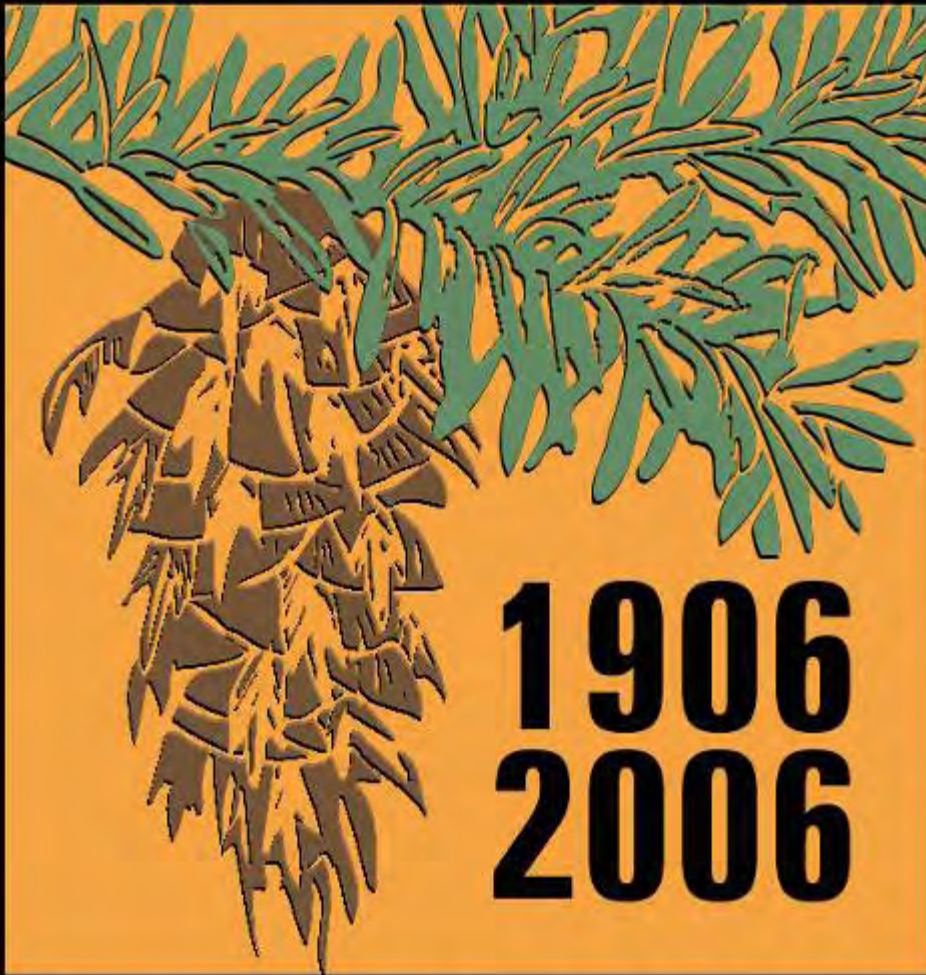


College of Forestry



**1906
2006**

**Legacy of Excellence
Future of Possibilities**



“Agenda” for Today

- **OSU-COF curricula**
- **Enrollment trends**
 - **National**
 - **OSU**
- **Employment trends**
- **Student Experience at COF**
- **Restructuring at COF**
- **Status of Forestry Ed. in WA**
- **Role of SAF**



College of Forestry--2008

8 Undergraduate Curricula

- **Forest Management (1906)**
- **Forest Engineering (1913)**
- **Forest Products (Wood Science) (1927)**
- **Recreation Resource Management (1974)**
- **Forest/Civil Engineering (1975)**
- **Natural Resources (interdisciplinary) (1993)**
 - **Corvallis**
 - **Cascades**
 - **Eastern Oregon University**
 - **Distance**
- **Tourism & Outdoor Leadership (Cascades) (2002)**
- **Forest Operations Management (2006)**

Forests of Oregon



Wood...



