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Women Building Sustainable Communities

Comondú, Baja California Sur, Mexico

MARTHA ADRIANA MÁRQUEZ-SALAICES AND MANUEL ÁNGELES

In the municipality of Comondú, Baja California Sur (BCS), in northwestern Mexico, agricultural and ranching activities have negatively impacted the environment. These activities threaten socioeconomic sustainability and the quality of life for the region's population, affecting rural women in particular. The existing economic model in the region also reflects a lack of coordination among organizations, agencies, and the people themselves—once more, chiefly the women. In this chapter, we present the results of work done through collaborative-action research with a women's group in Ejido 5, a rural community in Comondú. Our research investigated the building of sustainable communities through a socioecological gated the building of sustainable communities through a socioecological approach. We looked to the socioecological framework as a complement to approach. We looked to the socioecological framework as a complement to ons participatory mechanisms. These mechanisms seek out diverse ways of ons participatory mechanisms. These mechanisms seek out diverse ways of

knowing, often held by women and those with less political power, and use that knowledge to better understand the interactions between human and environmental systems. Our results underscore why we view the socioecological approach as a necessary complement to current thinking on human logical approach as a necessary complement to current thinking on human security. Further, it aims to demonstrate that women's empowerment is an absolute requirement to mobilize and organize society toward a nonlinear and gender-equal sustainability management.

The municipality of Comondú has a total land area of 12,547.3 square kilometers, which accounts for 17 percent of the total area of BCS; this makes it the second largest municipality in the state and the eighth largest in the nation. The municipality is divided into two regions, the Valley of Santo Domingo and the Central Pacific region. The valley's main activities are agricultural, an area that has boomed since 2000 through the production of legumes and vegetables for the international market; livestock, fisheries, and aquaculture have also flourished recently. Additionally, the magnificent beauty of the region's mountain ranges and seasonal whale-watching activities in coastal towns have expanded nature tourism and created hope for further development.1 Nonetheless, the benefits of economic growth have been garnered mainly by a small class of landowners, with little spillover to the general population. During the last quarter century, overall employment conditions have been such that from 1990 to 2010, the year of the last census, the population in the region decreased from 74,346 to 70,816. Many people of working age have been drawn to then-booming Los Cabos and to La Paz, the state capital. Two thirds of the population live in the municipal capital, Ciudad Constitución, in the middle of the valley.2

To understand more about the recent trends in population decline, we must examine the history of Comondú. The Valley of Santo Domingo was opened to settlers in the 1940s, when the Mexican government launched a colonization program with two ends in mind: "first, to populate this little-inhabited region and thereby forestall perceived annexation attempts by the United States, and second, to respond to the demands for land by farmhands from the center of the Republic—demands that could not be met in their hometowns."

The policy and the drive for colonization began in earnest when Governor Agustín Olachea (1946-52) instituted a series of policies related to

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the drilling of deep wells), the delivery of agricultural machinery of as supplies and seeds), and credit (establishment of credit as well as supplies and seeds), and credit (establishment of credit unions). In (as well as surf (as surf (a a similar last the needs of the region and were key to the creation of seventy-three pomingo from across the entirety of Mexico The C Domingo from across the entirety of Mexico. The Green Revolution Santo Donner extended into the Central Pacific rocine. Development extended into the Central Pacific region (see map 1) and sub-Sequently brought forth the creation of ejidos, the traditional Mexican form of communal property. However, overextraction of water and the misuse of the land brought about the salinization of the water wells that had previously sustained agriculture and cattle-raising, while the increased use of pesticides led to the pollution of the soil.

In the past, a pattern existed where land-use practices resulted in the environmental destruction of agricultural lands. A similar model continues to operate today, where these practices operate under a scheme of increased use of technology in export agriculture. The view of nature as an "input" for the production chain, rather than as an element of the socioecological system, continues to deplete environmental resources. Crucially, these environmental resources are needed for the survival of the people living in the valley as well as the Central Pacific region. In terms of social conditions, the latest United Nations (UN) Human Development Index (HDI) reports that Comondú is in fourth place among the five municipalities extant in BCS. The state itself is fourth in the national ranking of states, which is led by Mexico City with a value of 0.830 (similar to Andorra's), while BCS's HDI value makes the state similar to Bulgaria.5

In the context of these statistics and recent Latin American research on human security, the reality is that in Latin America—where few if any of the UN's Millennium Development Goals have been met, and ancestral Poverty and increasing inequality prevail—communities are unsustainable in many in many ways. To increase sustainability in farming communities, we pro-Pose that the human security approach needs to be complemented with emerging of emerging theoretical schemes and practical, strategic courses of action that may enhanced may enhance the welfare of the population at large. Concretely, the aim of the tesearch we tesearch was to look into the possibilities of building sustainable communities through ties through a socioecological approach in which women's empowerment is

a key requirement to mobilize and organize society toward a nonlinear and gender-equal sustainability-management system. In this chapter we present some results of work done through collaborative-action research with a group of women in Ejido 5, a rural community in Comondú.

We bring to our work a deep regard for the different kinds of knowl. edge about the interactions of groups in relation to nature and the community. We specifically seek to incorporate these diverse knowledges in the construction of new possible courses of sustainable action. By seeking these knowledges, we can begin to understand how the people of Comondú, particularly rural women, view ecological and human processes. To allow for different kinds of knowledge to be recognized, we have elected to use a qualitative methodology following the participatory action research approach proposed in Stephen Kemmis and Robin McTaggert's critical emancipatory model.7 The lens used is that of Latin American social ecology, a transdisciplinary field of research and practice founded by Eduardo Gudynas, a researcher at the Uruguayan National Research and Innovation Agency as well as a research associate at the Department of Anthropology at the University of California at Davis. Gudynas's research examines the environmental and social impacts of current South American development strategies and looks for alternative paths to sustainability based on the rights of nature. Gudynas is the first Latin American thinker and activist to be appointed Arne Naess Professor of Global Justice and Environment, which recognizes an ongoing commitment to deep ecology.8 Gudynas has been at the forefront of indigenous peoples' struggles to gain official recognition of their right to their ancestral lands and has been a critic of government policies of dependence on the extraction of mineral wealth from those lands.

