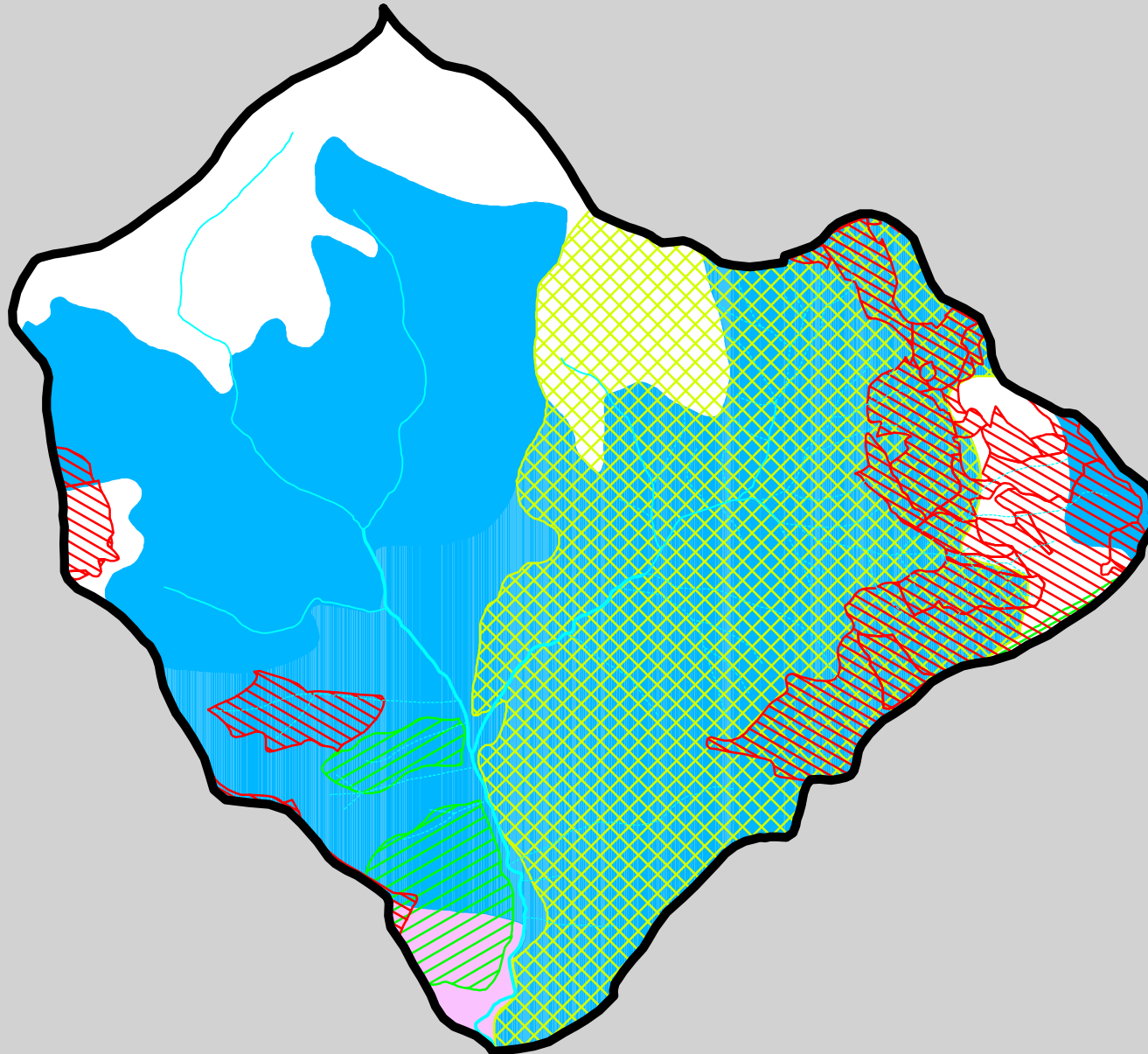
 1999

Streams

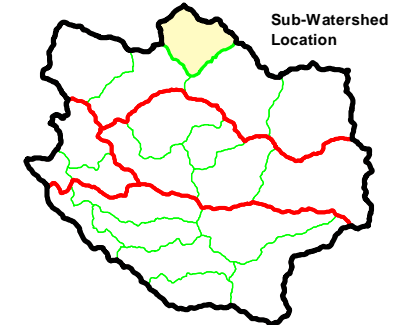
 Perennial

 Intermittent

 Ephemeral



Basemap Data Source: Calif. Dept. of Forestry
 Additional Harvest Data & Location: John Coyle & Assoc.