...and wood products



Recreation & Enrichment



Water



Wildlife



People and Communities

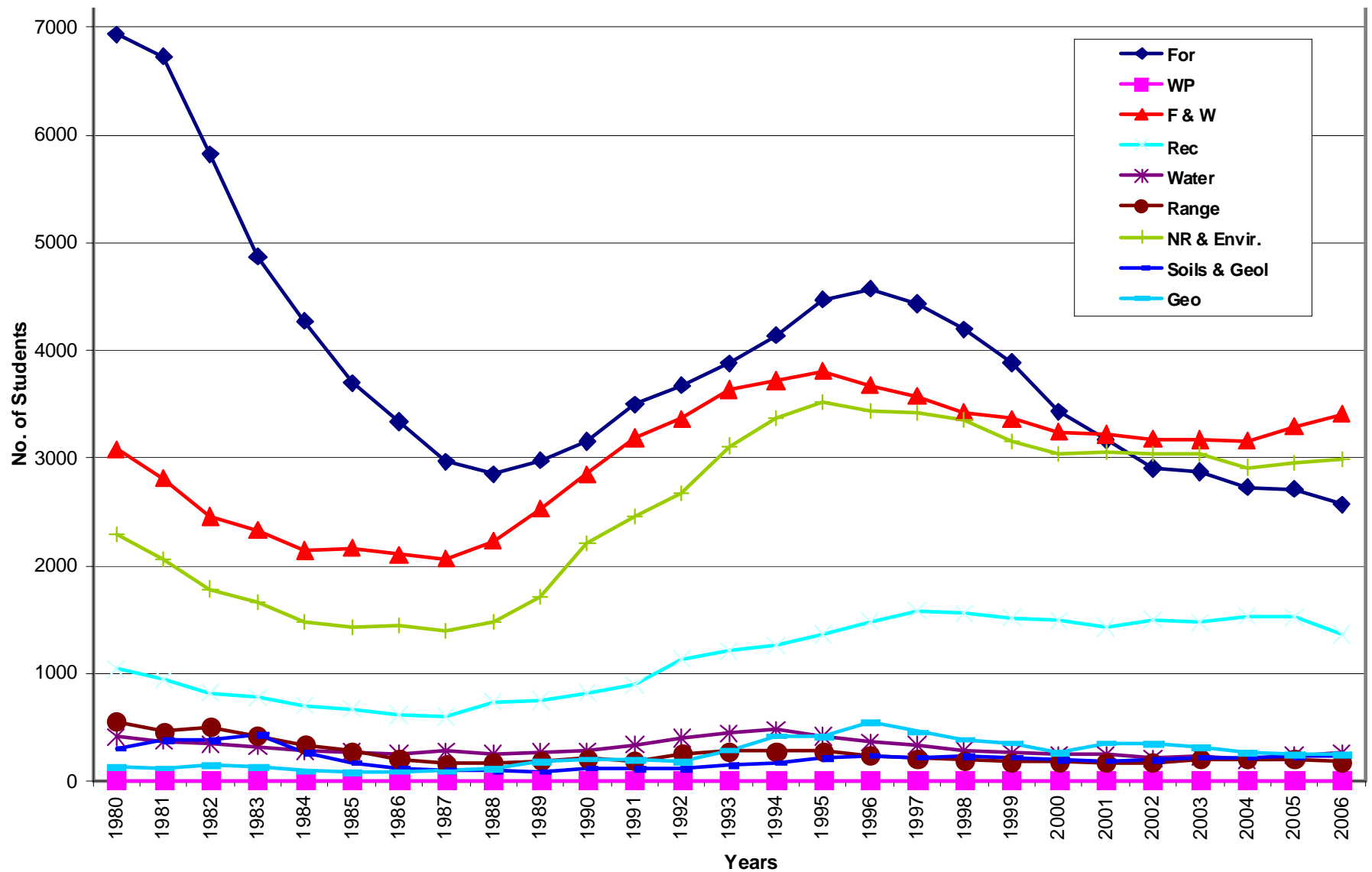


