

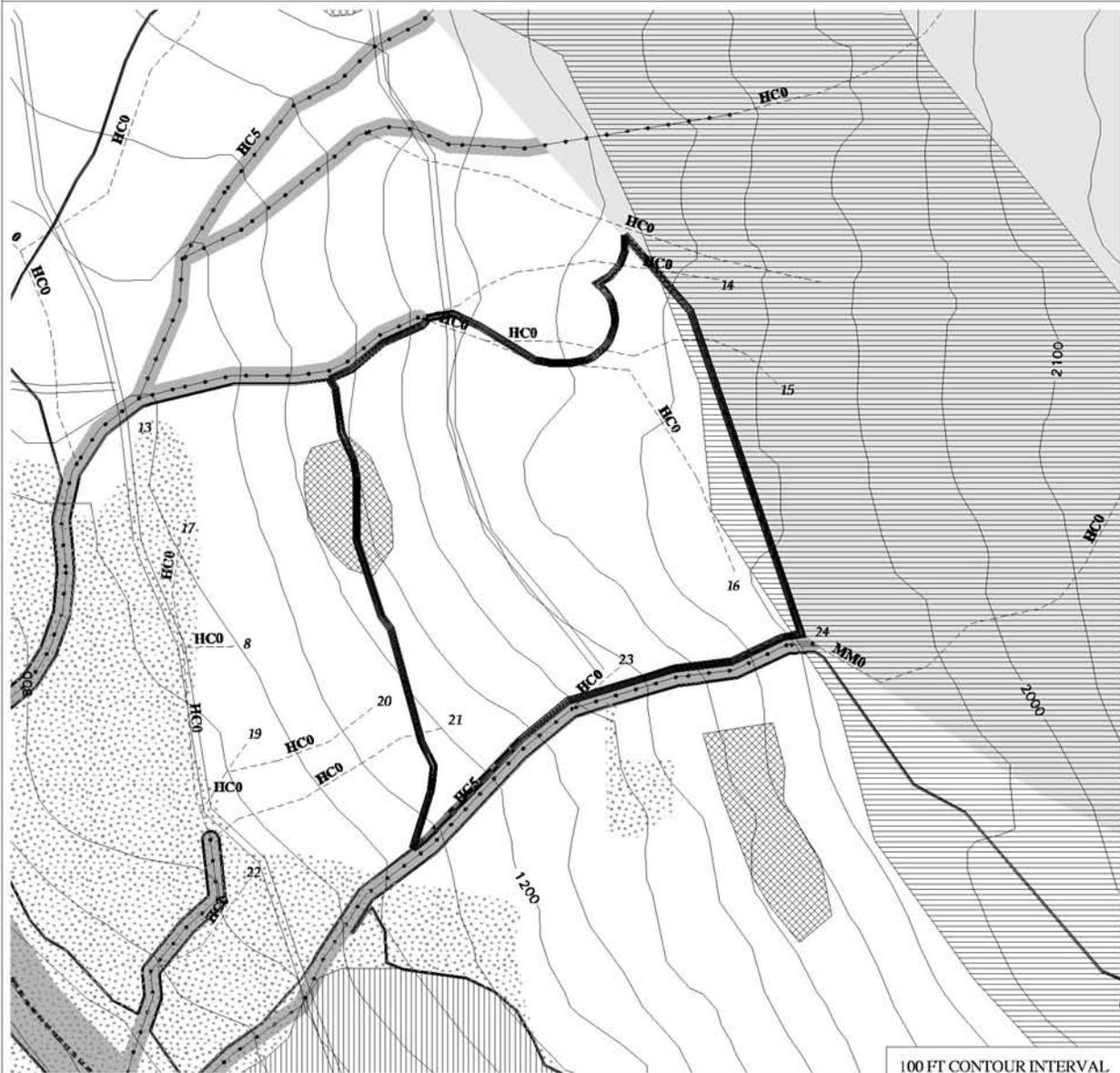
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 124 VCU: 2100 HARVEST SYSTEM: Cable

UNIT 124 OCCURS IN ALTERNATIVE(S): 2



MAPSCALE 1:7200

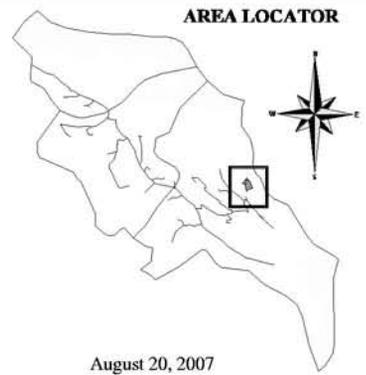


100 FT CONTOUR INTERVAL

- Existing Harvest Unit with Year Harvested
- Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road 85343
- Temporary Road
- Existing NFS Road 8530
- NFS Road Reconstruction 8534
- Class I Stream
- Class II Stream

- Class III Stream
- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes Greater Than 72%
- Existing Rock Pit

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- HC6
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August 20, 2007

Unit Data Card – Iyouktug Timber Sale Draft EIS
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Unit Number:	124	In Alternatives:	2	Total Unit Acres:	40.6	Vol Strata Acres:	High: 6.3 Med: 34.3 Low: 0
VCU Number:	2100	Harvest System:	C	Net Estimated Harvest Volume (MBF):	932	Prescription /Percent Retention:	CC

Summary of Concerns, Responses, BMPs and Mitigation
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SILVICULTURE:

<p>Existing Stand Condition/Vegetation: Stand consists of 12-36" DBH mountain hemlock (39% BA), 9-30" DBH western hemlock (26% BA) and 16-40" DBH spruce (34% BA). Several muskegs and open areas occur throughout the unit. Wind risk is moderate to high throughout unit.</p>
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<p>Silvicultural Objective/Desired Future Condition: Create an even-aged managed stand of the same species composition as the original stand that meets Forest Plan scenery and high value marten habitat requirements, uses an economical regeneration method, and is windfirm, free of mistletoe infection and growing at full site potential.</p>

