American Medical Association, and SmokeLess

Index

A

"accommodation" campaigns, 234, 239 advertising, tobacco. See tobacco advertising advocacy media (See media advocacy) in public health, 189-190, 340 African Americans in ASSIST population, 329 smoking prevalence rates, 147-148 and life expectancy gains after smoking cessation, 318-320 and smoking prevalence rates, 146, 276, 277t, 285tand timing of quit, 322 Agency for Health Care Policy and Research, smoking cessation guidelines, costeffectiveness of, 316, 323 agenda usurping, by tobacco industry, 227, 228t, 243-244 concept map rating, 221t Alabama, tobacco manufacturing in, 171 clean indoor air legislative score, 123 IOI values, 130 real cigarette prices, 120 American Cancer Society (ACS) and ASSIST, 8 and SmokeLess States, 10 SoTC data collection, 40 work for tobacco control, 152 American Economics Group, economic impact study (1996) by, 171-172 American Heart Association and SmokeLess States, 10 SoTC data collection, 40 work for tobacco control, 152 American Lung Association SLATI database, 104 and SmokeLess States, 10 SoTC data collection, 40 work for tobacco control, 152

States, 9 American Nonsmokers' Rights Foundation (ANRF), local ordinance data from, 90, 91, 97-98, 99, 105 American Public Health Association, on state preemption laws, 91 American Stop Smoking Intervention Study for Cancer Prevention. See ASSIST (American Stop Smoking Intervention Study for Cancer Prevention) Anchorage, Alaska, 238 ANRF. See American Nonsmokers' Rights Foundation (ANRF) anti-public health index, 256 Arizona, tobacco control efforts in, 153, 155 Arkansas, smoke-free workplace reports in, 126 ASSIST (American Stop Smoking Intervention Study for Cancer Prevention) about, 3n, 4, 26, 269, 328 aims of, 4, 14, 26, 269, 328 COMMIT compared to, 7-8, 12t, 13 components, diffusion to non-ASSIST states, 10, 13, 22, 334–335 end of, 11 evaluation of (See ASSIST evaluation) expenditure data on, 310–312, 311t, 312t, 315-316 funding of, 8-9 history of, 8-9 media interventions in, 188, 189, 190, 198, 203 policy areas addressed by, 90, 119-120, 269 population reached by, 308 scientific framework of, 7-8 SmokeLess States compared to, 10 societal change as objective of, 14, 328 states involved in (See ASSIST states) tobacco industry counterefforts aimed at, 22, 215-216, 291 industry documents on, 236, 239-240, 242, 244, 246–250 ASSIST: Shaping the Future of Tobacco Prevention and Control (Tobacco Control Monograph 16), 9, 11

Note: Page numbers with t indicate tables; page numbers with f indicate figures; and page numbers with n indicate footnotes.

A C C I C T C - 1:4: A 1 (17	
ASSIST Coalition Assessment, 16–17	ecological/systems model in, 4–5, 14, 16,
ASSIST Coordinating Center, 10	330–331, 340 evalution of 16, 17
and ASSIST Newspaper Tracking System,	evolution of, 16–17
189–193, 196	indices, 53–54, 272, 330
ASSIST evaluation, 3–26, 328	key constructs, 17–20
of capacity, 14, 331-332, 333	key principles, 14–16
and complex program evaluation, 11, 338-339	model diagnostics, 273
conceptual framework, 15–21, 18f, 26, 329	one-tailed statistical tests, 272
assumptions of, 16, 272	outcome measures, 5, 14–16, 19t, 20–21, 25t
evolution of, 16–17, 23–24, 24f	preliminary analyses, 272–273
key constructs, 17–20, 19t, 23–24, 24f, 25t	research questions, 21, 21t, 271
as legacy, 335	societal change in, 14
variables in, 19t, 23, 25t	units of selection, 272
contributions/lessons of, 26, 328-341	of societal change, 14, 338–339
ASSIST Newspaper Tracking System,	of state-level conditions affecting tobacco
201–202	control (See economic dependence on
conclusions, 340–341	tobacco; state conditions)
for media intervention evaluation, 190, 202	of strength of intervention (See Strength of
for public health intervention evaluation,	Tobacco Control (SoTC) index)
338–339	summary and conclusions, 24–26
for state tobacco control intervention	timeline, 18f
evaluation, 15–16, 291–292, 335	of tobacco industry counterefforts and tactics
summary, 339–340	(See tobacco industry counterefforts and tactics)
for tobacco control intervention evaluation,	ASSIST Newspaper Tracking System. See
55, 137, 155–156, 334–336	Newspaper Tracking System, ASSIST
	ASSIST states
of cost-effectiveness (<i>See</i> cost-effectiveness of ASSIST)	compared to non-ASSIST states (See ASSIST
*	states versus non-ASSIST states)
ecological approach to, 4–5, 14, 16, 330 of economic dependence on tobacco (<i>See</i>	expenditure data, 310–311, 311 <i>t</i> , 315
economic dependence on tobacco (see	funding for tobacco control, 153–155, 154 <i>t</i>
Expert Panel, 17, 97, 99	selection of, 23
of final outcomes (<i>See</i> final outcomes)	tobacco-growing/manufacturing, 150
funding levels, 15	ASSIST states versus non-ASSIST states
historical context, 5–13	cigarette prices, real, 121 <i>t</i>
indices in, 53–54, 272, 330 (See also specific	clean indoor air ratings (legislative scores), 92,
indices)	103, 103 <i>t</i> , 124 <i>t</i> , 130
of initial outcomes (<i>See</i> initial outcomes; Initial	demographic factors, baseline, 270 <i>t</i>
Outcomes Index (IOI))	final outcomes, 269–270, 292
key findings of, 330–332	funding for tobacco control, 154t, 155
legacy of, 334–336	initial outcomes, 136
of legislative changes (See legislative changes,	IOI scores, 130, 131 <i>t</i> , 283, 284 <i>f</i> , 342 <i>t</i> –343 <i>t</i>
measurement of)	after diffusion of ASSIST practices, 335
of media interventions (See Newspaper	newspaper coverage of tobacco policy, 199 <i>t</i> ,
Tracking System, ASSIST)	199–200
methodological approach, 4–5, 13–24	per capita cigarette consumption, 278f, 279,
analytic challenges, 21–23, 26	280f, 281t, 289–290, 292, 301t
capacity measurement in, 14	baseline, 270, 270 <i>t</i>
data collection timeline, 17, 18f	and IOI changes, 287–289, 289t, 290
data confection unicinie, 17, 10j	and SoTC scores, 287, 287t

smoke-free workplace reports, 127 <i>t</i> smoking prevalence, adult, 270, 275–276, 289,	C
292, 301 <i>t</i>	California
and age, 276, 277 <i>t</i>	analytic treatment of, 273, 276
baseline, 23, 270, 270 <i>t</i>	clean indoor air legislative score, 123
sex differences, 276, 277 <i>t</i> , 289	and IMPACT, 9
by state, 342 <i>t</i> –343 <i>t</i>	per capita cigarette consumption, 290
smoking prevalence reduction, 331, 332	smoking prevalence trends, 51
projection to U.S. population, 291, 292, 332	in youth, 146–147
SoTC scores, 44, 45 <i>t</i> , 283, 290, 342 <i>t</i> –343 <i>t</i>	tobacco control in, 136
and per capita cigarette consumption, 287,	cigarette/tobacco tax, 10, 153
287 <i>t</i>	funding of, 51, 153
state conditions baseline, 270t	local smoke-free policies, 152
tobacco as share of GSP, 177t	timing of outcomes, 20
tobacco industry counterefforts in, 291	Campaign for Tobacco-Free Kids, 104, 136
attitudes. See public opinion; views and attitudes	cancer control research phases, 7 <i>f</i>
1 1	capacity
	definitions and components of, 14, 333
	for tobacco control, ASSIST evaluation and
В	findings, 14, 331–332, 333
	capacity (SoTC component), 20, 35
"balanced scorecard" performance measures,	definitions, 34, 35, 36, 39
42–43	scores, 45 <i>t</i> , 47 <i>f</i>
Behavioral Risk Factor Surveillance System	correlations, 48, 48 <i>t</i>
(BRFSS), 16, 21	domain-level, 49–51, 50 <i>t</i> , 53
benchmark systems	variables measuring, 35–36, 56 <i>t</i> , 58 <i>t</i> –59 <i>t</i>
for cost-effectiveness evaluation, 308	Capilouto, E. I.
for rating state tobacco control laws, 91–92	on political ideology and tobacco control,
Bero, L., work on tobacco industry counterefforts	152–153
to ASSIST, 215–216, 236, 255, 291	on state spending on tobacco control, 153
Beverly Hills, California, 238	on tobacco-growing states, 148
Bialous, Stella Aguinaga	cardiovascular disease prevention, 338
on tobacco industry counterefforts and tactics,	case studies
213	of media interventions, 200, 201
Bonate, P. L., 293	of tobacco industry counterefforts and tactics,
Boston, Massachusetts, 239	230–233
Boucher, Rick, 248	CDC. See Centers for Disease Control and
Boyle, R. G.	Prevention (CDC)
on political ideology and tobacco control,	Census of Agriculture, 166
152–153	Census of Manufacturers, 170
on state spending on tobacco control, 153	Center for Indoor Air Research, 250
on tobacco-growing states, 148	Center for Tobacco Policy Research, 337
BRFSS. See Behavioral Risk Factor Surveillance	Centers for Disease Control and Prevention
System (BRFSS)	(CDC)
Briant, Tom, 249	best practices, 14
Brownson, Ross C.	BRFSS, 16
on policy and legislative changes, 87	IMPACT, 9–10, 41, 136–137
Brown & Williamson, tobacco control	NTCP, 11
counterefforts by, 238, 246	Office on Smoking and Health 335

