

Trafficking in Tobacco Farm Culture: Tobacco Companies' Use of Video Imagery to Undermine Health Policy

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Cigarette companies and their lobbying organization used tobacco industry-produced films and videos about tobacco farming to support their political, public relations, and public policy goals. Critical discourse analysis shows how tobacco companies utilized film and video imagery, and narratives of tobacco farmers and tobacco economies, for lobbying politicians and influencing consumers, industry-allied groups, and retail shop owners to oppose tobacco control measures and counter publicity on the health hazards, social problems, and environmental effects of tobacco growing. Imagery and narratives of tobacco farmers, tobacco barns, and agricultural landscapes in industry videos constituted a tobacco industry strategy to construct a corporate vision of tobacco farm culture that privileges the economic benefits of tobacco. The positive discursive representations of tobacco farming ignored the actual behavior of tobacco companies to promote relationships of dependency and subordination for tobacco farmers and to contribute to tobacco-related poverty, child labor, and deforestation in tobacco-growing countries. While showing tobacco farming as a family and a national tradition and a source of jobs, tobacco companies portrayed tobacco as a tradition to be protected instead of an industry to be regulated and denormalized. [Key words: culture, health policy, video analysis]

Introduction

Cigarette companies experienced increasing pressure from governments, health groups, and declining public opinion beginning in the 1950s (Hobhouse 2003). Reports on tobacco companies' practices that contribute to deforestation, mono-cropping, food insecurity, and pesticide contamination in developing countries beginning in the 1970s created additional threats to Philip Morris and British American Tobacco (BAT; Chapman 1994; Chapman and Wong 1990; Freeman 1978; Muller 1978). Beginning in the 1970s, the tobacco industry produced films and videos on the economic benefits of tobacco growing to influence public perception of the contribution tobacco makes to tobacco-growing communities and influence health policy (Table 1). Unlike tobacco advertising (Anderson et al. 2005; Broder 1992; King and Siegel 1999; Warner 1985), there has not been a systematic study of films and videos the industry has used to promote a corporate vision of tobacco culture and support its political, public relations, and public policy goals.

Corporations, investment bankers, and international financial institutions like the World Bank influence cul-

ture and knowledge about economic life through text and visual imagery. Anthropologist Karen Ho (2005) has described how Wall Street investment bankers contribute to the cultural production of knowledge about globalization by disseminating investors' pro-corporate perceptions of the world economy. Bret Benjamin's analysis of World Bank speeches and public documents suggests that the Bank "traffics in culture" through "rhetorical acts of public persuasion that rely on cultural formations and that appeal to cultural values" (Benjamin 2007:xiii). As a cultural institution, the World Bank has used its literature on economic development to humanize and naturalize its role in the post-World War II era and deflect criticism against the Bank's economic policies (Benjamin 2007).

Researchers have analyzed tobacco companies' influence on cultural understandings of tobacco growing to fend off criticism, build public goodwill, and resist regulation in Kenya (Currie and Ray 1984), Malaysia (Barraclough and Morrow 2008), and the United States (Lindblom 1999). Tobacco is associated with nostalgia about prestige and pride in agricultural communities, personal and collective identity, and memory of the past in agricultural communities and economies (Ranzetta

Table 1. Sample of Tobacco Industry Videos and Video Excerpts on Tobacco Economics, 1956–1999

Title	Summary	Producer*	Date	Location**	Total Length (mins.)	Total Segment Length/Segment Used (mins.)	Segment Categories†
<i>A Plant for Tomorrow</i> (Lorillard Tobacco Company 1956)	History of the Lorillard Company, focusing on operations at its Greensboro, NC, plant	Lorillard	1956	Legacy	15	1:00	CT, EJ, TIH, TS
<i>Leaf</i> (Tobacco Institute 1974)	History of the growth and harvesting of tobacco in the United States	TI	1974	IA	15	9:05 0:00–5:25 7:45–9:05 11:05–11:50 13:25–15:00	CS, CT, EJ, TIH, TS
<i>The Brown & Williamson Story</i> (Brown and Williamson 1975)	Tobacco farming in the United States	BW	1975	IA	12	2:00 0:00–2:00	CT, EJ, T, TFCP, TIH
<i>Tobacco: Seed to Pack</i> (Philip Morris 1979)	Steps in the tobacco growing, curing, aging, and manufacturing process	PM	1979	IA	16	11:10 0:00–9:35 14:15–15:50 12:00	CT, EJ, TIH, TFCP, TS, USTB
<i>Gringo Amigo</i> (Verband der Cigarette-industrie 1979)	Portrait of Berkeley Cohn, an agricultural tobacco extension worker in Guatemala	Verband	1979	IA	12	12:00	CT, DC, EJ, TFCP, TS
<i>Tobacco Speaks Out</i> (Tobacco Institute 1983)	Employment in the U.S. tobacco industry	TI	1983	Legacy	15	1:10 0:00–0:50 14:35–14:55	EJ, TIH
<i>A Taste for Tobacco: The Story of Tobacco from Seed to Smoker</i> (Symes 1991)	The story of tobacco from seed to smoker (Mandarin Chinese)	BAT	1984	Legacy	28	3:25 4:50–8:15 8:00	ACL, CT, EJ, TIH, TS, USTB
<i>BAT in the Developing World [Kenya]</i> (British American Tobacco 1988)	BAT's help to tobacco farmers in Kenya	BAT	1988	Legacy	8	8:00	DC, EJ, TFCP, TS
<i>How Cigarettes Are Made</i> (Philip Morris 1993)	Illustration of leaf processing and cigarette making	PM	1993	Legacy	8	0:35 0:00–0:35	EJ, TGP, TS
<i>Real Lives</i> (National Smokers' Alliance 1994)	Negative impact of President Clinton's proposed cigarette tax on tobacco farmers	NSA	1994	IA	7	3:34 0:00–2:45 5:50–6:50	CT, EJ, G, II, TGP, TS
<i>Carolina Tobacco: Roots of an Ageless Triumph</i> (Carolina Tobacco Company 1995)	History of tobacco farming in the United States	Lorillard, CCC	1995	IA	24	5:15 2:15–7:30	CT, EJ, TGP, TIH, TS
<i>Tobacco Working for America</i> (Brown and Williamson 1996)	Overview of the financial impact of tobacco and tobacco products in the United States	BW	1996	Legacy	11	3:45 0:00–3:45	CT, TGP, TS, USTB
<i>Brown and Williamson Web Site-Tobacco Processing</i> (Brown and Williamson 1999)	Tobacco growing in Kentucky	BW	1999	IA	9	5:55 0:00–5:55	CT, EJ, TS

* Lorillard: Lorillard Tobacco Company; CCC: Carolina Cigarette Company; TI: Tobacco Institute; BAT: British American Tobacco; PM: Philip Morris; NSA: National Smokers' Alliance; BW: Brown and Williamson; Verband: Verband der Cigarettenindustrie (trade organization for the tobacco industry in Germany).

**IA: Internet Archive; Legacy: Legacy Tobacco Documents Library at the University of California, San Francisco.

†ACL: alternative crops and livelihoods; CS: cigarettes and smoking; CT: culture and tradition; DC: developing countries; EJ: employment and jobs; G: government intervention; T: taxes; TS: technology and skills; TFCP: tobacco farmer-company partnership; TGP: tobacco-growing process; TIH: tobacco industry history; USTB: U.S. trade balance.

2006; Stull 2000). Tobacco companies draw upon these cultural associations to promote a corporate worldview of tobacco and portray companies as proponents of tobacco farmers' interests. Tobacco companies traffic in culture. They use nostalgia and narratives of tobacco farm culture, and the economic benefits of tobacco, in films and videos to appeal to farmers and consumers and to justify companies' roles in societies critical of tobacco growing and tobacco companies. Through this visual imagery, tobacco companies also portray themselves as authentic members of tobacco culture and suppress details about tobacco's contribution to death and disease.

Tobacco industry films and videos are part of a \$6 billion a year sponsored film industry (Solbrig 2004), with 300,000 sponsored films and videos produced in the United States between 1891 and 2006, far more than any other type of motion picture (Prelinger 2006). Sponsored films (also called "industrial films," "institutional films," "ephemeral films," and "faux documentaries") are ones "whose costs, including those of production, promotion, and distribution, are all paid for by a business or an organization" (Kennard 1990:58). The sponsored film is a nontheatrical, public relations film produced to win audiences to the funder's point of view (Klein 1976; Levin 2006; Prelinger 2006). Documentary film strategies including realism, expert talking heads, and narration over archival photographs and moving images (Juhász and Lerner 2006) are used to legitimize the sponsored film as a communications medium and to "construct ideologically informed arguments about the social world" (Solbrig 2004:261).

We focused on discursive narrative rather than on the filmic/aesthetic composition of video to illuminate what the tobacco industry says in video to enhance its economic power and how the industry produces meanings about tobacco farmers and tobacco farming. We used critical discourse analysis to assess the video images and transcripts at the level of story structure, scene composition, and cast of characters such as a tobacco farmer and segments with farm workers harvesting tobacco (Hanjalic 2004). Discourse is a "pattern of talking and writing about or visually representing an event, object, issue, individual, or group" (Lupton 1994:24). Discourse is embedded in the social, economic, and political contexts in which the discourse and the belief systems that provide meaning to the discourse are produced (Lupton 1994; Perakyla 2005). Discourse analysis is a tool to reveal the subtextual meanings that underpin video imagery and the relation-

ships among media-makers, audiences, images, and social contexts (Lupton 1994; Sturken and Cartwright 2003). Health researchers have applied discourse analysis to the study of discussions between smokers and nonsmokers about smoking in public places in Canada (Poland 2000), to the testimony of industry, government, and lay activists on tobacco advertising regulations in U.S. Congressional hearings (Murphy 2001), and to tobacco advertisements in newspapers in Spain in order to understand industry self-regulation as a strategy to avoid or delay effective government legislation (Martin et al. 2004). Critical discourse analysis focuses on the meanings and relationships of power, dominance, and control in written, oral, and visual language (Wodak 2004). It is committed to social justice and power relations that do not privilege one group over another based on gender, religion, ethnicity, or other social identities (Fairclough 2001; Lazar 2007).

Despite the richness of the sponsored film industry, film historians and visual researchers have neglected the sponsored tobacco film (Perkins 1982). The positive imagery of tobacco farming ignores the actual behavior of tobacco companies designed to promote dependency and subordination of tobacco farmers and to contribute to tobacco-related poverty, child labor, and deforestation in tobacco-growing countries. By representing tobacco farming as a family and a national tradition and a source of jobs, tobacco companies use film and video imagery to portray tobacco as a tradition to be protected instead of as an industry that needs to be regulated and denormalized.

Methods

Tobacco Industry Film and Video Imagery

Tobacco companies produced moving pictures as 16 and 35 mm film until the 1970s, when they changed to video. (We use "video" to refer to both films and videos.) Our criteria for selecting a video for study were that it included segments on tobacco farming or farmers, growing or growers, economy or economics, employment, jobs, or developing countries, and was publicly available. We excluded product advertising, television news stories, feature films independent (of the industry) documentaries, and Internet videos. We selected videos from approximately 6,395 tobacco industry videotapes

that had been released by December 2007 as a result of litigation against the tobacco industry. The videos were indexed in the Legacy Tobacco Industry Documents Library (<http://legacy.library.ucsf.edu>) or BAT Documents Archive (<http://bat.library.ucsf.edu>). Video titles that were mentioned in tobacco industry documents, Lexus Nexus, WorldCat, the University of California Melvyl library catalog, and Internet search engines (Google, Yahoo, and Clusty) were used to ensure a broad search of tobacco industry videos. Tobacco industry documents mentioned the existence of 40 videos produced by or for the tobacco industry that reflected the study themes of tobacco farming and tobacco economics. Further research showed that 27 of the 40 videos never existed. We selected the remaining 13 videos as the sample based on availability, video content value, picture and sound quality, and themes of tobacco farming and tobacco economics (Table 1).