Ecological, Cultural, and Societal Values

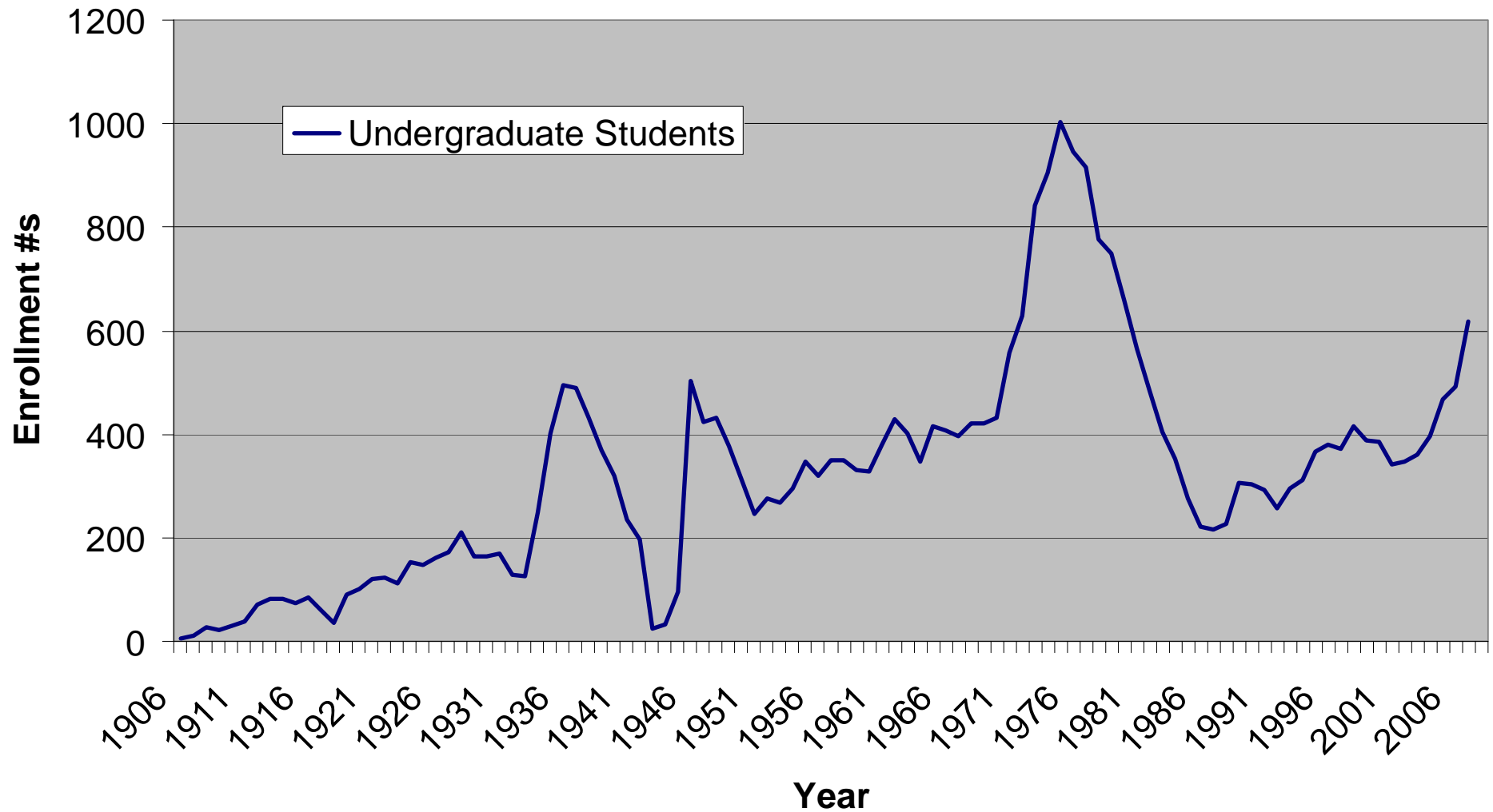
(including sustainability and global change)