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Scale: 1 = 30,000

August 3, 2000

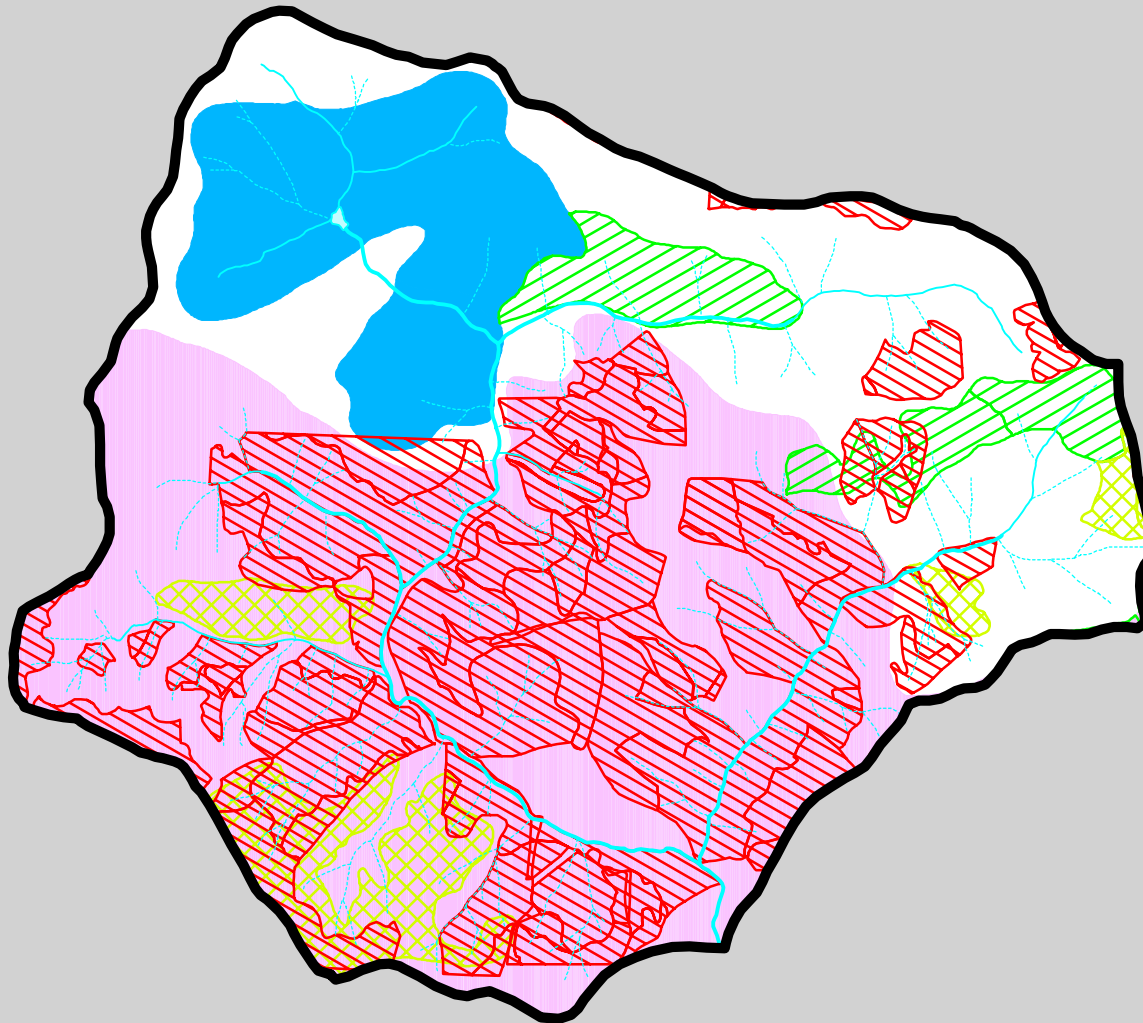
1000 0 1000 2000 3000 Feet

250 0 250 500 750 Meters

APPENDIX C - 4

TEN MILE RIVER WATERSHED

Little North Fork Ten Mile Sub-Watershed



Watershed Boundary

Sub-Watersheds

Harvest Areas

1941

1952

1965

1978

1988

1999

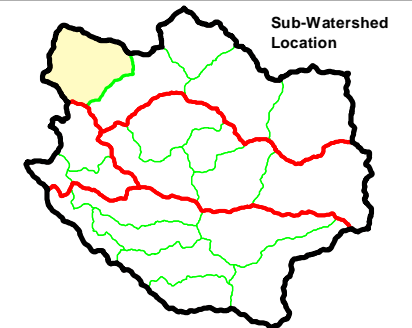
Streams

Perennial

Intermittent

Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



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**Graham Matthews
& Associates**