Videos in the sample of 13 have an average length of 14 minutes and were produced between 1956 and 1999 (Table 1). Twelve of the videos are in English and one (*A Taste for Tobacco*) is in Mandarin Chinese; we obtained the English transcript from the industry documents (Symes 1991). We analyzed two complete videos and 17 video segments from the remaining 11 videos totaling 66:19 minutes. Video segments were selected from whole videos when the segment dealt with tobacco farming or tobacco economics. Segments with tobacco farming and tobacco economics were in broader stories of tobacco history and cigarette production in 12 videos.

We converted videos to digital files with Cinematize Pro 2.01 and used QuickTime Pro 7.3 and Final Cut Pro 5.3 to create Quicktime video files using compression settings with the H.264 codex, frame rate 15, bit rate 700 kbits per second, video dimensions 320×240 pixels, and AAC audio format. We obtained transcripts from the industry documents (Concept Films and Tobacco Institute 1974; Symes 1991) (two videos) or by preparing our own verbatim transcripts (11 videos). We watched each video with transcript in hand at least three times to understand the story; document each new cut, or “shot” that demarcates the endpoints of a segment; and mark relevant images in every segment (Jernigan and Dorfman 1996).

We related the results from the analysis to the findings of written text analysis of video transcripts that we conducted by crosschecking for patterns of tobacco culture and economics from the 1950s to 2007 in industry arguments, statements, and practices, and in related literature. We combined critical discourse analysis with ethnographic content analysis to decipher narratives from the videos and to situate the narratives in broader social, economic, and political contexts. We focused on video narratives and discursive representations to illu-

minate how the industry understands itself and responds to threats to the smoking business. We used ethnographic content analysis to create a detailed explanation and description of video images through tobacco industry documents with details on the videos (Dimitrova et al. 2002; Hanjalic 2004; Jernigan and Dorfman 1996). Ethnographic content analysis is a method for making inferences from visual text to the contexts in which text is produced and used (Hirsch 1996; Jernigan and Dorfman 1996). It is grounded in “an orientation toward constant discovery and constant comparison of relevant situations, settings, styles, images, meanings, and nuances” (Altheide 1987:68). We used the categories of culture and tradition, tobacco industry history, employment and jobs, taxes, U.S. trade balance, technology and skills, alternative crops and livelihoods, tobacco-growing process, cigarettes and smoking, government intervention, tobacco farmer–company partnership, and developing countries to organize video imagery and to analyze their meanings and contexts.

We also used the tobacco industry documents to identify the companies’ intentions and uses of the videos and the context of tobacco industry videos. We searched with the terms *video*, *film*, *economic benefits*, and *tobacco farming*. Follow-up searches using standard snowball approaches to locating and screening documents (Balbach 2002; Malone and Balbach 2000) were done based on adjacent pages (Bates numbers) for relevant documents and the names of key individuals and organizations identified in previous searches. We screened 1,864 documents and used 18 for this analysis.

Results

Tobacco companies were early adopters of film to promote their products and interests. In 1897, the Edison Manufacturing Company produced the silent film and one of the first advertising films in the world, *Admiral Cigarette* (30 seconds; Prelinger 2006). In 1938, the Liggett and Myers Tobacco Company produced *Tobaccoland* about cigarette production in the 1930s. In a magazine advertisement promoting its services, Castle Service, Liggett and Myers’s film distributor, reported that “in only eighteen months [*Tobaccoland*] was shown to more than twenty-two million men and women!” (Liggett and Myers Tobacco Company 1944:1). Early examples of tobacco industry films and subsequent tobacco industry videos focus on corporate culture and public relations strategies. The films and videos represent a recorded history of tobacco industry practices, and document changing tobacco industry arguments on the economic benefits of tobacco growing.



FIGURE 1. Title screenshot over a field of tobacco (left) and African American tobacco farm workers harvest tobacco (right) in still images from Lorillard Tobacco Company's *A Plant for Tomorrow* (1956).

Promotion of Positive Industry Images to Counteract Negative Public Perceptions of Smoking and Smoking Restrictions

Following the increase in publicity on the negative health effects of smoking in the 1950s, Lorillard Tobacco Company produced the classroom educational film *A Plant for Tomorrow* (Lorillard Tobacco Company 1956). *A Plant for Tomorrow* features the company's history and its automated plants in Greensboro, North Carolina (Figure 1). The black-and-white film begins with the title over a small group of farm workers and a horse in a tobacco field. African American farm workers wear work shirts and trousers without protective clothing, which was typical in the 1950s. Dramatic music plays over the segment until the narrator says, "From our earliest beginnings, first as a colony and then as a nation, tobacco has been inseparably bound with our history. As our country won independence and flourished, so did the tobacco industry grow and prosper. And the story of the company founded in 1760 by a young juggernaut Pierre Lorillard is virtually the history of tobacco manufacture in America" (Lorillard Tobacco Company 1956).

Lorillard celebrates tobacco culture and the mechanization of tobacco production in the video. African Americans farmed tobacco under sharecropping arrangements, a labor arrangement with economic and social roots in slavery and the development of the U.S. economy since the 1700s (Daniel 1985; van Willigen 1998). Sharecropping became extinct in the United States by 1992 (Hart and Chestang 1996). African Americans lost their farms due to inadequate capital, discrimination by the United States government and private lenders, and migration of African Americans from the rural South to the urban North (Alcindor 2005; Martin 2004).¹ Accompanying the shift to mechanized tobacco farming, the labor on tobacco gradually changed from African Americans to Latino migrant

workers from Mexico, Guatemala, and other Central American and Caribbean countries (B-Line Films 2007; Spangler et al. 2003).

The segment from *A Plant for Tomorrow* uses major symbols and spaces of rural life and tobacco farming to show the value of tobacco to individuals, families, and communities; tobacco as a labor-intensive crop; and the collective work process. Lorillard, through the juxtaposition of the title over a harvesting scene, suggests that the future of tobacco growing and tobacco companies is secure in the 1950s and beyond. The subtext of the title screen and African American farm workers is that tobacco is an economically viable, labor-intensive crop the tobacco industry uses to mask relationships of dependency and subordination. *A Plant for Tomorrow* features common symbols and spaces that signify tobacco culture, such as tobacco fields, drying sheds filled with tobacco, and freshly plowed land. Lorillard appropriates these spaces to present itself through video imagery as an authentic stakeholder in the welfare of tobacco farmers. The company uses tobacco symbols and spaces to create perceptions of trust and empowerment to influence people to overcome internal conflict they may have over tobacco and smoking in society.

The segment in *A Plant for Tomorrow* also reveals the racialized dimension of imagery with depictions of African Americans as hired hands and continued relations of exploitation. The segment and imagery suggest that little has changed for African Americans in the rural South since the Civil War. Lorillard's nostalgia for tobacco history ignores the fact that African American slaves were forced to devote their labor to tobacco farming beginning in the 1700s, and subsequently tied to tobacco through unfair sharecropping arrangements after emancipation (Table 2; Daniel 1985; van Willigen 1998). The segment does not show decline of the African American tobacco farmer or the long hours of stoop labor, harassment of workers by farm authorities, abject

Table 2. Unfair Portrayals of Tobacco Farming in Tobacco Industry Videos

Categories	Video Title	Year	Portrayals of Tobacco Farming in Tobacco Industry Videos	More Accurate Portrayals of Tobacco Farming in Industry Videos
Culture and Tradition	<i>Leaf</i> (Tobacco Institute 1974)	1974	"[Tobacco is] part of our heritage. This is our bread-and-butter crop."	Tobacco farm culture is characterized by long hours of stoop labor, abject poverty, staggering debt, and exposure to nicotine and pesticides (Farm Labor Organizing Committee 2007).
Tobacco Industry History	<i>Brown and Williamson Web Site-Tobacco Processing</i> (Brown and Williamson 1999)	1999	"Stripping tobacco has become a family tradition. With the check from tobacco sales at auction, the farmer pays his bills, provides for his family, and gets ready for the holidays, and starts buying seeds and fertilizer for next year's crop."	Tobacco companies ensure farmer subordination through inflated prices for farm inputs and fields for tobacco instead of food crops (Gostin 2007; Loker 2004).
Tobacco Industry History	<i>A Plant for Tomorrow</i> (Lorillard Tobacco Company 1956)	1956	"From our earliest beginnings, first as a colony and then as a nation, tobacco has been inseparably bound with our history. As our country won independence and flourished, so did the tobacco industry grow and prosper."	Tobacco history intersects with enslaved African Americans involved in tobacco farming beginning in the 1700s, and unfair sharecropping arrangements in the 1900s (Daniel 1985; van Willigen 1998).
Tobacco Industry History	<i>Tobacco Speaks Out</i> (Tobacco Institute 1983)	1983	"[Tobacco] is, in fact, America's oldest industry dating back to the early 1600s when John Roll, better known as the husband of Pocahontas, became America's first tobacco farmer and exporter."	The tobacco industry obtained its economic influence over farmers through a monopoly and monopsony of tobacco buyers since the industry was established (Algeo 1997; Craig 2005).
Employment and Jobs	<i>The Brown and Williamson Story</i> (Brown and Williamson 1975)	1975	"When you count all the people who grow the tobacco and those who manufacture it, distribute it, and sell it, you've got 17 million Americans for all or part of their income."	Tobacco companies ignore annual health-related economic costs of \$167 billion, including adult death-related productivity costs and adult and newborn medical expenditures (American Cancer Society 2007).
Taxes	<i>Tobacco: Seed to Pack</i> (Philip Morris 1979)	1979	"[Tobacco] provides jobs for two million Americans. 600,000 farm families receive income from the production of tobacco."	U.S. tobacco companies harm local tobacco farmers by increasingly growing, processing, and making cigarettes overseas beginning in the 1970s (Lindblom 1999).
Taxes	<i>The Brown and Williamson Story</i> (Brown and Williamson 1975)	1975	"Annual taxes collected on the sale of tobacco products are well over \$5 billion."	Smuggled illegal cigarettes deny governments \$40 to \$50 billion in taxes each year (Framework Convention Alliance 2007a, 2007b).
U.S. Trade Balance	<i>Real Lives</i> (National Smokers' Alliance 1994)	1994	"Nationwide, the tobacco industry employs more than 2.3 million people, who along with industry, pay more than \$39 billion in taxes."	Tobacco companies paid \$2.9 million to state lobbyists in the United States in 1997 to minimize tax increases and weaken state tobacco control policies (Givel and Glantz 2001).
U.S. Trade Balance	<i>Tobacco: Seed to Pack</i> (Philip Morris 1979)	1983	"A significant part of American tobacco and tobacco products is shipped out of the country. Each year these international sales contribute a positive foreign trade balance of more than \$1.7 billion to our economy."	U.S. tobacco companies hurt U.S. tobacco farmers by purchasing inexpensive tobacco from developing countries, paying low tobacco prices to U.S. farmers, establishing cigarette manufacturing plants abroad, and entering new markets outside the United States (Johnson 1994).
Technology and Skills	<i>A Taste for Tobacco: The Story of Tobacco from Seed to Smoker</i> (Symes 1991)	1984	"America's been wrestling a lot lately with foreign trade, balance of payments, exported jobs, and imported products. Tobacco gives us a trade surplus of \$6 billion."	In 1984, U.S. tobacco companies lobbied the U.S. government to oppose high tariffs and high retail taxes in Asia in tobacco-related global trade disputes (Shaffer et al. 2005).
Technology and Skills	<i>Leaf</i> (Tobacco Institute 1974)	1974	"From seed beds to barning, to grading leaf for auction sales, good tobacco depends largely on the hands, the eyes, the skills of those who understand this temperamental plant."	Tobacco farmers and workers suffer from bladder cancer, allergic or irritant skin disorders (contact eczema), and pesticide exposure (Schmitt and Schmitt 2007).