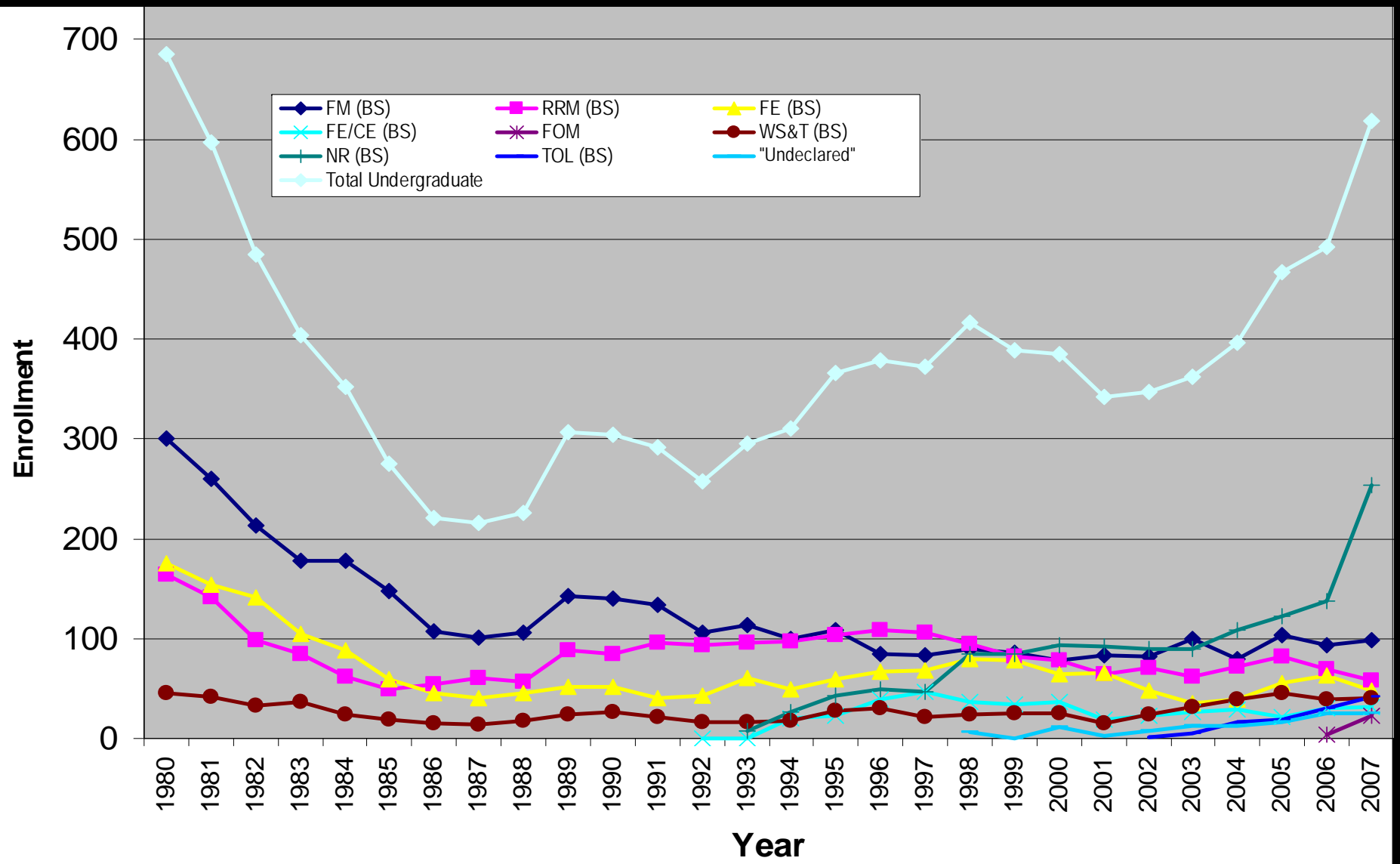
National Trends in Undergrad Enrollment in Forestry-Related Fields (1980-2008)



COF Undergraduate Enrollment



OSU College of Forestry Undergraduate Enrollment 1980-2007



Current Size of Undergraduate Curricula

<u>Curricula</u>	<u>5-Yr. Ave.</u>	<u>2008</u>
• FE	48	59
• FE/CE	28	38
• FM	95	110
• RRM	69	51
• WST	39	40
• NR	142	294
• FOM	---	34
• TOL	22	40

College of Forestry Reorganization (reorganization is not new)

(dates are approximate; department names have changed)

- < 1975: 3 departments (FM, FE, FP)**
- 1975: 4 departments (FM, FE, FP, RRM)**
- 1976: 5 departments (FM, FE, FP, RRM, FS)**
- 1990: 4 departments (FR, FE, FP/WSE, FS)**
- 2008: 3 departments (FES, FERM, WSE)**

College of Forestry

Organizational Structure

1990-2008

WSE—Wood Science & Eng.

- **WST**
-

FE — Forest Engineering

- **FE, FE/CE, FOM**
-

FR — Forest Resources

- **FM**
 - **RRM, TOL, NR**
-

FS — Forest Science

- **grad only**

2008 → future

WSE—Wood Science & Eng.

- **WST**
-

**FERM—Forest Engineering,
Resources & Management**

- **FE, FE/CE, FOM**
 - **FM**
-

FES— Forest Ecosystems & Society

- **RRM**
- **TOL**
- **NR (interdisciplinary)**

College of Forestry Reorganization

Status of Education Programs

- All undergraduate programs remain intact**
- All graduate programs remain intact**
- Faculty have shifted a bit and departmental administration has changed a bit**
- Anticipate evolutionary changes in curricula over time, but this has always occurred**
- Possible that other changes may occur due to continual budget challenges, but those are not the result of this round of reorganization**

Work experience & Internships



Clubs and Activities



COF Student Clubs



- **Forestry Club**
- **Xi Sigma Pi**
- **Society of American Foresters**
- **Forest Products Society**
- **Forest Recreation Club**
- **Natural Resources Club**
- **American Society of Photogrammetry**
- **International Forestry Students Association**
- **Engineers Without Borders**