Prepared By
**Trinity County Resource
Conservation District**

Scale: 1 = 40,000

August 3, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX C - 5

TEN MILE RIVER WATERSHED

Lower North Fork

Ten Mile Sub-Watershed

 Watershed Boundary

 Sub-Watersheds

Harvest Areas

 1941

 1952


 1965

 1978

 1988

 1999

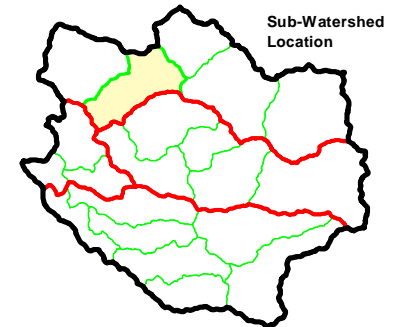
Streams

 Perennial

 Intermittent

 Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000

August 3, 2000

2000 0 2000 4000 Feet

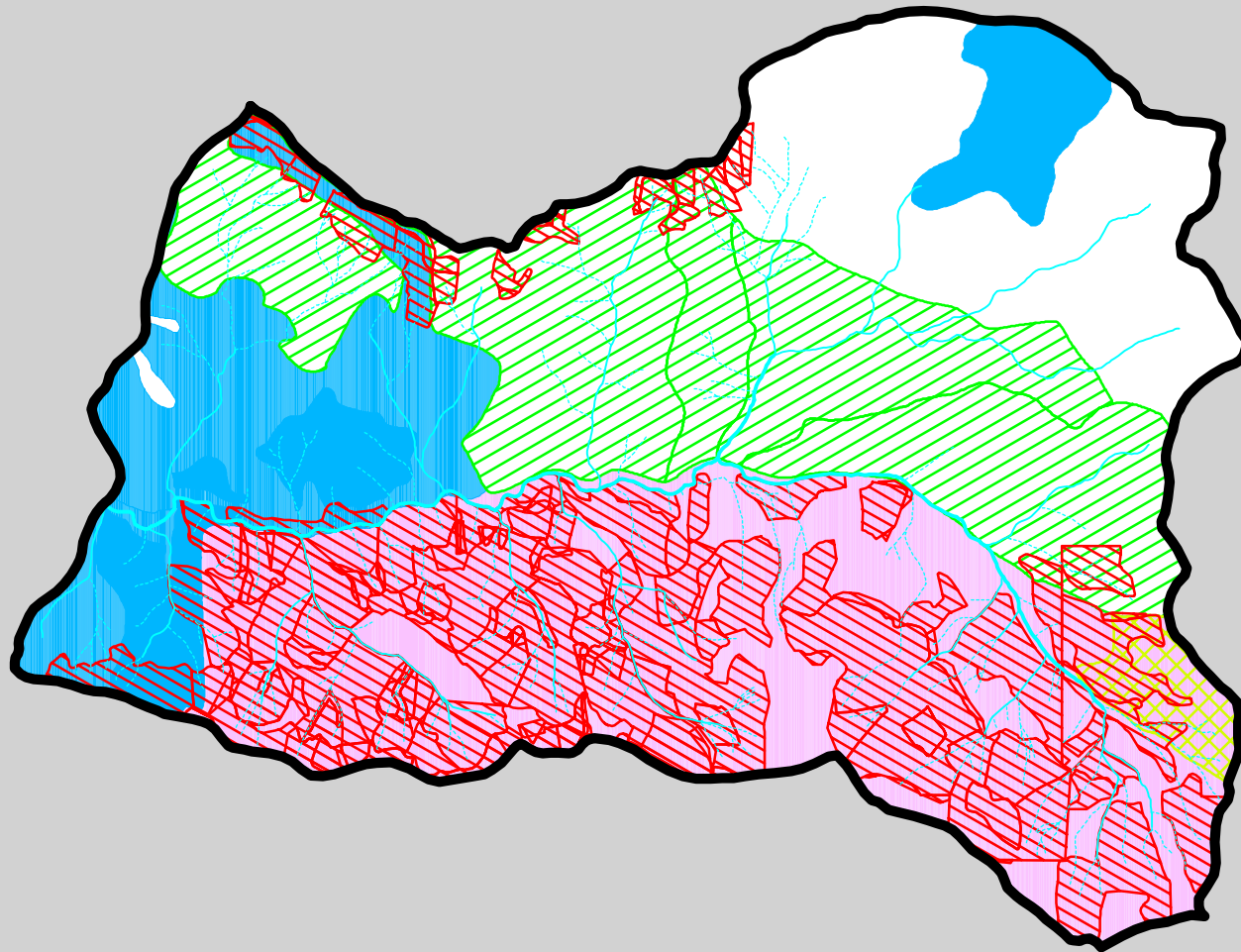
500 0 500 1000 Meters

APPENDIX C - 6

TEN MILE RIVER WATERSHED

Upper Middle Fork

Ten Mile Sub-Watershed



Watershed Boundary

Sub-Watersheds

Harvest Areas

1941

1952

1965

1978

1988

1999

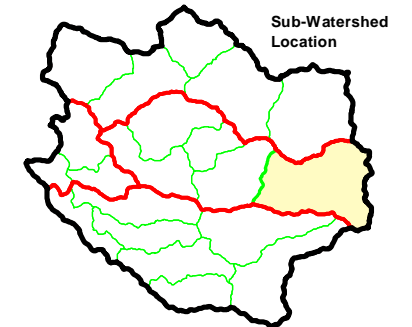
Streams

Perennial

Intermittent

Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



4

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Prepared By
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Scale: 1 = 48,000