<p>BAT in the Developing World [Kenya] (British American Tobacco 1988)</p>	<p>1988</p>	<p>"[A tobacco farmer in Kenya] realizes that [BAT] will instruct him in new agricultural methods which are relevant to his needs. At the same time, traditional skills such as plowing with oxen are not forgotten if they represent the most appropriate technology."</p>	<p>A tobacco farmer in Kenya said, "The loan the tobacco firm provides is really weighing down on us. Actually, after the deduction you get nothing. Year in year out of the company ensures that you have an outstanding loan" (Patel, et al. 2007).</p>
<p>Alternative Crops and Livelihoods</p>	<p>1984</p>	<p>"Tobacco is not an easy crop to grow for it requires more than 270 hours of labor per acre. In contrast, an acre of wheat needs only three and a half hours of labor."</p>	<p>U.S. tobacco farmers successfully diversified to organic bell peppers, tomatoes, and dozens of other heirloom vegetables (Halweil 2003), and in many cases, replacement crops demand as much if not more labor than tobacco (Warren 2002). The tobacco plant contains nicotine, a substance responsible for cigarette addiction and 490,000 tobacco-related deaths in America each year (Institute of Medicine 2007).</p>
<p>Tobacco Growing Process</p>	<p>1984</p>	<p>"The tobacco plant is from the same family as the tomato, pepper, potato and petunia."</p>	<p>Tobacco companies alter and manipulate nicotine levels to ensure cigarette addiction and marketplace viability of tobacco products (Hurt and Robertson 1998).</p>
<p>Tobacco Growing Process</p>	<p>1993</p>	<p>"The process of making cigarettes begins in the field, where the tobacco is grown and harvested."</p>	<p>Tobacco workers suffer from green tobacco sickness due to nicotine poisoning from dermal nicotine absorption, leading to vomiting or nausea during or after exposure. The cumulative seasonal exposure to nicotine of workers in tobacco fields is equivalent to smoking 180 cigarettes (Schmitt et al. 2007).</p>
<p>Cigarettes and Smoking</p>	<p>1993</p>	<p>"At maturity, the burley plants stand about two meters tall. It is harvested whole stalk and speared on stakes usually 5 to 6 stalks each. Stakes are positioned so the severed end of the stalk faces the sun at its greatest intensity to provide maximum protection to the leaves."</p>	<p>Tobacco companies use expanded and reconstituted tobacco with nitrogen, isopentane, and liquid carbon dioxide additives to puff up discarded tobacco to use in cigarettes (Campaign for Tobacco-Free Kids 2001).</p>
<p>Government Intervention</p>	<p>1994</p>	<p>"The unique taste of American cigarettes is a result of the blending of burley and bright tobaccos, which have different characteristics."</p>	<p>Cigarette consumption is declining 1.5% each year in the United States and increasing 2.1% a year in developing countries, where inadequate health care systems exist and restrictions on tobacco companies are virtually absent (Warner 2000).</p>
<p>Government Intervention</p>	<p>1994</p>	<p>"To raise only a tiny portion of what [President Clinton's administration] need[s] to fund health care reform, the administration has chosen to place an unfair burden on not only the 15 million adults who choose to smoke but on an industry that has been the backbone of American society since colonial times."</p>	<p>Tobacco companies place an unfair burden on 38,000 non-smokers who die each year due to exposure to secondhand smoke (Centers for Disease Control and Prevention 2005).</p>
<p>Farmer-Company Partnerships</p>	<p>1983</p>	<p>"From plant workers, to farmers to convenient store workers people all over the country real people with jobs and lives that depend on decisions that you could make or influence wait for the outcome of the health care reform battle with mixed emotions. They want health care for all Americans, but they don't want to be singled out for unfair taxation."</p>	<p>Health Professor Gary Giovina said, "1 year of [tobacco-related] employment comes at the expense of one person losing 15 years of life from a disease caused by the product supporting the job. Because money not spent on tobacco would be spent on other goods and services, the job is replaceable. The life, however, is not" (Giovino 2007).</p>
<p>BAT in the Developing World [Kenya] (British American Tobacco 1988)</p>	<p>1988</p>	<p>"[Tobacco] contributes to America in a positive tangible way financially. It is able to do so because of a successful partnership between manufacturer and grower."</p>	<p>In 2003, tobacco companies opposed U.S. government recommendations to provide economic development assistance to tobacco communities; tobacco growers supported the Commission's report and recommendations (President's Commission on Improving Economic Opportunity in Communities Dependent on Tobacco Production While Protecting Public Health 2001; Myers 2003). BAT, other tobacco companies, and leaf-buying companies provide seeds and fertilizers on loan to farmers in Kenya</p>

Table 2. (Continued).

Categories	Video Title	Year	Portrayals of Tobacco Farming in Tobacco Industry Videos	More Accurate Portrayals of Tobacco Farming in Industry Videos
Developing Countries	<i>Gringo Amigo</i> (Verband der Cigarette-mindustrie 1979)	1979	"[BAT] agricultural extension workers visit the farmers on a regular basis providing advice on how to improve the quality of all their crops not just tobacco."	and elsewhere, pushing farmers into debt, poverty, and in extreme cases, desperation leading to suicide from pesticide exposure or unfulfilled contract arrangements with leaf companies (Christian Aid 2002; La Via Campesina 2007; Patel et al. 2007).
	<i>BAT in the Developing World [Kenya]</i> (British American Tobacco 1988)	1988	"Berkeley Cohn has been living in Guatemala for the past five years. He speaks Spanish. And since he wasn't willing to simply accept their poverty and misery, he decided to do something about it all by himself. Berkeley is financing the schooling of Ricardo Perez's youngest son, Gandolfo, from his own pocket." "[In Kenya] BAT has worked hard to improve farming methods which have led to higher standards of living for rural Kenyans."	Similar to anthropologist Dinah Rajak's findings on mining companies in South Africa (Rajak 2006), tobacco companies in Guatemala and other developing countries conceal their power over farmers and economies with claims that tobacco companies are synonymous with empowerment and sustainable development. BAT contributes to poverty through tobacco-related deforestation, soil erosion, chemical contamination of water tables, farmer indebtedness to BAT, and child labor in Kenya and other tobacco-growing countries (Chacha 2003; Eldring and Nakanyane 2000). Clearing land for tobacco amounts to 500,000 acres cleared every year worldwide (Esson and Leeder 2004; Geist 1999).

poverty, staggering debt, exposure to nicotine and pesticides, and poor health of workers and farmers that characterize the inequalities of tobacco farm culture (Farm Labor Organizing Committee 2007). *A Plant for Tomorrow* contains the primary message that tobacco is imbued with nostalgia about agricultural history and economy. It also contains the primary message that people who promote tobacco control threaten tobacco families and national values in the United States. Lorillard produced a master narrative of the benefits of tobacco farming that intersects with other discourses about the protection of tobacco farm culture, the economic empowerment of communities through tobacco farming, and the association of tobacco with patriotism and nationalism.

The Tobacco Institute and the Development of a Tobacco Industry Video Strategy to Weaken Health Policy

In 1969, the industry developed a strategy to use film types such as documentaries for lobbying policy makers to oppose tobacco-related regulations or for advancing public relations goals (Tiderock Corporation 1969). The Tobacco Institute (the tobacco industry's lobbying and public relations arm) requested "A Film Program" from the Tiderock Corporation (Tiderock Corporation 1969) (one of the Institute's public relations agencies) that refined the industry's strategy to use films and videos to influence public opinion and health policy. Tiderock listed the public health films opposed to smoking produced by the American Cancer Society and other health groups in the 1960s, and suggested that "the Tobacco Institute could make many effective uses of a fully up-to-date, objective, authoritative—and lively—documentary film that dramatizes 'the other side' of the controversy [that the industry was seeking to create about the health effects of smoking (Clements 1968)] for general audiences" (Tiderock Corporation 1969:3). The film-based strategy that Tiderock recommended had multiple parts:

In half-hour form, such a film could serve valuably as the core of personal presentations to adult civic, social, business and professional groups by Institute and intra-industry representatives, including medical speakers. The film could have nationwide exposure to the desired organized adult audiences even without an accompanying speaker, through distribution as a self-contained feature for one of their regular meetings. The film might be shown in theatrical and other settings where "captive" potential audiences congregate—i.e., resort hotels, airports, etc. Although many complexities may be

involved, television exposure of the film should also be explored. [Tiderock Corporation 1969]

In 1970, the Tobacco Institute implemented this strategy (Duffin 1970). In 1972, it produced the film *Smoking and Health: The Need to Know* “to demonstrate that evidence linking smoking and health problems is far from conclusive” (Tobacco Institute 1972). A confidential memo from Andrew Whist (the corporate affairs manager with Philip Morris, Australia) to Alexander Holtzman (a Philip Morris lawyer in New York and company liaison to the Tobacco Institute) said of *Smoking and Health*, “Irrespective of the attitude of legislators and scientists before and after seeing the documentary, there can be no doubt that it does open dialogue with interested parties, a dialogue which we did not have previously” (Whist 1974:4). The tobacco industry’s video strategy also focused on establishing a dialogue with tobacco farmers and others whose livelihoods depended on tobacco, in order to recruit them as allies in arguments about the economic benefits of tobacco (Mayes 1974).

“We’ve Grown Tobacco Ever Since Tobacco Has Been Grown. It’s Part of Our Heritage.”: *The Tobacco Institute’s Leaf Video*

Leaf is an example of a video the Tobacco Institute produced and distributed in 1974 (Figure 2; Tobacco Institute 1974). *Leaf* is comprised of scenes of family members harvesting tobacco, meeting the family’s subsistence needs through tobacco earnings, and honoring the memory of previous generations who passed down crop husbandry skills (Tobacco Institute 1982). In 1984, a representative of the Modern Picture Talking Service (which helped the Institute distribute its videos) reported to the Institute that *Leaf* was the Institute’s “most heavily viewed and requested film” among its major films in

circulation. *Leaf* reached 26,879 average monthly viewers and received 526 average monthly bookings from cable television stations, public schools, and other groups in the United States in 1984 (Tobacco Institute 1984).

The narrator in *Leaf* says,

“In this country [the U.S.] alone, from 1863 to present, over \$150 billion in tobacco taxes have poured into federal, state and municipal treasuries. Other economic factors are involved. Tobacco is a major American export, contributing favorably to the United States’ international balance of payments. More than two million American jobs are generated either directly or indirectly by the leaf, with compensation totaling \$30 billion annually. And domestic retail sales of tobacco products total more than \$21 billion each year. Tobacco growing traditionally has been a family farm affair with employees, husband, wife and children taking part in every step.” [Tobacco Institute 1974]

In a segment from *Leaf* on the Aycock’s tobacco farm, a white middle-aged male farm owner wearing a baseball cap and a short-sleeve collar shirt is interviewed. In the background, a small group of African American and Latino workers and an individual who may be a family member of the farmer prepare a load of tobacco.

Tobacco farmer: We’ve grown tobacco ever since tobacco has been grown. It’s part of our heritage.

Narrator: Gerald Aycock and his family farm in eastern North Carolina. Aycocks have been growing Virginia leaf for flue-cured tobacco since the 1600s. What accounts for the dedication of those who raise it for years, for generations?

Tobacco farmer: It’s part of our heritage. This is our bread-and-butter crop. [Tobacco Institute 1974]



FIGURE 2. Tobacco farmer Gerald Aycock on his family farm in North Carolina explains tobacco’s contribution to his family and community (left) and a tobacco farmer and farm worker lift a load of tobacco on Aycock’s farm (right) in still images from the Tobacco Institute’s *Leaf* (1974).

The segment from *Leaf* reflects the Tobacco Institute's efforts to promote benefits such as jobs from tobacco. It reflects the Tobacco Institute's efforts to appeal to tradition and economic contribution of tobacco to farming communities and the national economy to counter negative public perceptions of the tobacco industry. In a section on tobacco economics in *Leaf*, the narrator says, "Today this plant, with its enormous impact on the life and cultures of people of all lands, remains one of the most demanding of crops to grow" (Tobacco Institute 1982). The subtle meanings of video imagery of tobacco farmers and farm workers in *Leaf* demonstrate tobacco industry efforts to characterize tobacco as a socially important crop and to hide behind tobacco culture and economics to normalize tobacco. Imagery in the segment of African American and Latino farm workers confers the racialized dimension of tobacco culture and history. The video thus shows the industry's role in legitimizing and naturalizing race and class inequalities at the farm level. The Tobacco Institute, through *Leaf*, also promoted its own vision of tobacco culture that privileged tobacco as a family farm affair and a contributor of wealth in the United States. The Tobacco Institute promoted its tobacco culture vision while excluding details on the loss of workforce productivity and health care costs due to tobacco-related death and disease.

