B

Appendix B: Additional Figures

In This Chapter:

Vernal Workshops Vernal Program Time Allocation Vernal Staffmember Time Allocation Vernal Program Tuition Vernal Regions and Centers Vernal Center Replication Number of Vernal Staffmembers

This appendix contains additional figures that show in greater detail the form that the Vernal Project might take as it evolved. Let me emphasize that these figures describe just one possible proposal for its development. Even if the Vernal Project proceeded the way I wished, the actual scenario that unfolded would likely be very different than presented here. I present this one possibility in detail simply to show there is at least one realistic configuration and to provide a preliminary plan.

VERNAL WORKSHOPS

As I envision it, each Vernal session would include four ten-day workshops and a five-day orientation workshop held at a retreat center. All thirty students in the session would attend these workshops together. Figure B.1 shows a possible structure for these workshops.

Figure B.1: Possible Arrangements of Classes in Vernal Workshops

Five-Day Orientation Workshop

	Mon.	Tues.	Wed.	Thur.	Fri.
Morning		Class	_	Work	Class
Afternoon	Intro	Class	Class	Class	Cleanup
Evening	Class	Class	Class	Party	

Total Number of Classes = 8

Ten-Day Standard Workshop

	Tues.	Wed.	Thur.	Fri.	Sat.
Morning		Class	_	Class	Class
Afternoon	Intro	Class	Class	Class	Class
Evening	Discuss	Class	Class		Class

	Sun.	Mon.	Tues.	Wed.	Thur.
Morning	_	Class	Work	Class	Class
Afternoon	Class	Work	Class	Class	Cleanup
Evening	Class		Class	Party	

Total Number of Classes = 18

Intro = Arrival, check in, move in, and introductions

- Discuss = Structured discussion and evaluation of study groups, internships, social change work, and so on
- Free time, informal discussion, time to read, study, use computer tutorials, read the newspaper, meet informally with Vernal staffmembers, and so on
- Work = Work for retreat center to offset some of the cost

Party = Partytime!

Clean up = Clean up of the retreat center and departure

As I envision it, the five-day orientation workshop would begin on Monday afternoon and continue through Friday afternoon, thus avoiding the generally more expensive weekend period. Students would travel to the retreat center Monday morning and arrive in the early afternoon. They would register, move into their rooms, and orient themselves to the retreat center. Then, in the late afternoon, students would assemble to meet each other and the Vernal staffmembers. That evening they would have their first regular class. The next day they would have three more regular classes. By Wednesday they would probably be tired and overflowing with new knowledge, so they would have a break in the morning instead of a class. Classes would continue Wednesday afternoon and evening.

On Thursday morning they would perform some work duty for the retreat center in exchange for reduced rental fees.* This work would also help strengthen bonds between the students and teach cooperation skills. That evening they would have a party instead of a class. Friday morning they would have the last class, and then in the afternoon they would clean up the retreat center, pack up their belongings, and say good-bye to the other students. Over this week, they would have attended eight regular classes, each one 2 1/2 hours long.

Each of the four ten-day workshops would begin on Tuesday and continue through Thursday of the following week (thereby spanning only a single weekend). These workshops would follow a similar schedule of classes, breaks, work for the retreat center, and a party on the last evening. Over the ten days, students would attend eighteen classes and work for the retreat center during two class periods. There would also be one class period devoted to discussion and evaluation of students' internships, study groups, support groups, and social change work. This discussion period would provide an opportunity for students to critically evaluate the session and for Vernal staffmembers to learn what changes they must make to ensure that the rest of the session was successful.

As shown in Figure B.2, a typical workshop day might have three separate classes, each one 2 1/2 hours long. Classes would start at 9:00 A.M., 2:00 P.M., and 7:30 P.M. Two staffmembers would co-facilitate each class. Each class would have a mix of short lectures, demonstrations, smalland large-group discussion, participatory exercises, and simulation games.

As I envision it, each student at the workshop would have a support buddy — another student she had paired up with for the duration of the workshop. For a half hour after lunch (right before the afternoon class), each student would check to see how her support buddy was feeling and give that person loving attention and hugs. This structured time would ensure that each student received some personal

	All	Kitchen Crew
	2 Facilitators	1 Cook plus students (# of students in parens.)
7:00		Breakfast Prep (1)
A.M.		
8:00	Breakfast	
		Breakfast Cleanup (2)
9:00	Morning	
10:00	Class	
11:00		
11.00		Lunch Prep (2)
Noon		
noon	Lunch	
1:00		Lunch Cleanup &
	Support Buddies	Dinner Prep (2)
2:00		
	Afternoon	
3:00	Class	
4:00		
4.00		Dinner Prep (4)
5:00		
5.00		
6:00	Dinner	
		Dinner Cleanup (4)
7:00		
8:00	Evening Class	
9:00		
10:00	Singing, games, etc.	

Figure B.2: Possible Daily Schedule at Vernal Session Workshops

11:00

attention each day and had a chance to express fears or vent frustrations. It also would provide an opportunity for students to get to know at least one other student on a more personal and emotional level. The half-hour period after the last class, at 10:00 P.M. would also be a special structured time set aside for students to sing together, play games, or give each other massages.

^{*} If there were no work available for students to do, then this period could be used for another class, left as a free time period, or devoted to some other activity (like a group hike).

During the free times of the day, students would have a chance to individually read, study, or work through computer tutorials related to their classes. They could also walk, hike, meditate, exercise, swim, ski, bake bread, sing, converse with other students, play games, discuss politics, exchange massages, nap, and take care of their personal hygiene needs. At certain times, they might choose to make a short presentation on a topic of interest to other students or hold special interest meetings with a few other students (such as those working on a particular project). They might also meet individually or in small groups with a Vernal staffmember to discuss problems with their internships or to informally discuss social change ideas.

At certain times of the day, a few students would help the retreat center's cook prepare meals, serve them, and clean up afterwards. As indicated in this figure, half of the students (fifteen) would help each day with one of these tasks — one helping with breakfast preparation, two helping with breakfast cleanup, and so on.

VERNAL PROGRAM TIME ALLOCATION

Figures B.3, B.4, and B.5 show the amount of time students might devote to each of the Vernal Program components for each of the 52 weeks of the session. As outlined here, the five-day orientation workshop at the retreat center would take place in the first week. Then the four ten-day workshops (labeled A, B, C, and D) would occur in Weeks 10/11, 20/21, 31/32, and 41/42. In these weeks, students would attend classes and study in preparation for those classes. In the weeks they were not attending a workshop or on vacation, students would attend study group meetings and work for their internship organizations. They would also read books and magazine articles to prepare for their study groups and perform social change work and social service work. In every week of the session, students would attend support group meetings and read progressive magazines and newspapers. Together, these activities would generally take about fifty hours each week as shown in the last column of Figure B.3. Students would have a weeklong vacation at the end of every quarter (Weeks 13, 26, 39, and 52) in which they would do no Vernal activity. At the end of Week 51, students would attend a one-day graduation ceremony with their family and friends.

Overall, as shown at the bottom of Figure B.3, students would attend 80 classes (200 hours) during 45 days of workshops. They would attend 116 study group meetings (348 hours). Their internships would require 360 hours, and they would do 174 hours of social change work.

Over the year, students would spend 2,296 hours on Vernal activities. Almost one-third of this time would be spent reading and studying in preparation for study group meetings. About 15 percent of the time would be spent attending study groups and another 15 percent would be spent in internships. About 12 percent of the time would be spent attending workshop classes and reading materials in preparation for these classes.

[Text continues on page 253]

Figure B.3: Typical Time Students Might Devote to the Vernal Program by Week

t	М 0		Work-	of Days	Classes										
	n	Week	shop Name	in Wrkshp	at Wrkshp	Wkshp Classes	Outside Study for Wrkshp	Study Group	Study for Study Group	Add'l Study News	Intern- ship	Social Chnge Work	Social Servc Work	Supprt Group/ Therapy	Total Hours/ Week
	1	1	Orient.	5	8	20	8			6				2	36
		2						12	24	6		0		2	44
		3 4						12 12	24 24	6 6		3 3	3 3	2 2	50 50
	2	5						12	24	6		3	3	2	50
		6						12	24	6		3	3	2	50
1Q		7 8						12 12	24 24	6 6		3 3	3 3	2	50 50
	3	9						12	24	6		3	3	2	50
		10	A	5	10	25	10			6				2	43
		11 12	A	5	8	20	8	12	24	6 6		3	3	2 2 2 2 2 2 2	36 50
		13						12		acation		3	3	2	50 0
	4	14						9	18	6	12	3		2	50
		15						9	18	6	12	3		2	50
		16 17						9 9	18 18	6 6	12 12	3 3		2	50 50
	5	18						9	18	6	12	3		2 2 2	50 50
		19						9	18	6	12	3		2	50
2Q		20	B B	5 5	10	25 20	10			6				2 2	43
	6	21 22	В	Э	8	20	8	9	18	6 6	12	3		2	36 50
	Ĩ	23						9	18	6	12	3		2 2 2	50
		24						9	18	6	12	3		2	50
		25 26						9	18 Vi	6 acation	12	3		2	50 0
	7	27						9	18	6	12	3		2	50
		28						9	18	6	12	3		2	50
		29 30						9 9	18 18	6 6	12 12	3 3		2	50 50
	8	31	с	5	10	25	10	0	10	6	12	0		2 2 2 2 2 2 2	43
		32	C C	5	8	20	8			6				2	36
3Q		33 34						9 9	18 18	6 6	12 12	3 3		2 2	50 50
	9	35						9	18	6	12	3		2	50
		36						9	18	6	12	3		2	50
		37 38						9 9	18 18	6 6	12 12	3 3		2 2	50
		39						9		acation	12	3		2	50 0
	10	40						6	15	6	12	9		2	50
		41	D	5	10	25	10			6				2	43
		42 43	D	5	8	20	8	6	15	6 6	12	9		2 2	36 50
	11	44						6	15	6	12	9		2	50
		45						6	15	6	12	9		2	50
4Q		46 47						6 6	15 15	6 6	12 12	9 9		2 2	50 50
	12	47						6	15	6	12	9		2	50 50
		49						6	15	6	12	9		2	50
		50	Grad	4	0			6 6	15 15	6 6	12	9		2 2	50 50
		51 52	Grad.	1	0	0		o	15 Va	acation	12	9		2	50 0
Т	Fota			46	80	200	80	348	726	288	360	174	24	96	2,296
P	Perce	ent of T	otal			8.7%	3.5%	15.2%	31.6%	12.5%	15.7%	7.6%	1.0%	4.2%	100.0%