Job Fairs & Service Activities



Recreational Weekends



Quiz Bowls and Conferences



Connections with Alumni



Ready for Work and Service



Employment Picture for New Graduates

- **Difficult to track employment**
 - Incomplete data
- **Differs by major**
 - Some closely tied to employers, some not
- **Not all seek employment immediately**
 - Graduate school, service, travel, family business
- **In some fields, most employees start less than full-time or permanent**
- **Difficult to project demand into the future**
 - Many retirements but uncertain re-hiring
 - Differs by discipline
- **But in general, employment prospects for most of our majors look very good.**



Professional, Full-Time Employment Trends by Major (for new graduates)

Full employment:

- FE, FE/CE, WSE, FOM (anticipated)

Very high:

- FM

Moderate:

- NR, RRM

Too little data:

- TOL



Where do new graduates find jobs?

2004-2007 (based on 160 surveys)

- 35% Federal
- 26% State/Local
- 39% Private

Average starting salary:
\$33,000



Future Employment

What are employers looking for?
(not all are looking for the same things)

- **Traditional technical skills**
- **New technical skills**
- **More interdisciplinary skills**
- **Improved personal/interpersonal skills**
- **Collaboration and teamwork**
- **Problem-solving skills**
- **More “community relations” skills**

Preparing Students for an Uncertain Future

Combine technical skills with:

- Communications
- Problem-solving
- Critical Thinking
- Leadership and teamwork
- Collaboration and conflict resolution

Creating more curricular options for students



UW—College of Forest Resources

College Structure:

- **Still have a College of Forest Resources** (for now)
 - Have a large and productive faculty
 - Major curriculum change in 2003
 - Moved away from SAF accreditation
 - Undergraduate student numbers are increasing
- **But, UW is moving towards a College of Environment**
 - Colleges will vote about whether/how to participate
 - 1) as a core unit (school with a director)
 - 2) as a collaborating unit (remain an independent College)
 - Uncertain at present how CFR will participate and what the implications are for curricula
 - Leaning toward collaborating unit
 - Many details remain to be determined

UW—College of Forest Resources

Offer 2 undergrad degrees

- neither accredited by SAF but some students can qualify for OPM foresters
- **Environmental Science and Resource Management (ESRM)**
 - Landscape ecology and conservation
 - Wildlife conservation
 - Restoration ecology and Environmental Horticulture
 - Sustainable Forest Management
- **Paper Science & Engineering (PSE)**
 - ABET accredited

SAF accredited Masters in Forest Resources (MFR)

- 4+1 program with undergrad program in sustainable forest management
- They believe that MF is preferred degree for the profession

Students: 215 undergraduate, 146 graduate

- 1/3 the undergrads of OSU, but has increased greatly over past 2 years
- Similar # of graduate students to OSU

Strive to produce “leaders, scientists, and informed citizens”

Washington State University

Current Status of Forestry Degree

Current:

- College of Agriculture, Human, and Natural Resources Sciences
- NRS is one of several departments
- Forestry is 1 of 3 majors in NRS
 - Forestry (20 majors)
 - Wildlife Ecology (70 majors)
 - Natural Resources (50 majors)

Proposed:

- School of Earth, Environment, and Society
 - Merge Natural Resource Sciences, Community and Rural Sociology, and Earth and Environmental Sciences
 - Role of forestry degree is uncertain
 - Targeted for elimination in April 2008, but still under discussion
 - Some advantages to being in larger unit
 - Faculty and research likely to remain