in SoTC data collection, 39, 41	rating methods, 93–99
STATE database, 104	limitations of, 96–97 local laws, 97–99
Syndemics initiative, 7	
Chaloupka, Frank J.	state laws, 93–96
on economic impact of tobacco, 163	rating results (<i>See</i> clean indoor air ratings) state laws (<i>See</i> state clean indoor air laws)
on political activism and tobacco control, 153	in tobacco-growing/producing states, 148, 166
on tobacco control spending, 153	workplace (<i>See entries under</i> smoke-free
on tobacco-growing/producing states, 148, 166	workplace (see entries under smoke-nee workplace)
Chase Econometrics study (1985), 172	
Chriqui, Jamie	clean indoor air ratings (legislative scores), 92,
on policy and legislative changes, 87	100, 102–103, 103 <i>t</i> , 122–123, 124 <i>t</i>
on political ideology and tobacco control, 153	changes in, 100–102, 101 <i>t</i> , 102 <i>f</i>
cigarette(s)	ASSIST <i>versus</i> non-ASSIST states, 92, 103, 103 <i>t</i> , 124 <i>t</i> , 130
exports, 168, 169f	methods, 93–99
imports, 167	limitations of, 96–97
sales data, 115	local laws, 97–99
cigarette consumption	state laws, 97–99
per capita (See per capita cigarette	and per capita cigarette consumption, 123,
consumption)	126 <i>f</i> , 133 <i>t</i>
U.S., decline in, 167, 169 <i>f</i>	and smoking prevalence, adult, 123, 125 <i>f</i> , 133 <i>t</i> ,
cigarette excise tax, 10	285–286
and cigarette prices, 120	and SoTC scores, 44, 48t
and Master Settlement Agreement payments, 171	by state, 122–123, 124 <i>t</i>
newspaper coverage of, 197f, 198	state+local results, 102–103, 103 <i>t</i> , 124 <i>t</i>
proliferation of, 153	cluster analysis, in concept mapping, 219, 220,
in tobacco-growing/producing states, 148, 166	223f, 224f
cigarette prices, real, 120–122	coalition assessment measure, 16–17
as ASSIST policy priority, 119–120	Coalition on Smoking OR Health, and SoTC data
definition and determinants of, 120	collection, 40
and economic impact of tobacco	coalitions
manufacturing, 176	
and final outcomes, 130, 133t	protobacco, tobacco industry documents on, 245–246
as initial outcome measure, 118, 120	tobacco control (<i>See</i> tobacco control coalitions)
and per capita cigarette consumption, 120, 122,	
123 <i>f</i> , 130, 133 <i>t</i> , 137–138, 287, 288 <i>t</i> , 290, 292	Cochrane Collaboration, 15
and smoking prevalence, adult, 120, 122 <i>f</i> ,	Cohen, Bernard, 189
285–286	Colorado
by state, 120, 121 <i>t</i>	per capita cigarette consumption, 297f
cigarette production, 170. See also tobacco	tobacco control funding, 338
manufacturing	tobacco industry media plan for, 252-253
U.S., decline in, 167, 169 <i>f</i>	Columbus, Christopher, 165
cigarette smoking. See entries under smoking	COMMIT (Community Intervention Trial for
Clark, Pamela I.	Smoking Cessation), 6
on Strength of Tobacco Control (SoTC) index, 31	ASSIST compared to, 7–8, 12 <i>t</i> , 13
clean indoor air laws	evaluation methodology, 13
in California, 152	
local ordinances, 90, 91, 152	community
rating system, 90, 92, 97–99	interventions based on, 6
state+local results, 102–103, 103 <i>t</i> , 124 <i>t</i>	religious, and smoking behavior, 151–152
newspaper coverage of, 196, 197f, 198	and view of tobacco use, 144

Community Intervention Trial for Smoking Cessation. See COMMIT	and cost-effectiveness, 314 <i>t</i> , 315 long-term impact of, 316, 321
competing factors, 22–23, 291–292	and timing issues, 322
complexity, as evaluation challenge, 11, 338–339	covariates
concept mapping, 330	in ASSIST evaluation, 145–146
methods of, 217	for smoking prevalence, 23
reliability of, 220	CPS. See Current Population Survey (CPS)
in SoTC index validation, 85, 85f, 330	Cromwell, J., on cost per life-year gained, 320, 323
of tobacco industry counterefforts and tactics	Cullen, Joseph, cancer control phases of, 7 <i>f</i>
(See tobacco industry counterefforts and	
tactics, concept mapping)	culture, and smoking behavior, 148, 151, 152
conceptual framework, of ASSIST evaluation,	Current Population Survey (CPS), 114, 149
15–21, 18 <i>f</i> , 26, 329, 335	Tobacco Use Supplement to (TUS) (See
assumptions of, 16, 272	Tobacco Use Supplement to the Current
evolution of, 16–17, 23–24, 24 <i>f</i>	Population Survey (TUS-CPS))
key constructs, 17–20, 19 <i>t</i> , 23–24, 24 <i>f</i> , 25 <i>t</i>	
variables in, 19 <i>t</i> , 23, 25 <i>t</i>	n
Connecticut	D
economic importance of tobacco in, 168	Dagli, E., 216
smoke-free workplace law in, 153	D'Agostino, R. B., 318
tobacco industry counterefforts in, 241	databases, for tobacco control evaluation, need
	for, 337
core sector (tobacco industry), 171, 172, 174	data collection
cost(s), total, calculation of, 308	for ASSIST evaluation, timeline of, 17, 18 <i>f</i>
cost-effectiveness analysis, 308–310	for ASSIST evaluation, timeline of, 17, 18j
of ASSIST (See cost-effectiveness of ASSIST,	demographic data, 149
analysis of)	for future tobacco control research efforts and
example of, 309	evaluations, 336–337
sensitivity analysis in, 310	standardized, for outcomes, 118
cost-effectiveness of ASSIST	data sources
analysis of, 307–323	for ASSIST evaluation, 21–22
data sources, 310–312, 323	on cost-effectiveness of ASSIST, 310–312, 323
discounting in, 309–310	on local tobacco control laws, 90, 91, 97–98,
flaws in, 321–322	99, 105
outcome measures, 308	on per capita cigarette consumption, 115
sensitivity analysis in, 310, 313 <i>t</i> , 314 <i>t</i> , 315	on smoking prevalence, 114–115, 149–150
compared to other programs, 316, 322–323	on state tobacco control laws, 90, 91, 104–105
estimates of, 321 key findings on, 332	on tobacco manufacturing, 174–175
and life-years gained after smoking cessation,	Davis, William
317–321	on final outcomes, 265
and recidivism rates, 313 <i>t</i> , 315, 320–322	Daynard, R. A., 216
and smoking prevalence rate changes, 314 <i>t</i> ,	Delaware
315, 316–317	
and tobacco control establishment, 321	adult smoking prevalence changes, 276
	smoke-free workplace law, 153 tobacco control funding, 338
cost per life-year gained, 307, 321	_
cost per person, of tobacco use prevention, 308,	demographic factors, 22, 146t, 146–148, 155. See
316, 323	also age; sex differences; state conditions baseline, in ASSIST states versus non-ASSIST
cost per quit, 307	states, 270 <i>t</i>
ASSIST, 315–316, 321, 323 compared to other programs, 316, 322–323	data sources, 149–150
compared to other programs, 510, 522–525	