REFLECTIONS ON SUSTAINABILITY

Most people in Comondú face enormous social, economic, political, and environmental challenges, which together have created a multidimensional crisis. We consider the crisis to be the product of a socioecologically unsustainable, growth-dependent economic model that has profoundly shaped our social, production, and power relations, including our way of doing and using science, for over half a millennium. This model—capitalism, now in its neoliberal, financialized manifestation—requires a radical transformation:

Sustainable Communities. Comonau, Baja California Sur, Mexico what Kenneth Boulding called a "cowboy economy," in which land resources are seen as inexhaustible to ""

"" where resources are by definition." of from what resources are seen as inexhaustible, to a "spacerogo from what resources are seen as inexhaustible, to a "spacerogo from what resources are seen as inexhaustible, to a "spacerogo from what resources are seen as inexhaustible, to a "spacerogo from what resources are seen as inexhaustible, to a "spacerogo from what resources are seen as inexhaustible, to a "spacerogo from what resources are seen as inexhaustible, to a "spacerogo from what resources are seen as inexhaustible, to a "spacerogo from what resources are seen as inexhaustible, to a "spacerogo from what resources are seen as inexhaustible, to a "spacerogo from what resources are seen as inexhaustible, to a "spacerogo from what resources are by definition limited.9" are seen as inexhau where resources are by definition limited.9 whip economy, where model of capitalism being indeed, the current model of capitalism being indeed.

cconomy, the current model of capitalism, based on an inexhaustible Indeed, the current pushing the Earth to its limited. Indeed, the planet is fast approaching these limits are numerous Table pply of resource is fast approaching these limits are numerous. Indeed, in a how the planet is fast the 2012 Rio+20 Conference on behalf at the the planes are numerous. Indeed, in a how the presented at the 2012 Rio+20 Conference on behalf of the British document presented. Kate Raworth decries the lack of follows-the document of the British document of the Raworth decries the lack of follows-the document of the British document of th document production on behalf of the British document Oxfam, Kate Raworth decries the lack of follow-through on comtharity oxfam, made twenty years earlier in the original Rio Summit 10 2 tharity Oxion. Oxion of Iohan Rockström and his colleagues. Ramont. Referring nitments man Rockström and his colleagues, Raworth points to nine to the work of Johan Rockström being broached or threaten in nothe Wolfe of the worth points to nine for t odo with climate change, freshwater use, nitrogen and phosphorous cycles, podo with climate change, chemical pollution atmospheric ocean acidification, chemical pollution, atmospheric aerosol loading, ozone depletion, biodiversity loss, and land-use changes. While the dimensions of these global problems are becoming better understood, there is still a lack of adequate and universally agreed-upon indicators, as the Sitglitz Commisof autquessed several years ago. 12 Underscoring Oxfam's concern with both environmental and social justice, Raworth insists that there is a two-way street between ecological predicaments and social problems, as they tend to reinforce each other. 13 The sufficient provision of food, employment opportunities, clean water, sewage systems, and other resources required to fulfill human needs and rights is not available in many countries, predominantly in the Global South but also in certain areas of the Global North.

Therefore, the ways out of our present unsustainable conditions demand more than the dated discourse of the three pillars that defined the Brundtland Commission report of 1987, which, while it may have been useful in the 1980s, has been overtaken by the debt-driven consumption surge of the early 2000s as well as by the continued profitability of global extractions 14.77 tractivism. 14 Elmar Altvater has argued that against the increasing pressures to "impression of the contraction of the contraction of the contract of the con to "improve competitiveness" in globalized space (an ever-present feature of the current the current economic model), corrective measures such as a reduction in fossil final fossil fuel consumption can only happen as a result of collective (i.e., social) action. 15 action,15

For Gudynas, the ambiguous positions that the Brundtland Commission report espoused on the relations between growth, development, and nature last and nature led over time to a plethora of (differentiated) approaches to

sustainability—weak, strong, social, superstrong, and so forth. In particular superstrong sustainability includes the consider lat, Gudynas stresses that superstrong sustainability includes the consideration lateral aesthetic, religious, and other valuations in addition lar, Gudynas stresses that superior of social, cultural, aesthetic, religious, and other valuations in addition to of social, cultural, acsureus, accommic and ecological matters. Gudynas's superstrong sustainability is based on a biocentric conception of the relationship between humans and nature and a concern for human quality of life based on community empow.

Preventing the continued deterioration of ecosystems involves many different dimensions, including maintaining the integrity of biodiversity as well as individual quality of life. 18 Amartya Sen proposes that "devel. opment" refers to an increase in the worth of human life rather than the wealth of the nations in which human beings live, as this is just one com. ponent of life itself.19 Consequently, the interdependence between the environment and development needs to include not only environmental conservation and economic "progress" but also a concern for human rights, population, housing, food security, and gender. As Leticia Delgado-Cobas has noted, "the challenge of sustainability is for individuals and institutions to act with concern for the present and the future, sharing equally in the resources on which the survival of human and other species depend."20 Thus, a new, alternative development model must be built by an active citizenry so as to be able to meet "present and future needs equally among the various

From the perspective of superstrong sustainability, people-based community building becomes participatory and consultative by necessity, and politics have a larger role than the administrative duties typically seen in nation-states. Thus, Armando Páez G. maintains that to be significant, visions of an ecological society must take a political form—politics being seen as a democratic exercise that brings proposals, discussions, and rational explanations and results in face-to-face decisions.²² Politics, then, must be an agent for transformation.

This requirement calls for understanding and finding solutions lives—a manufacture of the political participation in building sustainable lives—a very sensitive issue, especially for women and girls. Women making power is a series of their low decision making power is a series of their low decision. making power in the home, community, labor market, and government.