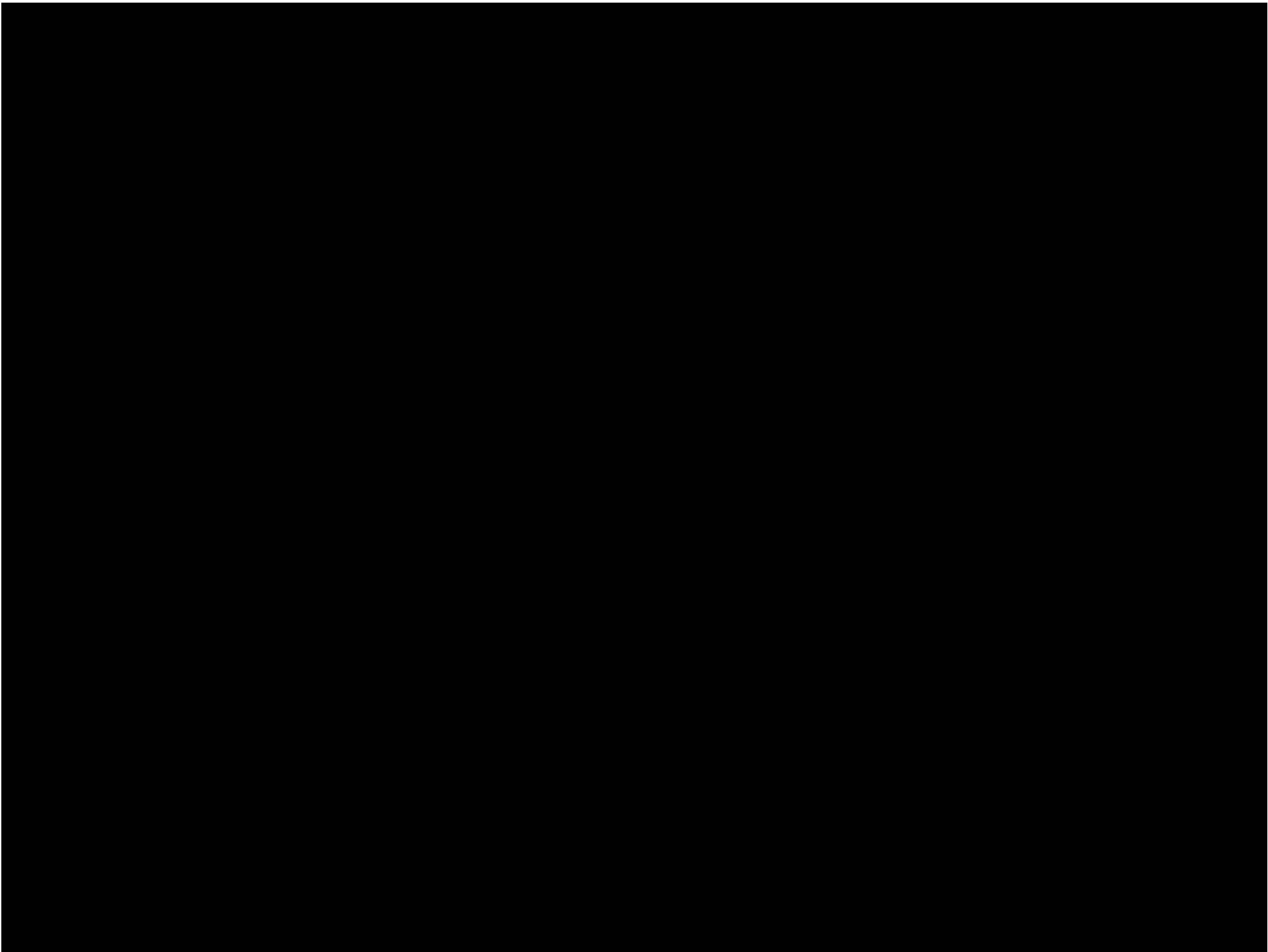
How can SAF help?

(an incomplete list)

- **Mentor current and prospective students**
 - Provide job shadows for HS students
 - Invite students, teachers, and counselors to specific SAF events
 - Mentor interns and summer employees
 - Help make their work experience professionally meaningful
- **Help us understand future employment needs and skills**
 - Where will the jobs be and what will they look like?
 - What new skills will be needed (pressures from academia not the same as from employers—e.g. internationalization, diversification)
- **Help HS teachers, counselors, and students in your communities understand career opportunities**
- **Provide financial assistance (e.g. scholarships)**
 - At OSU, but also at CCs (smaller amounts of \$ may go farther there).
 - Help students attend state and national SAF conventions
- **Help recruit, retain, and employ special populations (e.g. returning veterans and diversity students)**