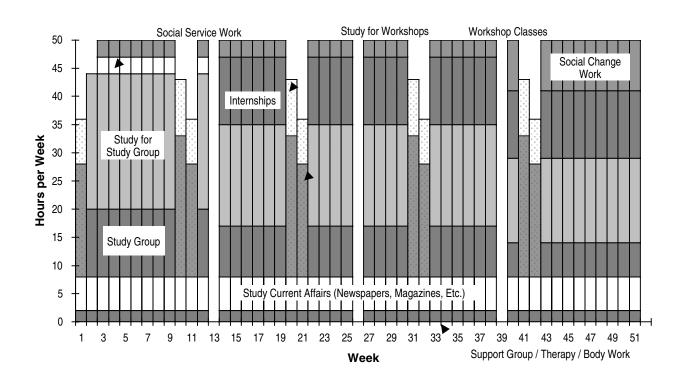


Figure B.4: Typical Time Students Might Devote to the Vernal Program by Week

Figure B.5: Typical Percent of Total Time Students Might Devote to Different Parts of the Vernal Program

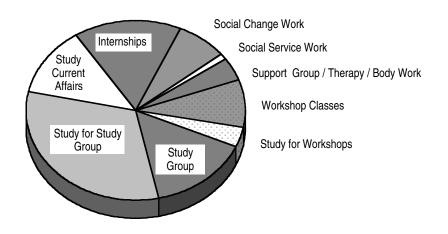


Figure B.6: Typical Vernal Team Calendar

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Week	
	2	3	4	5	6	7	8	1	Orientation for Session 47
January	9	10	11	12	13	14	15	2	Workshop D for Session 44
	16	17	18	19	20	21	22	3	
	23	24	25	26	27	28	29	4	
	30	31	1	2	3	4	5	5	Workshop C for Session 45
February	6 13	7	<u>8</u> 15	9 16	10 17	<u>11</u> 18	12 19	6 7	Workshop B for Session 46
rebiualy	20	21	22	23	24	25	26	8	Workshop B for Session 40
	27	28	1	2	3	4	5	9	
	6	7	8	9	10	11	12	10	Workshop A for Session 47
March	13	14	15	16	17	18	19	11	-
	20	21	22	23	24	25	26	12	Graduation for Session 44
	27	28	29	30	31	1	2	13	
	3	4	5	6	7	8	9	14	Orientation for Session 48
April	10	11	12	13	14	15	16	15	Workshop D for Session 45
	17	18	19	20	21	22	23	16	
	24	25	26	27	28	29	30	17	
	1	2	3	4	5	6	7	18	Workshop C for Session 46
May	<u>8</u> 15	9 16	<u>10</u> 17	<u>11</u> 18	12 19	13 20	14	19 20	Workshop B for Session 47
	22	23	24	25	26	20	21 28	20	workshop b for Session 47
	29	30	31	1	2	3	4	22	
	5	6	7	8	9	10	11	23	Workshop A for Session 48
June	12	13	14	15	16	17	18	24	·
	19	20	21	22	23	24	25	25	Graduation for Session 45
	26	27	28	29	30	1	2	26	
	3	4	5	6	7	8	9	27	Orientation for Session 49
July	10	11	12	13	14	15	16	28	Workshop D for Session 46
	17	18	19	20	21	22	23	29	
	24	25	26	27	28	29	30	30	
	31		2	3	4	5	6	31	Workshop C for Session 47
August	7 14	8 15	9 16	<u>10</u> 17	11 18	<u>12</u> 19	13 20	32 33	Workshop B for Session 48
August	21	22	23	24	25	26	20	33	
	28	29	30	31	1	2	3	35	
	4	5	6	7	8	9	10	36	Workshop A for Session 49
September	11	12	13	14	15	16	17	37	·
	18	19	20	21	22	23	24	38	Graduation for Session 46
	25	26	27	28	29	30	1	39	
	2	3	4	5	6	7	8	40	Orientation for Session 50
October	9	10	11	12	13	14	15	41	Workshop D for Session 47
	16	17	18	19	20	21	22	42	
	23	24	25	26	27	28	29	43	
	30 6	31	1 8	2 9	3 10 [4	5 12	44 45	Workshop C for Session 48
November	13	7 14	<u> </u>	9 16	17	18	19	45 46	Workshop B for Session 49
	20	21	22	23	24	25	26	47	
	27	28	29	30	1	2	3	48	
	4	5	6	7	8	9	10	49	Workshop A for Session 50
December	11	12	13	14	15	16	17	50	
	18	19	20	21	22	23	24	51	Graduation for Session 47
	25	26	27	28	29	30	31	52	

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			Wo	rksho	p C fo	or Ses	sion 4	45 —		-							Wor	ksho	o B fo	r Ses	sion 4	6 —		-	
ĺ	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	
	W	W	W	W	W										W	W	W	W	W						
				X	X	X	X	Х										Х	Х	Х	Х	Х			
						Y	Y	Y	Y	Y					Y	Y	Y						Y	Y	
	Ζ	Z	Z						Z	Ζ										Ζ	Ζ	Ζ	Z	Z	

Assumptions:

There are four staffmembers in each Vernal team (designated here as W, X, Y, and Z). Only two staffmembers are needed to facilitate all the classes and other activities in a day.

Vernal Staffmember Time Allocation

Facilitating workshops would be a large part of the work of Vernal staffmembers. Figures B.6 and B.7 show that it would be possible for a Vernal team to facilitate four separate sessions at the same time without being stretched too thin.

Figure B.6 shows a typical center schedule in which a new session starts at the beginning of each quarter. Structured this way, none of the workshops overlap and there are many weeks with no workshops at all. To make it easier to understand this figure, I have shaded the workshops associated with one particular session (Session 47). From Orientation in Week 1 to Graduation in Week 51, the workshops for Session 47 are intertwined with the workshops associated with the preceding sessions (44, 45, and 46) and the succeeding ones (48, 49, and 50).

Figure B.7 shows how a Vernal team with four full-time staffmembers could facilitate two of these ten-day workshops when they occurred on four contiguous weeks. In this arrangement, each staffmember would work no more than five days in a row, and there would be at least four days between their facilitation stints. This arrangement also

Figure B.8: Examples of Tuition Distributions that Produce Average Income of \$3,600 from Each Student

				Percent o	f Student	S
Situation	Annual Tuition Paid	Stipend Received	A	В	с	D
Full Tuition	\$5,000		40%	50%	35%	35%
Partial Scholarship	\$3,500		35%	20%	25%	30%
Half Scholarship	\$2,500		15%	20%	40%	30%
Large Scholarship	\$1,000					5%
Large Scholarship	\$500					
Full Scholarship	\$0		10%			
Full Scholarship + Stipend	\$0	\$1,000		10%		
Full Scholarship + Stipend	\$0	\$3,000				
			100%	100%	100%	100%
Avg. Income Collected fr	om Each S	Student =	\$3,600	\$3,600	\$3,600	\$3,600

Note: All figures are in 1995 dollars.

Figure B.9: Examples of Tuition Distributions that Produce Average Income of \$2,400 from Each Student

					Percent o	f Student	s	
Situation	Annual Tuition Paid	Stipend Received	A	В	с	D	E	F
Full Tuition	\$5,000		25%	30%	15%	10%	20%	20%
Partial Scholarship	\$3,500		25%	20%	5%		15%	20%
Half Scholarship	\$2,500		15%	15%	60%	80%	45%	40%
Large Scholarship	\$1,000						5%	
Large Scholarship	\$500		10%	5%	5%			
Full Scholarship	\$0		10%	10%	10%		5%	10%
Full Scholarship + Stipend	\$0	\$1,000	15%	20%	5%	10%		
Full Scholarship + Stipend	\$0	\$3,000					10%	10%
	÷		100%	100%	100%	100%	100%	100%
Avg. Income Collected fr	om Each S	Student =	\$2,400	\$2,400	\$2,400	\$2,400	\$2,400	\$2,400

Note: All figures are in 1995 dollars.

allocates the same amount of work to each staffmember, pairs each of the staffmembers with each other about the same amount of time, and minimizes the number of trips staffmembers must make to and from the retreat center. Of course, real life would hardly ever be this orderly, and it would seldom be possible to satisfy all these criteria. This arrangement would require that every staffmember know how to facilitate every class and be able to facilitate with any other staffmember. Still, even given the chaos of normal life and the additional scheduling constraints required by real people, staffmembers could probably work out an arrangement that prevented them from working too much.