diffusion, 334	tobacco growing and, 166-170, 173-174
of ASSIST practices to non-ASSIST states, 10,	tobacco industry claims about, 148–149,
13, 22, 334–335	171–174
discounting	tobacco manufacturing and, 170–171
in ASSIST cost evaluation, 309–310, 314–316	and views on tobacco use, 148
and future life-years gained, 318–319	economic impact studies, 148–149, 171–174
of ASSIST expenditure data, 312, 314–315	non–tobacco-industry-sponsored, 148–149,
in cost-effectiveness analysis, 309–310	172–174
discount rate, calculation of, 309	tobacco-industry-sponsored, 148–149, 171–174
disease risk, smoking-related, after smoking	economic intimidation, by tobacco industry, 227,
cessation, 317–318	228t, 240–242
disempowerment, by protobacco groups, 227	concept map rating of, 221t
District of Columbia	economic sectors, impact of tobacco in, 171–172
analytic treatment of, 272–273	editorials, on tobacco control policy
and smoking prevalence analysis, 276, 285-	case study, 200, 201
286, 291	trend analysis, 198
document review, of tobacco industry	educational attainment, and smoking prevalence,
counterefforts, 236-254, 255-257	146, 148
lessons from, 254	education-based interventions, 5
methods of, 236–237	initial outcomes of, 117–118
results of, 237–254	efforts (SoTC component), 20, 35
"dose measure" performance measures, 42–43	definitions, 34, 35, 39
	scores, 45t, 47f, 52t
_	correlations, 44, 48 <i>t</i>
E	domain-level, 51–53, 52 <i>t</i>
1 1 1 1 1 4 5 14 16 222 242	variables measuring, 35–36, 56t, 60t
ecological model, 4–5, 14, 16, 330, 340	elite press, 190
economic dependence on tobacco, 22, 148–149,	employment
155, 165–182	impact of tobacco control on, 148-149, 172-
as ASSIST evaluation measure, 146, 150, 166,	173, 182
174–175, 182	in tobacco growing, 175
data sources, 174–175	in tobacco manufacturing, 150, 170, 171
tobacco growing and manufacturing	empowerment, of protobacco groups, 227
(combined), 175 conclusions, 182	Environmental Protection Agency, report on
data results, 150, 175–176, 181	health consequences of involuntary smoking
tobacco as share of GDP, 176, 178 <i>f</i>	(1993), 90
tobacco as share of GSP, 176, 176, 176, tobacco as share of GSP, 175–181, 176 <i>f</i> ,	environmental tobacco smoke (ETS), health risks
177 <i>t</i> , 178 <i>f</i> –181 <i>f</i>	of, 90, 117–118, 250–251
impact on tobacco control policies, 148, 155,	evaluation methodology
165–166, 171, 182	in ASSIST evaluation (See ASSIST evaluation,
cigarette excise taxes, 148	methodological approach)
clean indoor air laws (smoking restrictions),	systems methods in, 330–331, 339
148	Evans, W. Douglas
studies of, 148–149, 171–174	on ASSIST Newspaper Tracking System, 185
non-tobacco-industry-sponsored, 148–149,	evidence-based approaches, 13
172–174	excise tax. See cigarette excise tax
tobacco-industry-sponsored, 148-149,	expenditure data, on ASSIST, 310–312, 311 <i>t</i> , 312 <i>t</i>
171–174	and cost-effectiveness analysis, 315–316
summary, 181–182	discounted, 312, 314–315

expenditure-induced sector, 172	Fulton, G. A., on economic impact of tobacco,
expert panel	148–149, 172–173
in ASSIST evaluation, 17, 97, 99	funding
concept map interpretation by, 219, 220, 225f	for ASSIST, 8–9
	for ASSIST evaluation, 15
	for state tobacco control programs, 49–51, 50t
F	in ASSIST <i>versus</i> non-ASSIST states, 154 <i>t</i> ,
•	155
family, and smoking behavior, 144, 151, 152	and capacity, 14, 333
FDA. See Food and Drug Administration (FDA)	changes in, 51 <i>f</i> , 153–155, 154 <i>t</i>
feasibility	future of, 337–338
of ASSIST evaluation analytic methods,	0
272–273	G
of SoTC index variables, 35, 36, 56	Gale, H. F., Jr., 170
federal law, on youth access to tobacco, 90–91	
Federal Trade Commission, cigarette sales data	GDP. See gross domestic product (GDP)
reported to, 115	genetics, 151
final outcomes, 14, 20, 116, 269–292. See also	geography, 146, 148
per capita cigarette consumption; smoking	Georgia
prevalence	adult smoking prevalence changes, 276
analytic considerations, 272–273	cigarette excise tax, 148, 166
in ASSIST <i>versus</i> non-ASSIST states, 269–	economic importance of tobacco in, 168, 171 tobacco as share of GSP, 176, 180 <i>f</i> , 181
270, 292	Gibson, James T.
attribution link with initial and intermediate	on final outcomes, 265
outcomes, 113, 116–118, 118–119	Ť
conclusions, 292 correlations with initial outcomes, 130, 133 <i>t</i>	Gilpin, Elizabeth A. on final outcomes, 265
IOI, 130–133, 136, 290, 292	on Initial Outcomes Index (IOI), 111
correlations with SoTC, 290–291, 292	on smoking recidivism, 320
funding and, 49–51	on state conditions affecting tobacco control, 141
results, 275–276, 279–291, 292	Glantz, Stanton A., on tobacco industry policy-
summary, 289–292	related activity, 234–235
Finland, 6	Global Tobacco Research Network, 7
Florida	grassroots campaigns, led by tobacco industry,
economic importance of tobacco in, 168, 171	245–247
tobacco control funding in, 51	Graubard, Barry I.
Food and Drug Administration (FDA), tobacco	on cost-effectiveness of ASSIST, 305
regulation attempts by, 91, 241–242, 291	on final outcomes, 265
Fox, Brion J.	Greenwald, Peter
on tobacco industry counterefforts and tactics,	cancer control phases, 7f
213	on lobbying through ASSIST, 248
Freedom of Information Act (FOIA) requests, by	Grimes, D. R., 173
tobacco industry, 227–229, 249–250	gross domestic product (GDP), tobacco as share
front groups, tobacco industry funding of, 245–247	of, 176, 178f
Frosh, Marcy	gross state domestic product (GSP), tobacco as
on policy and legislative changes, 87	share of, 175–176, 176 <i>f</i> , 177 <i>t</i>
	· · · · · · · · · · · · · · · · · · ·

H	Indiana
	adult smoking prevalence changes in, 276
harassment, by tobacco industry, 227–229, 228 <i>t</i> ,	economic importance of tobacco in, 168
247–250	individual(s)
concept map rating of, 222t	conditions affecting tobacco control
Hartman, Anne M. on cost-effectiveness of ASSIST, 305	interventions, 143
·	interventions based on, 5–6
on final outcomes, 265 on Initial Outcomes Index (IOI), 111	political participation by, 166
on state conditions affecting tobacco control, 141	smoking behavior of, factors affecting, 144 <i>f</i> ,
Hatch, Orrin, 249	144–148, 151–152
	adjusting smoking prevalence data for,
Hawaii, real cigarette prices in, 120	293–295
health promotion, and media, 189–190	individual-level covariates, 143, 274, 275t
health risks	adjustment for, 293–295
of ETS, 90, 117–118, 250–251	inflation, adjustment for, 312, 315
smoking-related, after smoking cessation, 317–318	initial outcomes, 14, 20, 116–119, 135. See also
	intermediate outcomes
Healthy People 2010, 336	for ASSIST evaluation, 119–126, 135–136 (See
Hispanics	also cigarette prices, real; clean indoor air
in ASSIST population, 329 and per capita cigarette consumption rates, 150	ratings (legislative scores); Initial Outcomes
smoking prevalence rates, 147	Index (IOI); smoke-free workplace reports
homes, smoke-free, 117–118	(measure))
hospitality industry, 243	in ASSIST <i>versus</i> non-ASSIST states, 136
nospitanty industry, 243	correlations among, 129, 129 <i>t</i>
I and the second se	correlations with final outcomes, 130, 133 <i>t</i>
I	lessons for tobacco control program
Ierulli, Kathryn	evaluation, 137
on economic impact of tobacco, 163	limitations of, 136
Illinois, tobacco manufacturing in, 171	attribution link with final outcomes, 113,
IMPACT (Initiatives to Mobilize for the	118–119
Prevention and Control of Tobacco), 9–10,	attribution link with intervention, 116–118
136–137, 137	definition of, 135
in SoTC data collection, 41	examples of, 117
ImpacTeen, 105, 337	_
income, impact of tobacco control on, 173–174	need for, 113–114, 135
index (indices)	selection criteria, 118–119, 135–136
anti-public health, 256	summary, 135–137
in ASSIST evaluation, rationale for, 53–54,	youth access law enforcement as, 117, 137
272, 330	Initial Outcomes Index (IOI), 14, 17, 113, 114,
of clean indoor air law strength (See clean	129–138, 131 <i>t</i> , 145
indoor air ratings (legislative scores))	in ASSIST versus non-ASSIST states, 130,
of initial outcomes (See Initial Outcomes Index	131 <i>t</i> , 283, 284 <i>f</i>
(IOI))	diffusion of ASSIST practices and, 335
of strength of tobacco control policies (See	and per capita cigarette consumption, 287–
Strength of Tobacco Control (SoTC) index)	289, 289 <i>t</i> , 290
of tobacco industry tactics, 215-216, 223, 233,	changes in
234–235, 254–255	in ASSIST <i>versus</i> non-ASSIST states, 283,
challenges of, 254–257	284 <i>f</i> , 287–289, 289 <i>t</i> , 290, 335