Tobacco Companies' Use of Video Imagery to React to Criticism of Tobacco Production Practices in Developing Countries

At the same time U.S. cigarette consumption started to decline in 1981 for the first time (Lindblom 1999), tobacco companies were expanding efforts that began in the 1970s in developing countries to open cigarette factories, to advertise smoking to women and children, and to obtain low-cost tobacco (Ensor 1992; Stebbins 1994). From 1970 to 2000, tobacco leaf production doubled in

developing countries, compared to a 36% increase in developed countries (Davis et al. 2007) and reached 90% of the world's tobacco in 2006 (Food and Agriculture Organization 2008).

In his 1978 study, Mike Muller found that tobacco companies were marketing and selling cigarettes in developing countries with tar levels that were twice that in cigarettes available in Britain (Muller 1978). He reported that tobacco cultivation was steadily increasing in developing countries, aggravating deforestation, food insecurity, and seasonal unemployment as food crops decreased from labor being diverted to tobacco (Muller 1978). In 1979, the World Health Organization (WHO) concluded that tobacco growing is "far from sound as an economic activity," global tobacco exports needed to be discouraged, the size of tobacco-growing and manufacturing industries should be reduced, and "no country should allow a tobacco growing or manufacturing industry to be developed. Where such an industry exists, priority should be given to the development of substitute crops, with international cooperation" (World Health Organization 1979:8).

To counter these criticisms, Verband der Cigarettenindustrie (the German cigarette manufacturers' trade organization) used the grower-manufacturer partnership theme in the narrative structure of its *Gringo Amigo* ("white friend") in 1979 to present a positive image of tobacco companies in developing countries (Figure 3; Verband der Cigarettenindustrie 1979). *Gringo Amigo* focuses on Berkeley Cohn (a German national who speaks Spanish in the video and is an agricultural extension worker with an unnamed tobacco company) to depict efforts in Guatemala's tobacco-growing areas to reduce poverty and bring peace through tobacco production. Either Philip Morris or BAT (the only cigarette manufacturers in Guatemala) employed Cohn. Philip Morris and BAT continue to provide financing, equipment, and agrochemicals for tobacco growers in



FIGURE 3. Berkeley Cohn, a tobacco industry agricultural extension worker, and a Guatemalan tobacco farmer discuss the tobacco crop (left); a child laborer helps his father tie tobacco bundles in a tobacco shed (right) in the Verband der Cigarettenindustrie video *Gringo Amigo* (1979).

Guatemala and to control Guatemala's cigarette market (Foreign Agricultural Service 1995).

Tobacco companies profit from political strife and economic poverty. Through agricultural experts and protocols they keep Guatemalans dependent on tobacco growing and tied to the international tobacco economy. Between 1962 and 1996, Guatemala experienced a state-sponsored war with over 200,000 people killed that spread to tobacco-growing areas and virtually all other areas of the country (Guatemalan Commission for Historical Clarification 1999). *Gringo Amigo* was produced in the peak period of state-sponsored human rights abuses in Guatemala (Guatemalan Commission for Historical Clarification 1999). In contrast to arguments that tobacco growing harms farmers and environments in developing countries, still images of Cohn and a child farm laborer from *Gringo Amigo* communicate the positive social and economic influence of tobacco companies in developing countries. The images communicate the benevolence and control over individuals and communities that companies rely on to ensure access to tobacco produced by unpaid or underpaid laborers.

Cohn is portrayed as a friend of tobacco farmers in Guatemala. He attends church services, socializes in tobacco-drying sheds, and attends bullfights and cockfights. In the opening sequence the narrator explains that "Berkeley Cohn has been living in Guatemala for the past five years. He speaks Spanish. And since he wasn't willing to simply accept their poverty and misery, he decided to do something about it all by himself" (Verband der Cigarettenindustrie 1979).

Gringo Amigo portrays the farmer-manufacturer partnership as based on recommendations from Cohn to farmers to be economically productive and peaceful citizens. Cohn speaks with tobacco farmers about the value of saving money and ensuring that their children attend school. Cohn takes two tobacco farm laborers to visit a banker to show the laborers the money they saved and earned by depositing some of their tobacco money in savings for one year rather than spending it on alcohol and gambling. Later, the narrator explains that Cohn pays for the schooling of Gandolfo, the youngest son of tobacco farmer Ricardo Pérez, and two sons of tobacco farmer López Brocomontare. According to the narrator, Cohn "is ashamed of the social injustice the country's long dependence on the United States has left behind." The narrator continues,

Sometimes, this young foreigner, the gringo, feels anger rising up inside him. Anger at the injustice he sees in this country he loves. He says that until these people learn that their worst enemy is ignorance, neither he nor anyone else will be able to help. The

path they have to take is a long one. Poverty and ignorance produce fear. Fear, in turn, causes despair. And despair could be dynamite. Berkeley does not believe that violence is the answer. He knows just how patient these simple people are. How ready they are just to wait. Don't resort to violence he says to his friends but just waiting won't get you anywhere either. [Verband der Cigarettenindustrie 1979]

Associations with paternalism and benevolence in Guatemala's tobacco sector evoke companies' roles as a friend and partner of tobacco farmers. The depiction of tobacco companies as a benevolent force represents an idealized corporate self-representation. The depiction also symbolically represents the industry recognition of tobacco's demise in the United States and its increasing cultural and economic presence in developing countries. The tobacco companies' capacity to profit through low-cost tobacco during Guatemala's wartime while recruiting new smokers in disenfranchised communities makes companies' roles analogous to an exploiter of individuals and environments in developing countries and a vector for tobacco-related death and disease (Chapman 2006; Yach and Bettcher 2000).

Video Imagery of the Economic Benefit of Tobacco to Farmers and the United States

In 1979, following global condemnation by health and social advocates of the tobacco industry's production practices in developing countries, Philip Morris produced *Tobacco: Seed to Pack*, apparently to promote positive industry practices among politicians and consumers in the United States (Figure 4; Philip Morris 1979). According to *Tobacco*, "Tobacco contributes \$50 billion a year to the nation's economy. In the process, it provides jobs for two million Americans. 600,000 farm families receive income from the production of tobacco. It's the number one cash crop in North and South Carolina, and Kentucky. Number two in Georgia and Virginia and fourth in Tennessee. Tobacco farmers earn their money" (Philip Morris 1979). In the video Philip Morris conveys messages about hardworking farmers and the American spirit originating in the soil on tobacco farms. Philip Morris promotes the messages with narration ("Tobacco farmers earn their money") and imagery of rural families, agricultural landscapes, and farm revenues. The messages represent Philip Morris's attempt to create an authentic view of tobacco's cultural heritage. *Tobacco* also discusses the contribution of tobacco to the U.S. trade balance: "A significant part of American tobacco and tobacco products is shipped out of the country. Each year these international sales contribute a



FIGURE 4. Still shots from Philip Morris's *Tobacco: Seed to Pack*. Hand labor of tobacco farm workers is used to load tobacco plants in drying containers (left) and inspect quality of dried tobacco (right).

positive foreign trade balance of more than \$1.7 billion to our economy. That's symbolic of our tobacco industry. It contributes to America in a positive tangible way financially" (Philip Morris 1979).

Tobacco featured the labor required to cultivate tobacco and discussed tobacco as a superior crop to wheat, based on the labor required to produce tobacco. "[Tobacco] is not an easy crop to grow for it requires more than 270 hours of labor per acre. In contrast, an acre of wheat needs only three and a half hours of labor" (Philip Morris 1979). Contrasting the hours of labor for tobacco and wheat characterizes tobacco as a dominant crop that strengthens industry arguments about the absence of viable crops and livelihoods to replace tobacco. The subtext of still video images of hand labor on tobacco farms shows Philip Morris's efforts to humanize the company and use "tobacco crop" as a discourse of economic empowerment portrayed as a social fact. The underlying message of *Tobacco* is that crop substitution projects are ineffective and tobacco remains the ideal crop for jobs and economic vitality.

In contrast to the images in *Tobacco*, industry practices show disdain for tobacco farmers and farm culture. Tobacco companies downgrade (assign a lower quality, and so a lower financial value, to) tobacco, promote large-scale farms over family farms, and use scare tactics to argue that tobacco communities "will live or die by tobacco and nothing else" (Johnson 1994). Companies' purchases of low-cost tobacco from developing countries and use of foreign tobacco in U.S. manufactured cigarettes (Lindblom 1999; Reaves and Purcell 1999) contradict companies' images in *Tobacco* and other videos that the tobacco companies are partners with domestic farmers to protect the tradition of tobacco (Table 2).

Tobacco farm workers suffer from green tobacco sickness that results from nicotine poisoning from absorption of nicotine through skin contact with leaves during cultivation and harvesting, leading to vomiting

or headaches (Arcury 2003). The cumulative seasonal exposure to nicotine of workers in tobacco fields is equivalent to smoking 180 cigarettes (Schmitt and Schmitt 2007). In 1983, the Tobacco Institute produced *Tobacco Speaks Out* about the public relations activities of the Tobacco Institute, with portions distancing tobacco use from death and disease (Figure 5; Tobacco Institute 1983). The opening segment shows a tobacco auction overlaid with onscreen text: "The following is a presentation of the Tobacco Institute in the belief that a free, full, and informed discussion of all issues involving tobacco is in the public interest." The segment supports the industry argument that public health and media discussions unfairly exclude it and misrepresent its positions (Saloojee and Dagli 2000; Smith and Malone 2003). A secondary meaning of the onscreen text reflects the industry strategy of portraying itself as a reasonable partner in public debates about tobacco economics. Tobacco companies' support for "a free, full, and informed [public] discussion of all issues involving tobacco" in *Tobacco Speaks Out* shows that tobacco industry nostalgia for farm culture is imbued with rhetorical acts of public persuasion and a corporate vision of tobacco culture veiled in neutrality.

In a segment on tobacco economics in *Tobacco Speaks Out*, the Tobacco Institute uses tobacco employment data from industry consultants at the University of Pennsylvania Wharton School to argue the economic importance of tobacco in the United States: "[T]hroughout history, tobacco has meant one thing more than any other, people. In the fields, in the factories, and all kinds of places in between. A study by the University of Pennsylvania's highly respected Wharton School reveals in America today tobacco means jobs to more than 2 million people. But today, this golden leaf also means something else. In its own interest certainly, but also in the public interest America's oldest industry is speaking out" (Tobacco Institute 1983). The tobacco industry uses

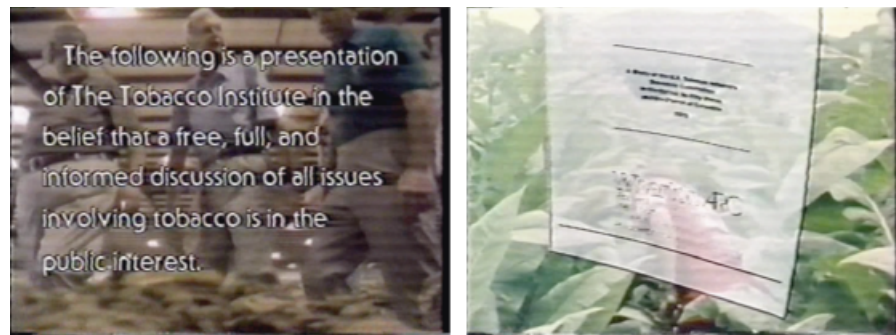


FIGURE 5. "The following is a presentation of the Tobacco Institute in the belief that a free, full, and informed discussion of all issues involving tobacco is in the public interest" text from the introduction of *Tobacco Speaks Out* produced to enable the tobacco industry to legitimize its participation in public debate and discussion on health and legislative issues (1983) (left); "A study by the Wharton School reveals in America today tobacco means jobs to more than 2 million people" juxtaposed over a scene of a tobacco field in *Tobacco Speaks Out* (right).

economic figures gathered from tobacco industry-funded studies done by university researchers at the Wharton School, as well as by consulting firms such as PriceWaterhouse, to give credence to industry economic arguments (Cohen et al. 1999; Warner et al. 1996).