The result is al. The result is that they are afforded too few chances to improve their

Sustainable Communities: Comondú, Baja California Sur, Mexico which sets the stage for continuing disparities from strain to the next.²³ sets on to the next.23

CONSIDERATIONS ON LATIN AMERICAN SOCIAL ECOLOGY

American social ecology has emerged in recent years as part of Latin America's efforts to engage in new environmental-systems thinking. This ap
America's efforts a set of ethical principles and methodologies 6. proper la set of ethical principles and methodologies from different proper la logical visions of sustainability based upon people. prode empiration of sustainability based upon neoclassical economics and acciplinary stances now prevailing in the positivist disciplinary stances now prevailing in many parts of the The origins of social ecology may be traced to the Chicago school of morld. The city as a laboratory for the (analism) man was strang of urban strangers as a laboratory for the (qualitative) study of human naturalistic methods based on and the strangers of the stran The most and the start of the s pominent framework that grew out of this school is the Burgess model, where the city was seen as an ecological system and urban expansion was understood 25 the result of the competition for space between early and late settlers, with outcomes depending on economic levels and other social characteristics.²⁵

Although this and other schools of human and social ecology have been meated and/or proposed,26 a new, uniquely Global South-inspired social ecology has been developed at the Centro Latino Americano de Ecología So-(CLAES),27 with Eduardo Gudynas as its main voice.28 This new model of thought speaks to a broad concept of social ecology, defined as the study of the interactions of human and environmental systems. Per Gudynas, both systems are equally important, and so are their interactions, as is the relationship between social ecology and his conceptualization of sustainability. As Martha Adriana Márquez-Salaices has explained, Latin American sodecology seeks to build sustainability on the basis of new ways of valuing nature and organizing society, founded on autonomy, self-sufficiency, selfdefense, and community self-management. 29 The construction of this approach Proach to sustainability through Latin American social ecology depends Gudynas C. 1 11-20 Well as com-Gudynas finds in conventional approaches to sustainability, as well as com-Munity participation. 30 That is to say, sustainability must mean a profound transformation. hansformation of production and consumption processes as well as the power of the production and consumption processes as well as the power of the p Structures that they are embedded in, through participative management of natural resources. Deep sustainability "is not restricted to economic or to logical value" but goes beyond them to propose multiple forms of valuation (social, economic, ecological, cultural, biotic, etc.).31

Most relevant to the project described in this chapter is how Land Most relevant to the property of participation." Indeed, this approach of American social ecology discusses "participation: superficial and defeated American social ecology

American social ecology

ferentiates between two types of participation: superficial and deep. Superior superficial superficial superficial superior superficial super perficial participation is characterized by the unidirectional action of the external agent, who forms a group and proposes a possible joint project, with the group being "part of" the joint work. In marked contrast, deep participation is characterized by the agent "taking part in" the work of the local communities involved in political actions. Gudynas and Graciela Evia have defined deep participation as profound involvement with others in seeking answers to common problems, "not to make the opinions of the few [i.e., the external agent] the view of the majority, but to rediscover majority opinion and question the views of the few."33 This is done through a process of interactive approximations, whereby both the external agent and the community group modify their initial perceptions and inferences. An example might be the community and external agent working together to rediscover the natural and socially constructed built components of the community's environment and mode of life. In this process of rediscovery, all opinions must be listened to, as all knowledges are valid. Gudynaas and Evia add that "the external agent might think she knows her truth, but must respectfully listen to all truth."4

We find it useful to contrast deep participation with the profound failings in the Comondú municipality's development model. Indeed, in contrast to deep participation, the kind of participation promoted by Comondús government is based on an individualistic rationale that does little to foster coordination among organizations, agencies, and the people themselves to construct a sustainable community. Deep participation would be characterized by the full political and social participation of all members of the community in decision-making processes that rest on socioecological justice—for example, how to improve quality of life by securing a supply of basic foodstuffs while applying ecological principles in local agricultural practices. In our research, a content analysis of news stories found that the government promoted a more superficial participation in political, economic, and social programs. This type of participation occurs because many of these programs are created and managed by the federal government and transferred to the community without real local engagement. We

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propose that deep participation could lead to local solutions that advance propose that advance programs and create greater capacity for community organization and environmental conservation. community organization and environmental conservation. Additionally, direct involvement of the community could lead to the development of new ocioecological paradigms.

A new paradigm developed directly with local actors would reflect the type of "sustainability" defined above. This conceptualization would cut the type of across all aspects of life, rather than just the pursuit of economic or environmental advantages. Seeing actors as constructors of sustainability in a new socioecological paradigm would place nature as part of a system of socioecological interdependence. In this way, nature would be at the center of the discussion and, as such, would generate new approaches to environmental valuation. Specific to Comondú, new approaches would emphasize the high-entropy character of the agricultural model that grew out of the Green Revolution, appealing to the incommensurability of nature and transgenerational responsibility. This would be of importance to Comondú in terms of achieving a more rational use of water and adopting agricultural practices free of environment-poisoning chemicals, while keeping in mind the needs of our descendants. In keeping with the postulates of Latin American social ecology, our research seeks answers to social questions and to the empowerment of the women's group of UMAFOR 302, as discussed below.

According to Enrique Leff, to be open to superstrong sustainability is a way to a "new dawn" that involves the deconstruction of some of the ideas that formed the basis of an "actually existing modernity," 38 guided by the ideas of progress and limitless growth. In contrast, a new dawn would work through deep ecology and a continuing dialogue between knowledge and environmental rationality, leading to sustainable communities in a healthy planet. The new social ecology examines the relations between people and local environmental systems from an ethically committed praxis.

This are This means that in social ecology, practitioners will "ask" the people how they "so." they "see" the environment, rather than relying on the description of a technician relying on the description relying on the description of a technician relying on the description of a technician relying relation relying relation relying relying relation relying relation relying relation relying relation relation relying relation relying relation re nician who is removed from the local context.39

STUDY RATIONALE

Many studies have been made, plans drawn up, and research projects financed by institutions, academic and otherwise, within the various cities

and municipalities of BCS. Citing the importance of Comondú as the main agricultural and ranching center of the state and, as such, an immain agricultural and fairly such, an inportant foreign-exchange of the economy in the municipality, focusing prices the environmental impact of the loss of water supplies. This is in the loss of water supplies. the environmental impact of the loss of water supplies. This is important marily on soil exhaustion and the loss of water supplies. This is important marily on soil exhaustion and the loss of water supplies. This is important marily on soil exhaustion and the loss of water supplies. marily on soil exhaustion the state's gross domestic because agriculture accounts for only 5 percent of the state's gross domestic because agriculture accounts for only 5 percent of its water. The unbeint product but absorbs close to 80 percent of its water. The unbridled ques for private economic gain by a few propertied families has been made evident through research that documents the parallel degradation of ecosystems and resulting public health issues. However, few (if any) studies or programs fully include the social dimension, meaning how the population earns its liv. ing, how people work and rest, and what means are at their disposal. Instead when the social components of environmental degradation are addressed they focus on general descriptions at the municipal level, often through the use of national or international socioeconomic indicators in order to comply with the letter of federal financing programs. They rarely go beyond the municipal to the community level and seldom (if ever) address the everyday life of small communities. This study seeks to correct this omission.