and per capita cigarette consumption, 130,	K
133, 133 <i>t</i> , 134 <i>f</i> , 287–289, 289 <i>t</i> , 290	Vantualty
and smoking prevalence, adult, 130, 133, 133 <i>t</i> , 134 <i>f</i>	Kentucky cigarette excise tax, 148, 166
component measures (<i>See</i> cigarette prices, real;	clean indoor air legislative score, 123
clean indoor air ratings (legislative scores);	economic importance of tobacco in, 168
smoke-free workplace reports (measure))	manufacturing, 170–171
construction of, 129–130	tobacco as share of GSP, 176, 179 <i>f</i> , 181
correlations among initial outcomes, 129,	IOI values, 130
129 <i>t</i>	real cigarette prices, 120
data collection timing, 17, 18f	smoke-free workplace reports, 126
correlations with final outcomes, 130–133, 136,	The state of the s
279–289, 291, 292	1
correlations with per capita cigarette	L
consumption, 130, 133t, 287–289, 288t	laws, tobacco control. See tobacco control laws
analytical method, 282	lawsuits
at baseline, 130, 132 <i>f</i>	Master Settlement Agreement (1998), 11, 145,
and changes in IOI, 130, 133, 133 <i>t</i> , 134 <i>f</i> ,	171, 236
287–289, 289t, 290	against tobacco industry, 11
trends in states grouped by IOI, 133, 135f	by tobacco industry, 234, 242
correlations with smoking prevalence, adult,	legal intimidation, by tobacco industry, 227–229,
130, 133 <i>t</i> , 284–286, 285 <i>t</i> , 290	228t, 240–242
analytical method, 281	concept map rating of, 221t
at baseline, 130, 132 <i>f</i>	legislative changes, measurement of, 89–106
and changes in IOI, 130, 133, 133 <i>t</i> , 134 <i>f</i>	conclusions, 105–106
correlation with SoTC, 281, 282 <i>t</i> , 283, 290	importance of, 91–92, 104
for District of Columbia, 273	rating methods, 93–99
newspaper coverage measurement and, 199	limitations of, 96–97 local laws, 97–99
rationale for, 114, 129, 136, 330	state laws, 97–99
by state, 130, 131 <i>t</i> , 342 <i>t</i> –343 <i>t</i>	rating results, 100–103, 105, 106
initiative campaigns, 234	clean indoor air laws, 100–103, 101 <i>t</i> , 102 <i>f</i> ,
~ ~	103t
Initiative for the Study and Implementation of Systems (ISIS), 7, 330	state+local, 100–103
-	youth access laws, 100, 100t, 101f
Initiatives to Mobilize for the Prevention and Control of Tobacco. <i>See</i> IMPACT (Initiatives	summary, 104–105
to Mobilize for the Prevention and Control of	tool for, 89, 91–99, 105, 106
Tobacco)	legislative scores. See clean indoor air ratings
	(legislative scores)
intermediate outcomes, 14, 20, 116–118. See also	legislative strategies. See also lobbying
initial outcomes	of tobacco industry, 226t, 226-227, 234,
IOI. See Initial Outcomes Index (IOI)	238–240
Iowa, clean indoor air legislative score for, 123	concept map rating of, 221t
	Liang, Lan
	on economic impact of tobacco, 163
J	life-years gained after smoking cessation
I-ff Th 4	and age of quit, 319–320
Jefferson, Thomas, 4	attributable to ASSIST, 313t, 315, 320–321, 323
jurisdiction, and local ordinances, 99	and cost-effectiveness of ASSIST, 317–321

cost per, 307, 321	Master Settlement Agreement (1998), 11, 145,
discounting for, 318–319	171, 236
and sex, 319–320	MAV. See media advocacy variable (MAV)
limited number of observations, 23, 330	McConnell, M., 249
Linton, R., 217	McKinlay, John B., 328, 331, 339
literature review, of tobacco industry	media advocacy, 188, 189–190
counterefforts, 224–233, 255	scores (SoTC variable), 52t
case studies, 230–233	uses of, 53
limitations of, 233	media advocacy variable (MAV), 195
methods for, 225–226	media coverage. See also newspaper coverage;
results of, 226–230	Newspaper Tracking System, ASSIST
lobbying	influence of, 189, 190
through ASSIST, prohibition of, 10, 248–249	as initial outcome, 117
by tobacco industry, 171, 226 <i>t</i> , 226–227, 234,	media interventions
238–240	ASSIST, 188, 189, 190, 198, 203
concept map rating of, 221t	evaluation of (See Newspaper Tracking
local tobacco control ordinances	System, ASSIST)
changes in, measurement of, 90, 91–92	awareness from, as initial outcome, 117, 119
clean indoor air, 90, 91, 152	evaluation of, 189–190, 200
rating system, 90, 92, 97–99	media manipulation, by tobacco industry, 229–
state+local results, 102–103, 103 <i>t</i> , 124 <i>t</i>	230, 231 <i>t</i> , 251–253
data sources, 90, 91, 97–98, 99, 105	concept map rating of, 222t
state preemption of (<i>See</i> state preemption laws) tobacco industry counterefforts to, 152, 232 <i>t</i> , 238	MEDLINE database, 225
on youth access to tobacco, 90, 91	methodology(ies)
logic model, in SoTC, 331	of ASSIST evaluation (See ASSIST evaluation,
	methodological approach)
Lorillard, 240	evaluation, systems methods in, 330–331, 339
lung capacity, and smoking cessation, 318	of future tobacco control efforts, 336–337
	Michigan
M	economic impact of tobacco in, 172–173
III	efforts scores (SoTC), 153
Maine	Minnesota
adult smoking prevalence changes in, 276	real cigarette prices, 120
tobacco control efforts in, 153, 338	tobacco control funding, 51
tobacco industry counterefforts in, 247	tobacco industry counterefforts in, 244, 246,
Manley, M. W., 290, 298	250, 251–252
Marceau, Lisa D., 328, 331, 339	tobacco settlement, 236
Marcus, Stephen E.	Minnesota Coalition of Responsible Retailers, 244
on Strength of Tobacco Control (SoTC) index, 31	Minnesota Grocers Association, 250
Martin, D. C., 294	Minnesota Wholesale Marketers Association,
Maryland	Inc., 250
clean indoor air legislative score, 93, 97, 123	"The Minutemen Project," 246
economic importance of tobacco in, 168	Mississippi
efforts scores (SoTC), 153	clean indoor air legislative score, 123
tobacco industry counterefforts in, 241	lawsuit against tobacco industry, 11
Massachusetts	tobacco control funding, 51, 338
economic importance of tobacco in, 168	Missouri, economic importance of tobacco in, 168
tobacco control efforts in, 10, 51, 153	monitoring, of tobacco control laws
tobacco industry counterefforts in, 239, 242	data sources, 104–105

importance of, 91–92, 104	Newspaper Tracking System, ASSIST, 187–204
measures, for future efforts, 336-337	article coding, 192–193
Montana, smoke-free workplace law in, 153	coded variables/topics, 193, 194t, 205–206
Mormons, 151–152	article collection, 191
multidimensional scaling (MDS) analysis, in	key words, 191, 192 <i>t</i>
concept mapping, 218–219	search strategies, 191, 207–210
Murray, David M.	article relevance, determining, 191–192
on final outcomes, 265	article tracking, 190–195
on man outcomes, 200	case study, 200, 201
N	conclusions, 204
IN .	contributions to program evaluation, 190, 202
Nagaraja, Jyothi	frequency studies, 193–199, 197 <i>t</i> , 197 <i>f</i>
on Strength of Tobacco Control (SoTC) index, 31	future directions, 203–204
National Cancer Institute (NCI)	indices developed from, 193–195
ASSIST investment and implementation, 8, 9,	limitations of, 202
336	steps in developing, 190
ASSIST Newspaper Tracking System, 189, 196	summary, 201–204
cancer control research phases, 7f	as systems method, 331
COMMIT, 6, 7–8, 12 <i>t</i>	trend analyses, 195–200
and evidence-based approaches, 13	by article type, 196–199, 197 <i>f</i>
ISIS, 7, 330	ASSIST <i>versus</i> non-ASSIST states, 199 <i>t</i> ,
SCLD, 90, 91, 104	199–200
and SoTC questionnaire, 39	by editorial point of view, 198
and state legislative indices, 91-92, 93-99, 335	by policy topic, 196–199, 197 <i>f</i> New York
tobacco control monographs (See tobacco	
control monographs (NCI))	adult smoking prevalence changes, 276
TUS-CPS, 15, 16, 22, 114, 329, 335	smoke-free workplace law, 153
National Research Council, report on	New York Times, 191
environmental tobacco smoke, 90	Nicolas, P., 173
National Tobacco Control Program (NTCP), 11	non-ASSIST states
NCI. See National Cancer Institute (NCI)	ASSIST services to, 10
Nevada, adult smoking prevalence changes in, 276	compared to ASSIST states (See ASSIST states
New Jersey, tobacco control efforts in, 153, 238	versus non-ASSIST states)
"new public health," 16, 338	diffusion of ASSIST-like practices to, 10, 13,
news media. See under media	22, 334–335
newspaper coverage. See also media coverage	tobacco control efforts in, 22, 136–137
influence of, 190	North Carolina
of tobacco control policy, 195-204	cigarette excise tax, 148, 166
by article type, 196–199, 197 <i>f</i>	economic importance of tobacco in, 168, 170
in ASSIST versus non-ASSIST states, 199t,	tobacco as share of GSP, 176, 178f, 181
199–200	
editorial points of view in, 198, 200, 201	newspaper editorials on youth access issues in, 200, 201
editorial policies and, 202	
North Carolina case study, 200, 201	tobacco industry lobbying against ASSIST in, 239–240
by topic, 196–199, 197 <i>f</i>	
tracking/evaluation system (See Newspaper	North Karelia demonstration project, 6
Tracking System, ASSIST)	NTCP. See National Tobacco Control Program
by volume (rate variable), 195, 199t, 199–200	(NTCP)