Tobacco industry-funded analyses do not take into account the cost to society from tobacco production and consumption, particularly costs of tobacco use for the health care sector. They also inflate tobacco-related job losses due to tobacco control measures that reduce tobacco employment in communities reliant on tobacco farming (Warner 1987). In *Tobacco Speaks Out*, the Tobacco Institute featured research that inaccurately reported tobacco-related jobs and incomes as irreplaceable, and understated tobacco-related costs for health care and the mortuary business (Warner 1987). The Tobacco Institute and the tobacco industry rely on employment and other economic data from industry-funded consultants to argue for the economic contribution of tobacco to farming communities.

BAT Claims of Development and Environmental Stewardship in the Video BAT in the Developing World [Kenya]

In 1988, in *BAT in the Developing World*, BAT focused in part on the company's contract farming arrangements, reforestation schemes, and agricultural extension assistance to tobacco farmers in Kenya (Figure 6; British American Tobacco 1988).² According to the video, BAT "has been working with tobacco farmers in developing countries for several generations. Understanding their needs is not only good for our business, it's good for theirs" (British American Tobacco 1988). Kenya is one of Africa's most important growers of tobacco and producers of cigarettes (Patel et al. 2007). BAT directly contracts 8,000 tobacco farmers there (British American Tobacco 2004).

In the beginning of the sequence, the extension worker and farmer greet each other. The worker says, "How is the crop doing?" The tobacco farmer replies,



FIGURE 6. A British American Tobacco (BAT) Kenya agricultural extension worker and a tobacco farmer discuss land for BAT-funded reforestation schemes in Kenya (left). Tobacco workers unload tobacco bales at a storage depot in Kenya in a scene from BAT's *BAT in the Developing World [Kenya]* (1988) (right).

“Fairly well.” The extension worker remarks, “Yes, I can see that this one is flowering. And I could see that this one is starting to flower. But then this one is a little bit behind. So you let these big ones flower first then you come and top. Then this one you will have to top it later on. Because if you top it now you don’t know how much it is going come up out of it. And then here, this one, you could see that it was attacked by some pests. I think you were late to spray. You see, now you are losing here your leaf. And this one needs managing. So next time you have to spray.” The tobacco farmer comments, “I will do so. I will do so” (British American Tobacco 1988). BAT legitimizes the company’s role as a steward of the environment through BAT reforestation schemes in Kenya when the narrator says, “The Kenyan government has adopted a vigorous program of forest conservation. For its part, to provide ceilings for the farmers, BAT Kenya has set up tree nurseries in all areas where tobacco is grown and each farmer must now undertake to plant 1,000 trees for every acre of tobacco grown” (British American Tobacco 1988).

BAT in the Developing World discusses the links between contract farming and farmer welfare. According to the narrator, BAT “helps to arrange loans to meet their capital costs and underwrites their credit with the bank” (British American Tobacco 1988). The video suggests that BAT loans contribute to the farmer’s economic sustenance and ability to learn new agricultural methods through BAT representatives. The video suggests that farmers enjoy the increasing yields from tobacco crops through the use of fertilizers purchased from BAT. According to the video, relationships between farmers and BAT contribute to the maintenance of traditional agricultural practices, prevent urban migration from rural areas in Kenya, and encourage the use of farm chemicals to increase tobacco yields. BAT interviews Mr. Mowita, a government minister and tobacco farmer in Kenya, on the company’s reforestation scheme as a strategy to humanize and legitimize BAT’s environmental stewardship in Kenya:

Very little of this tree planting, but in 1979, BAT started because they saw the effect that without encouraging the farmers from planting trees the areas will remain death paths. Therefore, up to last year the total number of trees planted in my area is about 4 million. And this is quite a big contribution than the government policies. BAT is also encouraging the farmers to have their own seed beds, an average per farmer of about 200–500 trees which to me if you come back to this country in another four years’ time you’ll see tremendous. The landscape will be beautiful . . . power . . . from BAT and supplemented

by others I think . . . I’m happy when I see my people and look forward to buy small vehicles to transport other people. Their condition of living has improved. I think BAT to me and I think to not only to me to all the farmers and people at home they are quite grateful to BAT. [British American Tobacco 1988]

Latent meanings of the excerpt on BAT’s tree planting, and video still images of tobacco warehouse workers and a farmer consulting with a BAT agricultural extension officer in a field, reveal that BAT portrays itself as a contributor to socioeconomic development and partner in reforestation programs. This conceals BAT’s role in tobacco-related poverty in developing countries. In the interview with Mowita, BAT depicts farmers’ and government officials’ gratitude for BAT’s reforestation effort and environmental stewardship in Kenya. Beginning in 1982, however, opposition had emerged to raise public awareness of BAT’s contribution to deforestation and land degradation in Kenya (Bazinger 1982; Currie and Ray 1984; Kweyuh 1994). BAT’s video imagery thus constitutes a corporate activity to build public faith and neutralize opposition to tobacco company practices in Kenya.

BAT promotes imagery of tobacco as a driver of socio-economic development when actual practices, such as contract farming, hurt tobacco farmers’ social and economic lives. In *BAT in the Developing World*, BAT claims that contract farming contributes to the social and economic development of tobacco farmers in Kenya. But problems with contract farming include inflated prices for seeds and agricultural chemicals, and little or no financial benefits with high risks for tobacco farmers (Patel et al. 2007), including the indebtedness of farmers to companies who provide agricultural inputs on loan, and monopolistic leaf-buying practices that enable companies to underpay and control local farmers (Patel et al. 2007). Joe Asila (founder of Kenya’s Social Needs Network) reported that many tobacco farmers in Kenya who did not understand the contracts signed them anyway (Asila 2004). Asila reports that

“80 per cent of tobacco farmers [in Kenya] actually lose money. Because they are usually poorly educated, they lack the skills to organize a budget for their nine months of toil. When the payoff comes they see the cash-in-hand, not the loss they may have incurred. Their only certainty is that tobacco farming does little to improve their hand-to-mouth existence.” [Asila 2004]

BAT’s images of tobacco’s contribution to higher living standards for farmers in Kenya and other tobacco-growing countries portrayed in videos such as *BAT in*

the Developing World are thus contradicted by the poverty and chronic indebtedness of tobacco farmers. In extreme cases, farmers' desperation leads to suicide from pesticide exposure or unfulfilled contract arrangements with tobacco companies (Table 2; Christian Aid 2002; La Via Campesina 2007; Otañez et al. 2006; Patel et al. 2007; World Health Organization 2004).

Potential Tobacco Regulation and Tax Increases Threaten Tobacco Companies

Beginning in the 1950s, agricultural mechanization was beginning to end small farms in the United States that relied on hand and collective labor with regular assistance from cousins, grandchildren, and neighbors (Stull 2005). From 1947 to 1995, the size of U.S. tobacco farms grew from 7 to 97 acres (Hart and Chestang 1996). Tractors and metal bulk barns were replacing hand labor, mule and horse-drawn wagons, and wood barns in the 1950s and 1960s (Hart and Chestang 1996; Stull 2005). Machinery such as tobacco setters and fertilizers and pesticides replaced crop rotation and fallowing (Craig 2005; van Willigen 1998). New farm chemicals, improved seeds, and mechanized operations enabled some tobacco farmers with access to capital to increase their landholdings with farm plots from smaller, more impoverished farmers. Tobacco companies in videos failed to account for the decline of the small tobacco farm in the United States from technological changes in the tobacco industry and concentration of tobacco farming into large landholdings. In 1993, U.S. President Bill Clinton proposed a \$0.75 per pack cigarette tax increase as part of health care reform legislation that would have guaranteed every American private health insurance (Schroeder

1993). In 1994, the National Smokers' Alliance, a front group Philip Morris created to oppose tobacco control legislation (Stauber and Rampton 2004), produced *Real Lives* as a response to Clinton's proposed tax increase, arguing that it would hurt tobacco farmers (Figure 7; National Smokers' Alliance 1994). According to Philip Morris's video *Real Lives*, "The Administration has chosen to place an unfair burden on not only the 15 million adults who choose to smoke but on an industry that has been the backbone of American society since colonial times" (National Smokers' Alliance 1994). Tobacco industry support for an end to unfair attacks on adult smokers in *Real Lives* illustrates industry efforts to appeal to viewers' empathy for companies' arguments and to promote a corporate worldview of tobacco culture.

Tobacco companies convinced tobacco farmers in the United States to lobby against President Clinton's proposed tobacco tax when in reality tobacco companies hurt farmers more than the proposed tobacco tax would have ever done (Johnson 1994). In 2003, the companies opposed the recommendations of the President's Commission on Improving Economic Opportunity in Communities Dependent on Tobacco Production While Protecting Public Health with recommendations such as providing economic development assistance to tobacco communities to create nontobacco jobs, income, and wealth (Table 2; Myers 2003; President's Commission on Improving Economic Opportunity in Communities Dependent on Tobacco Production While Protecting Public Health 2001). In contrast, tobacco growers supported the Commission's report and recommendations. Video imagery of the economic benefits of tobacco for farm communities ignores the tobacco companies' opposition to the Commission's report and recommendations.



FIGURE 7. Paul and Pat Hornbeck, tobacco farmers in Kentucky, discuss the loss of jobs and income from the proposed tobacco tax in *Real Lives* (1993) (left). Latino farm workers and a mechanized tobacco setter to transplant seedlings in fields (right) illustrate changing agricultural practices, labor requirements, and technologies in the tobacco industry. They index a switch in tobacco companies' reliance on African American field workers to low-wage Latino migrant workers in the 1980s and 1990s, and signify disposable tobacco labor that tobacco companies portray elsewhere as benefactors of tobacco growing.

In a segment from *Real Lives*, the National Smokers' Alliance and Philip Morris portray Paul Hornbeck and his wife, Pat, as ordinary farmers in Kentucky to argue that tobacco control policies threaten to destroy the Hornbecks and other U.S. tobacco farmers. Paul Hornbeck says, "I've been in farming all my life. I grew up on a farm. Started raising tobacco probably when I was ten, twelve years old with a small crop of tobacco. This farm we have here is close to average size for this area. Tobacco counts for 60% of my net income here on this farm." Paul is pictured with a baseball cap, a long-sleeve flannel shirt and work pants, standing next to Pat who is wearing a long-sleeve collar turquoise work shirt sitting on a tractor in front of tobacco seedling nurseries covered in white plastic sheeting. The subtext of video still images of the Hornbecks posed on a pickup truck and of farm workers planting seedlings shows how companies such as Philip Morris present themselves as friends of farmers to authenticate tobacco companies as legitimate community members and defenders of farmer interests.

Hornbeck helped Philip Morris to derail the Food and Drug Administration's (FDA) 1994 proposed rule to regulate tobacco products as drug delivery devices (Benowitz and Henningfield 1994). In 1995, he was an organizer in the tobacco farm community in Kentucky and met with representatives from Jack Guthrie and Associates, the public relations firm retained by Philip Morris, "regarding distribution of material to the state's key tobacco markets and to discuss logistics of collecting petitions/letters and forwarding them to FDA prior to 1/2/96" (Jack Guthrie and Associates 1996a). Tobacco companies viewed the FDA's actions as a threat to their economic interests and lobbied government officials and filed a lawsuit in North Carolina in 1995 to challenge the authority of the FDA to regulate tobacco as a drug (Borio

2002). Also in 1995 the Philip Morris newsletter *News Line*, distributed to tobacco farmers and industry allies in Kentucky, featured Hornbeck in a story about the threat to tobacco earnings of farmers due to a proposed 40 percent cut in tobacco farmer quotas and revenues through national price support agreements (Philip Morris 1995).