THE PRAXIS OF SOCIAL ECOLOGY IN EJIDO 5, COMONDÚ

In a social ecological approach, knowledge can take many forms, and different ways of knowing related to people's interactions with nature may create new paths toward a sustainable future. In this project, we can capture an alternative approach to knowing by engaging in participatory research. The participatory practices that inform this type of research are such that results both come from and go directly back to the people who need them and can best use them. 41 A primary aim of participatory research is to promote the self-organization of marginalized groups—in our case, rural women. In Co mondú, the aim is to enable them to make their voices heard in their own nues that will it is beyond, by making proposals in search of economic aver nues that will alleviate the precarious conditions of their lives, demanding accountability as well as support from local and state authorities, and participating in municipality as well as support from local and state authorities, and participating in municipality. of these processes and a support from local and state authorities of the of these processes took place at two levels: (a) field work in the sphere of the interacting group courses at two levels: (a) field work in the sphere of the by agendas of discussion interacting wisits, meetings, and interviews, all directed by agendas of discussion in accordance with the interests of the community Women B

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the work of analyzing findings and disseminating results as well as building relations with institutions.

Our work with the group of women in Ejido 5 is characterized by Our work

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The Ejido 5 is characterized by

basic dimensions: scientific research, action, and advocacy. Following the tenets of the participatory research embedded in social ecology, we folthe requirement that both research and practice be done from an ethical sandpoint. 42 We list the stages of the research in table 1 (appendix) and report on the entire research method below. We also include discussion of how we entered into the community and results of the interactive process, relying on the terminology employed in Gudynas and Gudynas and Evia.43

ENTRANCE AND DIAGNOSTIC ANALYSIS OF REALITY OF COMONDÚ

The Association of Forestry Producers of Comondú, a nongovernmental forest management unit (UMAFOR, for its Spanish acronym) that aims to achieve sustainability through orderly planning of forest activities and efficient management of forest resources, was selected as our case study. UMAFOR 302, the designation of this specific forest management unit, is composed of 857 farmers and their families and covers an area of more than 134 million hectares (see map 2, appendix). The main factors affecting the population of this UMAFOR are (a) the overuse of timber resources as wood for charcoal production, (b) overgrazing by land-intensive, nomadic livestock, and (c) the absence of planning and technical assistance. These conditions lead to low incomes, little economic diversity, and the emigration of the younger population to big cities or to the United States, seeking a better quality of life.

The first step in our work was to understand the perceptions held by local forestry producers and the overall population about environmental Problems in the area. Interviews, guided by a standard fifty-two-item quesdionnaire were conducted with fifty-two members of six of the ten communities. of respective to the UMAFOR (see table 2, appendix). A large proportion of tespondents were involved in religious groups, but no responses were recorded for involvement in political activity, likely due to the negative conno-

tations that the word "political" carries. When asked which aspects of the environment came to their mind by nature asked which aspects of the environment carrie to by nature asked which aspects of the environment carrie to be by nature asked which aspects of the environment carrie to be by nature asked which aspects of the environment carrie to be a second to be a by nature protection and conservation. Environmental problems were of

concern for over 66 percent of respondents. Almost 40 percent said that health care was the foremost issue in their minds, again followed by environ.

The reduction of poverty levels was an important mental protection. The reduction of poverty levels was an important issue for 25 percent of interviewees; interestingly, this is roughly the proportion that does not own their home. The lack of maintenance and proper illumi. nation of green areas was also seen as an important problem. Additionally, 73 percent of respondents thought that individual actions, in general, did not have important consequences for the environment; fewer than 25 per. cent thought that individual actions did have consequences. However, a very high proportion of those interviewed saw human action as being responsible for environmental damage, while 25 percent thought not. Further, more than 50 percent of the answers indicated that people saw themselves as responsible for environmental harm, and only 2 percent thought they were not. Still, in acting for the improvement of the environment, over 80 percent reported that they would not wait to see what others would do; thus, perhaps tellingly, only 12 percent thought that only collective actions would be useful.

Almost 66 percent believed that the condition of the environment had remained constant in recent years; over 25 percent said it had improved, and only 10 percent saw it as worse. The solutions to practices harming the environment were seen to lie in stricter laws, environmental education programs directed at the entire population, and mandatory payments for environmental costs, in that order. Finally, the groups provided suggestions to the Comondú municipality for improving environmental conditions, ranging from increasing the presence and attention of the authorities in the communities, to working on the problem of waste collection and management, to enforcement of existing laws.

These preliminary, questionnaire-guided interviews showed the rather complex and, at times, contradictory perception of forestry producers in relation to the municipality's environmental problems. More than half of respondents had a general concern for environmental problems. Although vironment, the solutions they would not personally wait to protect the environment, the solutions they suggested to protect the environment placed responsibility on policy and education—actions directed by the government. Further, respondents showed contradictory perceptions regarding the assignment of responsibility for environmental degradation and whether such degradation had occurred in the first place.

To gather additional information and decide on the location of our To gather the conducted in-depth interviews with the aspricipatory in board and community representatives. From the information solution in meetings with board members such as the process. printions board members such as the president of the movided in meetings with board members such as the president of the Ejidal Santo Domingo (the commissariat of ejida 1-11 provided in Ejidal Santo Domingo (the commissariat of ejido land tenants) comission spiral and the treasurer of the association, our initial choice was and the secretary and the treasurer of the association, our initial choice was and the secretary Domingo since it is the largest in size and population. However, population. However, reported negative experiences from a recent community land manproject funded by a La Paz nongovernmental organization (NGO) general projection of a new greenhouse financed by the National Commission (which offered temporary and Commission (which offered temporary employment to members the community, mostly males), no interest was shown in our research we then approached Ejido 5, where the women and families of the registered forestry producers agreed to participate. They had no paying ibs, had free time in which to participate, and were eager to explore opporunities to improve their low-income status. Sixteen women constituted our participation group (see table 3, appendix).

We held three discussion sessions. These discussions focused on (1) a diagnostic analysis of the kinds of knowledges that the women participants had about the interactions of the community with nature, (2) their ways of organizing the assignment of different tasks, and (3) their feelings about the valuation of nature. These discussions were guided by the following set of questions: (1) "What kinds of production projects has the community been involved in?"; (2) "What were their positive aspects?"; and (3) "What were their negative aspects?" From these discussions, the women participants that the following information:

1. Participants had experience with the development of sustainable projects such as greenhouses, planting cacti, backyard gardens, and animal husbandry. The community had good relations with the Agricultural Industrial Unit for Rural Women, a rural development initiative of the Mexican federal government that seeks to improve living conditions in poor rural areas. However, that organization does not allow new members. Therefore, participants proposed the creation of a more inclusive project to strengthen ties within community and with the government.