0	mixed effects time-dependent models, 298–300
obesity prevention, 338	slopes approach, 297–298
observations, limited number of, 23, 330	state-to-state variability, 298
Occupational Safety and Health Administration (OSHA) regulations, tobacco industry opposition to, 241–242	ASSIST <i>versus</i> non-ASSIST states, 278 <i>f</i> , 279, 280 <i>f</i> , 281 <i>t</i> , 289–290, 292, 301 <i>t</i> and IOI changes, 287–289, 289 <i>t</i> , 290
Ohio, economic importance of tobacco in, 168	and SoTC score, 287, 287 <i>t</i>
Ohsfeldt, R. L.	baseline, 270 <i>t</i> changes in, 5, 301 <i>t</i>
on political ideology and tobacco control, 152–153	and adult smoking prevalence changes, 115–116, 289–290
on state spending and tobacco control, 153	and initial outcomes, 130, 133t
on tobacco-growing/producing states, 148, 166	and IOI scores, 130, 133, 133 <i>t</i> , 134 <i>f</i> , 290
Oklahoma	as outcome measure, 14–15, 20–21
adult smoking prevalence changes, 276	and real cigarette prices, 130, 133 <i>t</i> , 137–138
clean indoor air legislative score, 123	timing of, 16, 20
per capita cigarette consumption, 297 <i>f</i> one-tailed tests, 272	correlations with initial outcomes, 130, 133 <i>t</i> clean indoor air legislative scores, 123, 126 <i>f</i>
	IOI, 130, 132 <i>f</i> , 133, 133 <i>t</i> , 135 <i>f</i> , 287–289,
Oregon	288t, 290, 292
smoke-free workplace reports, 126 tobacco tax initiative, 153	real cigarette prices, 120, 122, 123 <i>f</i> , 287,
outcome measures, for ASSIST evaluation, 5,	288t, 290, 292
14–16, 19 <i>t</i> , 20–21, 25 <i>t</i>	smoke-free workplace reports, 126, 128f
final (<i>See</i> final outcomes)	correlations with state conditions, 150
initial (<i>See</i> initial outcomes; Initial Outcomes	demographic factors, 150, 277t
Index (IOI))	correlation with SoTC, 286 <i>t</i> , 286–287, 288 <i>t</i> ,
multiple, rationale for, 14–15, 20	290, 292
outcomes	analytic method, 282–283
final (See final outcomes)	in ASSIST <i>versus</i> non-ASSIST states, 287, 287 <i>t</i>
initial (See initial outcomes)	data collection, 17, 18f
interim, 14	data sources, 115
intermediate, 20, 116	key findings on, 331–332
link with intervention, 116–118	by state, 301t
multiple, relationships among, 14, 20–21	state variations in, 290, 298
timing of, 16, 20, 119	trends in, by baseline IOI group, 133, 135f
_	per capita expenditure, for ASSIST project, 311–312, 312 <i>t</i>
P	discounted value for, 315
	Philip Morris USA, 171
parsimony, of SoTC index variables, 35, 56	accommodation/preemption laws and, 239
PDV. See present discounted value (PDV)	documents on tobacco control counterefforts,
Peck, Richard M.	237, 244, 247, 249, 251
on cost-effectiveness of ASSIST, 305	Colorado media plan, 252–253
Pennsylvania, economic importance of tobacco in, 168, 171	youth access policies, 254 physicians, smoking cessation advice from, cost-
per capita cigarette consumption, 114, 270, 331,	effectiveness of, 316, 322–323
332 analytic methods, 272–273, 276–279, 292,	policy media coverage influence on, 90, 189
297–300	tobacco control (<i>See</i> tobacco control policies)

policy-level interventions, 8–11, 90 media interventions for promotion of, 188 monitoring of, 91–92 political contributions, by tobacco industry, 226,	quality-adjusted life-years (QALY), 317 questionnaire (agency worksheet), for SoTC, 39,
227, 234, 239	questionnaire (agency worksheet), for SoTC, 39, $61f$ – $64f$
political ideology, and tobacco control, 152–153, 155	administration of, 41–42 quit. See also smoking cessation
political participation, and tobacco control, 166	cost per (See cost per quit)
politics, and public health interventions, 328	distribution age, 322
population-level interventions, 6–7, 11–12	life-years gained after (See life-years gained
population surveys, 118	after smoking cessation)
poverty, and per capital cigarette consumption, 150	
preemption laws. See state preemption laws	R
preemption reduction, in legislative scores, 95, 123	manufathminity. Can also African Americans.
clean air laws, 99, 101 <i>t</i> , 101–102, 102 <i>f</i> , 123	race/ethnicity. See also African Americans; Hispanics
youth access laws, 100, 100t, 101f	in ASSIST population, 329
pregnant women, smoking cessation advice for,	and smoking prevalence, 146, 147–148
cost-effectiveness of, 322–323	randomized clinical trials, 15
present discounted value (PDV), 308–310	rate index (ASSIST Newspaper Tracking System)
and ASSIST cost-effectiveness analysis, 314–316	195, 199
calculation of, 309	raw frequency index (ASSIST Newspaper
prohealth point of view, in newspaper editorials,	Tracking System), 193–195
198, 201	recidivism rates (smoking), and cost-effectiveness analysis, 313 <i>t</i> , 315, 320–322
protobacco point of view, in newspaper editorials,	referendum campaigns, 234
198, 201	relative frequency index (ASSIST Newspaper
public awareness, as initial outcome, 117–118, 119	Tracking System), 193–195
public education interventions, 5	of article type by year, 196, 197 <i>f</i>
initial outcomes of, 117–118	of policy topic by year, 196–199, 197f
public health interventions advocacy in, 189–190, 340	religious communities, 151–152
complex, evaluation and, 11, 338–339	REMI model, 172
media and, 189–190	research questions, 21, 21 <i>t</i> , 271
"new," 16, 338	resources (SoTC component), 20, 35
politics and, 328	definitions, 34, 35, 36
randomized clinical trials and, 15	funding, 49–51, 50 <i>t</i>
undermining of, by tobacco industry, 227,	in ASSIST versus non-ASSIST states, 154t,
247–248, 250–251	155
public opinion. See also views and attitudes	and capacity, 14, 333
media coverage and, 189	changes in, 49, 51 <i>f</i> , 153–155, 154 <i>t</i> scores, 45 <i>t</i> , 46 <i>f</i>
tobacco industry tactics shaping, 229–230	correlations, 44, 48t
on tobacco use and policies	domain-level, 49–51, 50 <i>t</i> , 53
ASSIST aims for, 14, 328, 339 factors affecting, 144–145, 148	variables measuring, 35–36, 56 <i>t</i> , 57 <i>t</i>
historic changes in, 8, 11, 144	retailers' associations, 244
in tobacco-growing/producing states, 148	Rhode Island
public relations activities, of tobacco industry,	efforts scores (SoTC), 153
229–230, 231 <i>t</i> , 253–254	smoke-free workplace law, 153
concept map rating of, 222t	tobacco industry counterefforts in, 247