August 3, 2000

2000 0 2000 4000 Feet

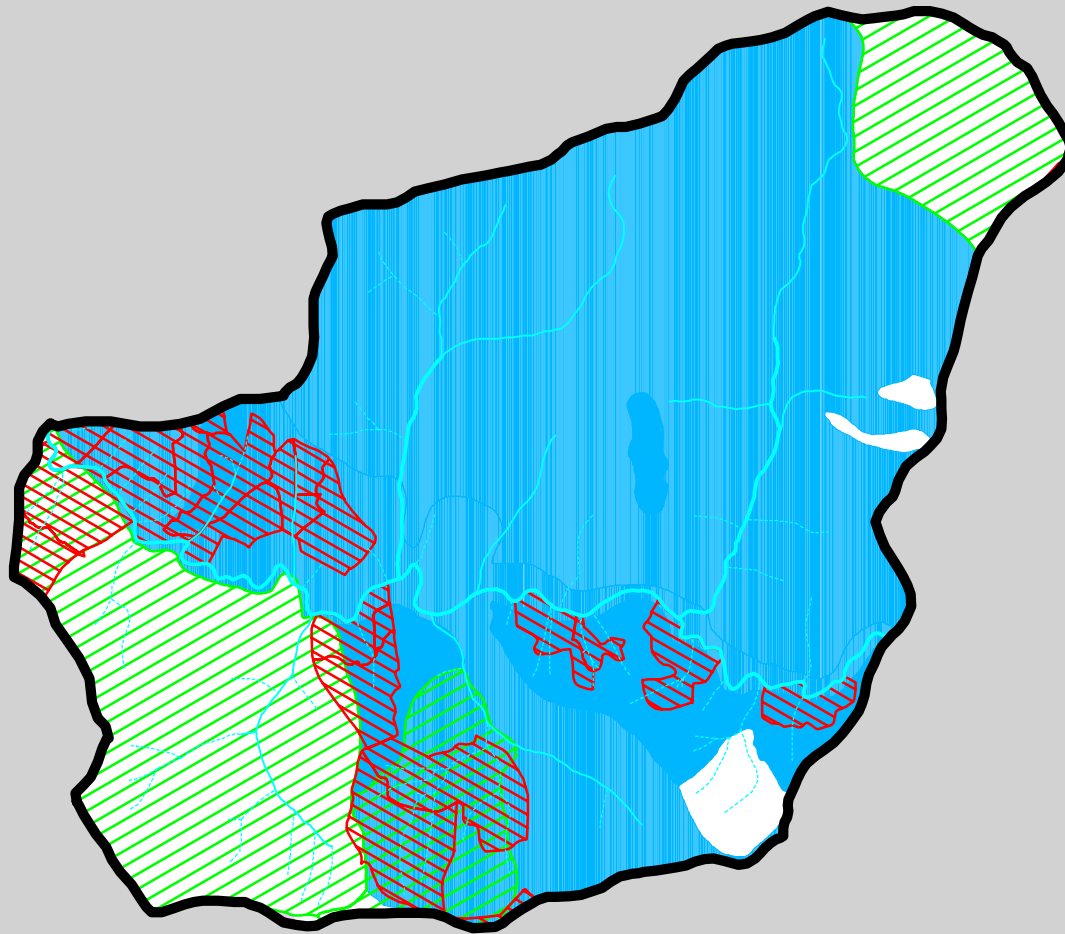
500 0 500 1000 Meters

APPENDIX C - 7

TEN MILE RIVER WATERSHED

Middle Middle Fork

Ten Mile Sub-Watershed



Watershed Boundary

Sub-Watersheds

Harvest Areas

1941

1952

1965

1978

1988

1999

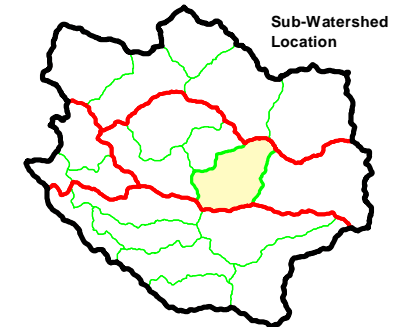
Streams

Perennial

Intermittent

Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000

August 3, 2000

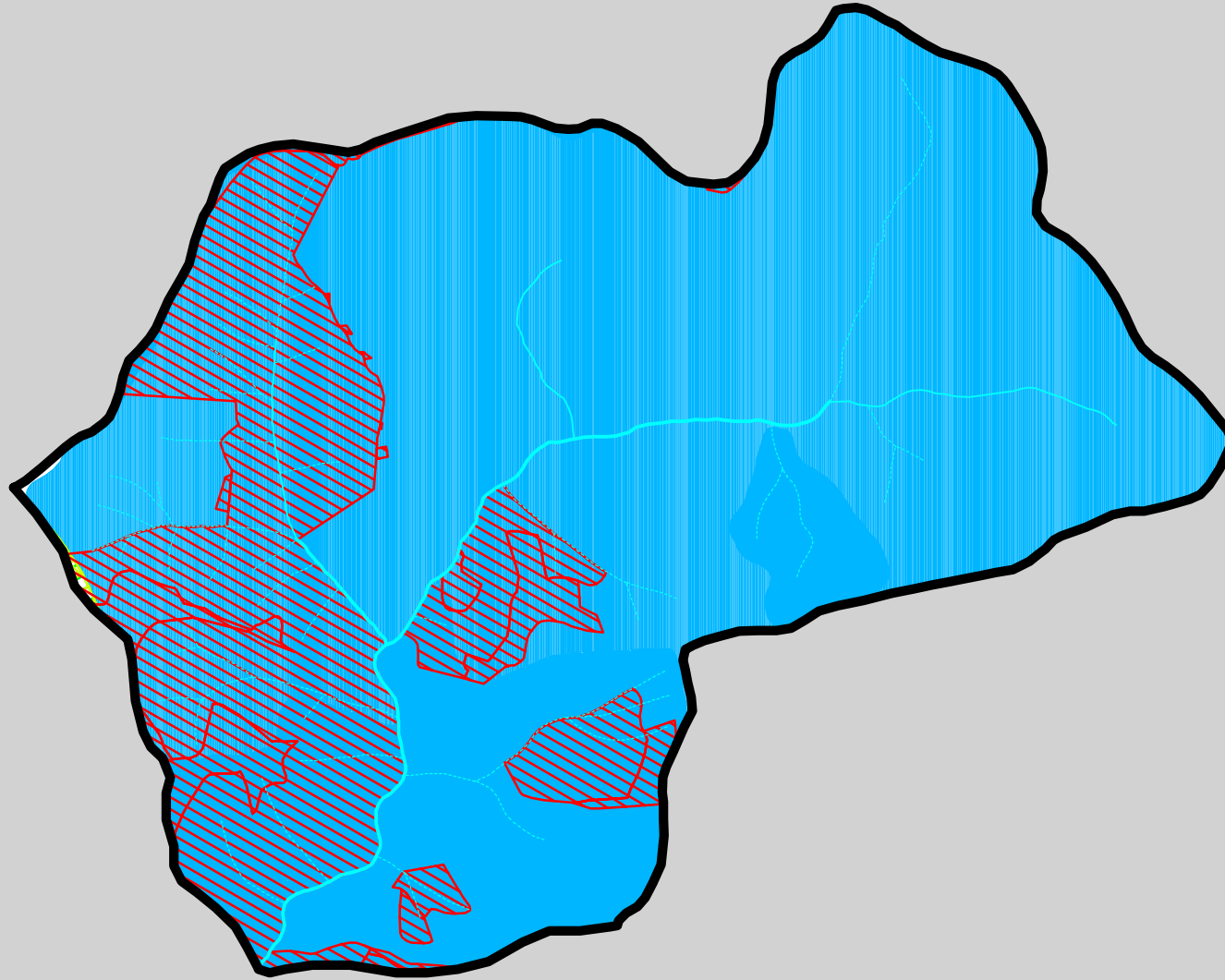
2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX C - 8

TEN MILE RIVER WATERSHED

Little Bear Haven Creek Sub-Watershed



Watershed Boundary

Sub-Watersheds

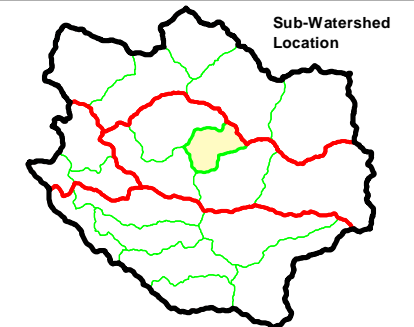
Harvest Areas

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



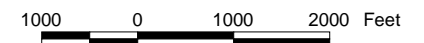
4

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Graham Matthews & Associates