VERNAL PROGRAM TUITION

Figures 6.11 and 6.12 showed some typical tuition distributions that would produce an average of \$3,600 and \$2,400 from each student (in 1995 dollars). Figure B.8 shows four additional examples of tuition payments that produce an average income of \$3,600. Figure B.9 shows six more examples that produce an average income of \$2,400. In one of these examples, 50 percent of the students pay full tuition of \$5,000; in other examples, as few as 10 percent do. In one example, 30 percent of students receive a full scholarship; in another one, no student does. Clearly, there are a variety of reasonable ways to achieve these levels of average income depending on the composition of the students in a session.

[Text continues on next page]

VERNAL REGIONS AND CENTERS

Inciting Democracy

For the Vernal Project to transform all of society, there must be fundamental progressive social change in every part of the country to ensure most people can be directly influenced. To show this is possible, I divided the United States into ten Vernal regions and picked forty-five large and dispersed cities for the fifty Vernal centers. Because their metro areas have such large populations, Los Angeles and New York City would each have three centers and Chicago would have two. As much as possible, I chose each region so that it contains contiguous states that have some cultural kinship. I also tried to choose regions so they would all have approximately the same population — though this was impossible and the largest has three times the population of the smallest. I chose the fifty Vernal center sites so that they would span the country and each would encompass a population of more than 1.5 million people.

Figure B.10 is a map of the United States showing the ten regions and the fifty Vernal centers. I have drawn a circle with a radius of 75 miles around each center to indicate the approximate area that is within a reasonable frequent driving distance of each center.

Figure B.11 shows the population associated with each Vernal region and center.* The figure lists the fifty Vernal centers (in bold type) and indicates which Census Bureau Metropolitan Statistical Areas (MSAs) and Primary Metropolitan Statistical Areas (PMSAs) are within 75 miles of each one. Also listed is the population of each metropolitan area and its percentage of the total U.S. population. For each Vernal region, I have indicated how much of the total population is near a Vernal center. At the bottom of each region is a sum of the population in the other MSAs in that region that are not within 75 miles of a Vernal center and the rural population that is outside of MSAs. These values are shaded to indicate they are not near a Vernal center.

In some cases, where there is relatively little population near a Vernal center, I have allocated to it an MSA that is farther away than 75 miles (indicated in italic type). Figure B.12 lists these MSAs and how far they are from their associated Vernal center. Ten of these fourteen MSAs are within 130 miles of their associated center.

I assume the Vernal team at these centers would devote special effort to include students from the distant areas. In some cases, this would require that the staffmembers drive or fly hundreds of miles. To minimize trips, staffmembers would need to carefully arrange their visits to study groups and internship sites.

Overall, if these were the locations of the fifty Vernal centers, they would, on average, address a population of

about three million people. Austin, Texas would address the smallest population of 1,620,436 and Philadelphia the largest population of 7,499,618. Overall, about two-thirds of the U.S. population would be within the realm of these fifty Vernal centers.

I have assumed that the one-third of the population that is outside of the listed MSAs would not be a part of the Vernal Project. I do not make this assumption because I want to exclude anyone from the Project or because I think the people in smaller cities or rural areas are unimportant. I make this assumption only because it is so difficult to design a Project that could cover all of this immense country and yet would consume few resources.

Still, even though the Vernal Project does not focus on these areas directly, it might still reach the people in the unserved areas through a number of processes:

(1) Since people in this country often move from place to place, some Vernal graduates would likely migrate to areas that do not have a Vernal center during the time they were actively working for change.

(2) As part of their efforts to expand their campaigns for change, Vernal graduates might deliberately travel to those areas that do not have a Vernal center and offer weekend workshops or consulting help to local activists.

(3) I assume that the reading lists and notes prepared by Vernal staffmembers for use in the Vernal Program would be put on the web for anyone to download and use. People in the unserved areas might create their own local educational programs using these materials.

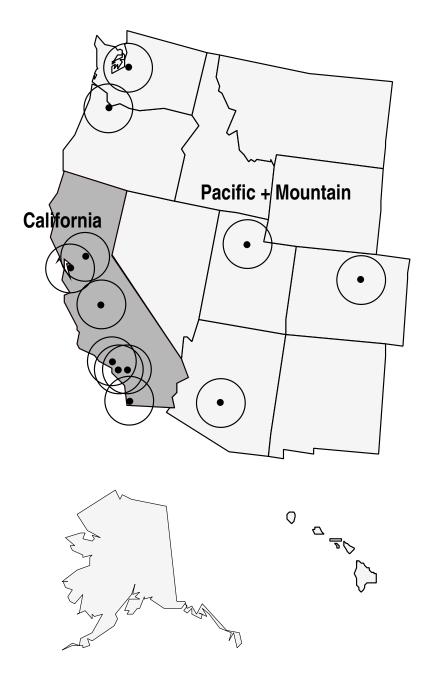
(4) I assume the ideas and practices of Vernal graduates would spread through normal activist channels to activists working in every area of the country. Activists in areas not directly served would pick up these ideas and pass them on to others through their normal change work.[†]

[Text continues on page 261]

^{*} In this figure, states and cities are listed roughly in geographic order sweeping from west to east.

[†] Remember that the Vernal Project is merely a supplement to other activist work, not a replacement of it. I assume that most progressive activists would never attend a Vernal Education Program and many activists would never have any direct contact with a Vernal graduate.

Figure B.10: Map of Possible



Vernal Regions and Centers

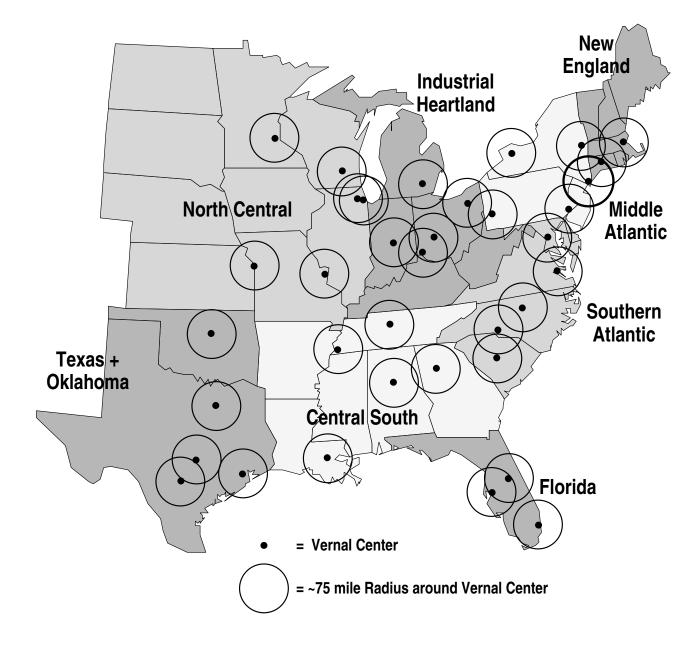


Figure B.11: Possible Vernal Regions, Vernal Centers, and their Associated Population

	Estimated		%
Region / Vernal Center /	Population	Near	∕∘ Total
•		Vern	1995
Metropolitan Statistical Area	in July		
Opliformia	1995	%	Pop.
California	28,851,864	91.4	11.0
Oakland, CA	6,302,933		2.4
Oakland, CA PMSA	2,195,411		0.8
San Francisco, CA PMSA	1,645,815		0.6
San Jose, CA PMSA	1,565,253		0.6
Santa Rosa, CA PMSA	414,569		0.2
Vallejo-Fairfield-Napa, CA PMSA	481,885		0.2
Sacramento, CA	2,539,563		1.0
Sacramento, CA PMSA	1,456,955		0.6
Yolo, CA PMSA	147,769		0.1
Stockton-Lodi, CA MSA	523,969		0.2
Modesto, CA MSA	410,870		0.2
Fresno, CA	2,003,071		0.8
Fresno, CA MSA	844,293		0.3
Merced, CA MSA	194,407		0.1
Visalia-Tulare-Porterville, CA MSA	346,843		0.1
Bakersfield, CA MSA (112 miles)	617,528		0.2
Los Angeles Area, CA	15,362,165		5.8
Los Angeles-Long Beach, CA PMSA	9,138,789		3.5
Orange County, CA PMSA	2,563,971		1.0
Riverside-San Bernardino, CA PMSA	2,949,387		1.1
Ventura, CA PMSA	710,018		0.3
San Diego, CA	2,644,132		1.0
San Diego, CA MSA	2,644,132		1.0
Rest of Region	2,713,616		1.0
Pacific + Mountain	13,403,760	51.3	5.1
Seattle, WA	3,265,139		1.2
Seattle-Bellevue-Everett, WA PMSA	2,197,451		0.8
Tacoma, WA PMSA	648,994		0.2
Bremerton, WA PMSA	226,720		0.1
Olympia, WA PMSA	191,974		0.1
Portland, OR	2,021,982		0.8
Portland-Vancouver, OR-WA PMSA	1,710,260		0.7
Salem, OR PMSA	311,722		0.1
Salt Lake City, UT	2,636,870		1.0
Salt Lake City-Ogden, UT MSA	1,199,323		0.5
Provo-Orem, UT MSA	298,789		0.1
Las Vegas, NV-AZ MSA (419 miles)	1,138,758		0.4
Denver, CO	2,916,187		1.1
Denver, CO PMSA	1,831,308		0.7
Boulder-Longmont, CO PMSA	253,850		0.1
Greeley, CO PMSA	148,014		0.1
Colorado Springs, CO MSA	465,800		0.2
Fort Collins-Loveland, CO MSA	217,215		0.1
Phoenix, AZ	2,563,582		1.0
Phoenix-Mesa, AZ MSA	2,563,582		1.0
Rest of Region	12,724,429		4.8