Riis, Jacob, 340	in smoking prevalence, 146, 147
risk assessment, after smoking cessation, 317–318	and ASSIST cost-effectiveness, 315
R.J. Reynolds, actions against ASSIST, 240, 248–249	ASSIST <i>versus</i> non-ASSIST states, 276, 277 <i>t</i> , 289
Robert Wood Johnson Foundation	and IOI score, 285t
ImpacTeen project, 105	similarity matrix, in concept mapping, 218
SmokeLess States, 9, 10, 41, 136, 137, 202	Slater, Sandy J.
and SoTC survey, 39, 41, 335	on state conditions affecting tobacco control, 141
tobacco control programs funded by, 136-137	on tobacco industry counterefforts, 291
Rockville, Maryland, 98–99	SLATI. See State Legislated Actions on Tobacco Issues (SLATI)
S	smoke-free homes, 117–118
	smoke-free workplace reports (measure)
Saffer, H.	changes in, 130, 133 <i>t</i>
political activism and tobacco control, 153	correlations with final outcomes, 130, 133t
tobacco-growing/producing states, 148, 166 sales tax, 120	correlation with adult smoking prevalence, 126 128f, 285–286
Saloojee, Y., 216	correlation with per capita cigarette
sample size, trends in, 11–12	consumption, 126, 128f
Satcher, David, on data monitoring and analysis,	findings, 332
91, 104	as initial outcome, 123–125
Schmitt, Carol L.	by state, 125–126, 127 <i>t</i>
on ASSIST evaluation contributions, 325	smoke-free workplaces
on ASSIST evaluation overview, 1	causes of, 116–117
on Strength of Tobacco Control (SoTC) index, 31	state government, rating of, 94, 96
on tobacco industry counterefforts and tactics,	state laws on, factors promoting, 152, 153
213	SmokeLess States National Tobacco Policy
science, undermining by tobacco industry, 229, 230 <i>t</i> , 250–251	Initiative, 9, 136, 137
concept map rating of, 222t	and ASSIST, 10, 335
scientific support, of SoTC index variables, 35,	evaluation, 202, 335 in SoTC data collection, 41
36, 56	· ·
SCLD. See State Cancer Legislative Database	smokers' rights campaigns, 234, 241
(SCLD)	smoking behavior factors affecting, 144 <i>f</i> , 144–148, 151–152
SCLD Updates Index, 104	smoking restrictions and, 123, 144
search strategies	of youth, 144–148
for ASSIST Newspaper Tracking System, 191,	smoking cessation
192 <i>t</i> , 207–210	and cost-effectiveness of ASSIST, 317
for tobacco industry counterefforts evaluation,	factors affecting, 144, 145, 147, 151
225–226	interventions, 5–6, 117
secondhand smoke. See environmental tobacco	life expectancy gains after, 318–320 (See also
smoke (ETS)	life-years gained after smoking cessation)
secular trends, 22, 291–292	recidivism rates, and cost-effectiveness of
sensitivity analysis, in cost-effectiveness analysis,	ASSIST, 313 <i>t</i> , 315, 320–322
310, 313 <i>t</i> , 314 <i>t</i> , 315	smoking-related disease risk after, 317–318
Seventh-Day Adventists, 151–152	smoking initiation
sex differences. See also women	among African Americans, 147–148
in smoking cessation, 147	factors affecting, 144, 145, 151
life expectancy gains after, 318–320	rate, and cost-effectiveness of ASSIST, 317

```
smoking noninitiation, and ASSIST cost-
                                                        smoking prevalence reduction. See also smoking
  effectiveness, 315, 316
                                                           prevalence, changes in
smoking prevalence, 114
                                                           in ASSIST cost-effectiveness analysis, 314t,
                                                             315, 316-317
  adjusted two-stage results, 276, 277t
                                                           in ASSIST states, projected to U.S. population,
  by age, 276, 277t
  analytic methods, 272-273, 274, 292, 293-296
                                                             291, 292, 332
    basic calculation, 293, 316-317
                                                           calculation of, 317
    covariates, 23, 274, 275t, 293-295
                                                           in California, 10, 146-147
                                                           factors affecting, 20, 144-145
    model diagnostics, 295
                                                           historical, 5
    for SoTC and IOI relationships, 281
                                                           in Massachusetts, 10
  ASSIST versus non-ASSIST states, 270,
                                                           national goal for, 336
    275-276, 289, 292, 301t, 342t-343t
                                                           as outcome measure, 14-15, 20-21
    baseline, 23, 270, 270t
                                                           overall U.S., 11, 12, 270, 275
    final results, 270, 289
                                                           timing of, 16, 20
    and sex, 276, 277t, 289, 292
                                                           in women, 276, 277t, 289
  baseline data, 23, 270, 270t, 275, 293
                                                           in youth, 146-147
  changes in, 5, 275-276, 301t (See also smoking
                                                        smoking-related disease risk, after smoking
    prevalence reduction)
                                                           cessation, 317-318
    and ASSIST cost-effectiveness, 314t, 315
                                                        smoking restrictions
    and initial outcomes, 130, 133t
                                                           in homes, 117-118
    and IOI scores, 130, 133, 133t, 134f, 284-
                                                           and smoking behavior, 123, 144
       286, 285t
                                                           in workplaces (See smoke-free workplaces)
    as outcome measure, 14-15, 20-21
                                                        Snow, John, 340
    and per capita cigarette consumption
                                                        socioeconomic status
       changes, 115-116, 289-290
                                                           and per capita cigarette consumption, 150
  correlations with initial outcomes, 130, 133t
                                                           and smoking prevalence, 146, 147, 148, 155
    cigarette prices, 120, 122f, 285-286
                                                        societal changes
    clean indoor air legislative scores, 123, 125f,
                                                           evaluation of, 14, 338–339
       285-286
                                                           as intervention objective, 14, 116, 338
    IOI scores, 130, 132f, 133t, 284–286, 285t,
                                                           in tobacco use
       290, 292
                                                             as ASSIST objective, 14, 328, 339
    smoke-free workplace reports, 126, 128f,
                                                             factors affecting, 144-145
       285-286
                                                             in 1990s, 8, 11
  correlation with SoTC, 44, 48t, 284, 285t,
                                                        SoTC index. See Strength of Tobacco Control
    290-291, 292
                                                           (SoTC) index
  data sources, 114-115, 274, 310
                                                        South Carolina
  demographic factors, 146-148
                                                           cigarette excise tax, 148, 166
    adjusting for, 293-295
                                                           economic importance of tobacco in, 168
  key findings on, 331, 332
                                                           tobacco as share of GSP, 176, 180f
  reduction in (See smoking prevalence
                                                        Southeast, economic impact of tobacco use
    reduction)
                                                           decline in, 173
  religious factors in, 151-152
                                                        Spearman Management, Inc., 239
  results, 270, 275-276, 292
                                                        spillover effect, 153
  sex differences, 276, 277t, 315
                                                        stakeholders, proliferation of, 12
  by state, 301t, 342t-343t
                                                        Stanford Three Community Study, 6
  state-level conditions associated with, 146-148,
     150, 151-152
                                                        STATE. See State Tobacco Activities Tracking
  in 2005, 336
                                                           and Evaluation System (STATE)
  unadjusted descriptive results, 275-276
                                                        state(s). See also individual states
  views on tobacco use and, 144
                                                           ASSIST (See ASSIST states)
```

```
compared to non-ASSIST (See ASSIST
                                                           as analytic covariates, 274, 275t
                                                           ASSIST evaluation measures, 145–149, 146t
       states versus non-ASSIST states)
                                                             data sources and collection, 146t, 149-150
  bias in selecting, 23
  cigarette prices, real, 120, 121t
                                                           conclusions, 156
  clean indoor air legislative scores, 122–123, 124t
                                                           demographic, 146t, 146-148, 149-150, 155
  conditions in, affecting tobacco control (See
                                                           family, 151, 152
    state conditions)
                                                           local tobacco control initiatives, 152
  economic dependence on tobacco (See
                                                           political ideology, 152-153, 155
    economic dependence on tobacco)
                                                           religious communities, 151-153
  IOI scores, 130, 131t, 275-276, 342t-343t
                                                           summary, 155-156
  lawsuits against tobacco industry, 11
                                                           wealth/funding for tobacco control, 49-51, 50t,
  non-ASSIST (See non-ASSIST states)
                                                             51f, 153–155, 154t
  per capita cigarette consumption, 301t
                                                        state government worksites, smoke-free, 94, 96
  smoke-free workplace reports, 125–126, 127t
                                                        state health departments
  smoking prevalence, adult, 275–276, 301t,
                                                           and ASSIST, 8, 10
    342t - 343t
                                                           as SoTC respondents, 40, 41
    changes in, 301t
                                                        State Legislated Actions on Tobacco Issues
  SoTC scores, 44, 45t, 46f, 342t-343t
                                                           (SLATI), 104
  tobacco as share of GSP, 175-176, 177t
                                                        state+local clean indoor air rating, 92
  tobacco control coalitions, 16-17, 40
                                                           calculation of, 99
  tobacco control funding, 49–51, 50t, 51f,
                                                           results (See clean indoor air ratings (legislative
    153-155, 154t
                                                             scores))
  tobacco control laws (See state tobacco control
                                                        state preemption laws
    laws)
                                                           and clean indoor air laws, 91, 100-102, 101t, 102f
  tobacco control policies (See state tobacco
                                                           definition of, 91
    control policies)
                                                           rating (legislative score) reduction based on,
  tobacco-growing/manufacturing (See tobacco-
                                                             95, 123
    growing/manufacturing states)
                                                             clean air laws, 99, 101t, 101-102, 102f, 123
  tobacco industry behavior in, studies of, 231, 232t
                                                             youth access laws, 100, 100t, 101f
  as unit of analysis, 272
                                                           as tobacco industry tactic, 152, 239
  variations among, as analytical consideration,
                                                           trend toward, 91
    290, 298
                                                           and youth access laws, 91, 100, 100t, 101f
State Cancer Legislative Database (SCLD), 90,
                                                        State Tobacco Activities Tracking and Evaluation
  91, 104
                                                           System (STATE), 104
state clean indoor air laws
  as ASSIST policy priority, 119
                                                        state tobacco control laws
  rating results, 100-103, 101t, 102f, 106
                                                           changes in, measurement of (See legislative
    ASSIST versus non-ASSIST states, 92, 103,
                                                             changes, measurement of)
                                                           clean indoor air (See state clean indoor air laws)
       103t, 124t, 130
    changes in, with and without preemption, 91,
                                                           data sources, 90, 91, 104-105
                                                           economic importance of tobacco and, 165-166
       100–102, 101t, 102f
    state+local, 102–103, 103t
                                                           history of, 90-91
  rating system, 89, 90, 92, 93-97, 105-106
                                                           monitoring, importance of, 91-92
    preemption reduction, 95, 123
                                                           preemption provisions in (See state preemption
    state+local, 99
    target criteria, 93-95, 95t, 105-106
                                                           rating of (See legislative changes, measurement
  smoke-free workplace, 94, 96, 152, 153
                                                           smoke-free workplace, 152, 153
state conditions (affecting tobacco control), 22,
                                                           on youth access to tobacco (See state youth
  143–156, 330. See also economic dependence
                                                             access laws)
  on tobacco
```