In a summary of activities for Guthrie/Mayes Public Relations in April 1996, Dan Hartlage reported that he had conducted several telephone discussions with Hornbeck "regarding implementation of communication program from tobacco-growing community targeting Congress. Discussions focused on developing tactics where farmers could have 'face-to-face' contact with members of Congress on issues related to tobacco" (Jack Guthrie and Associates 1996b). These issues included proposed FDA legislation to control tobacco as a drug. In 1996, Brown and Williamson used Hornbeck in *Tobacco: Working for America* about tobacco's long American tradition and its economic contribution to the United States (Figure 8; Brown and Williamson 1996). In an October 1996 progress report of the company's Consumer and Regulatory Affairs department, BAT said that Brown and Williamson distributed *Tobacco: Working for America* to "smoker support groups, one of which has included this material on its internet site," and "employees, retirees, customers, state treasurers, state agricultural commissioners, chamber of commerce, tobacco industry analysts, tobacco associations, state farm bureaus, and the deans of agricultural colleges in states across the country" (British American Tobacco 1996a, 1996b). Hornbeck, who is described as a tobacco farmer from Shelby County, Kentucky, says in the film,

On this farm here I've got 90 acres and I raise some 15 acres of tobacco here plus I raise another 25 acres



FIGURE 8. Scenes from Brown and Williamson's 1996 video *Tobacco: Working for America*. At left, a tobacco farmer on a tractor overlaid with the text "142,000 Tobacco Growing Jobs" is a powerful image of tobacco economics. The companion audio states that health legislation will impact 140,000 jobs. Brown and Williamson used members of Paul Hornbeck's tobacco family to highlight the ordinary farmer, family farm, jobs, earnings, and rural life to oppose tobacco regulation (right).

of tobacco. It's on a landlord-tenant-share scattered within a two-mile radius of this farm. This plant represents my way of life. It represents me making a farm payment at the end of the year and my family having a good Christmas, or whether we're going to college, or whatever, and paying the bills for us during the year. To the government, it amounts to some \$5 per plant versus some \$0.25 for me per plant. But if you look on a large scale, the tobacco plant means whether we farm or whether we don't farm. [Brown and Williamson 1996]

The National Smokers' Alliance and Philip Morris, who also featured Paul Hornbeck as an ordinary farmer who would be harmed economically by government regulation of tobacco in its 1993 video *Real Lives*, failed to provide details that Hornbeck was a lobbyist and community organizer for Philip Morris. In *Tobacco: Working for America*, Brown and Williamson used images of Hornbeck's family planting seedlings and Hornbeck driving a tractor overlaid with the text "142,000 Tobacco Growing Jobs" to present its position in human terms and argue that tobacco farmers and jobs would be threatened by FDA regulation.

Discussion

Accurate Portrayals of the Tobacco Industry Would Include Poverty and Environmental Degradation

Benjamin's notion of "traffics in culture" to describe World Bank activities to promote economic development by appealing to cultural values (Benjamin 2007) is applicable to tobacco companies' use of video imagery to support their political and public relations goals. Tobacco industry video imagery and narratives of the social and environmental benefits of tobacco farming ignore tobacco-related poverty, child labor, political instability, and deforestation in developing countries. Philip Morris, BAT, and other cigarette manufacturers buy tobacco in Kenya, Guatemala, and elsewhere that is produced by child laborers and cultivated under duress from poverty, political oppression, and environmental degradation (Patel, Collin, and Gilmore 2007; Otañez, Muggli et al. 2006; Stebbins 1994). Tobacco industry entry and the expansion of tobacco farming in developing countries contributes to poverty, economic instability, and death and disease (Lee 2007; Shaffer et al. 2005). In an analysis of the effects of tobacco production in the Copan Valley in Honduras, geographer William Loker concluded, "The entry of BAT-sponsored tobacco production reinforced a highly unequal social and economic system in the [Copan] valley and tied this

system more tightly to national and international markets, quickening the pace of exploitation" (Loker 2004). Loker presented a counter narrative to the economic benefits of tobacco that the tobacco industry promoted to legitimize itself and reduce threats to the smoking business.

Tobacco growing contributes to deforestation and global climate change. Curing one pound of tobacco requires 20 pounds of wood. Nine million acres are deforested annually for tobacco production worldwide, accounting for nearly 5 percent of greenhouse gas emissions (Farrell 2007). Replacing tobacco with food crops could feed up to 20 million of the world's current 28 million undernourished people (Farrell 2007). Tobacco's contribution to poverty, deforestation, and economic instability in developing countries contradicts tobacco companies' use of visual imagery that suggests they improve the standards of living for tobacco farmers in developing countries in *Gringo Amigo* and *BAT in the Developing World* (Table 2).

The tobacco industry presents tobacco as the only viable crop in terms of hours of labor per acre, employment, and earnings. In *Tobacco: Seed to Pack*, Philip Morris claims that tobacco requires 270 hours of labor per acre and wheat requires three and a half hours of labor per acre (Philip Morris 1979). In *Tobacco: Working for America*, Brown and Williamson claims that the economic contribution of tobacco in 1996 includes 45 million tobacco farmers, 120,000 tobacco farm families, 2 million tobacco jobs, \$22 billion in annual federal taxes, and a \$6 billion annual U.S. trade surplus derived from tobacco (Brown and Williamson 1996). Tobacco companies lobbied governments and published reports that exaggerate the economic benefits of tobacco growing (Framework Convention Alliance 2007a, 2007b; Otañez et al. 2006). Tobacco companies overtly and covertly funded research on tobacco crops to argue that a replacement crop for tobacco does not exist, and funded the few existing studies on alternative crops to promote the economic benefits of tobacco and counter public health arguments in support of alternative crops and livelihoods to tobacco (Framework Convention Alliance 2007a, 2007b; Otañez et al. 2007). In addition, tobacco companies created a climate of fear of diversification by claiming that unemployment from crop substitution would increase rural to urban migration and political instability (Framework Convention Alliance 2007a, 2007b; Otañez et al. 2007).

There are strong images that could be used to present an alternative narrative about tobacco farming (Figure 9). These images, from Malawi, more accurately represent reality than the images in recent tobacco industry-produced videos on the benefits of tobacco farming. The image of a shoeless child with torn clothes plucking leaves from tobacco plants reveals the tobacco-harvesting tasks



FIGURE 9. Images of the social, economic, and environmental consequences of tobacco farming in Malawi and other developing countries are strong counter messages to imagery in tobacco industry-produced videos about the benefits of tobacco farming. Parents send children as young as five years old to tobacco fields instead of school, preventing children from attaining an education (top, left). The image of tobacco-related deforestation informs viewers that tobacco degrades land and aggravates food insecurity through the farming of tobacco instead of less harmful export crops or food crops (top, right). Tobacco farmers and environments are vulnerable to poisoning from pesticides and fertilizers (bottom, left). Inflated costs for seeds and fertilizers and low tobacco prices paid by global tobacco companies contribute to farmer indebtedness to farm landlords and tobacco companies (bottom, right).

performed that prevent children from attending school. The child labor image shows the poverty pertaining to tobacco farming that is absent in industry-produced videos. The image informs viewers that tobacco companies benefit from unpaid child labor and that tobacco farming requires regulation. The image of two pesticide containers with tattered labels on dirt-covered ground signals the pesticide poisoning of farmers, agricultural chemical pollution of water tables, and depletion of soil nutrients from fertilizers and pesticides in tobacco farming. The pesticide containers, which appear to be discarded, are signs of the health and environmental effects of agricultural chemical use, and of tobacco as a socially damaging crop. The image of cut trees in piles next to tobacco flue-curing barns that consume wood for fuel elicits tobacco-related deforestation

and destroyed land that could otherwise be used for less harmful export crops or food crops. The image of cut trees and flue-curing barns contributes to understanding the role of tobacco companies in environmental degradation. The image offers a counter narrative to industry videos that portray companies as responsible stewards of the environment. The image of a tobacco farmer, his child, and several other farmers and children dressed in ragged clothes, shoeless, sitting on dirt ground, shows the human misery of tobacco growing. The weathered and stern faces of the farmers and children in the image reveal dissatisfaction with farmer indebtedness to farm landlords and tobacco companies from inflated costs for seeds and fertilizers, and from low tobacco prices paid by global tobacco companies. The images highlight the actual

human experiences of tobacco farming and are an alternative to industry video images of tobacco companies as contributors to socioeconomic development, intended to strengthen industry argument about tobacco's benefits.

Conclusion

Tobacco companies engage in the creation and circulation of visual tobacco culture to portray tobacco farming as a tradition to be protected instead of an industry to be regulated. Images and narratives of the tobacco industry as a friend of tobacco farm families and tobacco as a driver of socioeconomic development are at odds with tobacco-related child labor, deforestation, and pesticide poisoning of farmers. Tobacco companies' partnerships with American or Guatemalan farmers as portrayed in industry videos are a corporate strategy to nominally show support for farmers through loan schemes and contract arrangements while using the partnership to conceal industry influence in grower-related legislation. Tobacco industry videos contribute to visual researchers' understanding of discourse construction and message making through videos that are unlikely to be found in photographs and text documents. Videos have been used by tobacco companies to supplement photographs, text documents, and new forms of visual data such as websites and cell phone text and photographic messages. Tobacco companies still use visual imagery and discursive narrative that appeal to cultural formations and values to build public faith, goodwill, and a customer base. We anticipate that tobacco companies will increase the use of videos to promote claims of economic improvement in developing countries and to deflect attention away from the health and social implications of tobacco. Tobacco companies' use of video imagery of tobacco farming on the Internet (British American Tobacco 2006) and probable use of YouTube and other free Internet social networking sites to disseminate pro-tobacco images and narratives (Freeman and Chapman 2007) suggest that health media makers need to understand and counter Internet-based imagery on the economic benefits of tobacco.

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Notes

- ¹ Habiba Alcindor reported in 2005 that the "number of black farmers [in the U.S.] has declined by 98 percent since 1920, compared with a 66 percent decline in white farmers over the same period" (Alcindor 2005).
- ² Although *BAT in the Developing World* is a set of three videos that focus on tobacco growing and reforestation in Kenya, Sri Lanka, and Brazil, we were only able to obtain the Kenya episode.

References

- Alcindor, Habiba
2005 America's Black Farmers: Losing Ground. *The Nation* (US). March 20. Electronic document, <http://www.thenation.com/doc/20050404/alcindor>, accessed July 3, 2008.
- Altheide, David
1987 Ethnographic Content Analysis. *Qualitative Sociology* 10(1):65-77.
- Anderson, Stacy, with Stanton Glantz and Pam Ling
2005 Emotions for Sale: Cigarette Advertising and Women's Psychosocial Needs. *Tobacco Control* 14(2):127-135.
- Asila, Joe
2004 No Cash in This Crop. *New Internationalist*. 369, July. Electronic document, <http://www.newint.org/features/2004/07/01/kenya>, accessed May 3, 2008.
- Balbach, Edith
2002 Tobacco Industry Documents: Comparing the Minnesota Depository and Internet Access. *Tobacco Control* 11(1):68-72.
- Barraclough, Simon, and Martha Morrow
2008 A Grim Contradiction: The Practice and Consequences of Corporate Social Responsibility by British American Tobacco in Malaysia. *Social Science and Medicine* 66(8):1784-1796.
- Bazinger, R.
1982 Tobacco Depletes Food-Crop Land. *Smoke Signals* 3:7.
- Benjamin, Bret
2007 *Invested Interests: Capital, Culture and the World Bank*. Minneapolis: University of Minnesota Press.
- Benowitz, Neal, and Jack Henningfield
1994 Establishing a Nicotine Threshold for Addiction: The Implications for Tobacco Regulation. *New England Journal of Medicine* 331(2):123-125.
- B-Line Films
2007 *On the Other Side*. 51 min. B-Line Films. USA.
- Borio, Gene
2002 *Tobacco Timeline: The Twentieth Century 1950-1999: The Battle Is Joined*. Electronic document, http://www.tobacco.org/resources/history/Tobacco_History_202.html, accessed August 14, 2007.