	E atimata d		0/
Barrian (Manual Cantan (Estimated		% •
Region / Vernal Center /	Population	Near	
Metropolitan Statistical Area	in July	Vern	1995
	1995	%	Pop.
Texas + Oklahoma	14,580,005	66.0	5.5
Stillwater, OK	2,327,228		0.9
Oklahoma City, OK MSA	1,015,174		0.4
Tulsa, OK MSA	746,500		0.3
Enid, OK MSA	57,330		0.0
Wichita, KS MSA (127 miles)	508,224		0.2
Arlington, TX	4,548,211		1.7
Dallas, TX PMSA	2,957,910		1.1
Fort Worth-Arlington, TX PMSA	1,491,965		0.6
Sherman-Denison, TX MSA	98,336		0.0
Austin, TX	1,620,436		0.6
Austin-San Marcos, TX MSA	999,936		0.4
Killeen-Temple, TX MSA	289,903		0.1
Waco, TX MSA (100 miles)	200,111		0.1
Bryan-College Station, TX MSA (105 miles)	130,486		0.0
San Antonio, TX	1,919,737		0.7
San Antonio, TX MSA	1,460,809		0.6
Victoria, TX MSA (116 miles)	79,992		0.0
Corpus Christi, TX MSA (153 miles)	378,936		0.1
Houston, TX	4,164,393		1.6
Houston, TX PMSA	3,710,844		1.4
Galveston-Texas City, TX PMSA	237,533		0.1
Brazoria, TX PMSA	216,016		0.1
			0.1
Rest of Region	7,496,245		2.9
		44.7	
Rest of Region	7,496,245	44.7	2.9
Rest of Region Central South	7,496,245 11,730,553	44.7	2.9 4.5
Rest of Region Central South Baton Rouge, LA	7,496,245 11,730,553 2,433,902	44.7	2.9 4.5 0.9
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA	7,496,245 11,730,553 2,433,902 563,994	44.7	2.9 4.5 0.9 0.2
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA New Orleans, LA MSA	7,496,245 11,730,553 2,433,902 563,994 1,315,294	44.7	2.9 4.5 0.9 0.2 0.5
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857	44.7	2.9 4.5 0.9 0.2 0.5 0.1
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.1 0.8
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN-AR-MS MSA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.1 0.8 0.4
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.1 0.4 0.4 0.0
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.0 0.2
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles)	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.4 0.4 0.0 0.2 0.2
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.0 0.2 0.2 0.2 0.7
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN Nashville, TN MSA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.0 0.2 0.2 0.2 0.7 0.4
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Houma, LA MSA Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN Nashville, TN MSA Clarksville-Hopkinsville, TN-KY MSA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836 189,477	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.2 0.2 0.2 0.2 0.7 0.4 0.1
Rest of Region Central South Baton Rouge, LA MSA Lafayette, LA MSA Memphis, TN Memphis, TN Memphis, TN Memphis, TN Memphis, TN Mashville Rock, AR MSA (137 m) Jackson, MS MSA (213 miles) Mashville, TN Nashville, TN Nashville, TN Nashville, TN MSA Clarksville-Hopkinsville, TN-KY MSA Chattanooga, TN-GA MSA (129 miles)	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836 189,477 443,060	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.2 0.2 0.2 0.2 0.7 0.4 0.1 0.2
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Houma, LA MSA Memphis, TN Memphis, TN Memphis, TN Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN Nashville, TN Nashville, TN Nashville, TN Sattanooga, TN-GA MSA (129 miles) Birmingham, AL	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836 189,477 443,060 1,891,031	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.0 0.2 0.2 0.7 0.4 0.1 0.2 0.7
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Houma, LA MSA Memphis, TN Memphis, TN Memphis, TN Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN Nashville, TN Nashville, TN MSA Clarksville-Hopkinsville, TN-KY MSA Chattanooga, TN-GA MSA (129 miles) Birmingham, AL Birmingham, AL	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836 189,477 443,060 1,891,031 881,761 881,761	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.2 0.2 0.2 0.2 0.7 0.4 0.1 0.2 0.7 0.3
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN Memphis, TN Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN Nashville, TN Nashville, TN Nashville, TN Nashville, TN MSA Clarksville-Hopkinsville, TN-KY MSA Chattanooga, TN-GA MSA (129 miles) Birmingham, AL Birmingham, AL MSA Tuscaloosa, AL MSA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836 189,477 443,060 1,891,031 881,761 158,732	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.0 0.2 0.2 0.7 0.4 0.1 0.2 0.7 0.3 0.1
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN Nashville, TN Nashville, TN Nashville, TN MSA Clarksville-Hopkinsville, TN-KY MSA Chattanooga, TN-GA MSA (129 miles) Birmingham, AL MSA Tuscaloosa, AL MSA Gadsden, AL MSA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836 189,477 443,060 1,891,031 881,761 158,732 100,259	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.2 0.2 0.2 0.7 0.4 0.1 0.2 0.7 0.3 0.1 0.0
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN Memphis, TN-R-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN Nashville, TN Nashville, TN Nashville, TN MSA Clarksville-Hopkinsville, TN-KY MSA Chattanooga, TN-GA MSA (129 miles) Birmingham, AL MSA Tuscaloosa, AL MSA Gadsden, AL MSA Anniston, AL MSA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836 189,477 443,060 1,891,031 881,761 158,732 100,259 117,263	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.2 0.2 0.7 0.4 0.1 0.2 0.7 0.3 0.1 0.0 0.0
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN Nashville, TN Nashville, TN Nashville, TN MSA Clarksville-Hopkinsville, TN-KY MSA Chattanooga, TN-GA MSA (129 miles) Birmingham, AL MSA Tuscaloosa, AL MSA Gadsden, AL MSA Anniston, AL MSA Huntsville, AL MSA (95 miles)	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836 189,477 443,060 1,891,031 881,761 158,732 100,259 117,263 317,684	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.2 0.2 0.2 0.7 0.4 0.1 0.2 0.7 0.3 0.1 0.0 0.0 0.0 0.1
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN Nashville, TN Nashville, TN Nashville, TN Nashville, TN Sattanooga, TN-GA MSA (129 miles) Birmingham, AL MSA Tuscaloosa, AL MSA Gadsden, AL MSA Huntsville, AL MSA (95 miles) Montgomery, AL MSA (91 miles) Atlanta, GA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836 189,477 443,060 1,891,031 881,761 158,732 100,259 117,263 317,684 315,332	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.0 0.2 0.2 0.2 0.7 0.4 0.1 0.2 0.7 0.3 0.1 0.0 0.0 0.0 10.1 1.4
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Houma, LA MSA Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN Nashville, TN Nashville, TN Nashville, TN MSA Clarksville-Hopkinsville, TN-KY MSA Chattanooga, TN-GA MSA (129 miles) Birmingham, AL Birmingham, AL MSA Tuscaloosa, AL MSA Gadsden, AL MSA Huntsville, AL MSA (95 miles) Montgomery, AL MSA (91 miles) Atlanta, GA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836 189,477 443,060 1,891,031 881,761 158,732 100,259 117,263 317,684 315,332 3,566,776 3,431,983	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.0 0.2 0.2 0.2 0.7 0.4 0.1 0.2 0.7 0.3 0.1 0.0 0.0 0.0 1 0.1 1.4 1.3
Rest of Region Central South Baton Rouge, LA Baton Rouge, LA MSA Baton Rouge, LA MSA New Orleans, LA MSA Lafayette, LA MSA Houma, LA MSA Memphis, TN Memphis, TN-AR-MS MSA Jackson, TN MSA Little Rock-North Little Rock, AR MSA (137 r Jackson, MS MSA (213 miles) Nashville, TN Nashville, TN MSA Clarksville-Hopkinsville, TN Nashville, TN MSA Clarksville-Hopkinsville, TN-KY MSA Chattanooga, TN-GA MSA (129 miles) Birmingham, AL MSA Tuscaloosa, AL MSA Gadsden, AL MSA Gadsden, AL MSA Huntsville, AL MSA (95 miles) Montgomery, AL MSA (91 miles) Atlanta, GA	7,496,245 11,730,553 2,433,902 563,994 1,315,294 365,857 188,757 2,112,471 1,068,891 83,715 543,568 416,297 1,726,373 1,093,836 189,477 443,060 1,891,031 881,761 158,732 100,259 117,263 317,684 315,332 3,566,776	44.7	2.9 4.5 0.9 0.2 0.5 0.1 0.1 0.8 0.4 0.0 0.2 0.2 0.2 0.7 0.4 0.1 0.2 0.7 0.3 0.1 0.0 0.0 0.0 10.1 1.4

Note: Though relatively small, college town Stillwater, Oklahoma, is centrally located between three Oklahoma cities - Oklahoma City, Tulsa, and Enid — and Wichita, Kansas. Arlington, Texas, is about halfway between Dallas and Fort Worth. Baton Rouge, Louisiana is centrally located between New Orleans and Lafayette.