QUESTIONS?
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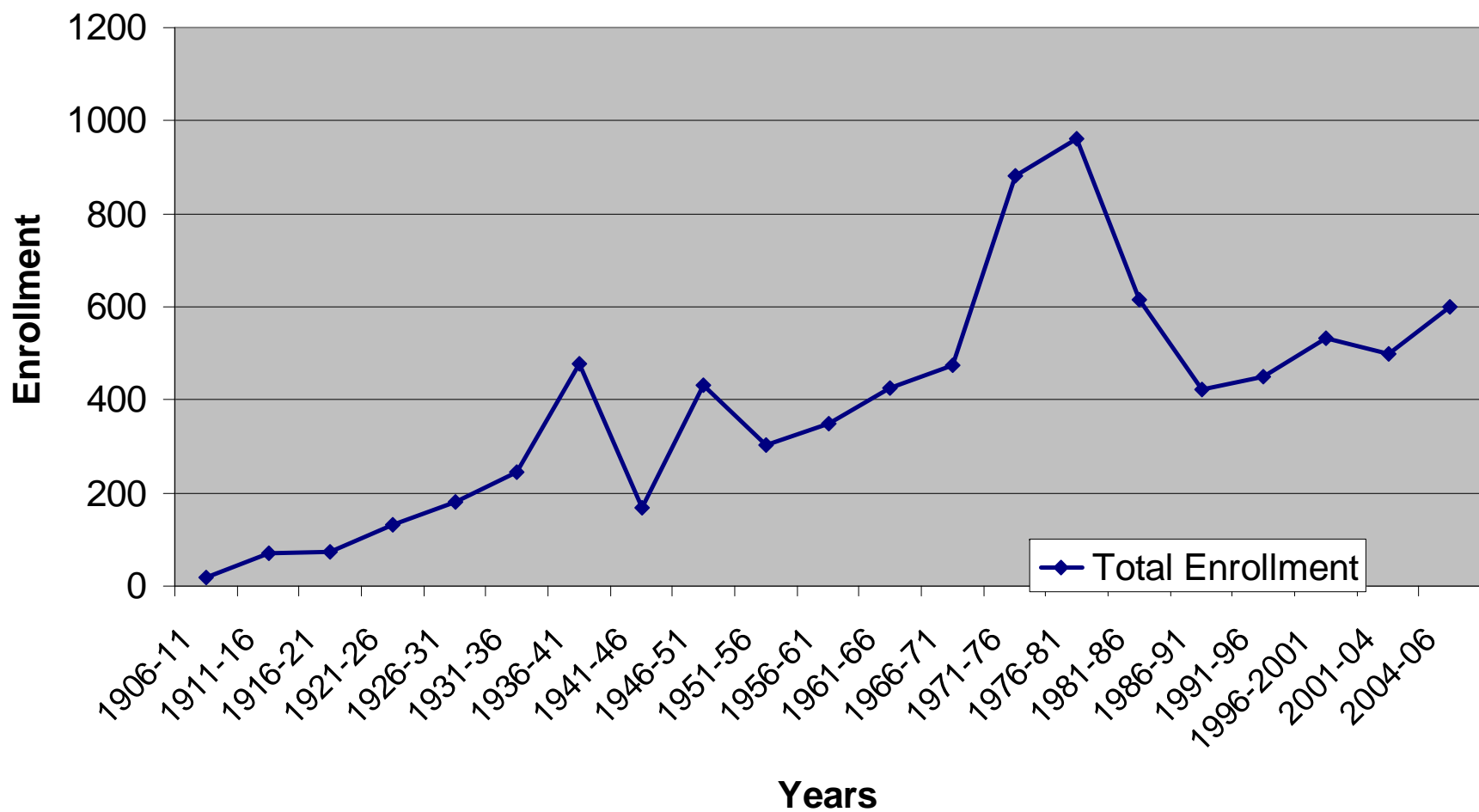