- British American Tobacco
- 1988 BAT in the Developing World [Kenya]. 8 min. British American Tobacco. United Kingdom.
- 1996a Consumer and Regulatory Affairs: Progress Report. October. British American Tobacco. Electronic document, <http://bat.library.ucsf.edu/tid/ali34a99>, accessed November 14, 2007.
- 1996b News from BAT Industries. British American Tobacco. Electronic document, <http://bat.library.ucsf.edu/tid/rni73a99>, accessed November 14, 2007.
- 2004 Report to Society. Electronic document, [http://www.bat.com/group/sites/uk_3mnfen.nsf/vwPagesWebLive/BF6078CA0DD6142DC12573140052F027/\\$FILE/Kenya%202003-04.pdf?openelement](http://www.bat.com/group/sites/uk_3mnfen.nsf/vwPagesWebLive/BF6078CA0DD6142DC12573140052F027/$FILE/Kenya%202003-04.pdf?openelement), accessed November 29, 2007.
- 2006 Crop to Consumer. Electronic document, http://www.bat.com/group/sites/uk_3mnfen.nsf/vwPagesWebLive/DO76PHQU?opendocument&SKN=1&TMP=1, accessed December 2, 2007.
- Broder, S.
- 1992 Cigarette Advertising and Corporate Responsibility. *Journal of the American Medical Association* 268(6):782–783.
- Brown and Williamson
- 1996 Tobacco: Working for America. 11 min. Electronic document, <http://legacy.library.ucsf.edu/tid/jly27a00>, accessed November 13, 2007.
- 1999 Brown and Williamson Web Site—Tobacco Processing. 9 min. Electronic document, <http://legacy.library.ucsf.edu/tid/ukk21c00>, accessed December 13, 2007.
- Campaign for Tobacco-Free Kids
- 2001 Golden Leaf, Barren Harvest: The Costs of Tobacco Farming. Washington, DC, Campaign for Tobacco-Free Kids, <http://tobaccofreekids.org/campaign/global/FCTCreport1.pdf>, accessed November 21, 2007.
- Carolina Tobacco Company
- 1995 Carolina Tobacco: Roots of an Ageless Triumph Featuring the Harley Davidson TV Spot “Stuntman.” 24 min. Electronic document, <http://legacy.library.ucsf.edu/tid/vnk64a00>, accessed January 13, 2008.
- Chacha, Babere
- 2003 Killing Trees to Cure Tobacco: Tobacco and Environmental Change in Kuria District, Kenya, 1969–1999. World Forestry Congress, Quebec City, Canada. Electronic document, www.fao.org/DOC-REP/ARTICLE/WFC/XII/0900-B1.HTM, accessed January 2, 2008.
- Chapman, Simon
- 1994 Tobacco and Deforestation in the Developing World (editorial). *Tobacco Control* 3:191–193.
- 2006 Regulating the Global Vector for Lung Cancer. *Lancet* 367(9512):706–708.
- Chapman, Simon, and Wai Wong
- 1990 Tobacco Control in the Third World: A Resource Atlas. Penang, Malaysia: International Organization of Consumers Unions.
- Christian Aid
- 2002 Hooked on Tobacco: British American Tobacco Report. London. Electronic document, <http://212.2.6.41/indepth/0201bat/index.htm>, accessed December 19, 2007.
- Clements, Earle
- 1968 Year of Smoking and Health Controversy. Electronic document, <http://legacy.library.ucsf.edu/tid/cyd92f00>, accessed December 21, 2007.
- Cohen, Joanna, with M. Ashley, R. Ferrence, J. Brewster, and A. Goldstein
- 1999 Institutional Addiction to Tobacco. *Tobacco Control* 8(1):70–74.
- Concept Films and Tobacco Institute
- 1974 Leaf: A Fifteen-Minute Film. Brown & Williamson. Electronic document, <http://legacy.library.ucsf.edu/tid/pzw93f00>, accessed November 29, 2007.
- Craig, Verdie
- 2005 Restructuring Tobacco Livelihoods: Burley Growers and the Federal Tobacco Program. Ph.D. dissertation, Department of Geography, Rutgers University.
- Currie, Kati, and Larry Ray
- 1984 Going Up in Smoke: The Case of British American Tobacco in Kenya. *Social Science and Medicine* 19(11):1131–1139.
- Daniel, Pete
- 1985 Breaking the Land: The Transformation of Cotton, Tobacco, and Rice Cultures Since 1880. Urbana: University of Illinois Press.
- Davis, Ronald, with Melanie Wakefield, Amanda Amos, and Prakash Gupta
- 2007 The Hitchhiker’s Guide to Tobacco Control: A Global Assessment of Harms, Remedies, and Controversies. *Annual Review of Public Health* 28:171–194.
- Dimitrova, Nevenka, with Hong-Jiang Zhang, B. Shahraray, I. Sezan, T. Huang, and A. Zakhor
- 2002 Applications of Video-Content Analysis and Retrieval. Electronic document, http://www-video.eecs.berkeley.edu/papers/Dimitrova/IEEE_MM2002.pdf, accessed December 14, 2007.
- Duffin, Anne
- 1970 Memorandum to William Kloepfer, Jr. [Regarding the Tiderock Corporation]. September 24. Tobacco Institute. Electronic document, <http://legacy.library.ucsf.edu/tid/jed91f00>, accessed December 19, 2007.
- Eldring, Line, and Sabata Nakanyane
- 2000 Child Labor in the Tobacco Growing Sector in Africa. Oslo: FAFO Institute of Applied Social Science. Electronic document, www.faf.no/pub/rapp/654/654.pdf, accessed December 12, 2007.
- Ensor, Tim
- 1992 Regulating Tobacco Consumption in Developing Countries. *Health Policy and Planning* 7(4):375–381.
- Esson, Katharine, and Stephen Leeder
- 2004 The Millennium Development Goals and Tobacco Control: An Opportunity for Global Partnership. Geneva, Switzerland: World Health Organization.

- Fairclough, Norman
 2001 *The Discourse of New Labour: Critical Discourse Analysis. In Discourse as Data: A Guide for Analysts.* Wetherell, M., S. Taylor, and S. Yates, eds. Pp. 229–266. Thousand Oaks, CA: Sage.
- Farm Labor Organizing Committee
 2007 FLOC Seeks Justice to Extend Labor Rights to Reynolds Tobacco Farmworkers in North Carolina. Toledo, OH Farm Labor Organizing Committee.
- Farrell, Bryan
 2007 Tobacco Stains: The Global Footprint of a Deadly Crop. In *These Times*. October 1. Electronic document, http://www.inthesetimes.com/article/3324/tobacco_stains, accessed October 15, 2007.
- Food and Agriculture Organization
 2008 FAOSTAT Data. Electronic document, <http://faostat.fao.org/site/408/default.aspx>, accessed November 1, 2007.
- Foreign Agricultural Service
 1995 Tobacco: Annual Report [Guatemala]. Electronic document, http://www.fas.usda.gov/scripts/attacherep/display_gedes_report.asp?Rep_ID=10001220, accessed November 21, 2007.
- Framework Convention Alliance
 2007a Economically Viable Alternatives to Tobacco: The Study Group on Alternative Crops. Electronic document, http://www.fctc.org/x/documents/AlternativeCrops_Briefing_COP2_English.pdf, accessed January 2, 2008.
 2007b How Big Was the Global Illicit Tobacco Trade Problem in 2006? Presented at the Second Conference of the Parties to the WHO FCTC, July 2, 2007. Bangkok, Thailand. Electronic document, http://www.fctc.org/x/documents/HowBigWasTheIllicitTobaccoTradeProblem_2006_English, accessed January 2, 2008.
- Freeman, B., and Simon Chapman
 2007 Is “YouTube” Telling or Selling You Something? Tobacco Content on the YouTube Video-Sharing Website. *Tobacco Control* 16(3):207–210.
- Freeman, C.
 1978 Cigarette Industry Abroad: World in Action. June 5. British American Tobacco. Electronic document, <http://bat.library.ucsf.edu/tid/vvy01a99>, accessed November 17, 2007.
- Geist, Helmut
 1999 Soil Mining and Societal Response: The Case of Tobacco in Eastern Miombo Highlands. *In Coping with Changing Environments: Social Dimensions of Endangered Ecosystems in the Developing World*. B. Lohnert and H. Geist, eds. Pp. 119–148. Aldershot, UK: Ashgate.
- Giovino, Gary
 2007 The tobacco epidemic in the United States. *American Journal of Preventative Medicine* 33(6 Suppl):S318–S326.
- Guatemalan Commission for Historical Clarification
 1999 Guatemala: Memory of Silence. Electronic document, <http://shr.aas.org/guatemala/ceh/report/english/toc.html>, accessed November 17, 2007.
- Halweil, Brian
 2003 This Old Barn, This New Money. *World Watch*. July/August. Electronic document, www.thefreelibrary.com/This+old+barn,+this+new+money:+tobacco+farmers+are+in+trouble.+Except...-a0104733333, accessed November 29, 2007.
- Hanjalic, Alan
 2004 *Content-Based Analysis of Digital Video*. Boston: Kluwer Academic.
- Hart, John, and Ennis Chestang
 1996 Turmoil in Tobaccoland. *The Geographical Review* 86(4):550–572.
- Hirsch, Cynthia
 1996 *Everyday Ideas about Gang Membership and Gang Violence: An Ethnographic Content Analysis*. Ph.D. dissertation, San Antonio, Texas, Our Lady of the Lake University.
- Ho, Karen
 2005 Situating Global Capitalisms: A View from Wall Street Investment Banks. *Cultural Anthropology* 20(1):68–96.
- Hurt, Richard, and Channing Robertson
 1998 Prying Open the Door to the Tobacco Industry’s Secrets about Nicotine: The Minnesota Tobacco Trial. *Journal of the American Medical Association* 280(13):1173–1181.
- Hobhouse, Henry
 2003 *Seeds of Wealth: Four Plants That Made Men Rich*. London: Macmillan.
- Institute of Medicine
 2007 *Ending the Tobacco Problem: A Blueprint for the Nation*. Washington, DC: National Academies Press. Electronic document, <http://firstsearch.oclc.org/WebZ/DCARead?standardNoType=1&standardNo=9780309103824:srcdbname=worldcat:fromExternal=true&sessionid=0>, accessed November 17, 2007.
- Jack Guthrie and Associates
 1996a Summary of Activities. May 15. Philip Morris. Electronic document, <http://legacy.library.ucsf.edu/tid/krz42e00>, accessed January 23, 2008.
 1996b Summary of FDA Activities. January 23. Philip Morris. Electronic document, <http://legacy.library.ucsf.edu/tid/zpu53a00>, accessed January 14, 2008.
- Jernigan, David, and Lori Dorfman
 1996 Visualizing America’s Drug Problems: An Ethnographic Content Analysis of Illegal Drug Stories on the Nightly News. *Contemporary Drug Problems* 23(2):169–196.
- Johnson, Ian
 1994 Farmers Besieged by Rise in Imports, Drop in Demand, Corporate Desertion. *The Sun [Baltimore]*. May 29. Electronic document, <http://legacy.library.ucsf.edu/tid/wsg50c00>, accessed February 21, 2008).