<p>Silvicultural Prescription: Even-aged management – clearcut: This unit contains stream buffers and RAW zone along the southeastern boundary (refer to fish/watershed section). For RAW zone retain trees less than 16" DBH within specified distance (refer to fish/watershed section) from windward (southeasterly) edge of stream buffers to minimize windthrow in buffer. A high wind risk boundary may be created in the NW side of unit using the RAW zone criteria above. Review during layout to determine if windfirming is warranted. This unit contains greater than 2 acres of high value marten habitat. Designate reserve trees of sufficient size and condition within high value marten habitat to meet marten standards and guidelines. Clump trees where possible adjacent to stream buffer as specified under wildlife section.</p>

<p>TIMBER/LOGGING: This unit is comprised of two cable settings that are defined by a logical setting break based on topography and lateral yarding capabilities.</p>
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<p>ENGINEERING/ROADS: Temporary road 85344 accesses unit from existing Road 8534. New construction of 85344 begins after 0.19 miles of reconstruction. The portion of the proposed temporary road between Unit 123 and 124 crosses slopes greater than 67%; this should be a designed section of road and a soil scientist must be involved in the design (see Soils/Wetlands). Road location has been flagged. Deviations to flagged route must be approved by USFS prior to construction.</p>
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<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: Concern: Stream 14 (lower) and 24 are Class III HC channels. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). Concern: Stream 14 (upper), 15, 16 (upper) and 23 are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Concern: Lower 400 feet of Stream 16 is in unstable v-notch. Response: split-yard or full suspension to protect side-slopes. Concern: Windthrow risk is high. Response: Manage for windfirmness 120 feet beyond no-cut buffers. Concern: Temporary road – stream crossings Response: crossing structures and locations will be approved by USFS prior to construction. Upon completion of unit harvest, restore natural drainage patterns by removing road fill from channels and installing water bars as necessary (BMP 13.16). Seed and fertilize disturbed soil adjacent to streams (BMP 12.17).</p>

<p>GEOLOGY/KARST: Concern: There are about 2 acres of moderate vulnerability karst along the eastern boundary of Unit 124. Response: A minimum of partial suspension is required to meet karst resource objectives (BMP 13.9).</p>
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<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

Summary of Concerns, Responses, BMPs and Mitigation

SOILS/WETLANDS: Slopes range from 20-75% slope in Unit 124. There are about 2 acres of slopes over 72%. This is a small bench along the boundary between 124 and 122. The soils are well drained over bedrock. There are no signs of instability, hollow topography or other unstable terrain or past landslides. Any landslide that could occur here would not enter a stream or waterbody. This small area can be harvested using full suspension from the uphill road location (use uphill yarding only). The rest of Unit 124 requires a minimum of partial suspension to meet soil quality standards (BMP 13.9). **Concern:** The portion of the proposed temporary road between Unit 123 and 124 crosses slopes greater than 67%. **Response:** This should be a designed section of road and a soil scientist must be involved in the design with the Sale Administrator and Transportation Engineer. Endhaul with full bench required (BMP 14.12 and 14.19). This is a highly erodible area with a high likelihood of sediment entering a class III stream. Manage this area to reduce sedimentation and landslide risk (BMP 14.7, 14.8). Provide adequate drainage and ditching to reduce the risk of landslides (BMP 14.9).

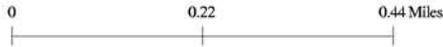
WILDLIFE: Concern: Unit contains high value marten habitat. **Response:** Retain 10-20% of original stand structure as measured by basal area or trees per acre in high value marten habitat. Maintain an average of 4 large live trees/acre (20-30" DBH or larger), 3 snags or decadent trees/acre (20-30" DBH or larger), and 3 large, downed trees/acre (20-30" DBH or larger and 10 feet long). Where trees this large are not available, substitute next largest trees. Retained trees can be clumped to maintain a reasonable assurance of windfirmness and to minimize operational difficulties. **Concern:** Red-tailed hawk observed adjacent to unit. **Response:** Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nest sites if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.

