1 2	POLICY FOR USE OF								
3									
5									
6Ap 7GE	6April 1, 2002 7GENERAL POLICES AND PROCEDURES								
8 9A.	Forest Administration								
10 11 12 13 14 15 16 17 18 19 20 21 22 23	Blodgett Forest Research Station is a property of the University of California, Berkeley, administered by the Center for Forestry. The original 2600 acres were a gift from the Michigan-California Lumber Company (1933) to the School of Forestry. Directors are appointed by the Dean, College of Natural Resources with administrative responsibility and authority to develop and administer forest programs and policies, approve forest research, supervise the Forest staff, and recommend an annual forest budget to the Dean. One Director is a faculty member active in research on Center properties. One Director also serves as the Center Properties Manager with administrative responsibility for the Forest physical plant, and, coordination of the operation of Blodgett Forest with other Center properties. A resident Forest Manager supervises all forest employees, implements forest programs and policies, and maintains the Forest database and physical plant. The Directors, and Forest Manager jointly develop an annual preliminary budget for review by the Associate Dean for Forestry. The Center Advisory Committee is appointed by the Directors to regularly monitor, review, and recommend								
24 25 26	additions and changes in programs and policy for approval by the Directors- Periodically, College faculty provide advice and give consent to the Directors for this policy statement.								
27B.	General Objectives of Forest Use								
28 29 30 31	 The primary objective is to provide a location for research in forestry and related wildland resources by graduate students, faculty from the College of Natural Resources and other interested University of California Researchers and Cooperators. 								
32 33 34 35	 The secondary objective is to utilize, where feasible, forest research activities and facilities to demonstrate forest management practice and transfer knowledge via graduate and undergraduate instruction, extension, and public education programs. 								
36 37 C .	Resource Protection								
38 39 40 41 42 42	 It is the intent of the Center to manage Blodgett Forest such that basic air, water and soil resources are conserved. In developing the mosaic of vegetation described under land allocation below, the best available management practices will be utilized to maintain and, where feasible, improve the capability to produce: 								
43 44 45 46 47 48 49 50	 a. Beneficial uses of water; b. Wood products; c. Wildlife habitat; d. Visual quality; e. Forage for livestock; and f. Recreation potential. 								
50 51 52 53 54 55	 Particular attention will be directed toward Watercourse and Lake Protection Zones in order to maintain water quality and protect riparian vegetation. Snags and downed woody fuel will be manipulated to provide specific wildlife habitat and reduce potential wildfire damage. Historic and pre-historic cultural sites will be catalogued and appropriately protected. 								
lPol	icy for Use of Blodgett Forest Research Station: page l								

56 57 58 59 60		3.	The Forest Manager will monitor water, soil, vegetation, atmospheric, stream, visual, fuel, wildlife, archaeological resources and pest conditions, and propose rehabilitation if necessary. The Forest Manager will review proposed research projects and recommend measures to mitigate potential significant adverse environmental effects.	t
61 62 63 64		4.	The rules and intent of the California Forest Practices Act are met or exceeded in all management and research activities on the Forest. The Center Steering Committee must review research needing exemption.	
65 66D.	Res	sear	h	
67 68 69 70		1.	The primary research mission of the forest is providing knowledge to improve management o young growth mixed conifer-oak forests for commercial timber, watershed, wildlife, air quality, soil, forage, recreation and other forest values.	f
71 72		2.	Research on the Forest is to be coordinated by the Center Directors.	
73 74 75 76 77		3.	All new project proposals are to be submitted to the Directors or Forest Manager for subsequent review by an adhoc committee of researchers selected by the Directors. Recommendations for approval will be forwarded to the Director. Proposal forms are available from the Directors and Forest Manager.	
78 79		4.	All projects are expected to contribute to costs of maintenance of the Forest and its facilities.	
80 81 82		5.	All graduate research shall be sponsored by faculty members and will be subject to review and approval in a similar manner to that for faculty research.	
83 84 85		6.	All researchers are expected to consult the Forest Manager and obtain approval for the exact field location before commencing fieldwork.	t
86 87 88 89 90		7.	t is the responsibi lity of each project leader to select field measurement sites that are set back from road and compartment boundar ies sufficiently to prevent planned maintenance and management of adjacent areas from interfering with their research.	
91 92 93 94 95		8.	t is the responsibility of the project leader to disclose in the research proposal all animal, insect, vegetation, and site manipulation that will be required. The Forest Manager will coordinate all such activities. Cost of all activities will be borne by the project unless specifically approved otherwise by the Directors.	
96 97 98 99 100		9.	Research projects that have not had published reports, nor research measurements taken, nor abstracts for the Blodgett Research Workshop written, and submitted to the Director within the past five years shall be deemed abandoned. The Center Directors shall decid the most appropriate use of abandoned resources.	s le
101 102 103 104 105 106 107 108		10	An annual Research Workshop will be held at Blodgett Forest each winter. All research project Principal Investigators are strongly encouraged to participate and facilitate the participation of cooperators and affiliated students. As a condition of project approval, each Center for Forestry project Principal Investigator must agree to submit an annual research abstract in December for each approved project.	
109 110				
2Pol	.icy	for	Use of Blodgett Forest Research Station: page 2	