- 2. The main issues participants faced were financial and/or market. related in nature. For example, participants shared that projects ran out of capital due to lack of formal marketing strategies that would ensure the sale of their products. This central issue led many participants to converge on a main practical issue, the development of organizational capabilities, as well as addressing challenges to bring projects to fruition. Crucially, as Latin American social ecology is not only about the environment but also about the attitudes, actions, practices, and policies required for a more sustainable future, the answer to questions of organizational development were necessarily considered from the perspective of the actors—the women—who participated in this research.
- 3. Respondents were aware of the existence of a recent biometric study done by a private consulting firm specializing in forestry studies (and paid for by the Regional Association of Forestry Producers). Participants expressed a need to learn the study's results, as they feel that their current knowledge of local flora and fauna is inadequate for them to become leaders in sustainable management.
- 4. Considering existing federal guidelines for the submission of proposals for the constitution of Community Forestry Enterprises (Empresas Forestales Comunitarias, or EMCs), the group of participants identified potential new projects. In the group's opinion, these projects had the greatest potential to (1) serve as instruments for the women's appropriation of the management of their forestry resources, (2) build social capital, and (3) help them organize to promote the direct management of forest resources and environmental services by the community.46 In undertaking new production projects that would meet the goals listed above, the participants sought support from the Regional Association of Forestry Producers of Comondú as well as directly from the appropriate government agencies. Support would assist in the creation of production associations and the appointment of a resource manager. Replies have so far been positive, indicating an understanding outside the community (as well as inside) of the need to promote the role of community members, especially

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Sustainable Communities: Comondú, Baja California Sur, Mexico women, as forest research managers. In doing so, there is an implied women, an implied wonderstanding of the need for alternative, gender-equal employment in this geographic area. Further the second of the need for alternative, gender-equal employment in this geographic area. opportunities in this geographic area. Further, positive replies opportion of developing the organizational potential recognize the importance of developing the organizational potential of women. In this case, establishing sustainable production projects would allow women to have opportunities and power beyond their traditional roles. Prior to women taking power as resource managers, women's roles were limited to acting as housewives, performing household chores, and raising children or working as laborers in low-status and poorly paid jobs. Most women in the group had very low formal education levels and depended entirely on their spouse's

The answers provided by women participants during our research swell as the replies of government agencies to the women's requests have new, jointly held perspective in which the work and experience of women is held to be necessary to (1) allow solutions to socioecological problems to emerge from the community itself, (2) break away from the mertias of both welfarism and rampant individualism, (3) bolster the sense fommunity, and (4) build women's autonomies in multiple dimensions: conomic, political, and personal.⁴⁷ Moreover, as David Barkin and Danil Tagle Zamora affirmed, there are signs that creation of enterprises by women's groups such as EMCs requires and fosters further realization of Women's talents. Indeed, participation in an EMC renders women well postioned to further cultivate five fundamental principles of development: autonomy, solidarity, self-sufficiency, economic diversification, and sustainable management of regional resources. 48 Here, we emphasize the role of women, as equity is a central tenet of sustainability.

THE INTERACTIVE PROCESS

Following the three discussion sessions with the group of women, we moved to the second to the secon to the second phase of our research. The second phase, the interactive proletactive phase of our research. The second phase, the cology. This inletactive phase aims to foster empowerment in the participants. In our case study, data for pnase aims to foster empowerment in the participant of Ejido Swas which the women's group of Ejido 5 was engaged in the production of knowledges. Women produced

knowledge through planning, action, observation, and reflection. During the knowledge through planning, and following research-initiated activities, we collected data through workshops and interviews carried out during field trips. Day following research-initiated according field trips, Data workshop, training, meetings, and interviews carried out during field trips, Data was training. Cold mores, photographs, and voice and video recording collected as field notes, photographs, and voice and video recordings. Research occurred, and thus women were engaged, in the following settings, a field rise search occurred, and the community bank program, specialized training, meetings, a field trip, a fingle group, and interviews. Findings from theoretically illuminating settings are

- 1. Community Banks Program. Through the formation of a collective savings program, the members of Ejido 5 women's group built opportunity, strengthened social networks, gained access to financial services, and assured a more financially secure future for themselves and their families.49 The program could serve as the basis for inclusive participation and as a platform for the self-management of production projects. We would especially look forward to projects oriented toward the social economy and responsible consumption. Though the bank strategy came from outside the community, the program was adapted to meet community needs by the women's group. As a reflection of their needs, the program is becoming part of the dynamics of the community. In this way, we believe that it can become part of the foundation for community participation.
- 2. Field Trip. The Association of Forestry Producers of Comondú sponsored travel to the town of Jiménez, Chihuahua, for a meeting with oregano producers from the Association of Forestry Producers of Chihuahua. Two members of the women's group took part in the trip with the goal of gathering technical information on oregano production, the use of wild oregano, and the extraction of essential oils. Participants believed the activity would bring the community knowledges derived from the experiences of small forestry producers in Chihuahua. The oregano producers were of interest as they had applied scientific practices to the management of environmental resources. This field trip included meetings, workshops, informal Africal Cachanges of experiences between visitors and hosts. After the field trip, we utilized similar intra- and intergroup exchanges of information and knowledge as part of the deep participation processes for our own research with the women's group

- Training. Participants regularly attended workshops, conferences,
 3. Lealks on climate change through the United No. and talks on climate change through the United Nations Collaborative Programme on Reducing Emissions from Deforestation and Forest Degradation.⁵¹ as well as conferences and workshops on conservation practices and reforestation, production, forestry, and environmental regulations offered by the Gender Perspective and Cultural Mission of the National Forestry Commission of Mexico.52
- 4. Focus Group. The Ejido 5 women's group participated in a focus group in September 2015 to discuss their concerns about their environment. The focus group was used to create a situation where all knowledges were equally valid and answers were sought by listening to the knowledge of others. Next, in the results section, we present the focus group as an important element in the process of creating the women's unified understanding of the environmental, social, and natural components that must be considered for the socioecological and economic sustainability of their region.