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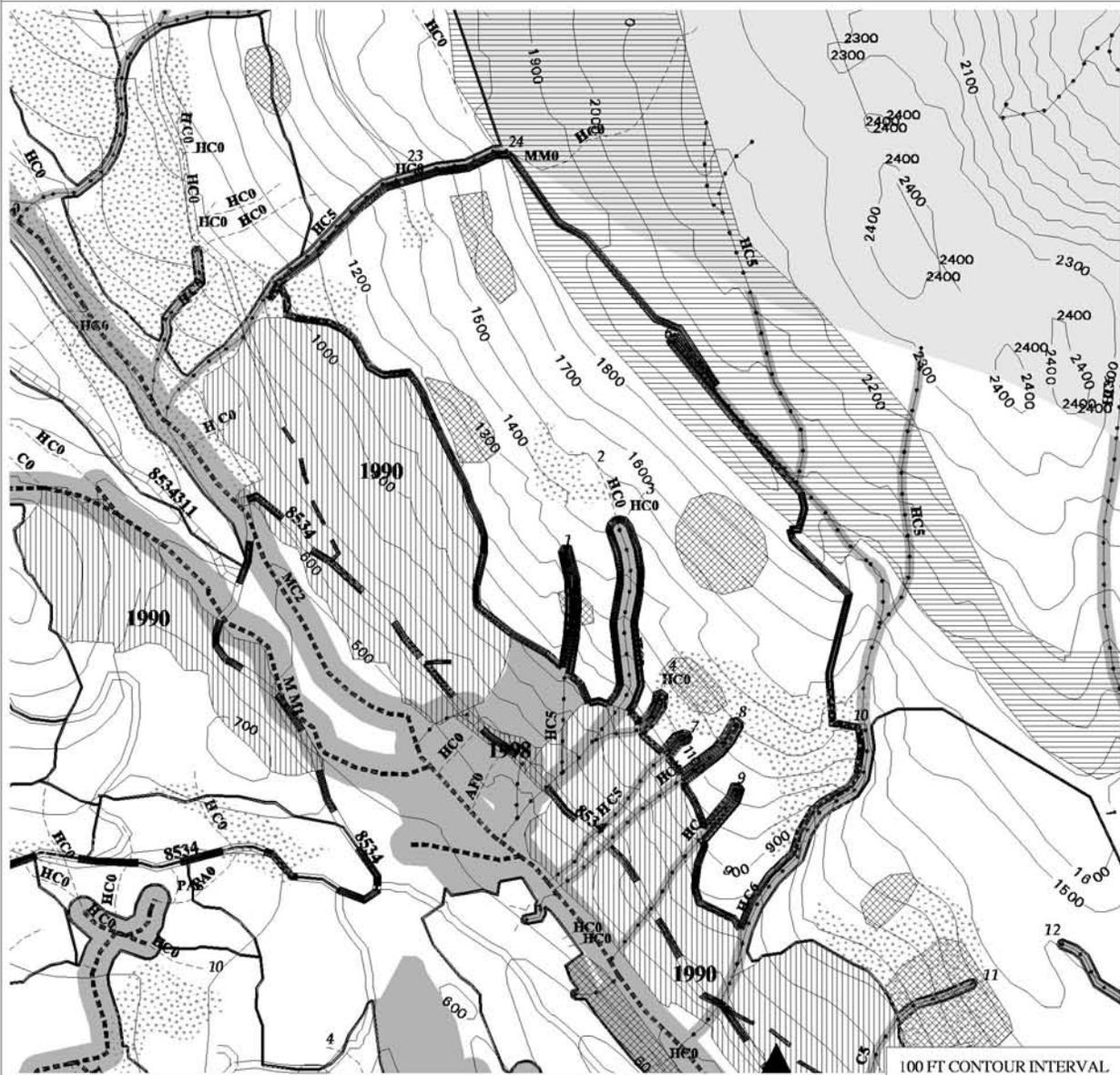
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 125 VCU: 2100 HARVEST SYSTEM: Helicopter

UNIT 125 OCCURS IN ALTERNATIVE(S): 2 3



MAPSCALE 1:14000

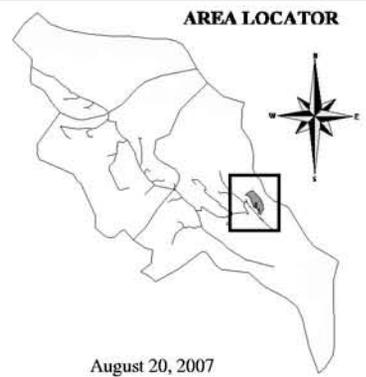


100 FT CONTOUR INTERVAL

- Existing Harvest Unit with Year Harvested
- Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road 85343
- Temporary Road
- Existing NFS Road 8530
- NFS Road Reconstruction 8534
- Class I Stream
- Class II Stream

- Class III Stream
- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes Greater Than 72%
- Existing Rock Pit

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- HC6
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Unit Data Card – Iyouktug Timber Sale Draft EIS
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Unit Number:	125	In Alternatives:	2, 3	Total Unit Acres:	185.2	Vol Strata Acres:	High: 80.5 Med: 104.7 Low: 0
VCU Number:	2100	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	2,482	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation
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SILVICULTURE:

<p>Existing Stand Condition/Vegetation: Stand consists of 12-36" DBH mountain hemlock (39% BA), 9-30" DBH western hemlock (26% BA) and 16-40" DBH spruce (35% BA). The eastern side of the unit is at higher elevation and contains several avalanche chutes on steeper slopes. The western side of the unit supports higher volume, especially spruce. Wind risk is high throughout unit.</p>

<p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.</p>

<p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (319 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information. This unit contains stream buffers with RAW zones. For RAW zone retain trees less than 16" DBH within specified distance (refer to fish/watershed section) from windward (southeasterly) edge of stream buffers to minimize windthrow in buffer.</p>
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<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>

<p>ENGINEERING/ROADS: N/A</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: 24, 1, 2 (lower), 4, 6,7,8, 9 and 10 are Class III HC channels. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). Manage for windfirmness 120 feet beyond no-cut buffer along southeasterly edge of v-notches. Concern: Streams 2 (upper) and 3 are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14).</p>

<p>GEOLOGY/KARST: Concern: There are about 19 acres of moderate vulnerability karst along the eastern boundary of Unit 125. Response: A minimum of partial suspension is required to meet karst resource objectives (BMP 13.9).</p>
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<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

<p>SOILS/WETLANDS: Slopes range from 30-100% with 65% being the median gradient. Slopes frequently exceed 72% slope in Unit 125. There are about 17 acres of slopes over 72%. These slopes are well-drained, steep and benchy with several exposed rock outcrops. Brush slopes are common at these elevations (above 1500 feet). There are no signs of instability on slopes below 1500 feet elevation.</p>
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<p>Concern: Some landslides may initiate on the slopes greater than 72% and enter streams or waterbodies. Response: Do not harvest any slopes greater than 72% within the RAW zone. Slopes up to 80% may be harvested with the proposed helicopter prescription. Avoid slopes greater than 80% in Unit 185. Concern: Harvest on slopes greater than 72% adjacent to brush slopes may cause landslides in timbered areas. Response: Do not harvest slopes over 72% on elevations above 1500 feet elevation. (BMP 13.5, 13.9). An onsite analysis for suitability on slopes over 72% was conducted on this unit as per Forest Plan Standards (soil resource report).</p>
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Summary of Concerns, Responses, BMPs and Mitigation

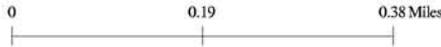
WILDLIFE: Concern: Unit contains high value marten habitat. High deer use was observed in the south end of the unit. **Response:** Proposed harvest system will not create openings greater than 2 acres in size within this habitat. Retention of 60% of the basal area will meet marten standards and guidelines and help to maintain deer habitat. **Concern:** Red-tailed hawk and sharp-shinned hawk were observed in or adjacent to unit. **Response:** Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nest sites if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.