111		
112E.	Physical Plant and Equipment	
115 114	1. All permanent structures or equipment will be owned or under the control of the Center.	
115 116 117	 All buildings on the Forest receive the same level of care, maintenance and repair for safety, liability, economic and aesthetic reasons. 	,
118 119 120	3. While arrangements for extended part- or full-year use of a facility may be made, when such space is otherwise available the Forest may schedule the facility for use by others.	
121 122 123 124 125 126	4. In recognition of the fragile nature of roads and the cost of road maintenance, those parts of the Blodgett road system other than designated wet season use Roads. shall not be used by vehicles during the wet season. The Forest Manager will designate times wher portions of the road system may NOT be used. Charges may be made where use damages road surfaces.	n
127 128 129	 Pets (Dogs, Cats, etc.) Pets are not allowed on any part of Blodgett Forest except as follows: 	
130 131 132 133 134	 a. Pets are never allowed inside common-use buildings and University-owned vehicles of on field trips. b. Faculty and full-year resident Blodgett staff may keep pets only when all these conditions are met: 	r
134 135 136 137 138 139	 (1) The owners occupy sole use housing. (2) Pets stay within the building, or Pets stay inside private vehicles, or Pets are on leash, or Pets are close at owner's side and under direct verbal command. 	
140 141 142 143 144	 (3) Owners have the express permission of the Forest Manager to keep pets. (4) Owners immediately dispose of all pet scat. (5) Owners accept financial responsibility for all damages and commercial cleaning of facilities immediately after use. 	
145 146II.	FACILITIES AND FOREST USE, SCHEDULING AND PRIORITIES	
147 148 A .	General Priorities for Forest Use	
149 150	1. Programmatic Priorities	
151 152 153 154 155	a. Researchb. Teachingc. Outreach based on information developed at BFRS.d. Conference use of forest facilities	
156 157	2. User Priorities	
158 159 160 161 162 163 164 165	 aFaculty, College of Natural Resources b. Graduate students from College of Natural Resources. c. Faculty, of other University of California colleges and campuses. dGraduate students from other University of California colleges and campuses. eStudents of the Berkeley campus and other University of California colleges fOther users with substantive interests in wildland resource management. 	
3Po.	icy for Use of Blodgett Forest Research Station: page 3	