Figure B.11 (continued)

	Estimated		%
Region / Vernal Center /	Population	Near	Total
Metropolitan Statistical Area	in July	Vern	1995
Metropontari otatistical Area	1995	%	Pop.
Southern Atlantic	16,166,089	^{/0} 70.0	6.1
Columbia, SC	1,670,939	10.0	0.6
Columbia, SC MSA	481,718		0.0
Florence, SC MSA	122,769		0.2
Augusta-Aiken, GA-SC MSA	453,209		0.0
Sumter, SC MSA	106,823		0.2
Charleston-North Charleston, SC MSA (113	506,420		0.0
Spartanburg, SC	2,691,167		1.0
Greenville-Spartanburg-Anderson, SC MSA			0.3
Charlotte-Gastonia-Rock Hill, NC-SC MSA	1,289,177		0.5
Hickory-Morganton-Lenoir, NC MSA	310,236		0.1
Asheville, NC MSA	207,448		0.1
Burlington, NC	2,228,986		0.1
GreensboroWinston-SalemHigh Point, N			0.4
Raleigh-Durham-Chapel Hill, NC MSA	995,256		0.4
Danville, VA MSA	109,890		0.4
Williamsburg, VA	2,467,881		0.0
Norfolk-Virginia Beach-Newport News, VA-N			0.6
Richmond-Petersburg, VA MSA	927,435		0.0
Washington, DC	7,107,116		2.7
Washington, DC-MD-VA-WV PMSA	4,509,932		1.7
Baltimore, MD PMSA	4,509,932 2,469,985		0.9
Hagerstown, MD PMSA	127,199		0.0
Rest of Region	6,911,920		2.6
North Central	18,437,359	52.3	7.0
Kansas City, KS	2,014,400	02.0	0.8
Kansas City, MO-KS MSA	1,663,453		0.6
Topeka, KS MSA	165,062		0.1
Lawrence, KS MSA	88,206		0.0
St. Joseph, MO MSA	97,679		0.0
St. Louis, MO	2,547,686		1.0
St. Louis, MO-IL MSA	2,547,686		1.0
Minneapolis, MN	2,994,558		1.1
Minneapolis-St. Paul, MN-WI MSA	2,723,137		1.0
St. Cloud, MN MSA	158,802		0.1
			0.0
	112.019		
Rochester, MN MSA	112,619 2.430.740		0.9
Rochester, MN MSA Milwaukee, WI	2,430,740		0.9 0.6
Rochester, MN MSA Milwaukee, WI Milwaukee-Waukesha, WI PMSA	2,430,740 1,457,939		
Rochester, MN MSA Milwaukee, WI Milwaukee-Waukesha, WI PMSA Racine, WI PMSA	2,430,740 1,457,939 182,892		0.6
Rochester, MN MSA Milwaukee, WI Milwaukee-Waukesha, WI PMSA Racine, WI PMSA Kenosha, WI PMSA	2,430,740 1,457,939 182,892 139,938		0.6 0.1 0.1
Rochester, MN MSA Milwaukee, WI Milwaukee-Waukesha, WI PMSA Racine, WI PMSA Kenosha, WI PMSA Sheboygan, WI MSA	2,430,740 1,457,939 182,892 139,938 108,326		0.6 0.1
Rochester, MN MSA Milwaukee, WI Milwaukee-Waukesha, WI PMSA Racine, WI PMSA Kenosha, WI PMSA Sheboygan, WI MSA Madison, WI MSA	2,430,740 1,457,939 182,892 139,938 108,326 393,296		0.6 0.1 0.1 0.0 0.1
Rochester, MN MSA Milwaukee, WI Milwaukee-Waukesha, WI PMSA Racine, WI PMSA Kenosha, WI PMSA Sheboygan, WI MSA Madison, WI MSA Janesville-Beloit, WI MSA	2,430,740 1,457,939 182,892 139,938 108,326 393,296 148,349		0.6 0.1 0.1 0.0 0.1 0.1
Rochester, MN MSA Milwaukee, WI Milwaukee-Waukesha, WI PMSA Racine, WI PMSA Kenosha, WI PMSA Sheboygan, WI MSA Madison, WI MSA Janesville-Beloit, WI MSA Chicago, IL	2,430,740 1,457,939 182,892 139,938 108,326 393,296 148,349 8,449,975		0.6 0.1 0.0 0.1 0.1 3.2
Rochester, MN MSA Milwaukee, WI Milwaukee-Waukesha, WI PMSA Racine, WI PMSA Kenosha, WI PMSA Sheboygan, WI MSA Madison, WI MSA Janesville-Beloit, WI MSA Chicago, IL Chicago, IL PMSA	2,430,740 1,457,939 182,892 139,938 108,326 393,296 148,349 8,449,975 7,724,770		0.6 0.1 0.0 0.1 0.1 3.2 2.9
Rochester, MN MSA Milwaukee, WI Milwaukee-Waukesha, WI PMSA Racine, WI PMSA Kenosha, WI PMSA Sheboygan, WI MSA Madison, WI MSA Janesville-Beloit, WI MSA Chicago, IL	2,430,740 1,457,939 182,892 139,938 108,326 393,296 148,349 8,449,975		0.6 0.1 0.0 0.1 0.1 3.2

Note: Columbia, South Carolina, is centrally located between two South Carolina cities — Charleston and Florence — and Augusta, Georgia. Though relatively small, Spartanburg, South Carolina, is centrally located between Greenville, South Carolina, and Charlotte, North Carolina. Also relatively small Burlington, North Carolina, is centrally located between Winston-Salem, Greensboro, Chapel Hill, Durham, and Raleigh. And tiny Williamsburg, Virginia is about halfway between Norfolk and Richmond.

	Estimated		%
Region / Vernal Center /	Population	Near	Total
Metropolitan Statistical Area	in July	Vern	1995
	1995	%	Pop.
Industrial Heartland	17,558,082	54.6	6.7
Ann Arbor, MI	6,483,941		2.5
Ann Arbor, MI PMSA	522,916		0.2
Detroit, MI PMSA	4,320,203		1.6
Flint, MI PMSA	436,381		0.2
Lansing-East Lansing, MI MSA	437,633		0.2
Jackson, MI MSA	154,010		0.1
Toledo, OH MSA	612,798		0.2
Indianapolis, IN	2,128,524		0.8
Indianapolis, IN MSA	1,476,865		0.6
Lafayette, IN MSA	167,879		0.1
Kokomo, IN MSA	100,226		0.0
Muncie, IN MSA	118,577		0.0
Terre Haute, IN MSA	149,769		0.1
Bloomington, IN MSA	115,208		0.0
Columbus, OH	2,570,078		1.0
Columbus, OH MSA	1,437,512		0.5
Mansfield, OH MSA	176,154		0.1
Dayton-Springfield, OH MSA	956,412		0.4
Akron, OH	4,032,365		1.5
Akron, OH PMSA	678,834		0.3
Cleveland-Lorain-Elyria, OH PMSA	2,224,974		0.8
Canton-Massillon, OH MSA	403,695		0.2
Youngstown-Warren, OH MSA	602,608		0.2
Sharon, PA MSA	122,254		0.0
Cincinnati, OH	2,343,174		0.9
Cincinnati, OH-KY-IN PMSA	1,591,837		0.6
Hamilton-Middletown, OH PMSA	315,601		0.1
Lexington, KY MSA	435,736		0.2
Rest of Region	14,592,979		5.6

Note: Ann Arbor, Michigan, is centrally located between four Michigan cities — Detroit, Flint, Lansing, and Jackson — and Toledo, Ohio. Akron, Ohio, is centrally located between Cleveland, Youngstown, and Canton.

%

Estimated

Figure B.11 (continued)

	Estimated		%
Region / Vernal Center /	Population	Near	Total
Metropolitan Statistical Area	in July	Vern	
Metropontari otatistical Area	1995	%	Pop.
Middle Atlantic	32,112,341	82.5	12.2
Pittsburg, PA	2,792,695	02.5	1.1
Pittsburgh, PA MSA	2,394,702		0.9
Wheeling, WV-OH MSA	2,394,702		0.9
Johnstown, PA MSA	,		0.1
	240,644		
Philadelphia, PA	7,499,618		2.9
Philadelphia, PA-NJ PMSA	4,950,866		1.9
Vineland-Millville-Bridgeton, NJ PMSA	138,058		0.1
Atlantic-Cape May, NJ PMSA	332,336		0.1
Wilmington-Newark, DE-MD PMSA	546,063		0.2
Allentown-Bethlehem-Easton, PA MSA	613,466		0.2
Reading, PA MSA	349,583		0.1
Lancaster, PA MSA	447,521		0.2
Dover, DE MSA	121,725		0.0
New York, NY	17,845,173		6.8
New York, NY PMSA	8,570,212		3.3
Nassau-Suffolk, NY PMSA	2,659,476		1.0
Newburgh, NY-PA PMSA	359,744		0.1
Newark, NJ PMSA	1,936,096		0.7
Jersey City, NJ PMSA	550,183		0.2
Bergen-Passaic, NJ PMSA	1,308,655		0.5
Middlesex-Somerset-Hunterdon, NJ PMSA	1,080,450		0.4
Trenton, NJ PMSA	330,305		0.1
Monmouth-Ocean, NJ PMSA	1,050,052		0.4
Rochester, NY	2,272,568		0.9
Rochester, NY MSA	1,088,516		0.4
Buffalo-Niagara Falls, NY MSA	1,184,052		0.4
Albany, NY	1,104,032 1,702,287		0.5
	, ,		0.0
Albany-Schenectady-Troy, NY MSA	873,361		
Glens Falls, NY MSA	122,559		0.0
Dutchess County, NY PMSA	262,062		0.1
Pittsfield, MA NECMA	135,743		0.1
Utica-Rome, NY MSA (93 miles)	308,562		0.1
Rest of Region	6,805,080		2.6
New England	10,460,300	78.6	4.0
Hartford, CT	4,491,528		1.7
Hartford, CT NECMA	1,115,223		0.4
New Haven-Bridgeport-Stamford-Waterbury-	, ,		0.6
New London-Norwich, CT NECMA	250,404		0.1
Providence-Warwick-Pawtucket, RI NECMA	907,801		0.3
Springfield, MA NECMA	592,587		0.2
Boston, MA	5,968,772		2.3
Boston-Worcester-Lawrence-Lowell-Brocktor	5,768,968		2.2
Barnstable-Yarmouth, MA NECMA	199,804		0.1
Rest of Region	2,844,811		1.1