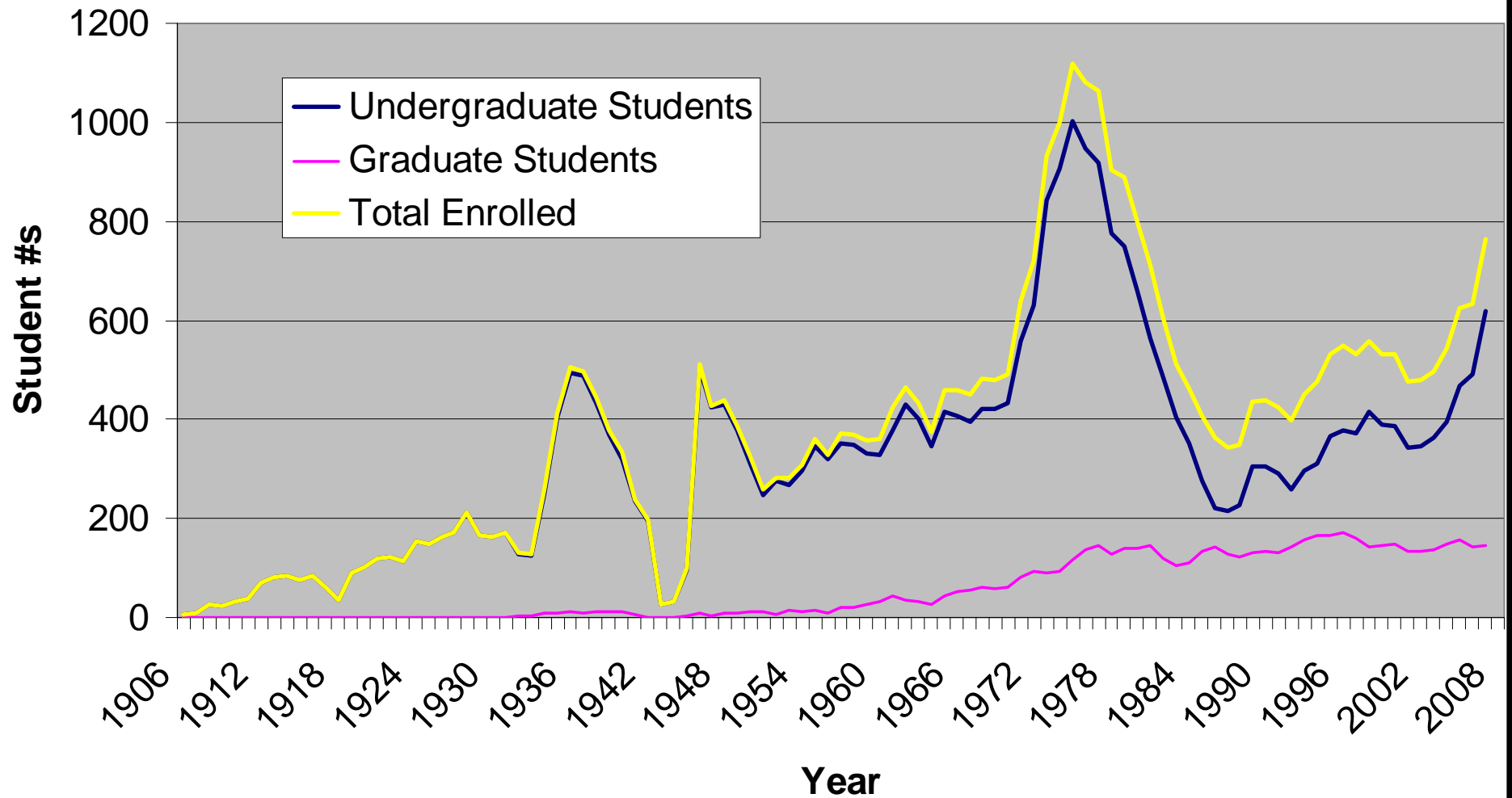
Undergrad Demographics

- Of 156 new undergrads in 2008:
 - 63% are transfers from outside OSU (almost all from OR CCs). In 2000, 42%.
 - Implications:
 - Growing importance of CCs in education of COF graduates
 - OSU exerts less control over curriculum (and therefore influence over graduates)
 - Relationship with CCs increasingly important
- Of 682 undergrads in 2008:
 - 38% are female. In 2000, 29%.
 - 8% are students of color (self-declared). In 2000, 8%.
 - 30% are not Oregon residents (mostly due to NR distance degree). In 2004, 16%.
 - 12% are classified as Freshmen. In 2000, 15%.
 - Implications:
 - Increasingly important role of distance education in diversifying our graduates

COF Total Enrollment (undergraduate + graduate)



COF TOTAL ENROLLMENT



College of Forestry

Student Enrollment

- **Undergraduate**

- 1980: 685
- 1990: 304
- 2000: 385
- 2006: 492
- 2007: 618
- 2008: (698)

- **Trends**

- Dropped from high in mid-late 1970s until 1990
- Increasing since 1990
- Different from most forestry programs in US

- **Graduate**

- 1980: 113
- 1990: 134
- 2000: 147
- 2006: 142
- 2007: 146
- 2008: (126)

- **Trends**

- Pretty steady
- Will start to decline in coming years
- Similar to trends around the US

Washington State University

Forestry housed within College of Agricultural, Human, and Natural Resources Sciences

Incomplete listing of degrees:

- BS in Forest Management (SAF accredited)
- BS in Natural Resource Sciences (some options meet OPM requirements for forester)
- BS in Wildlife Ecology

Future:

- As of April 2008, it appeared that BS in Forestry would be phased out quickly (but then uncertainty crept in)
- As of September 2008, it still appears on web site
- Even if undergrad degree in forestry is eliminated, some research, Extension, and forestry classes may continue