166 167	3.	Use of all facilities, residence space, and equipment is scheduled by the Forest Manager using these priorities so as to maximize their efficient use while satisfying user needs.
168 169 170 171 172	4.	A set of "Operational Guidelines for Blodgett Forest Research Station" (revised annually) (available from the Forest Manager) describes in detail administrative rules developed from this policy statement. Each Blodgett visitor and resident is expected to abide by these guidelines.
173 174 175 176 177	5.	A series of "Blodgett Forest Notes" are irregularly distributed by the Forest Manager to all Blodgett users. Each Blodgett visitor and resident is expected to abide by these Notes.
178 179	-	
180B. I	Resear	cn
181 182 183	1. Au	The summer field season for priority research use of the forest is May 15th to the end of ugust.
184 185 186 187	2.	All requests for summer housing in connection with approved research projects shall be submitted to the Forest Manager prior to April 1 for each field season. Requests after that date will be considered in order of submission.
188 189 190 191 192	3.	Requests for housing in connection with approved research projects outside of the summer field season will be scheduled by the Forest Manager as they are received, normally not to exceed one month in advance.
193 194 C .	Confe	rences
195 196 197	1.	Conferences requiring the use of Blodgett housing facilities will not normally be scheduled during the summer field season.
198 199 200	2.	Conferences will normally be scheduled and written notice provided to the Directors at least one month in advance of confirming the conference.
201 202 203	3.	Conferences will not normally be scheduled on weekends during September, October, November, April, and May, so that facilities will be available for instructional use.
204 205 206	4.	Overnight use by conferences will be limited in size such that at least one major residence is available for research use.
207 208 209	5.	Conferences scheduled in compliance with BFRS policy will not be "bumped" by higher priority users.
210 211D.	Instru	ction
212 213 214 215	1.	Teaching use shall be conducted so as not to compete with research for facilities nor interfere with approved research and management activities on the Forest.
215 216 217 218 219 220	2.	Requests for the priority use of Blodgett facilities, equipment and road system for teaching purposes must be made to and approved by the Forest Manager. Requests must be submitted by the end of the first week of the semester in which use is to take place. Otherwise use will be decided on a first come, first scheduled basis. The general itinerary and route to be traveled on the forest should be reported.

221 222 223 224 225 226 227 228	3.	 The following priorities will be observed in approving requests for teaching use of facilities: a. Graduate-level classes from Berkeley, College of Natural Resources. b. Upper division classes from Berkeley, College of Natural Resources. c. Other wildland resource related courses: (1) From University of California, Berkeley (2) From University of California, Davis (3) Other University of California groups (4) Agency, school, youth and civic groups.
229 230 231	4.	Classes or groups must be supervised and accompanied by regular University faculty, staff, or graduate students having an intimate knowledge of the Forest.
232 233 234 235	5.	Overnight use by classes will be limited in size such that at least one major residence is available for research use.
235 236 237 238	6.	Classes scheduled in conformance with BFRS policy will not be "bumped" by higher priority users.
239III.	LA	ND USE ALLOCATION
240 241The lai 242	nd o	rganization for Blodgett Forest is driven by four major objectives:
242 243 244 245 246	1.	To provide a predictable variety of forest stand structures, composition, ages, and vegetation conditions, including areas that will eventually be "old growth" in character, to meet the current and potential needs of researchers and instructors.
240 247 248 249 250 251	2.	To develop, on one site, a long term comparison of the two major silvicultural and management systems, even-aged and uneven-aged, likely to be applied to young growth Sierra Nevada mixed conifer-oak forests together with unmanaged young growth stands containing comparable species, size, and age vegetation.
251 252 253 254 255	3.	To manage logical land units in an operational fashion that can be reproduced directly by small private landowners and, with a minimum of extrapolation, on industrial, state and federal forests.
255 256 257 258 259 260 261	4.	 To create stable cash flow sufficient to: a. Protect the various forest resources from catastrophic loss; b. Provide and maintain the administration, facilities and access systems required to support a wide variety of research; c. Adequately implement forest management plans.
262 263A. Eco	olog	ical Reserves:
264 265 266	1.	Ecological reserves will be protected from major vegetation disturbance (wildfire, manipulative or destructive sampling).
267 268 269 270 271 272 273 274	2.	 The purpose of ecological reserves are: a. To provide older, maturing, undisturbed areas to study wildlife, insects, disease, plant development and succession in plant communities and habitats different than the intensively managed even and uneven aged structures on the remainder of Blodgett Forest. b. To provide such research areas in locations convenient to field research facilities and on land where future activity can be controlled.