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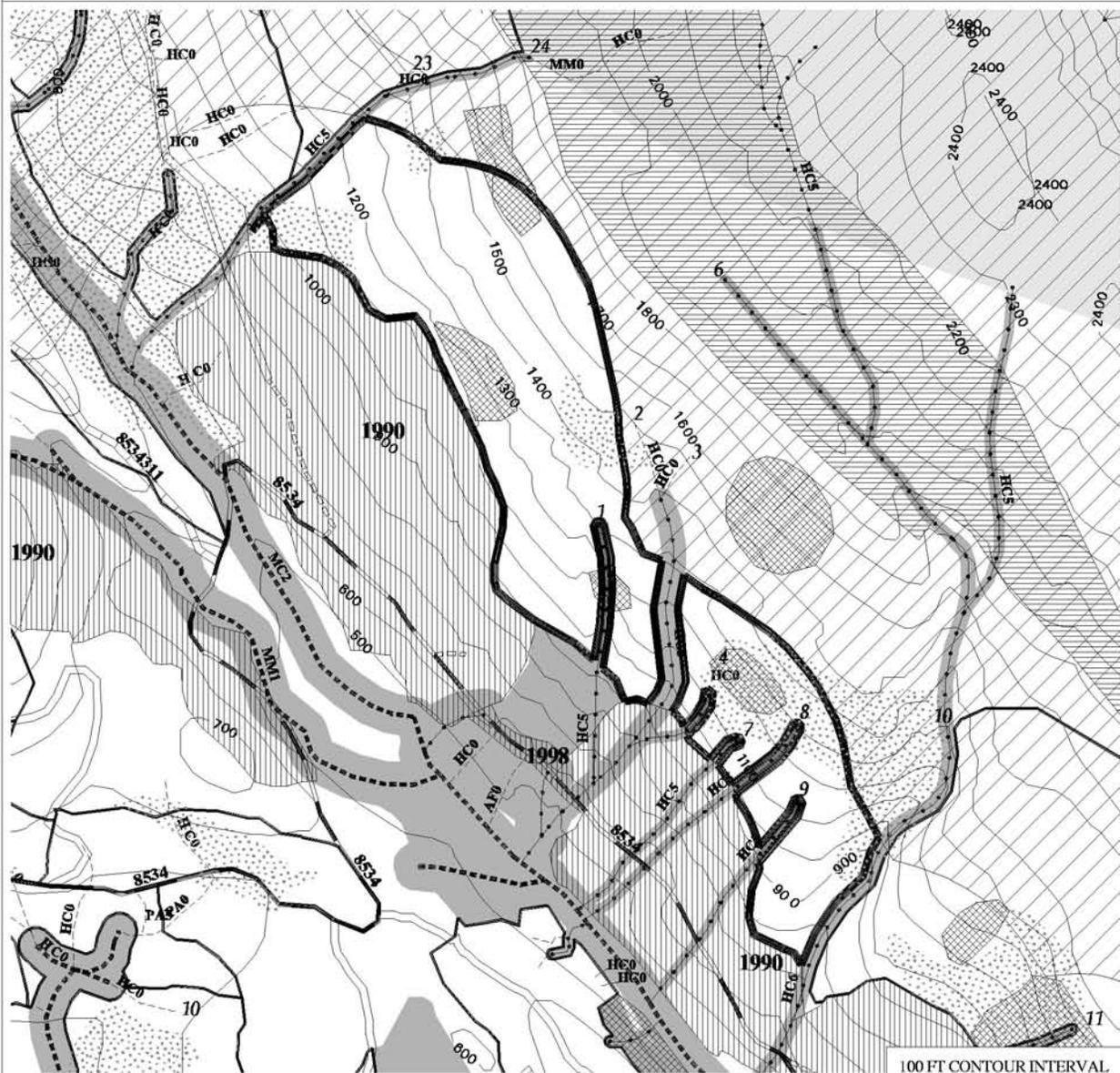
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 125 VCU: 2100 HARVEST SYSTEM: Helicopter

UNIT 125 OCCURS IN ALTERNATIVE(S): 4



MAPSCALE 1:12000



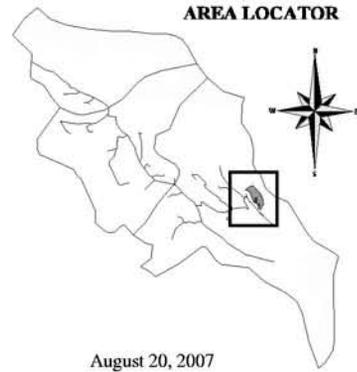
100 FT CONTOUR INTERVAL

- Existing Harvest Unit with Year Harvested Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road 85343
- Temporary Road
- Existing NFS Road 8530
- NFS Road Reconstruction 8534
- Class I Stream
- Class II Stream
- Class III Stream

- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Inventoried Roadless
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes > 72%
- Existing Rock Pit

- HC6
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AREA LOCATOR



August 20, 2007

Unit Data Card – Iyouktug Timber Sale Draft EIS
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Unit Number:	125	In Alternatives:	4	Total Unit Acres:	95.5	Vol Strata Acres:	High: 23.1 Med: 72.4 Low: 0
VCU Number:	2100	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	1,200	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation
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SILVICULTURE:

Existing Stand Condition/Vegetation: Stand consists of 12-36" DBH mountain hemlock (39% BA), 9-30" DBH western hemlock (26% BA) and 16-40" DBH spruce (35% BA). The eastern side of the unit is at higher elevation and contains several avalanche chutes on steeper slopes. The western side of the unit supports better volume, especially spruce. Wind risk is high throughout unit.

Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.

Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (319 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. This unit contains stream buffers with RAW zones. For RAW zone retain trees less than 16" DBH within specified distance (refer to fish/watershed section) from windward (southeasterly) edge of stream buffers to minimize windthrow in buffer. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.

TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.

ENGINEERING/ROADS: N/A

BOTANY RESOURCES: No concerns

FISH/WATERSHED: 24, 1, 2 (lower), 4, 6,7,8, 9 and 10 are Class III HC channels. **Response:** Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). Manage for windfirmness 120 feet beyond no-cut buffer along southeasterly edge of v-notches. **Concern:** Streams 2 (upper) and 3 are Class IV HC channels. **Response:** Category C protection (BMP 12.6, 13.14).

GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.

HERITAGE RESOURCES: No concerns

SCENERY/RECREATION: No concerns

SOILS/WETLANDS: Slopes range from 30-100% with 65% the median gradient. Slopes frequently exceed 72% slope in Unit 125. There are about 10 acres of slopes over 72%. These slopes are well-drained, steep and benchy with several exposed rock outcrops. Brush slopes are common at these elevations (above 1500 feet). There are no signs of instability on slopes below 1500 feet elevation.

Concern: Some landslides may initiate on the slopes greater than 72% and enter streams or waterbodies.

Response: Do not harvest any slopes greater than 72% within the RAW zone. Slopes up to 80% may be harvested with the proposed helicopter prescription. Avoid slopes greater than 80% in Unit 185. **Concern:** Harvest on slopes greater than 72% adjacent to brush slopes may cause landslides in timbered areas.

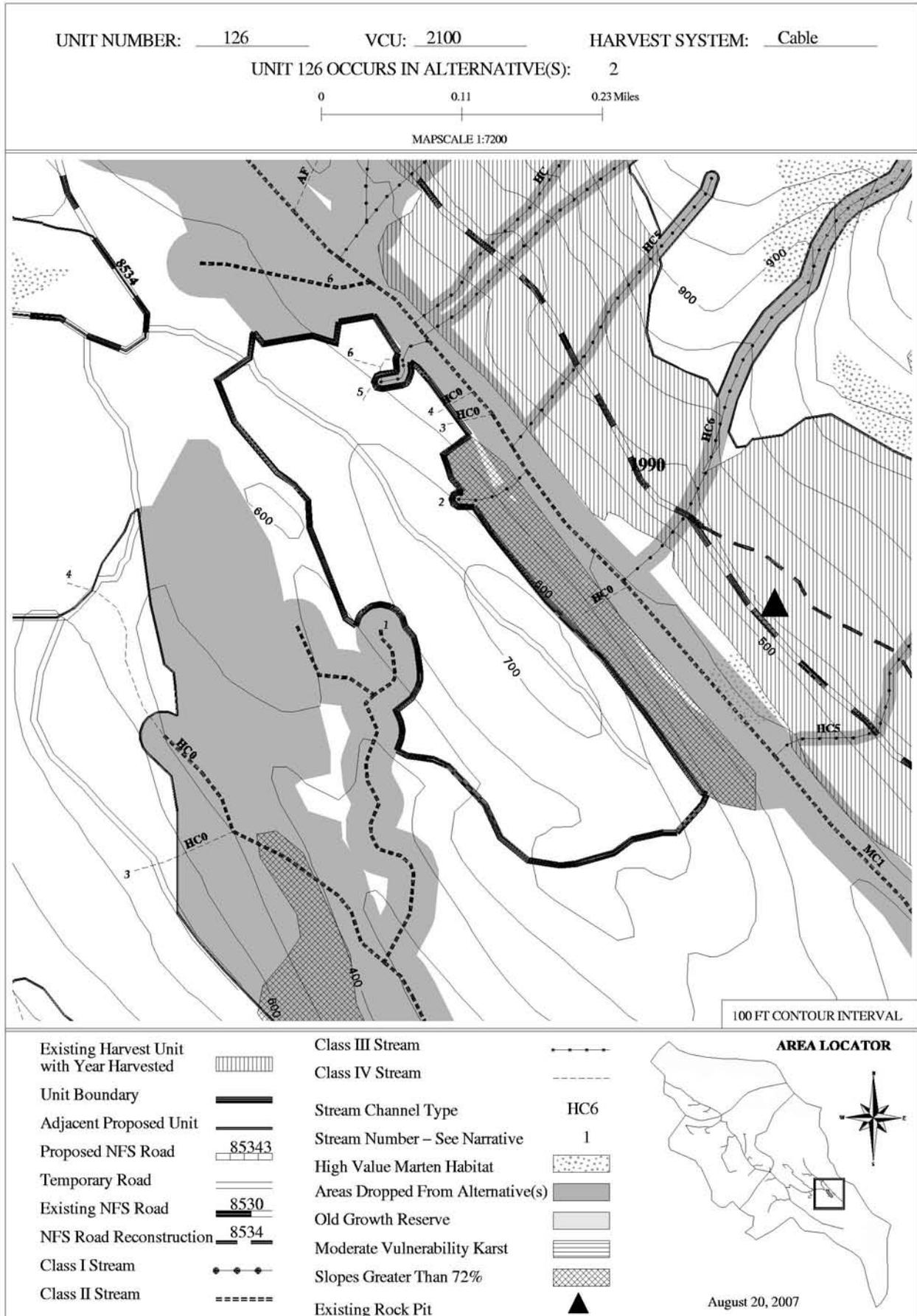
Response: Do not harvest slopes over 72% on elevations above 1500 feet elevation. (BMP 13.5, 13.9). An onsite analysis for suitability on slopes over 72% was conducted on this unit as per Forest Plan Standards (soil resource report).