	Estimated		%
Region / Vernal Center /	Population	Near	Total
Metropolitan Statistical Area	in July	Vern	1995
	1995	%	Pop.
Florida	10,204,768	71.9	3.9
Orlando, FL	2,516,802		1.0
Orlando, FL MSA	1,390,574		0.5
Ocala, FL MSA	226,678		0.1
Daytona Beach, FL MSA	448,904		0.2
Melbourne-Titusville-Palm Bay, FL MSA	450,646		0.2
Tampa, FL	3,272,372		1.2
Tampa-St. Petersburg-Clearwater, FL MSA	2,180,484		0.8
Sarasota-Bradenton, FL MSA	525,806		0.2
Punta Gorda, FL MSA	129,381		0.0
Lakeland-Winter Haven, FL MSA	436,701		0.2
Fort Lauderdale, FL	4,415,594		1.7
Fort Lauderdale, FL PMSA	1,412,165		0.5
Miami, FL PMSA	2,031,336		0.8
West Palm Beach-Boca Raton, FL MSA	972,093		0.4
Rest of Region	3,979,387		1.5
Population Near Vernal Centers	173,505,121		66.0
Total Population in All MSAs	209,595,501		79.7
Total Vernal Centers	50		
Minimum Population near a Vernal Center	1,620,436	0.6	
Maximum Population	7,499,618	2.9	
Median Population	2,667,650	1.0	
Mean Population	3,470,102	1.3	
Standard Deviation	1,601,359	0.6	
Harmonic Mean Population	2,884,822	1.1	

Note: Fort Lauderdale, Florida, is centrally located between Miami and West Palm Beach.

Source: Population estimates for July 1, 1995 are from the Census Bureau as reported on December 30, 1986.

Note: A more detailed version of this figure is available at <<u>http://www.vernalproject.org</u>>.

It is also possible that ten or twenty years into Vernal Phase 3 (Vernal Year 30 or 40), when the Vernal centers were strong and operating well, that the staffmembers could occasionally travel farther than 75 miles to recruit students, arrange internships, support study groups, and facilitate workshops. This might enable the Vernal Project to reach many excluded cities and more people who live in rural areas. If every Vernal center could periodically reach out 200 miles in every direction (instead of just 75 miles), then the fifty centers could reach almost all of the country. Only the states of Hawaii and Alaska and rural areas in northern Maine, the western plains, and the Rocky Mountains would be missed. If this were possible, the Vernal Project could then directly reach perhaps 90 – 95 percent of the total population.

Figure B.12: Distant MSAs Associated with Vernal Centers

Vernal Center	Distant MSA	Distance (Miles)
Fresno, CA	Bakersfield, CA MSA	112
Salt Lake City, UT	Las Vegas, NV-AZ MSA	419
Stillwater, OK	Wichita, KS MSA	127
Austin, TX	Waco, TX MSA	100
	Bryan-College Station, TX MSA	105
San Antonio, TX	Victoria, TX MSA	116
	Corpus Christi, TX MSA	153
Memphis, TN	Little Rock-North Little Rock, AR MSA	137
	Jackson, MS MSA	213
Nashville, TN	Chattanooga, TN-GA MSA	129
Birmingham, AL	Huntsville, AL MSA	95
	Montgomery, AL MSA	91
Columbia, SC	Charleston-North Charleston, SC MSA	113
Albany, NY	Utica-Rome, NY MSA	93

nal region* — generally in the most progressive regions first. These lead centers then establish centers in the rest of the region.†

I have assumed that the first center would be in Oakland, California to cover the San Francisco Bay Area. This would be the only center in Phase 1 of the project (Vernal Years 1 to 5). In each of the first two years, it would facilitate just a single session. The center would grow slowly over the next few years, facilitating only two sessions in Year 3 and three in Year 4. This would provide adequate time for the staffmembers to arrange retreat center rentals, establish relationships with internship organizations, attract students, and learn to work together as a team.

In the first three years, the team would comprise only three full-time equivalent (FTE) staffmembers, but in Year 4 it would have a full staff of four FTE. By the fourth

year, I assume the Oakland staffmembers would feel comfortable working together and their work procedures would be well established. Moreover, by that time the center should have established a good reputation in its area, making it relatively easy to attract new students.

In Year 5, the Oakland center would reach its full capacity of four sessions. In this year, it would also initiate the process of replicating the Vernal Program to other regions. As the first center, the Oakland center would have the special responsibility of seeding all the other regions. In Year 5, the Oakland center would hire the first new staff preparer who would then hire and prepare staffmembers for a new center in Philadelphia. Oakland staffmembers would also travel to Philadelphia at the end of this year to investigate possible internship organizations and retreat centers and to transmit their experiences to the new Philadelphia staffmembers.‡

[Text continues on page 264]

VERNAL CENTER REPLICATION

For the Vernal Project to be successful, it must rapidly establish fifty Vernal centers all across the country so that a critical mass of graduates are all working together and can see they are not alone in their efforts. Figures B.13 and B.14 show one possible way to propagate Vernal centers across the country. In this model, Vernal centers are first established in the largest and most progressive cities in each Ver* Note that some Vernal centers are located in relatively small cities that are located between large cities.

[†] In choosing the order and pace of replication, I had to balance the requirement that the Vernal Project expand rapidly against the imperative to minimize costs. I painstakingly adjusted the values in Figures B.13, B.14, B.15, B.16, B.17, B.18, and 6.12 to ensure they were reasonable, self-consistent, and resulted in the lowest overall cost.

[‡] One of the Oakland staffmembers might become the first new staff preparer. The Oakland center would then hire a new staffmember to replace this person. Also, some of the Oakland staffmembers might decide to move to Philadelphia and become the first staffmembers there.

Figure B.13: Possible Number of Vernal Sessions Beginning Each Year by Region and Center

	Vern			Ν	lumber of Ve Fach Year	ernal Sessior by Region	IS					Tot.
	Proj					egion						Per
Pha	Year	California	MidAtlantic	NCentral	IndHeart	PacMnt	TexOkl	SAtlantic	CenSouth	NEnd	Florida	
			Р	С	Α	S	Н	W	Α	В	F	
		а	h	h	n	е	0	a	t	0	t	
		k	i	i	n	a	u	s	1	s		
			I	c		t	s	h	a	t		
1	1	1	а	а	Α	t	t	i	n	o	L	1
	2	1	d	g	r	1	0	n	t	n	a	1
	3	2	е	ō	b	е	n	g	a		u	2
	4	3	I		0			t			d	3
	5	4			r			0			е	4
2	6	4	1					n			r	5
	7	4	1	1							d	6
	8	4	2	1	1						а	8
	9	42	3	2	1	1					I	13
	10	4 4 2	4	3	2	1	1				е	21
	11	4 4 4 2	4	4	3	2	1	1				29
	12	4 4 4 4 2	4	4	4	3	2	1	1			37
	13	4 4 4 4 4 2	4 2	4	4	4	3	2	2	1		48
	14	4 4 4 4 4 4 2	4 4 2	4 2	4 2	4	4	3	3	2	1	65
	15	4 4 4 4 4 4 4	4 4 4 2	4 4 2	4 4 2	4 2	4	4	4	3	2	85
	16	4 4 4 4 4 4 4	4 4 4 4 2	4 4 4 2	4 4 4 2	4 4 2	4 2	4	4	4	3	105
	17	4 4 4 4 4 4 4	4 4 4 4 4 2	4 4 4 4 2	4 4 4 4 2	4 4 4	4 4 2	4 2	4 2	4	4	128
	18	4 4 4 4 4 4 4	4 4 4 4 4 4 2	4 4 4 4 4 2	4 4 4 4 4	4 4 4 2	4 4 4 2	4 4 2	4 4 2	42	4	154
	19	4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4	4 4 4 4 4	4 4 4 4 2	4 4 4 4 2	4442	4442	4 4	42	178
3	<u>20</u> 21	4 4 4 4 4 4 4 4 4 4 4 4 4 4		4 4 4 4 4 4 4	44444	44444	44444	44442	44442	44	442	194 200
J S	21	$\begin{array}{c} 4 \ 4 \ 4 \ 4 \ 4 \ 4 \ 4 \ 4 \ 4 \ 4 $	4 4 4 4 4 4 4	4 4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	44444	44444	44	444	200
	22	4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	+ + + + + + + + + + + + + + + + + + +		4 4 4 4 4 1 1 1 1 1 1		4 4 4 4 4 1 1 1 1 1 1	4 4 4 4 4 4	4 4 4 4		200
	23 24	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 1 1 1 1 1 1 1 1	4 4 4 4 4 1 1 1 1 1 1	4 4 4 4 4 1 1 1 1 1 1	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 1 1 1 1 1 1	4 4 4 4 4 1 1 1 1 1 1	44	4 4 4	200
	24 25	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<u> </u>	4 4 4 4 4 4		4 4 4 4 4 4				4 4	4 4 4	200
	25	4 4 4 4 4 4 4 4 4	<u> </u>	4 4 4 4 4 4 4	4 4 4 4 4 4	4 4 4 4 4 4	4 4 4 4 4 4	4 4 4 4 4 4	4 4 4 4 4 4	44	4 4 4	200
	27	4 4 4 4 4 4 4	4 4 4 4 4 4 4	4 4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4	4 4 4	200
	28	4 4 4 4 4 4 4	4 4 4 4 4 4 4	4 4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4	4 4 4	200
	29	4 4 4 4 4 4 4	4 4 4 4 4 4 4	4 4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4	4 4 4	200
	30	4 4 4 4 4 4 4	4 4 4 4 4 4 4	4 4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4	4 4 4	200
Total										<u> </u>		3087
	30 year	′S										5007