275 276	C.	To provide lo manag	ement interver	the rate of vegetation change is as slow as possible without ntion.
277 278 279 280 281 282 282	3. These r res ve str res	reserves will serves may b getation con ucture and c gime.	be allowed to o be periodically ditions. The re composition sui	develop into "old growth like" vegetation structures. The prescribed burned to simulate "pre-European man" eserve units may be manipulated to restore vegetation table for re-introduction of a "simulated" natural forest
283 284 285 286	4. Cultura wit	l resources, h very mode	domestic water est manipulation	r supplies, and primitive campgrounds may be maintained n in the 291AR, and 521AR enclaves.
287 288 289 290 291 292	5. Current Ha 220E 292E 291A	ecological r ha R 30 R 54 R 2	eserves are: Acres 30 56	74 133 5
293 294 295	390E	R 13	13	31
296 297 298 299	510E 520E 521A	ER 14 ER 10 NR 1	25	35 25 3
299 300 301 302 303 304 305 206	600E 1010 1030 1050 1070 1120	ER 18 13 4 14 10 10 38	18	45 32 9 35 24 93
306 307 308	TIOC	Total	226 ha	556Acres
309B. 310 311 312 313 314	Administrative I 1. Adminis ex cu tho	Reserves strative reser clusive use o ltural and hu ose goals.	rves are not ava of land areas. A man habitation	ailable for manipulative research or research that requires Administrative reserves are designated to protect visual, values. They may be manipulated by any means to further
315 316	2. Curren	t administrat	ive reserves ar	re:
 317 318 319 320 321 322 323 324 	211AR 250AR 291AR 521AR 1090AR 1140AR	Ha 4 35 2 1 17 23 3	Acres 10 85 5 3 42 56 7	Land Use Domestic Water Headquarters Historic Fuelbreak Public Recreation Domestic Water
324 325 326	1170AR	3	7	Public Recreation
327 328 329	TOTAL	87ha.	215acres	
541				

330 C .	Young	-growt	h Rese	rves						
331 332 333 334 335	1.	The p	ourpose a. To p	e of young gr provide undis and succes managed ev	owth reserves turbed areas t sion in plant c	are: o study w ommunitio	vildlife, insectates and habitates on the sector of the se	s, disease ats differe the remai	e, plant develo nt than the inte	pment ensively
336 337 338 339			b. Top c. Top	on land whe	research area are future activons where the	s in locati vity can be rate of ve	ions convenie e controlled. egetation cha	ent to field	d research faci	lities and
340 341 342 343	2.	Youn	ig grow range c intensiv	th reserves w of vegetation	vill eventually conditions wit	consist of h individu	six age class al tree and sin-aged portic	ses (15 ye tand ages	ear) representi s comparable t	ng a o the These
344 345 346 347			areas v each 1 secure regene	vill remain pr 5-year perioc a wide variet ration (0-5 ye	otected from r l, one such un ty of native tre ears) period.	manipulati it will be r e species	regenerated k No pesticio	5 through by the me des will be	a 90 = rotation. ans most appr e utilized durin	Once ropriate to g the
348 349 350 351 352	3.	The is ar prec have	se rese nticipate lictions e indivio	rves will also ed their stand in mixed-cor dual tree size	serve as exa d structures wi nifer normal yi es similar to m	mples of ill develop eld tables anaged 5	even-aged m (except for o . Unmanage 0 to 70 year o	inimum ir catastropl d 70 to 9 old stands	ntensity manag hic events) sim 0 year old star s.	gement. It hilarly to hds should
353 354 355	4.	Futu rese	ire you arch be	ng growth res efore their ini	serve sites are tial regenerati	e available on schedi	e for research ule.	n and mai	nipulation to ac	ccomplish
356 357 358	4.	Youn	ig-grow	th reserves:	Total: 467Ac	res				
359 360 361 362	Co 20 40	omp.)R)E	На 36	Subtotal Acres 88		1 st Schei R€	duled egeneration 2030-2035	2 nd Sche	eduled Regeneration 2120-2125	
363 364	12	20E)	25	61			2002		2090-2100	
366 367 368 369	12 12 14	21E ∫ 22E 40E								
370 371 372	24 26	10U 30U	24	58			2045-2050		2135-2140	
373 374 375	46	64YGF	31	77			1988		2075-2080	
376 377 378	46 46	61ERR 62ERR					1983 1983			
379	49	90U	29	72			2015-2020			
381 382 383 384	65 66	50R 50E }	25	61			2060-2065		2150-2155	