- Juhasz, Alexandra, and Jesse Lerner
2006 *F Is for Phony: Fake Documentary and Truth's Undoing*. Minneapolis: University of Minnesota Press.
- Kennard, Margot
1990 Producing Sponsored Films on Menstruation: The Struggle over Meaning. *In The Ideology of Images in Educational Media: Hidden Curriculums in the Classroom*. E. Ellsworth and M. Whatley, eds. Pp. 57–83. New York: Teachers College, Columbia University.
- King, Charles III, and Michael Siegel
1999 Brand-Specific Cigarette Advertising in Magazines in Relation to Youth and Young Adult Readership, 1986–1994. *Nicotine & Tobacco Research* 1(4):331–340.
- Klein, Walter
1976 *The Sponsored Film*. New York: Hastings House.
- Kweyuh, Pamphil
1994 Tobacco Expansive in Kenya: The Socio-Ecological Losses. *Tobacco Control* 3:248–251.
- La Via Campesina
2007 The Small Farmers Movement of Brazil Informs. Electronic document, http://www.viacampesina.org/main_en/index.php?option=com_content&task=view&tid=275&Itemid=40, accessed December 12, 2007.
- Lazar, Michelle
2007 Feminist Critical Discourse Analysis: Articulating a Feminist Discourse Praxis. *Critical Discourse Studies* 4(2):141–164.
- Lee, Kelley
2007 Pushing Tobacco Control Up the Development Agenda. *ID21 Insights Health* 10:4.
- Levin, Donald
2006 Reconstructing Reality: The Industrial Film as Faux Documentary. *In Docufictions: Essays on the Intersection of Documentary and Fictional Filmmaking*. G. D. Rhodes and J. P. Springer, eds. Pp. 88–101. Jefferson, NC: McFarland.
- Liggett and Myers Tobacco Company
1944 Chesterfield Motion Picture. Electronic document, http://tobaccodocuments.org/pollay_ads/Ches10.12.html, accessed December 12, 2007.
- Lindblom, Eric
1999 False Friends: The US Cigarette Companies' Betrayal of the American Tobacco Growers. Electronic document, <http://tobaccofreekids.org/reports/falsefriends/campaign.pdf>, accessed December 1, 2007.
- Loker, William
2004 The Rise and Fall of Flue-Cured Tobacco in the Copan Valley and Its Environmental and Social Consequences. *Human Ecology* 33(3):299–327.
- Lorillard Tobacco Company
1956 A Plant for Tomorrow. 15 min. Electronic document, <http://legacy.library.ucsf.edu/tid/svx99d00>, accessed January 23, 2008.
- Lupton, Deborah
1994 Analysing News Coverage. *In The Fight for Public Health: Principles and Practice of Media Advocacy*. S. Chapman and D. Lupton, eds. Pp. 23–57. London: BMJ.
- Malone, Ruth, and Edith Balbach
2000 Tobacco Industry Documents: Treasure Trove or Quagmire? *Tobacco Control* 9:334–338.
- Martin, A.
2004 USDA's Bias Hurts Blacks. *Chicago Tribune*. August 15. Electronic document, <http://www.blackfarmers.org/archives2.html>, accessed November 21, 2007.
- Martin, Marta, with Mdel C. Quiles, and C. Lopez
2004 Self-Regulation Systems to Control Tobacco Advertising. An Empirical Analysis. *Gaceta Sanitaria* 18(5):366–373.
- Mayes, J.
1974 Memorandum to James Dowdell. November 22. RJ Reynolds. Electronic document, <http://legacy.library.ucsf.edu/tid/uve99d00>, accessed January 23, 2008.
- Muller, Mike
1978 Tobacco and the Third World: Tomorrow's Epidemic? A War on Want Investigation into the Production, Promotion, and Use of Tobacco in Developing Countries. London. Electronic document, <http://bat.library.ucsf.edu/tid/jmc41a99>, accessed December 23, 2007.
- Murphy, Priscella
2001 Framing the Nicotine Debate: A Cultural Approach to Risk. *Health Communication* 13(2):19–40.
- Myers, Mike
2003 Congress Should Protect Tobacco Farmers and Public Health, Not Tobacco Manufacturers [press release], Campaign for Tobacco-Free Kids. Electronic document, <http://tobaccofreekids.org/Script/DisplayPressRelease.php3?Display=670>, accessed January 14, 2008.
- National Smokers' Alliance
1994 Real Lives: Edited with Graphics Clone without Slates. 7 min. Electronic document, <http://legacy.library.ucsf.edu/tid/wbc77c00>, accessed November 28, 2007.
- Otañez, Martin, with Monique Muggli, Richard Hurt, and Stanton Glantz.
2006 Eliminating Child Labour in Malawi: A British American Tobacco Corporate Responsibility Project to Sidestep Tobacco Labour Exploitation. *Tobacco Control* 15(3):224–230.
- Otañez, Martin, with Preeti Patel, Anna Gilmore, and Jeff Collin
2007 Statement to the Public Hearing on Agricultural Diversification and Crop Alternatives to Tobacco, Brasilia, Brazil. Electronic document, www.who.int/tobacco/framework/cop/events/universitycalifornia.pdf, accessed January 21, 2008.

- Patel, Preeti, with Jeff Collin, and Anna Gilmore
2007 The Law Was Actually Drafted by Us But the Government Is to Be Congratulated on Its Wise Actions: British American Tobacco and Public Policy in Kenya. *Tobacco Control* 16(1):e1.
- Perakyla, Anssi
2005 Analyzing Talk and Text. *In* The SAGE Handbook of Qualitative Research. 3rd edition. N. Denzin, ed. Pp. 869–886. Lincoln, NE: Sage.
- Perkins, Daniel
1982 The Sponsored Film: A New Dimension in American Film Research? *Historical Journal of Film, Radio and Television* 2(2):133–140.
- Philip Morris
1979 Tobacco: Seed to Pack. 16 min. Electronic document, <http://legacy.library.ucsf.edu/tid/gzx74e00>, accessed November 21, 2007.
1993 How Cigarettes Are Made. 8 min. Electronic document, <http://legacy.library.ucsf.edu/tid/vfb77e00>, accessed February 1, 2008.
1995 PM USA News Line. January. Philip Morris. Electronic document, <http://legacy.library.ucsf.edu/tid/tzb18d00>, accessed November 21, 2007.
- Poland, Blake
2000 The ‘Considerate’ Smoker in Public Space: The Micro-Politics and Political Economy of ‘Doing the Right Thing.’ *Health & Place* 6(1):1–14.
- Prelinger, Rick
2006 The Field Guide to Sponsored Films. San Francisco, National Film Preservation Foundation. Electronic document, <http://www.filmpreservation.org/projects/sponsored.pdf>, accessed December 4, 2007.
- President’s Commission on Improving Economic Opportunity in Communities Dependent on Tobacco Production While Protecting Public Health
2001 Tobacco at a Crossroad: A Call for Action. Washington, DC: U.S. Department of Agriculture.
- Rajak, Dinah
2006 The *Gift* of CSR: Power and the Pursuit of Responsibility in the Mining Industry. *In* Corporate Citizenship in Africa: Lessons Learned from the Past; Paths to the Future. W. Visser, M. McIntosh, and C. Middleton, eds. Pp. 190–200. Sheffield, UK: Greenleaf.
- Ranzetta, Kirk
2006 The Changing Paradigm of Agricultural Knowledge: The Policy, Memory, and Culture of the Maryland Tobacco Buyout. Ph.D. dissertation, School of Urban Affairs and Public Policy, University of Delaware.
- Reaves, Dixie, and Wayne Purcell
1999 Uncertain Future: As Consumption Declines and Regulations Soar, Will the Tobacco Settlement Help Bail Out Tobacco Growers? *Forum for Applied Research and Public Policy* 143(3):94–100.
- Saloojee, Yussuf, and Elif Dagli
2000 Tobacco Industry Tactics for Resisting Public Policy on Health. *Bulletin of the World Health Organization* 78(7):902–910.
- Schmitt, Natalie, and Jochen Schmitt
2007 Health Risks in Tobacco Farm Workers: A Review of the Literature. *Journal of Public Health* 19:255–264.
- Schroeder, Steven
1993 The Clinton Health Care Plan: Fundamental or Incremental Reform? *Annals of Internal Medicine* 119(9):945–947.
- Shaffer, Ellen, with Joe Brenner, and Tom Houston.
2005 International Trade Agreements: A Threat to Tobacco Control Policy. *Tobacco Control* 14: ii19–ii25.
- Smith, Elizabeth, and Ruth Malone
2003 Thinking the “Unthinkable”: Why Philip Morris Considered Quitting. *Tobacco Control* 12(2):208–213.
- Solbrig, Heide
2004 Film and Function: A History of Industrial Motivation Film. Ph.D. dissertation, Department of Communication, University of California, San Diego.
- Spangler, John G., Thomas A. Arcury, Sara A. Quandt, and John S. Preisser
2003 Tobacco Use Among Mexican Farmworkers Working in Tobacco: Implications for Agromedicine. *Journal of Agromedicine* 9(1):83–91.
- Stauber, John, and Sheldon Rampton
2004 Toxic Sludge Is Good for You: Lies, Damn Lies and the Public Relations Industry. London: Robinson.
- Stebbins, Kenyon
1994 Making a Killing South of the Border: Transnational Cigarette Companies in Mexico and Guatemala. *Social Science and Medicine* 38(1):105–115.
- Stull, Donald
2000 Tobacco Barns and Chicken Houses: Agricultural Transformation in Western Kentucky. *Human Organization* 59(2):151–161.
2005 Up in Smoke: The End of the Federal Tobacco Program and What It Means for Kentucky Tobacco Farmers. *KU Anthropology, University of Kansas newsletter*, 16:1–2, 4. Electronic document, <http://www2.ku.edu/~kuanth/news/newsletter/KU%20Anthropologist16.pdf>, accessed January 19, 2008.
- Sturken, Martia, and Lisa Cartwright
2003 Practices of Looking: An Introduction to Visual Culture. Oxford: Oxford University Press.
- Symes, Sally
1991 Note from Sally Symes to Viroj Regarding Video “A Taste for Tobacco”. September 4. *British American Tobacco*. Electronic document, <http://bat.library.ucsf.edu/tid/wqp87a99>, accessed December 1, 2007.
- Tiderock Corporation
1969 A Film Program for the Tobacco Institute. Electronic document, <http://legacy.library.ucsf.edu/tid/rdh30c00>, accessed November 3, 2007.

- Tobacco Institute
- 1972 The Need to Know. 31 min. Electronic document, <http://legacy.library.ucsf.edu/tid/top91f00>, accessed December 5, 2007.
- 1974 Leaf. 15 min. Electronic document, <http://legacy.library.ucsf.edu/tid/mxp91f00>, accessed December 5, 2007.
- 1982 "Leaf": A Tobacco Institute Film. Electronic document, <http://legacy.library.ucsf.edu/tid/gqq22f00>, accessed December 11, 2007.
- 1983 Spokesman Tape Tobacco Institute. 15 min. Electronic document, <http://legacy.library.ucsf.edu/tid/itp91f00>, accessed December 5, 2007.
- 1984 Untitled. August 18. Electronic document, <http://legacy.library.ucsf.edu/tid/pwq22f00>, accessed December 5, 2007.
- van Willigen, John
- 1998 Tobacco Culture: Farming in Kentucky's Burley Belt. Lexington: University Press of Kentucky.
- Verband der Cigarettenindustrie
- 1979 Gringo Amigo. 12 min. Germany: Verband der Cigarettenindustrie.
- Warner, Kenneth
- 1985 Cigarette Advertising and Media Coverage of Smoking and Health. *New England Journal of Medicine* 312(6):384-388.
- 1987 Health and Economic Implications of a Tobacco-Free Society. *Journal of the American Medical Association* 258(15):2080-2086.
- 2000 The Economics of Tobacco: Myths and Realities. *Tobacco Control* 9(1):78-89.
- Warner, Kenneth, with George Fulton, P. Nicholas, and D. Grimes.
- 1996 Employment Implications of Declining Tobacco Product Sales for the Regional Economies of the United States. *Journal of the American Medical Association* 275(16):1241-1246.
- Warren, Jim
- 2002 Farmers Kicking Tobacco Habit: Success of Alternative Crops Eases Burley's Hold on Region. *Lexington Herald-Leader*. Kentucky. Electronic document, http://kytobaccotrust.state.ky.us/Documents/news_020729_LHL_Alternatives2Tobacco.shtml, accessed November 23, 2007.
- Whist, Andrew
- 1974 Confidential Memo to Alexander Holtzman. July 10. Philip Morris. Electronic document, <http://legacy.library.ucsf.edu/tid/gup87e00>, accessed January 9, 2008.
- Wodak, Ruth
- 2004 Critical Discourse Analysis. *In Qualitative Research Practice*. C. Seale, G. Gobo, J. Gubrium, and D. Silverman, eds. Pp. 197-213. Thousand Oaks, CA: Sage.
- World Health Organization
- 1979 Controlling the Smoking Epidemic. Report of the WHO Expert Committee on Smoking Control. Electronic document, <http://tobaccodocuments.org/lor/03732167-2211.html>, accessed December 19, 2007.
- 2004 Tobacco and Poverty: A Vicious Cycle. Electronic document, http://www.who.int/tobacco/communications/events/wntd/2004/en/wntd2004_brochure_en.pdf, accessed January 11, 2008.
- Yach, Derek, and David Bettcher
- 2000 Globalisation of Tobacco Industry Influence and New Global Responses. *Tobacco Control* 9(2):206-216.