Figure B.14: Possible Replication of Vernal Centers

						Vernal	Region			
Yr	Calif	MAtlan	NCentral	IndHeart	PacMnt	TexOkl	SAtlan	CSouth	NEngld	Florida
1 2 3 4 5 6 7 8 9 10 11 12 13	Oakland Oakland Oakland Oakland Oakland Oakland Oakland Oakland Oakland Oakland Oakland Oakland Oakland	-> Philade > Sacram > Los Ang > Los Ang > Los Ang > Los Ang > San Die Philadelpf > Fresno	Iphia > Chicago A 	Ann Arbor	- Seattle	> Houston	> Washingto	on > Atlanta	> Boston	- Ft. Lauderdale
15			nia> New Y Chicago A	Ann Arbor ork C > Minneap Ann Arbor	> Akron					
16		Philadelph	nia> Pittsbu Chicago A	> St. Louis	> Cincinna Seattle>	Phoenix	-> Arlington			
17		Philadelph	nia> Roche Chicago A	> Milwauke	ee > Indianap	oolis	-> Arlington -> San Anton Washingto	on> Williar		
18		Philadelph	nia> Albany Chicago A	, > Kansas (City Seattle>	Portland Houston -		Atlanta> on> Burlin Atlanta>	> Memphis	
19					Seattle>	Salt Lake C Houston -	-> Stillwater	on> Sparta Atlanta>		
20							Washingto	on> Colum Atlanta>	nbia > Birminghar	Ft. Lauderdale > Tampa n Ft. Lauderdale -> Orlando

Note: The lead center in each region is shown in **bold type**.

Inciting Democracy

In Year 6 (the beginning of Phase 2), the Oakland center would continue to facilitate a regular workload of four sessions and the new center in Philadelphia would facilitate a single session. In this year, the Oakland center and the new staff preparer would also establish a new Vernal center in Chicago. In Year 7, the Oakland center and the new staff preparer would establish a new Vernal center in Ann Arbor, Michigan. The Philadelphia and Chicago centers would each facilitate a single session, and the Oakland center would continue to facilitate four sessions.

In Year 8, the new Ann Arbor center and the Chicago center would each facilitate one session, and the Philadelphia center would facilitate two sessions. The Oakland center would continue to facilitate four sessions. By this time, the process of establishing new centers should be more routine and much easier. So in this year, the Oakland center and the new staff preparer would establish new centers in two cities: Seattle and Sacramento.

Since Sacramento is close to Oakland, and since the program in Oakland would be several years old by then and have developed a good reputation, it should be easier to arrange internships in Sacramento, find a good retreat center, and attract students. The Sacramento center would be the second center in the California region, so with its establishment, it would also be time to hire a regional administrator.

With support from the Oakland center and the regional administrator, the Sacramento center should have a big head start in getting established. So I assume it would be able to facilitate two sessions in its first year (Year 9) and four in its second year. In Year 9 there would also be a second new staff preparer to help hire, prepare, and support all the new staffmembers.

As shown in Figures B.13 and B.14, this procedure would continue until all fifty centers were established and each was facilitating a full load of sessions. The Oakland center would continue through Year 14 to establish centers in new regions (Houston, Washington, Atlanta, Boston, and Ft. Lauderdale) as well as new centers in the California region.

Each newly formed center in a region would facilitate just one session in its early years and slowly work up to full capacity. Once the first center in a region had reached full capacity, it would then help establish new centers in that region every year. For example, in Year 13, the Philadelphia center (which would then be eight years old) would help establish a new center in New York City. In Year 14, the Philadelphia center would establish a second center in New York City, the Chicago center would establish a second center in Chicago, and the Ann Arbor center would establish a new center in Akron, Ohio. In Year 15, the Philadelphia center would help establish a third new center in New York City, the Chicago center would establish a center in Minneapolis, Minnesota, the Ann Arbor center would establish a center in Columbus, Ohio, and the Seattle center would establish a center in Denver, Colorado.

As soon as there were two centers in a region, a regional administrator would be hired to provide accounting and payroll services and to coordinate cooperation between all the centers. Another 0.5 FTE administrator would be hired for each additional new center until there were twenty-five FTE in all. As the total number of Vernal staff grew, there would also be additional new staff preparers to help hire, prepare, and support the new employees. After the initial start-up period, there would be four new staff preparers. I assume that, with support from the regional administrators and new staff preparers, the second and subsequent centers in each region should be able to facilitate two sessions in their first year of operation and then jump to full capacity in their second year.

By following this rapid growth trajectory, the replication process could be fully completed in Vernal Year 21, the first year of Phase 3. The total number of sessions held each year would grow from just five in Year 6 to two hundred in Year 21. The total number of students entering each year would grow from 150 to 6,000.

Figure B.15 summarizes the number of sessions that would start in each region for the first thirty years.

NUMBER OF VERNAL STAFFMEMBERS

Figures B.16 and B.17 show the number of Vernal staffmembers and regional administrators required during the first thirty years of the Vernal Project in each region. Figure B.18 totals these values and indicates how many new staffmembers must be hired each year, assuming that an average staffmember leaves after six years (plus or minus two years). It also shows how many of these slots might be filled with Vernal graduates assuming that one graduate from each session would be available four years after that session had ended (plus or minus one year). With these assumptions, there would be more graduates available to become Vernal staffmembers than would be needed in every year after Year 14.

Figure B.18 also shows the number of staffmembers needed in the development phases. In the last year of Development Phase 1 and all three years of Development Phase 2, I assume there would be at least three people working together to promote the Vernal Project, develop the curriculum and workshop agendas, arrange internships, and facilitate the test sessions. However, I assume much of their effort would be volunteered. This figure only shows the number of paid staffmembers: one half-time person in the last year of Vernal Development Phase 1, one person in Year Prep-1, two people in Year Prep-2, and two and onehalf people in Year Prep-3.

Figure B.15: Possible Number of Vernal Sessions Beginning Each Year by Vernal Region

	Vernal Project			I		r of Ve h Year Reg	by Re		S			Total Per	
Phase	Year	Cal	MAtl	NCen	IndH	PMnt	TxO	SAtl	CSou	NEng	Flor	Year	Notes
D1													Test workshops:1 day long
D2	Prep-1												Test workshop:10 days long
	Prep-2												Test workshop:10 days long
	Prep-3	0.5										0.5	Pilot Session: 6 mon. long
1	1	1										1	First full session begins
	2	1										1	
	3	2										2	
	4	3										3	
	5	4										4	
2	6	4	1									5	Expand to other regions
	7	4	1	1								6	
	8	4	2	1	1							8	
	9	6	3	2	1	1						13	
	10	10	4	3	2	1	1					21	
	11	14	4	4	3	2	1	1				29	
	12	18	4	4	4	3	2	1	1			37	
	13	22	6	4	4	4	3	2	2	1		48	
	14	26	10	6	6	4	4	3	3	2	1	65	
	15	28	14	10	10	6	4	4	4	3	2	85	
	16	28	18	14	14 18	10 12	6	4	4	4	3	105	
	17 18	28 28	22 26	18 22	18 20	12 14	10 14	6 10	6 10	4 6	4 4	128 154	
	18	28 28	20 28	22 24	20 20	14 18	14 18	10 14	10	ю 8	4	154	
	20	20 28	20 28	24 24	20 20	20	20	14	14	0 8	10	178	
3	21	28	28	24	20	20	20	20	20	8	12	200	Project at full size
-	22	28	28	24	20	20	20	20	20	8	12	200	- j
	23	28	28	24	20	20	20	20	20	8	12	200	
	24	28	28	24	20	20	20	20	20	8	12	200	
	25	28	28	24	20	20	20	20	20	8	12	200	
	26	28	28	24	20	20	20	20	20	8	12	200	
	27	28	28	24	20	20	20	20	20	8	12	200	
	28	28	28	24	20	20	20	20	20	8	12	200	
	29	28	28	24	20	20	20	20	20	8	12	200	
	30	28	28	24	20	20	20	20	20	8	12	200	
Total for first 30		567	451	377	323	295	283	263	262	116	150	3,087	Note that Phase 3 continues until Project Year 60

Note: The last year of Phase D1 and all 3 years of Phase D2 are shown here, but are not included in the totals.