385 386 387		1020	20	50	On request						
388											
389 390D.	Eve	n-Aged C	ompar	rtments:	1094Acres						
391 392 393 394 395 396		The even-aged compartments currently range in size from 4 to 68 acres averaging 24 acres. Regulation of current stands is scheduled to maximize cash flow to the forest subject to two major constraints. First, the even-aged forest must contribute a proportionate share of Blodgett's minimum annual budget requirement. Second, the harvests must produce a fully regulated forest (approximately equal productive areas in each of 0 to R age classes) by the year 2080.									
397 398 399 400 401		Interim management of existing stands may include both commercial and pre-commercial thinning regimes. Individual detailed silvicultural prescriptions are written for each compartment before each manipulative entry. Most even-aged compartments are manipulated every 10 to 20 years.									
402 403 404 405 406 407		Even-aged compartments may be subdivided in order to meet management objectives and facilitate particular research projects. Such sub-divisions must produce new compartments >5 acres in size. Acreage listed below may include minor amounts of non-productive land (e.g., rock outcroppings) and watercourses that require modification of the even-aged management regimes.									
408 409 410 411 412 413 414		Shelterwood, seed tree and clear-cut techniques to obtain both natural and artificial regeneration are options available to meet research and management objectives. Management regimes may include various intensities of site preparation, livestock grazing, vegetation control, PCT, burning, thinning, pruning, and other cultural activities. Tentatively, the average rotation age is assumed to be 60 to 90 years.									
414 415 416		Most eve treatmen	en-age its.	compart	ments will achieve commercial tree density control by thinning from below						
417 418 419 420 421		The following compartments will be thinned from above (high-graded) before regeneration. The intent will be to provide examples of stands managed by practices expected to degrade wood production, thus creating opportunities for research and extension of differences which may develop between this and other management styles.									
422 423		Unit		ha	acres						
424 425 426 427 428		70 100 170 540		16 14 16 11	39 34 39 26						
429 430		Even-Ag	ed Coi	mpartme	nts						
431 432 433 434 435		Unit	Ha.	Acres	Actual or Probable Regeneration Method						
436 437 438 439		70 80 81	16 8 14	39 19 34	CC Shelterwood (SH) ANY						

440 441 442 443 444 445 446 447 448 449 450	90 5 91 7 100 14 141 17 150 7 151RR 9 170 16 200 4 210 7 280 19	12 16 34 42 18 21 39 11 17 46	Any ANY CC Any Any CC Any ANY ANY
451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 23\\ 11\\ 16\\ 1\\ 22\\ 22\\ 22\\ 14\\ 27\\ 1.0\\ 13\\ 35\\ 21\\ 11\\ 19\\ 20\\ 25\\ 4\\ 31\\ 37\\ 16\\ 26\\ 12\\ 22\\ 10\\ 7\\ 15\\ 4\\ 2\\ 1\\ 19\\ 26\\ 6\\ 7\\ 20\\ 7\\ 4\\ 9\\ 15\\ 16\\ 41\\ 68\\ 40\\ \end{array}$	Any CC Any CC Any ANC CC Any ANC CC ANY ANY ANY ANY ANC CC CC ANY CC ANY ANY ANY CC ANY ANY ANY CC ANY ANY ANY CC ANY ANY ANY CC ANY ANY ANY CC ANY ANY ANY CC ANY ANY ANY CC ANY ANY ANY ANY CC ANY ANY ANY ANY CC ANY ANY ANY ANY CC ANY ANY ANY CC ANY ANY ANY CC CC ANY ANY ANY CC CC ANY ANY ANY ANY CC CC ANY ANY ANY CC CC ANY ANY CC CC ANY ANY ANY CC CC ANY ANY ANY CC CC ANY ANY CC CC ANY CC CC CC ANY CC CC ANY CC CC CC ANY CC CC CC ANY CC CC ANY CC CC ANY CC CC ANY CC CC ANY CC CC CC ANY CC CC ANY CC CC ANY ANY ANY CC CC ANY CC CC ANY CC CC ANY ANY ANY CC CC ANY ANY CC CC ANY ANY ANY CC CC ANY ANY ANY CC CC ANY ANY ANY CC CC ANY ANY ANY CC CC ANY ANY ANY CC CC ANY ANY ANY ANY ANY ANY ANY ANY ANY ANY