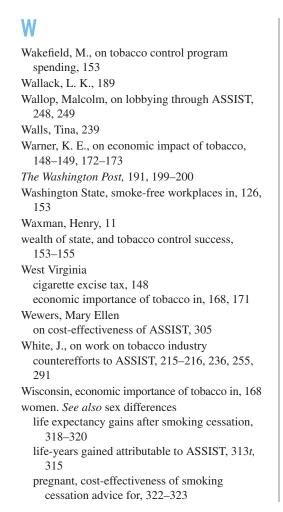
```
state tobacco control policies. See also state
                                                           on newspaper coverage comparison methods,
  tobacco control laws; individual states
                                                           on Strength of Tobacco Control (SoTC) index, 31
  activities associated with, measurement of (See
                                                           on tobacco industry counterefforts and tactics,
    efforts (SoTC component))
                                                             213, 216, 217, 256
  ASSIST and, 8-9, 10
                                                        Strategies to Control Tobacco Use in the United
  economic arguments as barriers to, 148, 155,
     165-166, 171, 182
                                                           States: A Blueprint for Public Health Action
                                                           in the 1990's (first NCI tobacco control
  evaluation of
                                                           monograph), 5, 8, 336
     ASSIST evaluation's contribution to, 15-16.
                                                         Strauss, Warren
       291-292, 335
                                                           on Strength of Tobacco Control (SoTC) index, 31
    future needs for, 336-337
    SoTC as tool for, 49-53
                                                         Strength of Tobacco Control (SoTC) index, 17.
                                                           20, 33-55, 145, 215, 223
  funding, 49–51, 50t
                                                           capacity (construct), 20, 35
    in ASSIST versus non-ASSIST states, 154t,
                                                             definitions of, 34, 35, 36, 39
       155
                                                             domain-level scores, 49-51, 50t, 53
    and capacity, 14, 333
                                                             key findings, 331-332
    changes in, 49, 51f, 153-155, 154t
                                                             scores, 45t, 47f
    future of, 336-337
                                                             scores correlations, 44, 48t
  future needs for, 336-337
                                                             variables measuring, 35-36, 56t, 58t-59t
  of individual states, 10
                                                           component constructs, 20, 33-39, 37f, 38t
    SoTC as evaluation tool for, 49-53
                                                             combination of, 43
  initial outcomes of, measure of (See Initial
                                                             scores, 45t, 46f-47f
    Outcomes Index (IOI))
                                                           conceptual/heuristic model, 34, 35, 36
  national initiatives promoting, 8–10
                                                             limitations of, 48
  newspaper coverage trends, 196-199
                                                             map, 37f
  proliferation of, 22, 291
                                                             validation of, 40, 43–44, 77–82, 82f–84f
  state-level conditions affecting (See state
                                                           conclusions, 55
    conditions)
                                                           continuation after ASSIST, 335
  strength of, measure of (See Strength of
                                                           data analysis methods, 40, 42-43, 77-78,
    Tobacco Control (SoTC) index)
                                                             280-283
  tracked by ASSIST Newspaper Tracking
                                                             correlation with ASSIST status, 280-281
    System, 193, 194t
                                                             correlation with per capita cigarette
    trend analysis, 197f
                                                                consumption, 282-283
state youth access laws. See also youth access
                                                             correlation with smoking prevalence, adult,
  laws
                                                                281
  history of, 90-91
                                                           data collection, 40-42
  rating results, 100, 100t, 101f
                                                             instruments, 39
  rating system, 89, 90, 92, 93-97
                                                             questionnaire (worksheet), 39, 41–42,
    target criteria, 93-95, 94t, 105
                                                                61f–64f
statistical tests, one-tailed, 272
                                                             respondents, 40-42, 48-49
Stillman, Frances A.
                                                             telephone interview (survey 2), 39, 41,
  on ASSIST evaluation contributions, 325
                                                                65f-76f
  on ASSIST evaluation overview, 1
                                                             timeline, 17, 18f
  on ASSIST Newspaper Tracking System, 185,
                                                           development of, 34–39
                                                           domains/indicators, 36, 38t, 39, 57t-60t
  on diffusion of ASSIST practices to non-
                                                              scores by, 49-53
     ASSIST states, 335
                                                           efforts (construct), 20, 35
                                                             definitions of, 34, 35, 39
  on final outcomes, 265
  on Initial Outcomes Index (IOI), 111
                                                             domain-level scores, 51-53, 52t
  on legislative changes rating system, 87, 91–92
                                                             scores, 45t, 47f, 52t
```