Prepared By
Trinity County Resource Conservation District

Scale: 1 = 24,000

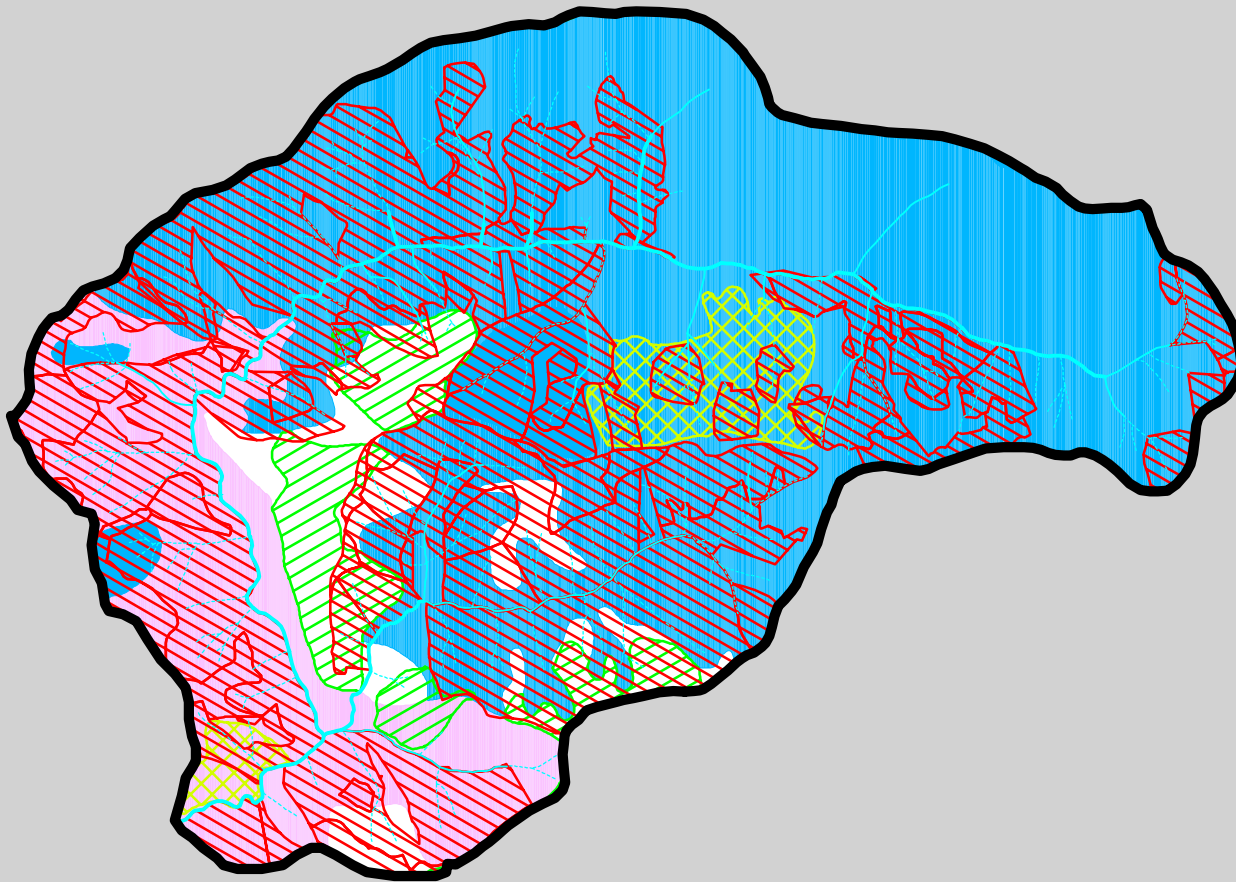
August 3, 2000



APPENDIX C - 9

TEN MILE RIVER WATERSHED

Bear Haven Creek Sub-Watershed



Watershed Boundary

Sub-Watersheds

Harvest Areas

1941

1952

1965

1978

1988

1999

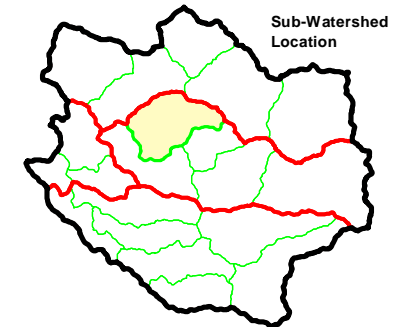
Streams

Perennial

Intermittent

Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



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Presented By
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Prepared By
Trinity County Resource Conservation District

Scale: 1 = 40,000

August 3, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX C - 10

TEN MILE RIVER WATERSHED

Lower Middle Fork

Ten Mile Sub-Watershed

 Watershed Boundary

 Sub-Watersheds

Harvest Areas

 1941

 1952

 1965

 1978

 1988

 1999

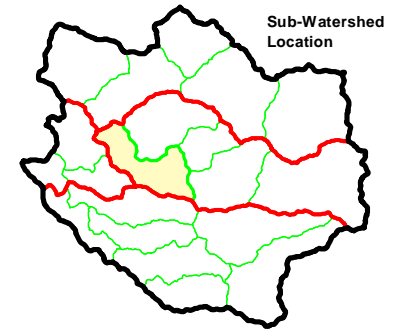
Streams

 Perennial

 Intermittent

 Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



Presented By
Graham Matthews & Associates
Prepared By
Trinity County Resource Conservation District

Scale: 1 = 40,000

August 3, 2000



APPENDIX C - 11

TEN MILE RIVER WATERSHED

Upper South Fork

Ten Mile Sub-Watershed

 Watershed Boundary

 Sub-Watersheds

Harvest Areas

 1941

 1952


 1965

 1978

 1988

 1999

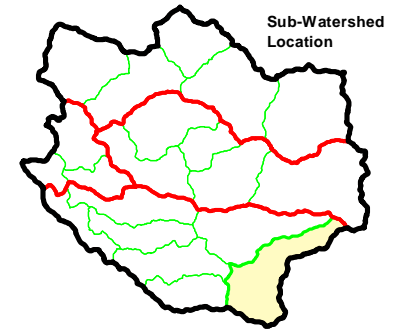
Streams

 Perennial

 Intermittent

 Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



4

Presented By
Graham Matthews & Associates

Prepared By
Trinity County Resource Conservation District

Scale: 1 = 48,000

August 3, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX C - 12







TEN MILE RIVER WATERSHED

Redwood Creek Sub-Watershed




 Watershed Boundary

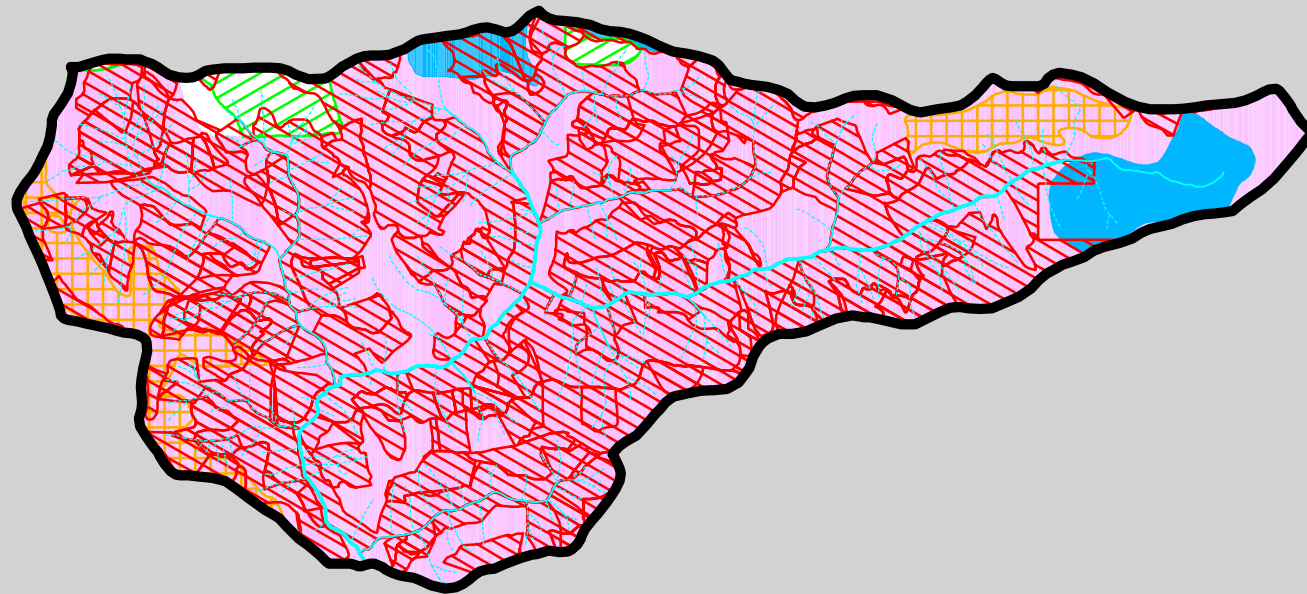
 Sub-Watersheds

Harvest Areas

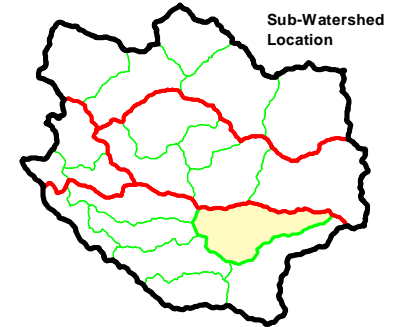
-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral



Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



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August 3, 2000

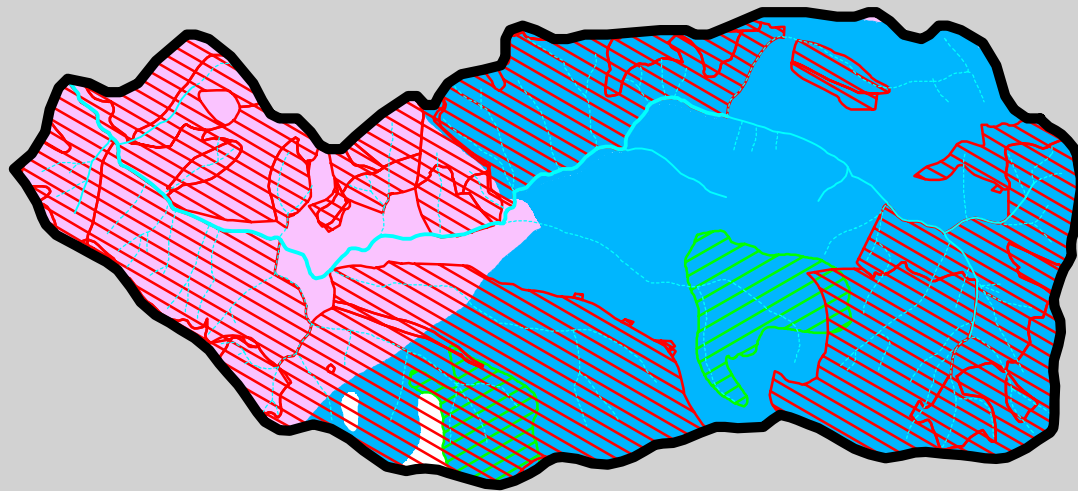
2000 0 2000 4000 6000 Feet

500 0 500 1000 1500 Meters

APPENDIX C - 13

TEN MILE RIVER WATERSHED

Churchman Creek Sub-Watershed



Watershed Boundary

Sub-Watersheds

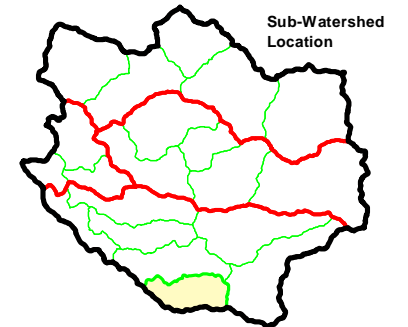
Harvest Areas

- 1941
- 1952
- 1965
- 1978
- 1988
- 1999

Streams

- Perennial
- Intermittent
- Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
 Additional Harvest Data & Location: John Coyle & Assoc.



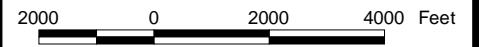
4

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Trinity County Resource Conservation District

Scale: 1 = 40,000

August 3, 2000

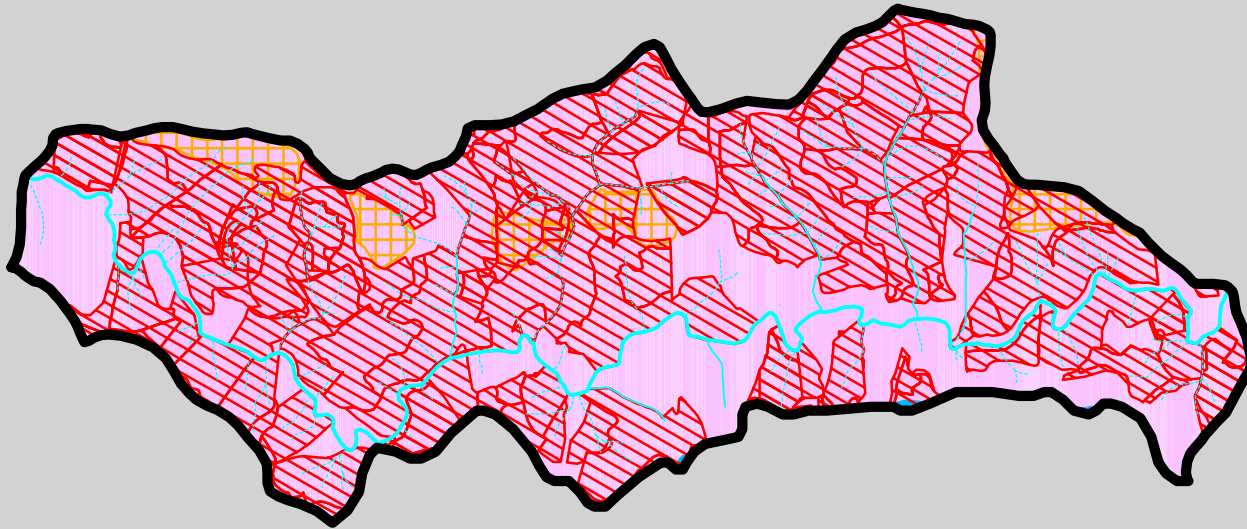


APPENDIX C - 14

TEN MILE RIVER WATERSHED

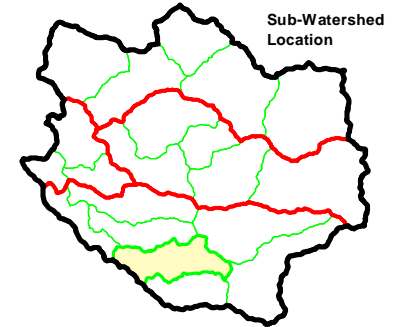
Middle South Fork

Ten Mile Sub-Watershed



- Watershed Boundary
 - Sub-Watersheds
- | Harvest Areas | Streams |
|---------------|--------------|
| 1941 | Perennial |
| 1952 | Intermittent |
| 1965 | Ephemeral |
| 1978 | |
| 1988 | |
| 1999 | |

Basemap Data Source: Calif. Dept. of Forestry
 Additional Harvest Data & Location: John Coyle & Assoc.