498 499 500 501 502	The uneven-aged compartments range in size from 8 to 69 acres averaging 42 acres. These compartments are regenerated by either individual tree (no group opening >0.25 acre) or group ($\frac{1}{2}$ to 2 $\frac{1}{2}$ acres) selection. All entries are scheduled and supported by a set of silvicultural prescriptions (one for each compartment).									
503 504 505 506 507 508	Current practice is to target long-term ideal residual growing stock levels ranging from 120 ft. ² /acre to 180-ft. ² /acre basal area. Maximum tree diameters will range from 30" to 40" depending on species. Diminution quotients for individual tree selection are currently targeted at 1.2. Cutting cycle lengths range from 8 to 15 years at this time. Most compartments should be near the desired stand structure by 2040.									
509 510 511 512	Both natural and artificial regeneration may be utilized. Management may include various intensities of site preparation, burning, vegetation control, livestock grazing, PCT, thinning, pruning and other cultural activities.									
513 514 515 516	Uneven-aged compartments may not be subdivided. Some non-productive land (e.g., rock outcropping) and watercourses that require modest changes in the uneven-aged management regimes are included in the acreage listed below.									
517 518 519	Unit	ha	Acres	Regeneration Method						
520	10	25	61	Group Selection (GS)						
521	30	15	36	GS						
522	31RR	1	2	GS						
523	50	18	44	GS						
525	60	24	59	GS						
525	101RR	3	8	Individual Tree Selection (IS)						
525 526	110	18	44	IS						
520	130	18	44	IS						
528	160	24	60	IS						
520	180	17	42	GS						
530	100	23	58	GS						
531	230	10	47	IS						
532	270	27	67	GS						
533	295	10	25	GS						
534	340	17	43	GS						
535	350	14	34	GS						
536	380	22	55	GS						
537	400	18	44	GS						
538	410	20	49	IS						
539	420	18	44	GS						
540	470	9	22	IS						
541	471	8	21	IS						
542	500	15	38	GS						
543	562	6	14	GS						
544	570	13	32	GS						
545	590	19	48	GS						
546	670	10	24	IS						
547	1080	23	58	IS						
548	1100	26	64	GPS						
549	1110	28	69	GPS						

Uneven-Aged Compartments: 1212 Acres

495 496 497E.