Figure B.16: Possible Number of Vernal Team Staffmembers Needed Each Year in Each Vernal Region

	Vernal		Number of Team Staffmembers Needed Each Year (Full-Time Equivalent)										Add'l
	Project					Regio						Staff	This
Phase	Year	Cal	MAtl	NCen	IndH	PMnt	TxO	SAtl	South	NEng	Flor	Needed	Year
D1	. D												
D2	Prep-1 Prep-2												
	Prep-2 Prep-3												
1	1	3.0										3.0	
	2	3.0										3.0	0.0
	3	3.0										3.0	0.0
	4	4.0										4.0	1.0
	5	4.0										4.0	0.0
2	6	4.0	3.0									7.0	3.0
	7	4.0	3.0	3.0								10.0	3.0
	8	4.0	3.0	3.0	3.0							13.0	3.0
	9	8.0	4.0	3.0	3.0	3.0						21.0	8.0
	10	12.0	4.0	4.0	3.0	3.0	3.0					29.0	8.0
	11	16.0	4.0	4.0	4.0	3.0	3.0	3.0				37.0	8.0
	12	20.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0			45.0	8.0
	13	24.0	8.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0		57.0	12.0
	14	28.0	12.0	8.0	8.0	4.0	4.0	4.0	4.0	3.0	3.0	78.0	21.0
	15	28.0	16.0	12.0	12.0	8.0	4.0	4.0	4.0	4.0	3.0	95.0	17.0
	16	28.0	20.0	16.0	16.0	12.0	8.0	4.0	4.0	4.0	4.0	116.0	21.0
	17	28.0	24.0	20.0	20.0	12.0	12.0	8.0	8.0	4.0	4.0	140.0	24.0
	18 19	28.0 28.0	28.0 28.0	24.0 24.0	20.0 20.0	16.0 20.0	16.0 20.0	12.0 16.0	12.0 16.0	8.0	4.0 8.0	168.0 188.0	28.0 20.0
	20	28.0 28.0	28.0 28.0	24.0 24.0	20.0	20.0	20.0	20.0	20.0	8.0 8.0	0.0 12.0	200.0	20.0 12.0
3	21	28.0	28.0	24.0	20.0	20.0	20.0	20.0	20.0	8.0	12.0	200.0	0.0
	22	28.0	28.0	24.0	20.0	20.0	20.0	20.0	20.0	8.0	12.0	200.0	0.0
	23	28.0	28.0	24.0	20.0	20.0	20.0	20.0	20.0	8.0	12.0	200.0	0.0
	24	28.0	28.0	24.0	20.0	20.0	20.0	20.0	20.0	8.0	12.0	200.0	0.0
	25	28.0	28.0	24.0	20.0	20.0	20.0	20.0	20.0	8.0	12.0	200.0	0.0
	26	28.0	28.0	24.0	20.0	20.0	20.0	20.0	20.0	8.0	12.0	200.0	0.0
	27	28.0	28.0	24.0	20.0	20.0	20.0	20.0	20.0	8.0	12.0	200.0	0.0
	28	28.0	28.0	24.0	20.0	20.0	20.0	20.0	20.0	8.0	12.0	200.0	0.0
	29	28.0	28.0	24.0	20.0	20.0	20.0	20.0	20.0	8.0	12.0	200.0	0.0
	30	28.0	28.0	24.0	20.0	20.0	20.0	20.0	20.0	8.0	12.0	200.0	0.0

Assumptions

Assume a team of four staffmembers (full-time equivalent) can facilitate four sessions and also attract new students, arrange internships, counsel and support students, research and prepare class materials, help prepare new staffmembers, and provide all necessary administration.

Assume that a team of three staffmembers can handle the workload for the first few years of each new center when it facilitates just one or two sessions.

Figure B.17: Possible Number of Regional Administrators Needed Each Year in Each Vernal Region

			Number of Regional Administrators Needed Each Year (Full-Time Equivalent)									
	Vernal			Eacl	n Year (/alent)				Region
	Project					Regi						Admins
Phase	Year	Cal	MAtl	NCen	IndH	PMnt	Tx0	SAtl	South	NEng	Flor	Needed
D1	- (
D2	Prep-1											
	Prep-2											
	Prep-3											
1	1											0.0
	2											0.0
	3											0.0
	4											0.0
	5											0.0
2	6											0.0
	7											0.0
	8	10										0.0
	9	1.0										1.0
	10	1.5										1.5
	11	2.0										2.0
	12 13	2.5	1.0									2.5 4.0
	13	3.0 3.5		10	10							4.0 7.0
		3.5 3.5	1.5	1.0	1.0	10						
	15 16	3.5	2.0 2.5	1.5 2.0	1.5 2.0	1.0 1.5	1.0					9.5 12.5
	17	3.5	2.5 3.0	2.0	2.0	1.5	1.5	1.0	1.0			12.5
	18	3.5	3.5	3.0	2.5	2.0	2.0	1.5	1.5	1.0		20.5
	19	3.5	3.5	3.0	2.5	2.0	2.0	2.0	2.0	1.0	1.0	20.5
	20	3.5	3.5	3.0	2.5	2.5	2.5	2.0	2.0	1.0	1.5	25.0
3	21	3.5	3.5	3.0	2.5	2.5	2.5	2.5	2.5	1.0	1.5	25.0
Ŭ	22	3.5	3.5	3.0	2.5	2.5	2.5	2.5	2.5	1.0	1.5	25.0
	23	3.5	3.5	3.0	2.5	2.5	2.5	2.5	2.5	1.0	1.5	25.0
	24	3.5	3.5	3.0	2.5	2.5	2.5	2.5	2.5	1.0	1.5	25.0
	25	3.5	3.5	3.0	2.5	2.5	2.5	2.5	2.5	1.0	1.5	25.0
	26	3.5	3.5	3.0	2.5	2.5	2.5	2.5	2.5	1.0	1.5	25.0
	27	3.5	3.5	3.0	2.5	2.5	2.5	2.5	2.5	1.0	1.5	25.0
	28	3.5	3.5	3.0	2.5	2.5	2.5	2.5	2.5	1.0	1.5	25.0
	29	3.5	3.5	3.0	2.5	2.5	2.5	2.5	2.5	1.0	1.5	25.0
	30	3.5	3.5	3.0	2.5	2.5	2.5	2.5	2.5	1.0	1.5	25.0

Assumptions

Assume each region needs an additional 0.5 FTE administrator for every Vernal center in that region when there are two or more centers in a region. Administrators would provide accounting and payroll services and coordinate cooperation between the centers.

Figure B.18: Possible Total Number of Vernal Staffmembers Needed Each Year

			Staffmembers - Number of Full-Time Equivalent Required Opera- (Facilitate, Administrate, Hire/Prepare New Staff)											
		Num of	Total			(Facilitat	e, Administ New				Do avuino d			
		Num. of Students	Ses-	tional Vernal	Teem	Devien	Staff	Total Paid	New Staff	Avail. Vernal	Required			
Phase	Year	Enrolled	ses-	Centers	Team Staff	Region Admin.	Preparers	Staff	Needed	Grads	from Outside			
D1	rear	Enronea	SIONS	Centers	0.5	Aumin.	Preparers	0.5	0.5	Graus	0.5			
D1 D2	P-1	30	0.2		1.0			1.0	0.5		0.5			
	P-2	30 30	0.2		2.0			2.0	1.0		0.5 1.0			
	P-3	30	0.2		2.5			2.5	0.5		0.5			
1	1	30	1	1	3.0			3.0	0.5		0.5			
	2	30	1	1	3.0			3.0	0.0		0.0			
	3	60	2	1	3.0			3.0	0.0		0.0			
	4	90	3	1	4.0			4.0	1.0		1.0			
	5	120	4	1	4.0		1.0	5.0	2.0	1.0	1.0			
2	6	150	5	2	7.0		1.0	8.0	3.5	1.0	2.5			
	7	180	6	3	10.0		1.0	11.0	3.5	2.0	1.5			
	8	240	8	4	13.0		1.0	14.0	3.5	3.0	0.5			
	9	390	13	6	21.0	1.0	2.0	24.0	10.5	4.0	6.5			
	10	630	21	8	29.0	1.5	2.0	32.5	10.0	5.0	5.0			
	11	870	29	10	37.0	2.0	2.0	41.0	10.5	6.0	4.5			
	12	1,110	37	12	45.0	2.5	2.0	49.5	11.0	9.0	2.0			
	13	1,440	48	15	57.0	4.0	3.0	64.0	19.0	14.0	5.0			
	14	1,950	65	20	78.0	7.0	3.0	88.0	30.0	21.0	9.0			
	15	2,550	85	24	95.0	9.5	3.0	107.5	27.0	29.0				
	16	3,150	105	29	116.0	12.5	4.0	132.5	34.0	38.0	_			
	17	3,840	128	35	140.0	16.5	5.0	161.5	41.0	50.0	_			
	18	4,620	154	42	168.0	20.5 23.5	5.0	193.5	48.0	66.0	_			
	19 20	5,340 5,820	178 194	47 50	188.0 200.0	23.5 25.0	5.0 4.0	216.5 229.0	42.5 36.5	85.0 106.0	_			
3	20	6,000	200	50	200.0	25.0	4.0	229.0	30.0	129.0				
	21	6,000	200	50 50	200.0	25.0	4.0	229.0	36.0	129.0				
	23	6,000	200	50 50	200.0	25.0 25.0	4.0	229.0	38.5	175.0	_			
	24	6,000	200	50 50	200.0	25.0	4.0	229.0	40.5	190.0				
	25	6,000	200	50	200.0	25.0	4.0	229.0	39.5	198.0	_			
	26	6,000	200	50	200.0	25.0	4.0	229.0	38.5	200.0	_			
	27	6,000	200	50	200.0	25.0	4.0	229.0	36.5	200.0	_			
	28	6,000	200	50	200.0	25.0	4.0	229.0	36.5	200.0	_			
	29	6,000	200	50	200.0	25.0	4.0	229.0	37.0	200.0	_			
	30	6,000	200	50	200.0	25.0	4.0	229.0	38.5	200.0				
Total for first 30		92,610	3,087						705.5	2,285.0	39.0			

Note: The last year of Phase D1 and all 3 years of Phase D2 are shown here, but are not included in the totals.

Assumptions

Assume that for every 10 (or so) new staffmembers hired in a year, there is a new staff preparer to help hire, prepare, and support them. Assume that staffmembers work for 6 years (± 2 years) and then retire or move on to other work.

Assume that 4±1 years after each session, one graduate from that session is available to become a staffmember.

Assumptions about the Development Phases

Even though there would be only a single ten-day workshop in Years Prep-1 and Prep-2 and a six-month pilot session in Year Prep-3, assume that preparing for these workshops and for the rest of the project requires staffing at the levels shown.