Summary of Concerns, Responses, BMPs and Mitigation

WILDLIFE: Concern: Unit contains high value marten habitat. High deer use was observed in the south end of the unit. **Response:** Proposed harvest system will not create openings greater than 2 acres in size within this habitat. Retention of 60% of the basal area will meet marten standards and guidelines and help to maintain deer habitat. **Concern:** Red-tailed hawk and sharp-shinned hawk were observed in or adjacent to unit. **Response:** Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nest sites if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.

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IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sale Draft EIS
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Unit Number:	126	In Alternatives:	2	Total Unit Acres:	42.2	Vol Strata Acres:	High: 0 Med: 40.8 Low: 1.4
VCU Number:	2100	Harvest System:	C	Net Estimated Harvest Volume (MBF):	930	Prescription /Percent Retention:	CC

Summary of Concerns, Responses, BMPs and Mitigation
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SILVICULTURE:

<p>Existing Stand Condition/Vegetation: Stand consists 12-30" DBH western hemlock (53% BA), 12-28" DBH mountain hemlock (25% BA), and 12-40" DBH spruce (23% BA). The topography is a ridgetop and sideslope with steeper slopes (55%) in the southeastern corner. Wind risk is high throughout unit. There is a small area of older blowdown towards the southern end of unit.</p>
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<p>Silvicultural Objective/Desired Future Condition: Create an even-aged managed stand of the same species composition as the original stand that meets Forest Plan scenery and high value marten habitat requirements, uses an economical regeneration method, and is windfirm, free of mistletoe infection and growing at full site potential.</p>

<p>Silvicultural Prescription: Even-aged management – clearcut: This unit contains stream buffers and RAW zones. For RAW zones retain trees less than 16" DBH within specified distance (refer to fish/watershed section) from windward (southeasterly) edge of stream buffers to minimize windthrow in buffers. A high wind risk boundary may be created on the NW side of unit using the RAW zone criteria above. Review during layout to determine if windfirming is warranted</p>
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<p>TIMBER/LOGGING: This unit is comprised of three cable settings that are defined by logical setting breaks based on topography and lateral yarding capabilities.</p>

<p>ENGINEERING/ROADS: Temporary road 26 accesses unit from existing Road 8534. Road location has been flagged. Deviations to flagged route must be approved by USFS prior to construction.</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: Concern: Stream 5 and 6 are Class IV HC channels that run into a Class III HC channel. Response: Category C protection for Class IV segments. Category B protection for Class III segment. No harvest within v-notch (BMP 12.6, 13.14, RIP III). Concern: Stream 4 and 3 are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16). Concern: Stream 2 is a Class III HC channel. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). Concern: Stream 1 is a Class II HC channel. Response: Category A protection (BMP 12.6, 13.14). No harvest within 100 feet and side-slope break (RIP III). Manage 120 foot buffer along southeasterly edge of v-notch for windfirmness (RIP III).</p>
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<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>

<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

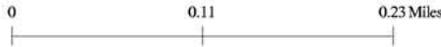
<p>SOILS/WETLANDS: Slopes along the western portion of the unit range from 20-55%. Most of the eastern portion of the unit was dropped due to slopes frequently exceeding 72% and unstable slopes (BMP 13.2, 13.5). The remaining portion of Unit 126 requires a minimum of partial suspension to meet soil quality standards. (BMP 13.9) Concern: The portion of the proposed temporary road between the intersection of 8534 and the harvest unit is a mosaic of forested wetland and muskeg. No high-value wetlands exist in this area. Response: Provide adequate cross drainage to maintain groundwater flow. Remove structures and close road after unit is harvested. (BMP 14.9) (33 CFR BMPs 4, 5, 6)</p>
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<p>WILDLIFE: Concern: Red-tailed hawk was observed in the unit. Response: Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nest sites if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.</p>

IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 126 VCU: 2100 HARVEST SYSTEM: Cable

UNIT 126 OCCURS IN ALTERNATIVE(S): 4



MAPSCALE 1:7200



100 FT CONTOUR INTERVAL

- Existing Harvest Unit with Year Harvested Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road
- Temporary Road
- Existing NFS Road
- NFS Road Reconstruction
- Class I Stream
- Class II Stream
- Class III Stream

- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Inventoried Roadless
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes > 72%
- Existing Rock Pit

- HC6
- 1



Unit Data Card – Iyouktug Timber Sale Draft EIS
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Unit Number:	126	In Alternatives:	4	Total Unit Acres:	35.5	Vol Strata Acres:	High: 0 Med: 35.2 Low: 0.3
VCU Number:	2100	Harvest System:	C	Net Estimated Harvest Volume (MBF):	789	Prescription /Percent Retention:	CC

Summary of Concerns, Responses, BMPs and Mitigation
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SILVICULTURE:

<p>Existing Stand Condition/Vegetation: Stand consists 12-30" DBH western hemlock (53% BA), 12-28" DBH mountain hemlock (25% BA), and 12-40" DBH spruce (23% BA). The topography is a ridgetop and sideslope with steeper slopes (55%) in the southeastern corner. Wind risk is high throughout unit. There is a small area of older blowdown towards the southern end of unit.</p>
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<p>Silvicultural Objective/Desired Future Condition: Create an even-aged managed stand of the same species composition as the original stand that meets Forest Plan scenery and high value marten habitat requirements, uses an economical regeneration method, and is windfirm, free of mistletoe infection and growing at full site potential.</p>