From phase two's interactive process, the women of Ejido 5 created an action plan:

- I. The renovation of the existing women's meeting house in the ejido.
- 2. A commitment by the group to weekly meeting attendance. Regular attendance would ensure completion of the following: cleanliness of the meeting house, appointment of a board of directors, drafting the group's rules and regulations, following-up on project proposals, and organizing meetings with the ejido commission. Above all, weekly meetings were a strategy for holding the group together.53
- 3. The formation of a women's assembly for the ejido.
- 4. The foundation of a community forestry enterprise. 5. A system for reporting on the group's production projects.

The group also decided to pursue financial, technical, and material resources from groups in positions of power. This included obtaining financing from the chairperson of the ejido council, the state, and NGO_s for the renovation of the women's meeting house as well as securing a visit of a cultural mission from the Secretariat of Public Education (Secretaria de Educación Pública). Finally, the Association of Forestry Producers of Comondú made a commitment to provide seeds and training for oregano production, a business plan, and marketing.

We followed the action plan over the next year and a half (September 2015 to March 2017). During this time, we observed the cultivation of concrete actions/products:

- I. The creation of the cooperative Sociedad Cooperativa Especias y Derivados del Valle S.C. de R.L. de C.V., which has allowed the women to obtain credit for to finance the development of their Community Forest Company.
- 2. The foundation of the El Porvenir community bank, which is a source of financing for the EFC.
- 3. The establishment of a cultural mission to preserve the ejido's environment, an initiative of the women's group. We believe the cultural mission is of great intrinsic value for the community.
- 4. The field trip to facilitate knowledge exchange with producers in Chihuahua. This activity helped the women's group obtain technical information on oregano production and develop ways to use wild oregano.
- directors refused to grant the women permission to harvest oregano in the patch of forest they had initially chosen. The problem was that only one of the women held ejido land herself; all others were wives of ejido landholders. The men had denied the women permission to use "their" lands (although ejido land is communal, not individual, property). However, a private donor enabled the women to gain access to land elsewhere in the forest. This was one of the worst observed instances of gender-based discrimination against the women. In spite of difficulties, the extraction of essential oils

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from wild oregano is now the basis of their sustainable Community Forest Company.

- 6. The women's group received specialized training by experts from Ciudad Constitución and Mexico City. In spite of this, the need remains for a long-term formal training program with an emphasis on environmental education.
- 7. A business plan was developed by the group through a long-term cooperation agreement with the Ciudad Constitución Institute of Technology (Instituto Tecnológico Superior de Ciudad Constitución). The plan now serves as the guide for the operations of the EFC.⁵⁴

FINAL COMMENTS

During the first phase of the field work, we discovered that environmenproblems were related primarily to health/pollution issues. However, mese issues were considered unrelated to deforestation and overexploitation of timber resources. Interestingly, these are problems that we (and other researchers) see as very important in the study area. In the first phase of the field work, we were able to show that respondents do not assume personal responsibility for environmental damage. Further, they unsider their actions as isolated from those of others, although they atknowledge that human activity is making irreversible damage to the mironment. Finally, respondents propose corrective measures for enfronmental problems, posing them as suggestions for the authorities to Carry Out. Therefore, while researchers link environmental degradation to both human actions and negative impacts for human health, the mitigation of environmental harm does not appear to be linked by respondents health hazards, nor do they see themselves as responsible for mitigation strategies.

During the first phase of the research, we observed diverse attitudes with respect to the role of the individual and the government. On one hand, participants did not trust outside organizations and government agencies; on the other hand, they demanded assistance from those organizations and that does not empower people to create their own production projects.

Instead, people are made to rely on the government and other "outsiders," Therefore, we believe there is need to develop individual and collective po. Therefore, we believe the tentials and capacities for improving productivity and overcoming dependent of the case of women.

Building on the idea of empowerment initiatives, we consider the process of structuring a community bank that occurred during the second phase of research. Perhaps seen by some as a sterile business transaction, we imbued the act of bank creation with meaning: the women were able to de. fine themselves. Through the act of creating the bank, they became a group; they took on responsibilities and recognized the strength that comes from working in unity. The women claimed power outside the home and, further, were able to translate power into the funds that they put toward production products.

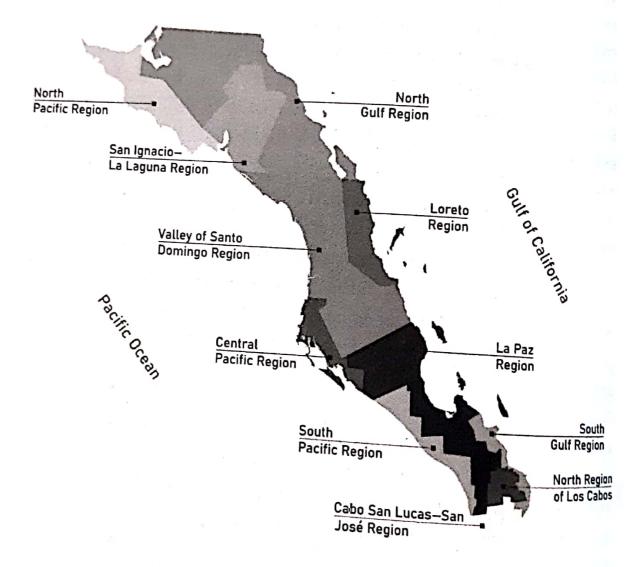
The women clearly enumerated the necessary components of a community that would build a better quality of life: education, clean environment, social justice, and gender equality. Now these elements are integrated into their regular meeting agendas and are realized through the consolidation of the group as a community forestry enterprise. This organization contributes to the socioeconomic development of the ejidos and communities as well as to the conservation of forest resources.

We believe it is important to recognize that the work of the women's group has been limited, especially because the women feel they were victims of abuse of authority and political corruption. From these limitations, the women saw a need to create new participatory mechanisms. The mechanisms the women envisioned would empower them as well as lead to sustainability. Empowerment and sustainability are co-occurring for these women as well as in theory, especially considering the five fundamental principles that undergird this research: autonomy, solidarity, self-sufficiency, productive diversification, and sustainable management of regional resources. 55 We found as the number of an accounted of empowerment and sustainability measured as the number of activities that they were able to engage in over the year and in certain parce of the denial of permission to collect wild oregano in certain parts of the nearby forest by its male keepers did not deter them: they simply went elsewhere and carried on.