550													
551 552F.	Rese	earch Re	eserves										
553 554 555 556 557		1. Rese	earch rese created a years to p actions.	rves are ar at the reque protect a sp	eas tempost of a pri pecific res	orarily s incipal ir search p	et aside nvestiga roject fr	e out of ator with om oth	other υ h appro er rese	inits on val of tl arch ar	the Fo he Dire id mar	orest. T ectors fo nageme	They are or <10 nt
558 559 560		2. Such	n areas are reserved	e not availa	ible for an	iy uses r	not conr	nected	with the	e projec	t for w	hich the	ey were
561 562		3. On e	expiration of	of the reser	ve period	, these a	areas re	evert to	their fo	rmer st	atus.		
565 565		4. The	Forest Ma	nager mair	ntains a re	ecord of	all such	areas					
565 567	G.	Undesi	gnated Are	eas									
568 569 570 571	Lan Dire dev be a	d, which ectors de elopmer afforded	h has beer etermine a nt of acces I the same	n acquired, approximate ss, baseline level of re	may be p e future us e data and source pro	blaced in se. Man d short-to otection	the und ageme erm nor as the j	designa nt of ur n-manij previou	ated cat ndesign pulative is desig	egory (ated ar resear nated l	until su eas is ch. Al ands.	uch time limited II such I	e as the to and will
572 573	Sec	tion 19	4	85 acres									
574 575	Sec	tion 27	2	20 acres									
576 577		TOTAL	ACRES:7	05 acres									
578 579IV.		BUDGE	ET AND F	ISCAL MA	TTERS								
580 581 A . 582 583 584	Blod	lgett For budget recomn by April	rest is a C of the Dea nended by I 15.	enter for Fo an, College the Forest	orestry res of Natura t Manager	search s al Resou r, approv	station a irces. E /ed by t	and rec Each sp he Dire	eives fil oring an ectors, a	nancial annua and ma	suppo I list of de ava	ort from f user fe ailable te	the es will be o all users
585 586B.	Sup	plement	ary funds	will be deri	ved from	fees cha	arged to	indivio	dual res	earch p	oroject	S.	
587 588 589 590		1. All fe	ees will be upon rec arrangen	e made pay eipt of a ree nent.	able to the charge sta	e Forest atement	t at the from th	beginn e Fore	ing of th st Mana	ne field ager, or	seaso by sp	on in que ecial ac	estion, or Ivance
591 592 593		2. An a	annual ser Forest wi	vice charge ithout using	e will be n g housing	egotiate facilities	d for re	search	project	s makir	ng exte	ensive ι	use of the
595C. 596	Cha	rges for course.	use of ho A per pe	using facili rson per ni	ties for ins ght charge	struction e shall b	al purpo e made	oses w e for cla	ill be bo ass use	orne by of hous	the Ur sing fa	nit spon icilities.	soring the
597 598D. 599	Suff	icient fe support	es will be t of such n	charged to neetings at	conferen Blodgett	ce partic Forest.	cipants/s	sponso	ors to co	over all	costs i	incurred	d in
600 601E. 602 603 604	Fund	ds deriv researc	ed from pi ch projects	roduct sale will be allo	s resulting ocated to a	g from ha activities	arvestin of the	ig and Center	cultural by the	work ir Directo	n conju Irs.	unction	with
11Po]	Licy	for Use	of Blodge	ett Forest	Research	Station	n: page	e 11					

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607VI. PESTICIDE USE

609A. Any and all applications of pesticides for forest management or research purposes must be reviewed on a project-by-project basis and approved by the Directors prior to implementation. All 610 application proposals must show evidence that they comply with University Pesticide Policy 611 612 Communication 18 (and subsequent revisions). 613 614B. Any and all applications must be fully detailed by substance, site, time, application method, and 615 location and presented by the investigator or the Forest Manager to the Directors for review prior 616 to application. 617 618C. Although pesticides are currently a significant land management tool, research on alternatives to pesticide use are strongly encouraged to help achieve forest production and research objectives 619 in a potentially more restrictive future environment. Approval will not be given for the use of 620 621 pesticides not currently registered in California for the specific proposed applicati on. 622 623VII. GRAZING 624 625A. Cattle and deer have a long historical presence in the mid-Sierra land type in which Blodgett is located 626 and will continue an open range presence in the foreseeable future. The only practical way browsing or grazing by these animals can be either excluded or completely controlled in terms of 627 timing and intensity is through the construction and use of suitable fencing. 628 629 630B. Browsing and grazing relate to several research and applied goals at Blodgett Forest. All of these objectives and purposes are accepted as valid reasons for grazing use and control at Blodgett. 631 632 Research investigating the impact and effects of controlled grazing. 633 634 2. Research investigating the effects of grazing and browsing exclusion. 635 636 637 3. Resource protection, particularly meadows, watercourses and riparian zones. 638 4. Forest management on the young growth compartments at Blodgett. 639 640 5. Other research needing non-grazed and/or browsed sites. 641 642 6. Minimizing reliance on pesticides for vegetation control. 643 644 7. Maintaining community goodwill on the Georgetown Divide. 645 646 647C. To achieve these varied objectives: 648 1. The entire forest will be fenced as soon as practicable to enable inclusion or exclusion of 649 livestock grazing from either the area north and/or south of Wentworth Springs Road. 650 651 The Forest will maintain all perimeter fences. 652 2. For grazing use areas, research proposals from principal investigators or management 653 proposals from the Forest Manager need to present specific prescriptions for levels. 654 timing, animal control, resource protection, fence management, monitoring, and 655 mitigation of potential adverse effects to the Directors for review prior to grazing use. 656 657 3. For exclusion of animal use over a period, a specific proposal is also needed stating the 658

research or other justification for the exclosure.

