FWF 410

Management Plan Requirements

Overall

• 20% of Final Course Grade
• One plan per group on “Ruffed Grouse Management”
• Final draft of plan due and presentation on Thursday, **09 December 12:30–5:30 p.m.**
• Rough draft of plan due and meeting w/ Dr. Gray and TAs on Thursday, **18 November**
  
(™)

Written Plan

• Professional, scientifically written management plan
• Text, table, appendix, and literature cited format must follow the *Journal of Wildlife Management* guidelines (see: www.wildlife.org/publications/journalguidelines.pdf)
• General formatting: 1” margins, 12-pt Times Roman font, double spaced, bottom-centered pagination

Pre-pages

• Title page, executive summary, acknowledgments, table of contents, list of tables, list of figures, list of appendices.
• Numbered with lower-case Roman numerals, starting with “ii” at the acknowledgment section.

Major Sections

• Introduction (1–2 pages)
• Management Area Description (1 paragraph per topic—see slide 11; maps)

• Literature Review (published information on biology and management)
  
  ➔ Ruffed Grouse
  ➔ 2 Game Species of Choice
  ➔ 1 Non-game Species (or community) of Choice

  } How (and for how long) does your grouse management influence (+ or –) these species?

• Habitat Analysis (comparison of grouse vs. non-grouse habitat)
  ➔ Introduction (goal and objectives of habitat analysis)
  ➔ Methods (explain design, RVs, and sampling and statistical techniques)
  ➔ Results (explain statistical results and reference tables and figures)

  **Necessary tables (one each):**
  1) Basal Area, Overstory Height, Percent Canopy
  2) Vertical Cover by Strata (and total)
  3) Horizontal Cover by Life Form
  4) Total Stem Density by Under-, Mid-, and Overstory
  5) Midstory Stem Density by DBH class
  6) Plant species richness by Under-, Mid, and Overstory

  **Summary Statistics:** for YOUR 2 plots only!!
  1) List of Plant Species Occurrence (for each treatment)
2) Average Overstory DBH by species for each treatment
3) Total Stem Density (by species for each treatment)
   → Sum across under-, mid-, and over-story
→ Discussion (compare your results with literature review knowledge)

• Management Plan
  → Introduction
  → Management Recommendations (reflecting on previous 2 sections and possible public use)
    • Forest Management Techniques (use a diversity of methods and consider spatial arrangement and rotation; include GIS maps)
    • Public Use (grouse hunting protocol; non-consumptive uses)
  → Predicted Influences (target and non-target species—consider duration)
  → Cost of Management (contract out your timber harvesting & sales)
  → Time Schedule (discuss details of timber management rotation)
  → Recommendations for Management Evaluation

• Literature Cited (at least 5 non-Internet references)

Presentation:
• 20-minute professional PowerPoint (or slide) presentation (examples on website)
• 5-10 minutes of questions (Dr. Gray, TAs, Billy Minser, classmates)
• Each team member must speak for a portion
• Suggestions for dividing time (practice w/ team several times):
  → 5 minutes: Intro, Study Area, Species Biology
  → 5 minutes: Habitat Analysis and Summary of Results (no tables!)
  → 10 minutes: Management Plan
• Professional attire

Evaluation:

Your paper (65% of plan grade) will be graded on content (all above components under “written plan” included) and quality (detail, scientific writing, originality, applicability). Your presentation (25% of plan grade) will be graded on content (all above components under “presentation” included), quality (slide organization and detail), and timing (adhere to above time breakdown). All group members will receive the same grade on the management plan and presentation. In addition, each group member will have the opportunity to confidentially evaluate peers in their group toward plan contribution (10% of plan grade). Thus, your final plan grade will be computed as:

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0.65 \times \text{(written plan grade)} + 0.25 \times \text{(presentation grade)} + 0.10 \times \text{(peer grade of you)}
\]

For example, suppose your group received an 85% on the paper and 90% on the presentation, and your average peer grade was 30%. Your final grade would be

\[
0.85 \times 0.65 + 0.90 \times 0.25 + 0.30 \times 0.10 = 0.8025 = 80\%.
\]

Now, a 100% Peer:

\[
0.85 \times 0.65 + 0.90 \times 0.25 + 1.0 \times 0.10 = 0.8775 = 88\%.
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