Nonetheless, greater development of relationships with receptive gov debate in favor of future and universities is needed for influencing public debate in favor of future projects. Further, such relationships are needed for Sustainable Communities: Comondú, Baja California Sur, Mexico shared consciousness that put community's values and ideologies shared actions that increase empowerment, sustainability and shared shared that increase empowerment, sustainability, and rational writing into actions that resources. Building on rationality serves profenvironmental resources. Building on rationality serves, in turn, to the inertia toward the assistance-based model. In this of environment of the assistance-based model. In this way, the comthe incitation on its path toward greater self-sufficiency. Indeed, and disintegrating indicate in assistance-based model and disintegrating indicate. mily is itu of some sum ciency. Indeed, and disintegrating individualism, a sense without an assistance-based model and disintegrating individualism, a sense without an assistance of the deal of the in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the result of the lack of organization in and in the lack of organization in the lack of organization in and in the lack of organization in the lack of o formulary result of the lack of organization in society, loss of social the triumph of individualistic values over community values, the will that resists the predature for the will that the predature for the will be the will whening of the will that resists the predatory forces of the economy, then minimental policy should be directed towards the reorganization of sociorganization is a source of power."56

It is therefore necessary to strengthen processes that build community tations in Comondú and to outline alternative actions to mobilize and aganize society toward gender-equal, sustainability management. Our empincal findings demonstrate that for the population of the UMAFOR 302, and especially for the women in our group, the Millennium Development Goals are far from being achieved. The women remain underschooled, poor, and dependent and, as such, not socially or environmentally empowered. $\ensuremath{\theta_{\text{l}}}$ the other hand, the participatory action process in which the women Wett engaged through our research yielded important results. Our results, nagreement with the work of Natalia Ariza, suggest the need to complement human security concerns with the new Latin American social ecology **proach.57 Indeed, by linking Latin American social ecology to human se-OFFITY, we are able to engage, especially with women, who largely remain off the radar of most national or international aid agencies. Locally, these same Founds often—as was true in our case—lack adequate job opportunities was true in our case—lack and preceded possibilities of futures different from the generations that preceded them. Their roles as housewives and homemakers, in a strongly patriarchal thing combined synergistically with high poverty levels. Still, our research wed that though a community faces adverse circumstances, women's en-Bigement and sharing of their knowledge-fostered empowerment and susthe wider and sharing of their knowledge-fostered empowers the wider initiatives. Our results show the viability of combining the wider and new interest and ne Ins and procedures of the human security approach with the more local, amost incient tology. Procedures of the human security approach with the social tology.

MAP 1: Regions in Baja California Sur



MAP 2: Location of UMAFOR 302 Comondú, B.C.S.



Phases in the praxis of the new social ecology	ABLE 1. Phases in the	praxis of the new	social ecology
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Phases in the praxis of the new social ecology							
^{first} phase	Insertion analysis and diagnosis of the reality:						
	the interacting group is selected; its problems and needs are identified and explored.						
Second phase	The interactive process:						
12.	in which the basic tools are research, advocacy and action, and deep involvement made through participatory action research.						
hase	Dissemination training:						
	int and in the prac-						
	intended to share the information generated in the practice with the interacting group for purposes of discussion whether in the community or in other areas.						
	0.000						

TABLE 2. Responses to questionnaire in Comondú communities

When speaking of the environment, which of the following is the first thing that comes to mind?					Involvement in groups:			
	1 Beautiful landscapes	41	%		1	Religious group		
ı	2 Nature protection	35	%		2	Social group	4	
ı	3 Pollution	18	%		3	Business group	2	
ı	4 Quality of life	4	%		4	School	2	
	5 Natural disasters	2	%			Personal actions in relation to the environment:	I	
	How much do environmental issues concern you?				1	Try to act without caring what others do		
	1 A lot	77	%	FLO. 1	2 (Try to act but believe that it only works if	The second second	
	2 Some	219	%	3	3 [Do not try because others do not	ł	
	3 A little	29	%			Do not know what to do or do not care	STATE SALES	
How would you run environmental issues in Comondú communities?					Changes in environmental conditions in the municipality:			
	Improving health	379	6	1	33 11	Believe that the environmental situation the city remains the same as in recent lears	60	
	The protection and conservation of the environment	24%	ó	2	3	Believe it has improved	2	
	Reduction of poverty	22%	5	3	Т	hinks it is worse	-	
	Education	10%	2		M	lost effective for solving environmental		
	Peaceful coexistence among citizens	7%		1	445	problems, in order of importance:	25	
	Main environmental problems in the Comondú community:	10		2	Eı	nvironmental education programs directed at the entire population	23	
	Sanitation/refuse management	44%	Market and	3	M	lake citizens pay the environmental	19	
	Cleaning up green areas and parks (they mentioned street lighting)	30%	4		CC	nes for causing damage	15	
	Air pollution	26%	Ę	0.55			12	
is individual action impact						etter application of existing law	4	
	Believe their individ	7	6)	Do	pes not answer		
	environment solisequences for the	73%	7	- Constant	No	one of them	2	
	Believe their individual actions have mportant consequences for the environment	25%				Personal responsibility for the	f.	
	Did not answer			1	an	vironmental quality of their comme	541	
	Impact of human activity	2%	1	r	or or	Mental available for the		
	Olee that		2	C	Col	nsider themselves somewhat	7%	
	reversible damage to the environment on can be stopped by changing our	73%	3	3		nk they are a little responsible	250	
	Gree at	23%	4	D	0	not regard themselves as responsible		
	n harmony with the environment	4%)	

TABL

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at eracteristics of women's group		
Characteristics of women's group Age		
		0.4
Youngest Falses Al		24
0/dest Education		65
	4	240/
No formal education No formal education Any formal education Any formal education Any formal education Any formal education	8	24% 47%
Housing Situation	5	29%
Housing Situation		29%
Own house	14	82%
tive in collective quarters	3	18%
Occupation		1070
Laborer	1	6%
Homemaker	16	94%

NOTES

^{1.} Secretaría de Promoción y Desarrollo Económico, Datos básicos.

^{2.} Gobierno del Estado de Baja California Sur, Información estratégica. Comondú rejisters over fifteen hundred towns, of which only three (Ciudad Constitución, Ciudad Insurgentes, and Puerto San Carlos) have over twenty-five hundred people, the minimum Mexican standard for an urban area. In this sense, Comondú is a rural municipality (munithat has a population density of about five persons per square kilometer. However, 88 Petcent of the population lives in those three towns (Márquez Salaices, Análisis crítico, 3).