<p>Silvicultural Prescription: Even-aged management – clearcut: This unit contains stream buffers and RAW zones. For RAW zones retain trees less than 16" DBH within specified distance (refer to fish/watershed section) from windward (southeasterly) edge of stream buffers to minimize windthrow in buffers. A high wind risk boundary may be created on the NW side of unit using the RAW zone criteria above. Review during layout to determine if windfirming is warranted.</p>

<p>TIMBER/LOGGING: This unit is comprised of three cable settings that are defined by logical setting breaks based on topography and lateral yarding capabilities.</p>

<p>ENGINEERING/ROADS: Temporary road 26 accesses unit from existing Road 8534. Road location has been flagged. Deviations to flagged route must be approved by USFS prior to construction.</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: Concern: Stream 5 and 6 are Class IV HC channels that run into a Class III HC channel. Response: Category C protection for Class IV segments. Category B protection for Class III segment. No harvest within v-notch (BMP 12.6, 13.14, RIP III). Concern: Stream 4 and 3 are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16). Concern: Stream 2 is a Class III HC channel. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). Concern: Stream 1 is a Class II HC channel. Response: Category A protection (BMP 12.6, 13.14). No harvest within 100 feet and side-slope break (RIP III). Manage 120 foot buffer along southeasterly edge of v-notch for windfirmness (RIP III).</p>
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<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>

<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

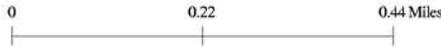
<p>SOILS/WETLANDS: Slopes along the western portion of the unit range from 20-55%. Most of the eastern portion of the unit was dropped due to slopes frequently exceeding 72% and unstable slopes (BMP 13.2, 13.5). The remaining portion of Unit 126 requires a minimum of partial suspension to meet soil quality standards. (BMP 13.9)</p>
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<p>WILDLIFE: Concern: Red-tailed hawk was observed in the unit. Response: Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nest sites if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.</p>

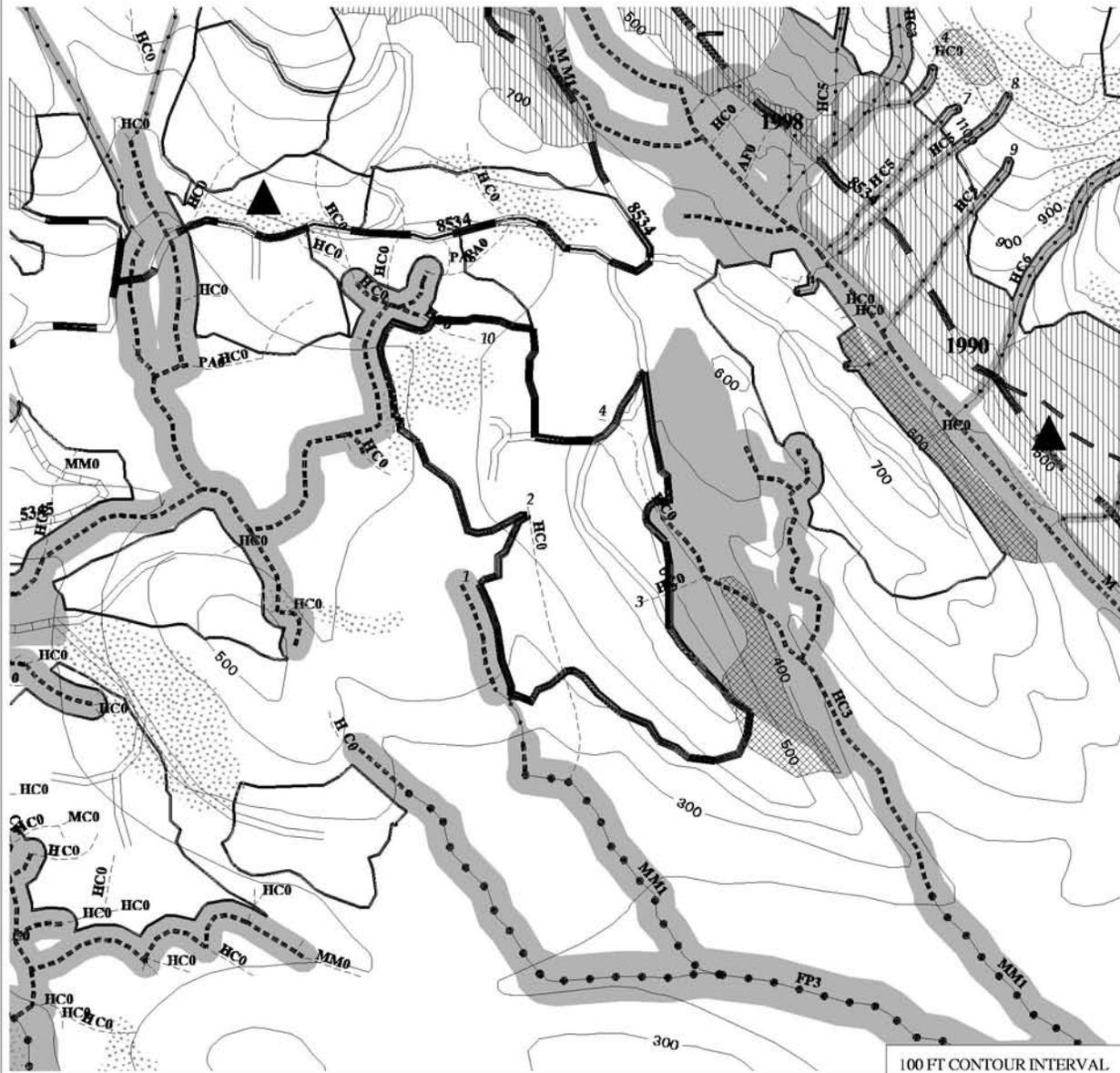
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 127 VCU: 2100 HARVEST SYSTEM: Cable