660 661 662	4.	Financial responsibility for construction, repair and removal of approved research fences are the responsibility of the project Principal Investigator.
663 664VIII.	TF	REE SPECIES DIVERSITY
665 666A. Ger	nera	al Goals
667 668	1.	Maintain a reproductively viable population of each tree species native to Blodgett Forest.
669 670	2.	Preserve the tree species provenances present when the University acquired Blodgett.
671 672 673	3.	Maintain examples of the range of species composition commonly occurring in naturally regenerated stands of the Sierra Nevada mixed-conifer forest type.
674 675 676	4.	Ensure that seed used for reforestation of managed stands is selected for meeting Forest objectives.
677 678 679 B. Ecc	olog	gical Reserves
680 681	1.	Ecological reserves are not manipulated hence control of species composition is not possible.
682 683	2.	Ecological reserves will serve as a native gene reservoir.
684 685 686	3.	Ecologi cal reserve boundar ies and road edges will be periodi cally inspected. All non- native tree and shrub regeneration will be removed.
687 688 689 690 C . Mar	nag	ed Stands
691 692	1.	General Requirements
693 694 695 696 697 698		a. Tree species diversity will be managed to achieve a forest-wide average composition (basal -area basis) at greater than 5% and less than 30% for each of six components: PP, SP, IC, WF, DF, and all hardwoods combined. The Forest Manager will monitor species diversity and propose actions to prevent or correct problems.
699 700 701		b. The forest will develop and maintain a seed bank collected from Blodgett for each of the five major native conifers meeting the following criteria:
702 703 704 705 706 707		 (1) Quantity sufficient to meet projected 10-year demand including reforestation after catastrophic fire event. -(2) Collected from phenotypes with superior wood product characteristics. (3) Representing not less than 20 and preferably 100 individual trees per species each from widely separated stands.
708 709 710		c. The Forest Manager will maintain records of species, seed source and stock type for each area regenerated on Blodgett.
/11 712 713 714		d. The Forest Manager will encourage adjacent landowners to utilize only local seed sources for regeneration adjoining Blodgett Forest.
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715	e. No trees native to Blodgett from populations external to Blodgett will be introduced to Blodgett Forest and allowed to reach sexual maturity unless specifically approve as part of a research project. Plants and animals not native to Blodgett Forest may not be introduced unless specifically approved as part of a research project Each such project may be required to specify, and provide resources for, remove of exotic plants and animals, and non-Blodgett seed source trees before they become reproductively active.
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723	f. Giant Sequoia is a natural associate of the Sierran mixed-conifer type not native to Blodgett Forest. Regeneration of Giant Sequoia is limited by the constraints for tree species diversity in paragraphs "VIII C1a" above and "VIII C3a" below. Withir managed stands Giant Sequoia will be permitted to reach maturity and reproduce naturally.
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729	2. Young Growth Reserves
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731	a. Young growth reserves will be regenerated only with seed and/or seedlings from stands
732	which themselves were regenerated from seed and/or seedlings solely from native
733	Blodgett sources.
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735	b. Regeneration prescriptions will be designed to -produce an average of at least 100 seedlings per acre (at age 2 5) of each of the five major native -conifers. All
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737	hardwoods will be retained or allowed to sprout. Blodgett native hardwoods will be
738	planted where the total of residual hardwoods and sprout clumps average less
739	than 10 per acre.
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741	c. Young growth reserve boundaries and road edges will be periodically inspected. All non- native tree and shrub regeneration will be removed.
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745	3. Even-aged, Uneven-aged and Research Reserve Compartments
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747	a. Except for specific research or demonstration projects, each planting and natural regeneration will be designed to allow each of the five major native conifers to comprise at least 10% and total hardwoods at least 5% (trees/acre basis) of the
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750	ten year age class or the immediately post PCT stand.
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752	b. Research proposals must detail species and seed source of all material to be used at
753	Blodgett.