^{3.} Urciaga García, "La agricultura."

^{4.} The Green Revolution was a child of the Mexico Agricultural Program set up Mexico in 1941 under the supervision of Norman Borlaug (later a Nobel Prize winner) and with financing from the Rockefeller Foundation. By the 1960s, the program was credited with with very important increases in agricultural production through the use of hybridized "Book Review"). Petryetsely, in 1 million for ex-Petryetsely, it also led to a decrease in food crops as famers switched to production for ex-Port, as remains the case in Mexico and elsewhere.

^{5.} UNDP-Mexico, El índice.

^{6.} Ariza, "La aplicabilidad"; Aya, "Seguridad humana;" Guiñazu, "Ciudadanía;" Moril-La Bassedas, "Génesis y evolución."

^{7.} Masters, "History."

^{8.} For a concise view of the differences between deep ecology and social ecology, see Bookchin, Social Ecology.

^{9.} Boulding, Economics.

^{10.} Oxfam states that its purpose is "to help create lasting solutions to the injustice of we are part of 10. Oxfam states that its purpose is "to help create lasting solutions to the my We are part of a global movement for change, empowering people to create a future

that is secure, just, and free from poverty. We challenge the structural causes of the injustice of poverty, and work with allies and partners locally and globally." Oxfam International,

- 11. Rockström et al., "Planetary Boundaries."
- 12. Stiglitz, Sen, and Fitoussi, Mis-measuring.
- 13. Raworth, "Safe and Just Space."
- 14. Brundtland, "Report."
- 15. Altvater, "¿Existe un Marxismo ecológico?"
- 16. Brundtland, "Report"; Gudynas, "Ambiente."
- 17. Márquez Salaices, Análisis crítico, 25-26, based on Gudynas, "Ambiente," 14. The main features of these and other approaches to sustainability are discussed in Marais, Annual Report. The reader will note that Gudynas's deep sustainability differs from that of Arne Naess, as the former includes, and the latter excludes, a strong commitment to social justice. We address Gudynas's social ecology in the next section of this chapter.
 - 18. Gudynas, "Ambiente."
 - 19. UNDP, Orígenes del enfoque.
 - 20. Delgado-Cobas, "La huella ecológica," 459.
 - 21. Delgado-Cobas, 459 (emphasis ours).
 - 22. Páez G., "Del desarrollo."
 - 23. Marphatia, Creating an Enabling Environment.
 - 24. Lutters and Ackerman, Introduction; Harding and Blokland, Urban Theory.
 - 25. Harding and Blokland, Urban Theory.
 - 26. Cf. Bookchin, Social Ecology.
- 27. CLAES is an independent nongovernmental organization dedicated to the research, action, and promotion of social ecology. Founded in 1989, it is headquartered in Montevideo, Uruguay.
- 28. Gudynas was born in Montevideo, Uruguay, in 1960. He has published several articles in his areas of expertise in various magazines and books. His monograph Ethics, Environment and Development in Latin America is often cited as a main source of the new social ecology.
 - 29. Márquez Salaices, Análisis crítico.
 - 30. Gudynas, "Ambiente."
 - 31. Gudynas, "Desarrollo," 80.
 - 32. Gudynas and Evia, Ecología social.
 - 33. Gudynas and Evia, 184 (our translation).
- 34. Gudynas and Evia, 184. The case study that is the centerpiece of this chapter is an example of this.
- 35. Adame and Rendón, "Hacia una cultura de la sustentabilidad." 36. The analysis included 820 issues of the newspaper El Sudcaliforniano published anuary 2011 to December 2 from January 2011 to December 2014, dates available in print at the time of the study and that largely coincide with the paried of the study and (2011-15). A that largely coincide with the period of the municipal and state administration (2011-15). A total of 6,070 notes in the parameter of the municipal and state administration (2011-15). total of 6,070 notes in the newspaper's Comondú section were analyzed. El Sudcaliforniano is the newspaper with the largest circulation in the state.
 - 37. Leff, Discursos sustentables.

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Echeverría, Las ilusiones.

Gudynas and Evia, Ecología social, Gudynas and Bórquez, "Neoliberalización"; State Energy Program 2011-Angeles, Dirección de Energía y Telecomunicaciones, Programa estatal; State Program prevention and Waste Management for the State of Bail Guidennessive Orange del Estado de Baja California Sur, Programa estatal. De la comprehensive Prevention and Waste Management for the State of Baja California Gobierno del Estado de Baja California Sur, Programa estatal. Gobierno del Estado de Baja California Sur, Programa estatal; Development rhe Oasis of Los Comondú, Baja California Sur, Mexico. State Cli The Oasis of Los Comondú, Baja California Sur, Mexico, State Climate Action

Water Resources, cited in Ivanova and Eritrea, Baja California Sur, Mexico State Climate Action BCS. Water Resources, cited in Ivanova and Eritrea, Baja California Sur; Recovery Aquifer Santo Domingo, cited in Ivanova and Wurl, "Recuperación del acuífero".

"Rabinowitz, "Section 2."

Gudynas and Evia, Ecología social.

Gudynas, "Ambiente;" Gudynas and Evia, Ecología social.

Márquez Salaices, Análisis srítico, 71.

Márquez Salaices, 137.

d. Marquez Salaices, 73.

g. Faria, Moreno, and Nobre, Las mujeres.

& Barkin and Zamora, "La significación."

The program is based on a methodological guide provided by the Philanthrorefoundation, a nongovernmental organization from Boulder, Colorado, that works in minities in the Mayan community of Chajul, Guatemala, and in Baja California Sur.

50. Márquez Salaices Análisis Crítico, 73.

51. In Mexico, it should be understood as a set of strategies that simultaneously promanifestion and adaptation through an integrated land management that promotes warhon sustainable rural development" and therefore points to a convergence between mmmental and development agenda.

52. Here, in the training section, environmental regulations pertain to the prevention induction of the incidence of forest pests and diseases that have economic, ecological, the state of the Country. The Gender Perspective and Cultural Mission of the Na-Forestry Commission of Mexico is an educational project serving rural populations poverty with that seeks to promote the integral development of the community job training, the teaching of literacy, basic education, recreation, and culture.

53. Márquez Salaices, Análisis crítico, 79.

54 Márquez Salaices, 89–90.

55. Barkin and Zamora, "La significación."

56. Toledo, "La sociedad sustentable."

^{57.} Ariza, "La aplicabilidad."

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