UNIT 127 OCCURS IN ALTERNATIVE(S): 2



MAPSCALE 1:14000

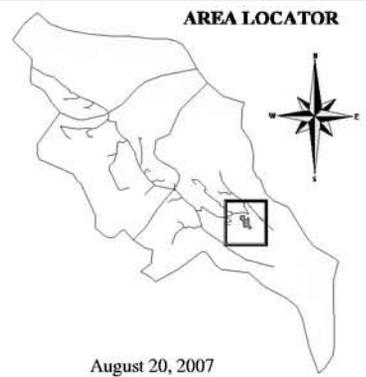


100 FT CONTOUR INTERVAL

- Existing Harvest Unit with Year Harvested
- Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road 85343
- Temporary Road
- Existing NFS Road 8530
- NFS Road Reconstruction 8534
- Class I Stream
- Class II Stream

- Class III Stream
- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes Greater Than 72%
- Existing Rock Pit

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- HC6
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August 20, 2007

Unit Data Card – Iyouktug Timber Sale Draft EIS
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Unit Number:	127	In Alternatives:	2	Total Unit Acres:	74.2	Vol Strata Acres:	High: 6.2 Med: 63.9 Low: 4.1
VCU Number:	2100	Harvest System:	C	Net Estimated Harvest Volume (MBF):	1,649	Prescription /Percent Retention:	CC

Summary of Concerns, Responses, BMPs and Mitigation
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SILVICULTURE:

Existing Stand Condition/Vegetation: Stand consists of 12-40" DBH spruce (42% BA), 12-30" DBH western hemlock (39% BA), 16-28" DBH mountain hemlock (14% BA) and scattered 24-35" DBH yellow-cedar (5% BA). The eastern portion of the unit contains considerable blowdown with regeneration estimated to be 20-50 years old. The topography is a ridgetop and sideslope with steeper slopes (55%) in the southeastern corner. Wind risk is high throughout unit.

Silvicultural Objective/Desired Future Condition: Create an even-aged managed stand of the same species composition as the original stand that meets Forest Plan scenery and high value marten habitat requirements, uses an economical regeneration method, and is windfirm, free of mistletoe infection and growing at full site potential.

Silvicultural Prescription: Even-aged management – clearcut: This unit contains stream buffers and RAW zones. For RAW zones retain trees less than 16" DBH within specified distance (refer to fish/watershed section) from windward (southeasterly) edge of stream buffers to minimize windthrow in buffers. A portion of the unit is bounded on the west and northwest by buffered streams (refer to fish/watershed section). A high wind risk boundary may be created on the NW side of unit using the RAW zone criteria above. Review during layout to determine if windfirming is warranted. This unit contains greater than 2 acres of high value marten habitat. Designate reserve trees of sufficient size and condition within high value marten habitat to meet marten standards and guidelines. Clump trees and locate in RAW zones where possible as specified under wildlife section.

TIMBER/LOGGING: This unit is comprised of three cable settings that are defined by logical setting breaks based on topography and lateral yarding capabilities.

ENGINEERING/ROADS: Temporary roads 27, 28, and 28A access unit from existing Road 8534 via temporary road 853428. Road locations have been flagged. Deviations to flagged route must be approved by USFS prior to construction.

BOTANY RESOURCES: No concerns

FISH/WATERSHED: Concern: Northern boundary stream is a Class II MM channel. **Response:** Category A protection (BMP 12.6, 13.14). No harvest within 120 feet of channel (RIP III). Manage for windfirmness 120 feet beyond buffer. **Concern:** Stream 1, 4 (lower) and 10 (lower) are Class II HC channels. **Response:** Category A protection (BMP 12.6, 13.14). No harvest within 100 feet and side-slope break (RIP III). Manage for windfirmness 120 feet beyond buffer. **Concern:** Stream 2, 3, 4 (upper) and 10 (upper) are Class IV HC channels. **Response:** Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16). **Concern:** Temporary road – stream crossings **Response:** crossing structures and locations will be approved by USFS prior to construction. Upon completion of unit harvest, restore natural drainage patterns by removing road fill from channels and installing water bars as necessary (BMP 13.16). Seed and fertilize disturbed soil adjacent to streams (BMP 12.17)

GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.

HERITAGE RESOURCES: No concerns

SCENERY/RECREATION: No concerns

Summary of Concerns, Responses, BMPs and Mitigation

SOILS/WETLANDS: Slopes along the western portion of the unit range from 20-55%. Most of the eastern portion of the unit was dropped due to slopes frequently exceeding 72% and unstable slopes (BMP 13.2, 13.5). The remaining portion of Unit 127 requires a minimum of partial suspension to meet soil quality standards. (BMP 13.9) **Concern:** The portion of the proposed temporary road between the intersection of 8534 and the harvest unit is a mosaic of forested wetland and muskeg. No high-value wetlands exist in this area. **Response:** Provide adequate cross drainage to maintain groundwater flow. Remove structures and close road after unit is harvested. (BMP 14.9) (33 CFR BMPs 4, 5, 6)

WILDLIFE: Concern: Unit contains high value marten habitat. **Response:** Retain 10-20% of original stand structure as measured by basal area or trees per acre in high value marten habitat. Maintain an average of 4 large live trees/acre (20-30" DBH or larger), 3 snags or decadent trees/acre (20-30" DBH or larger), and 3 large, downed trees/acre (20-30" DBH or larger and 10 feet long). Where trees this large are not available, substitute next largest trees. Retained trees can be clumped to maintain a reasonable assurance of windfirmness and to minimize operational difficulties.