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Scale: 1 = 48,000

August 3, 2000

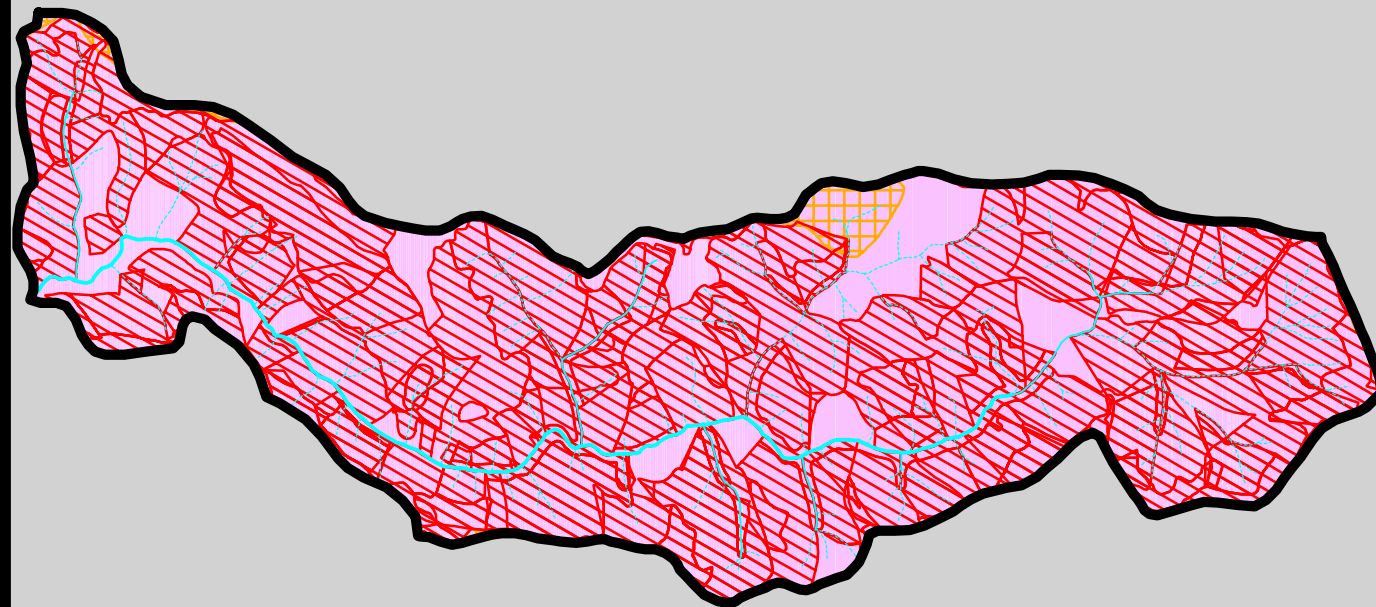
2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX C - 15

TEN MILE RIVER WATERSHED

Campbell Creek Sub-Watershed



Watershed Boundary

Sub-Watersheds

Harvest Areas

1941

1952

1965

1978

1988

1999

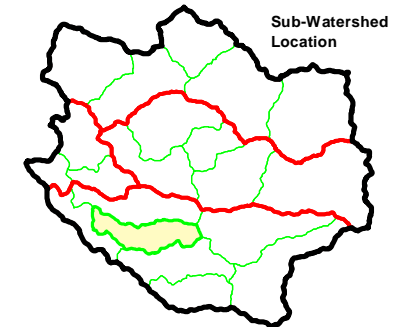
Streams

Perennial

Intermittent

Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



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Scale: 1 = 40,000

August 3, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX C - 16

TEN MILE RIVER WATERSHED

Smith Creek Sub-Watershed

 Watershed Boundary

 Sub-Watersheds

Harvest Areas

 1941

 1952

 1965


 1978


 1988

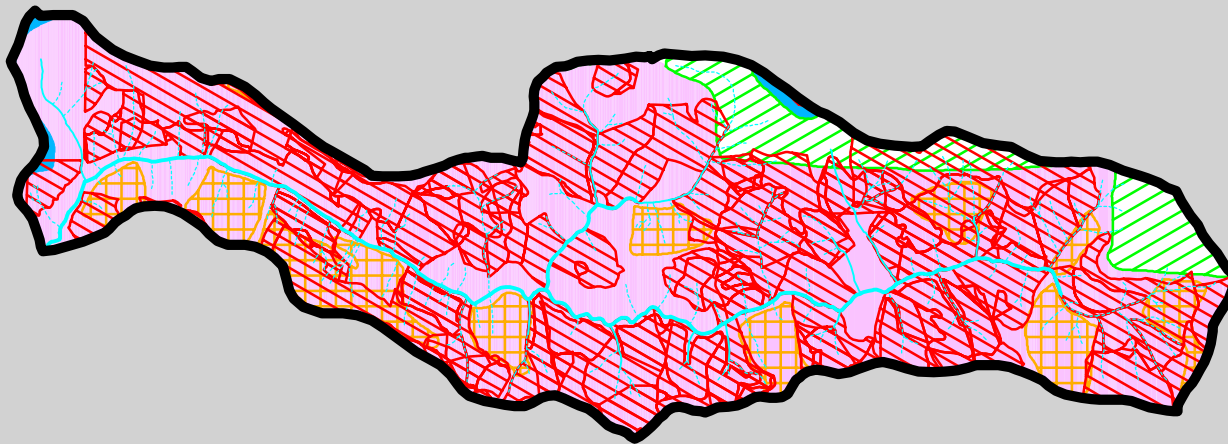
 1999

Streams

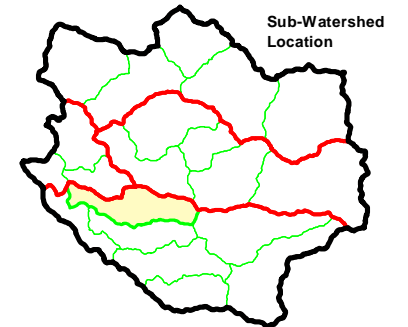
 Perennial

 Intermittent

 Ephemeral



Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



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Scale: 1 = 54,000

August 3, 2000

2000 0 2000 4000 6000 Feet

500 0 500 1000 1500 Meters

APPENDIX C - 17

TEN MILE RIVER WATERSHED







Lower South Fork

Ten Mile Sub-Watershed




 Watershed Boundary

 Sub-Watersheds

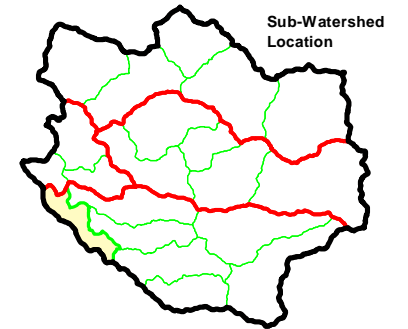
Harvest Areas

-  1941
-  1952
-  1965
-  1978
-  1988
-  1999

Streams

-  Perennial
-  Intermittent
-  Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
 Additional Harvest Data & Location: John Coyle & Assoc.



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Trinity County Resource Conservation District

Scale: 1 = 30,000

August 3, 2000

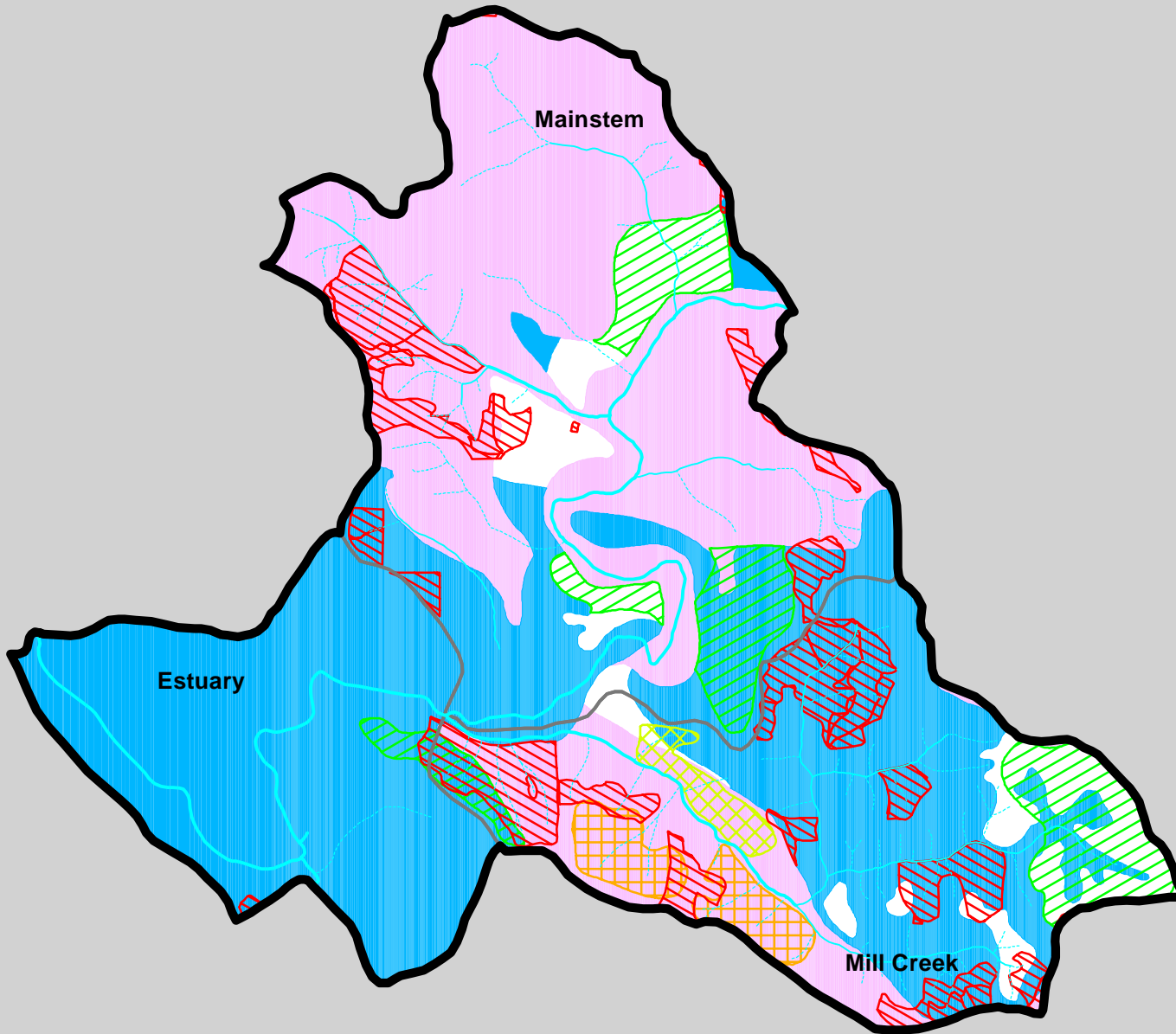
1000 0 1000 2000 3000 Feet

250 0 250 500 750 Meters

APPENDIX C - 18

TEN MILE RIVER WATERSHED

Mainstem Ten Mile River Sub-Watersheds



Watershed Boundary

Sub-Watersheds

Harvest Areas

1941

1952

1965

1978

1988

1999

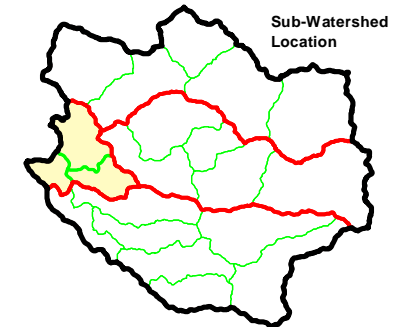
Streams

Perennial

Intermittent

Ephemeral

Basemap Data Source: Calif. Dept. of Forestry
Additional Harvest Data & Location: John Coyle & Assoc.



4

Presented By
**Graham Matthews
& Associates**

Prepared By
**Trinity County Resource
Conservation District**

Scale: 1 = 42,000

August 3, 2000

2000 0 2000 4000 Feet

500 0 500 1000 Meters

APPENDIX D
AERIAL PHOTOGRAPHY USED

9/28/41	1:20,000	CVN-48-65 to 72	B/W
10/6/41	1:20,000	CVN-5B-104 to 111	B/W
2/8/41	1:20,000	CVN-13B-81 to 84	B/W
2/10/42	1:20,000	CVN-14B-100 to 108	B/W
8/25/42	1:20,000	CVN-18B-104 to 111	B/W

(1941-42 source: purchased from National Archives, donated to UC Berkeley Earth Sciences Library at completion of project)

7/5/52	1:20,000	CVN 5K-21 to 29	B/W
7/6/52	1:20,000	CVN 6K-85 to 97	B/W
		CVN 6K-165 to 169	
		CVN 7K-65 to 74	
		CVN 7K-136 to 143	
7/28/52	1:20,000	CVN 12K-181 to 185	B/W
		CVN 13K-17 to 23	
8/15/52	1:20,000	CVN 16K-184 to 197	B/W

(1952 source: Mendocino County Museum)

7/21/65	1:20,000	5FF-45 to 51	B/W
		5FF-57 to 64	
		5FF-111 to 114	
		5FF-146 to 148	
7/22/65	1:20,000	6FF-38 to 46	B/W
		6FF-47 to 56	
		6FF-150 to 151	

		6FF-137 to 147	
		6FF-241 to 243	
8/27/65	1:20,000	7FF-54 to 56	B/W
9/10/65	1:20,000	11FF-48 to 51	B/W
		11FF-53 to 55	
		11FF-104 to 106	
		11FF-158 to 163	
		11FF-165 to 171	

(1965 source: NRCS, Ukiah)

1978	1:24,000	27 to 32	B/W
		25A to 32A	
		67 to 70	
		110 to 116	
		112A to 116A	

(1978 source: NRCS, Ukiah)

1988	1:31,680	15-213 to 218	B/W
		21-124 to 127	
		21-31 to 34	
		24-143 to 148	
		27-53 to 62	
		27-90 to 98	
		27-126 to 135	
		27-159 to 166	

(1988 source: CDMG, Santa Rosa)

10/29/99	1:24,000	1-1 to 8	B/W
		2-1 to 11	
		3-2 to 11	
		4-1 to 12	

5-1 to 12

6-2 to 11

7-2 to 11

8-2 to 6

(1999 source: flown specially for this project by WAC, donated to UC Berkeley Earth Sciences Library at completion of project)