scores correlations, 44, 48t	Supreme Court, and youth access regulations, 91
variables measuring, 35–36, 56t, 60t	Surgeon General's reports
individual state program evaluation using,	on environmental tobacco smoke (1986), 90, 252
49–53	on health benefits of smoking cessation (1990),
lessons for tobacco control program evaluation,	317, 318
55	Healthy People 2010, 336
limitations, 48–49	on smoking and health, first, 5
rationale for, 53–54, 330	on women and smoking (2001), 147
resources (construct), 20, 35	surveillance. See monitoring
definitions of, 34, 35, 36	Sweda, E. L., Jr., 216
domain-level scores, 49–51, 50t, 53	Synar amendment, 90–91
funding, 49–51, 50 <i>t</i>	Syndemics initiative, 7
funding changes, 49, 51 <i>f</i> , 153–155, 154 <i>t</i>	system-level interventions, 7
scores, 45t, 46f	
scores correlations, 44, 48t	systems evaluation methods, 330–331, 339
variables measuring, 35–36, 56t, 57t	systems view of the world, 330, 340. See also
results (scores), 44–49, 45 <i>t</i> , 46 <i>f</i>	ecological model
ASSIST status and, 44, 45t, 283, 342t–343t	
of component constructs, 45t, 46f–47f	T
correlations with/effect on IOI, 281, 282t,	T
283, 290	tax, excise. See cigarette excise tax
correlations with final outcomes, 290-291, 292	_
correlation with legislative scores, 44, 48t	tax revenues, tobacco-generated, 172
correlation with per capita cigarette	telephone interview (survey 2), for SoTC, 39,
consumption, 286t, 286–287, 288t, 290,	65f-76f
292, 332	administration of, 41
in ASSIST versus non-ASSIST states,	Tennessee
287, 287 <i>t</i>	cigarette excise tax, 148, 166
correlation with smoking prevalence, adult,	economic importance of tobacco in, 168, 171
44, 48 <i>t</i> , 284, 285 <i>t</i> , 290–291, 292	tobacco as share of GSP, 176, 181f
domain-level, 49–53	timing
by state, 45t, 46f, 342t–343t	of data collection for ASSIST evaluation, 17, 18f
summary, 53–54	of outcomes of tobacco control interventions,
systems methods in, 330–331	16, 20, 119
tracking trends with, 54	of quits attributable to ASSIST, 322
validation of, 40, 43–44, 77–82, 82 <i>f</i> –84 <i>f</i> ,	tobacco
330–331	economic dependence of state on (See
concept-mapping, 85, 85 <i>f</i> , 330	economic dependence on tobacco)
correlation analysis, 77, 78–80, 79 <i>t</i> , 80 <i>t</i>	varieties, 168
factor analysis, 43, 44, 77–78, 80–81, 82 <i>f</i>	warehousing, 174
principal components analysis, 43, 77–78,	tobacco advertising
80, 81 <i>t</i>	as countereffort to tobacco control, 145, 291
structural equations modeling, 43, 44, 78,	expenditures, 9, 23, 170
80–82, 83 <i>f</i> , 84 <i>f</i>	newspaper articles on, 197t, 198
variables measuring, 57 <i>t</i> –60 <i>t</i>	restrictions, 119, 145, 239
selection and validation, 35–36, 56 <i>t</i>	tobacco consumption. See also per capita cigarette
Sullivan, Louis, 249	consumption; tobacco use
supplier sector, impact of tobacco in, 171–172	changes in
support, creating illusion of, by tobacco industry, 227, 228 <i>t</i> , 245–247	economic impact forecasts, 171–174 as outcome measure, 20–21
concept map rating of, 221 <i>t</i>	U.S. cigarette consumption, 167, 169 <i>f</i>
concept map rating of, 2211	o.o. eigarette consumption, 107, 109

```
tobacco control laws. See also tobacco control
tobacco control
  future of, 336-338
                                                           policies
  media advocacy for, 188
                                                           aimed at tobacco industry, 11, 145
tobacco control coalitions, 40, 117
                                                           changes in, measurement of (See legislative
  and capacity, 14, 333
                                                             changes, measurement of)
  measure of, 16-17
                                                           clean indoor air (See clean indoor air laws)
tobacco control community, harassment of, 227-
                                                           data sources, 90, 91, 97-98, 99, 104-105
  229, 228t, 247-250
                                                           local (See local tobacco control ordinances)
  concept map rating of, 222t
                                                           preemptive (See state preemption laws)
tobacco control evaluation
                                                           rating results, 100-103
  ASSIST evaluation's contributions to, 334–336
                                                           rating system, 89, 91-99, 105, 106
    initial outcomes methodology, 137
                                                           smoke-free workplace, 152, 153
    SoTC model, 55
                                                           spillover among states, 153
    state-level conditions, 155-156
                                                           state (See state tobacco control laws)
  for complex programs, 11, 338-339
                                                           tobacco advertising restrictions, 119, 145, 239
  future challenges for, 336-338
                                                           on youth access to tobacco (See youth access
  of program components, 17
                                                             laws)
  trends over time in, 6f
                                                        tobacco control monographs (NCI)
tobacco control interventions
                                                           1, Strategies to Control Tobacco Use in the
  ASSIST-like, diffusion to non-ASSIST states,
                                                             United States: A Blueprint for Public Health
     10, 13, 22, 334-335
                                                             Action in the 1990's (the "blueprint"), 5, 8,
  community impacts of, 144
  community-level, 6
                                                           16, ASSIST: Shaping the Future of Tobacco
  complex, evaluation of, 11, 338-339
                                                             Prevention and Control, 9, 11
  components of, evaluation of, 17
                                                        tobacco control policies. See also tobacco control
  cost per person, 308, 316, 323
                                                           laws
  current trends, 11-13
                                                           ASSIST policy areas, 90, 119-120, 269
  education-based, 5
                                                           as intervention focus, 339, 340
  environmental factors affecting (See state
                                                           media interventions promoting, 188
    conditions)
                                                           monitoring of, 91-92, 104
  establishment of, and cost-effectiveness of
                                                           newspaper coverage of (See newspaper
    ASSIST, 321
                                                             coverage, of tobacco control policy)
  evaluation of (See tobacco control evaluation)
                                                           in 1990s, 8-11
  evolutionary phases of, 5-8, 6f
                                                           state (See state tobacco control policies)
  historical trends in, 4–13, 6f
                                                           in tobacco-growing/producing states, 148,
  individual-level, 5-6
                                                              165-166
  key questions for, 337
                                                           tobacco industry efforts and tactics counter
  in 1990s, 8-11
                                                             to (See tobacco industry counterefforts and
  outcomes/outcome measures of (See outcome
                                                             tactics)
    measures; outcomes)
                                                        tobacco growing, 165-170
  policy-level, 8-11, 90 (See also tobacco control
                                                           decline in, 167, 167f
    laws; tobacco control policies)
                                                             economic impacts of, 173-174
  population-level, 6-7, 11-12
                                                             factors contributing to, 167-170, 169f
  science-based model for, 7-8
                                                           in economic dependence measure, 150, 174, 175
  state-based (See state tobacco control laws;
                                                           employment in, 175
    state tobacco control policies)
  system-level, 7
                                                           as share of GDP, 176, 178f
  and tobacco industry, 11 (See also tobacco
                                                           as share of GSP, 176f, 178f-181f
    industry counterefforts and tactics)
                                                           states most dependent on, 150, 168
```

tobacco growing and manufacturing (combined	procedures for, 217–219
measure), 175	results of, 219–220, 221 <i>t</i> –222 <i>t</i> , 223 <i>f</i> , 224 <i>f</i>
as share of GDP, 176, 178 <i>f</i>	conclusions, 256–257
as share of GSP, 175–181, 177 <i>t</i>	creating illusion of support as, 227, 228t,
selected states, 176, 176 <i>f</i> , 178 <i>f</i> –181 <i>f</i>	245–247
tobacco-growing/manufacturing states, 150, 168,	concept map rating, 221t
170–171. See also individual states	definition of, 216
economic impact forecasts, 173–174	direct versus indirect, 227, 231
tobacco as share of GSP, 176, 176 <i>f</i> , 178 <i>f</i> –181 <i>f</i> ,	document review, 236–254, 255–257
181	lessons from, 254
tobacco control barriers in, 148, 155, 165–166,	methods, 236–237
171, 182	results, 237–254
views on tobacco use in, 148	economic intimidation as, 227, 228t, 240–242
tobacco industry. See also tobacco growing;	concept map rating, 221t
tobacco manufacturing	evaluation challenges, 254–257
advertising by (See tobacco advertising)	harassment as, 227–229, 228t, 247–250
cigarette sales data, 115	concept map rating, 222t
definition of, 215n	index/measurement of, 215–216, 223, 233–235,
documents on tobacco control counterefforts,	254–257
236–254, 255–257	legal intimidation as, 227–229, 228t, 240–242
economic dependence of state on (See	concept map rating, 221t
economic dependence on tobacco)	legislative strategies as, 226t, 226–227, 234,
economic impact claims of, 148–149, 171–172	238–240
on economic impact of tobacco, 148–149	concept map rating, 221t
studies, 171–174	literature review, 224–233, 255
economic impacts, 176	case studies, 230–233
history of, 165	limitations, 233
lawsuits against, 11	methods, 225–226
and local ordinances, 152, 232t, 238	results, 226–230
marketing expenditures, 9, 23, 170	lobbying as, 171, 226 <i>t</i> , 226–227, 234, 238–240
Master Settlement Agreement (1998) and, 11,	concept map rating, 221t
145, 171, 236	local-level, 152, 232t, 238
and youth access policies, 227, 244, 254	Master Settlement Agreement (1989) and, 145,
tobacco industry counterefforts and tactics, 11,	236
22–23, 215–257	media manipulation as, 229–230, 231 <i>t</i> , 251–253
advertising as, 145, 170, 291	concept map rating, 222t
agenda usurping as, 227, 228t, 243–244	public relations as, 229–230, 231 <i>t</i> , 253–254
concept map rating, 221t	concept map rating, 222t
aimed at ASSIST, 22, 215–216, 291	quantification of, 234–235
industry documents on, 236, 239-240, 242,	research on, since ASSIST evaluation, 335–336
244, 246–250	state-level, case studies of, 231, 232 <i>t</i>
aimed at specific public health initiatives, case	state preemption laws as, 152, 239
studies, 231, 232 <i>t</i>	summary, 255–256
combination of, 231–233	undermining science as, 229, 230 <i>t</i> , 250–251
concept mapping, 215, 216, 217-224, 255, 256	concept map rating, 222t
background for, 216–217	Tobacco Institute
data validation for, 223–224	budgets, 336
expert panel interpretation of, 219, 220, 225f	cigarette sales data, 115
lessons from, 220, 223–224	documents on tobacco control counterefforts,
participants in 217	237–246, 250–253

tobacco leaf	University of Colifornia
	University of California
exports, 169 <i>f</i> , 170	at San Francisco, digital tobacco industry
imports, 168–170, 169 <i>f</i>	library of, 335–336
production (See tobacco growing)	Social Science Data Collection Web site, 150
tobacco manufacturing, 165–166, 170–171. See	University of Illinois at Chicago, ImpacTeen
also economic dependence on tobacco	project, 105
cigarette production decline, 167, 169f	upstream interventions, 13, 339. See also tobacco
in economic dependence measure, 150, 174–175	control policies
as share of GDP, 176, 178 <i>f</i>	U.S. Bureau of Economic Analysis, economic
as share of GSP, 176 <i>f</i> , 178 <i>f</i> –181 <i>f</i>	impact data from, 174, 175
states most dependent on, 150, 170–171	U.S. Bureau of Labor Statistics, ES-202 reports,
tobacco product(s)	174, 175
laws prohibiting sales to minors (See youth	U.S. Census Bureau
access laws)	CPS, 114, 149
prices (See also cigarette prices)	demographic data, 149
as ASSIST policy priority, 119–120	economic data, 175
tobacco tax. See cigarette excise tax	population estimate data, 98, 115
tobacco use. See also entries under smoking	TUS-CPS, 15, 16, 21, 114
factors affecting, 144 <i>f</i> , 144–145	U.S. Congress, tobacco industry and, 11, 248–249
prevalence of (See smoking prevalence)	USDA, economic impact study by, 173–174
reduction, economic impact studies of, 171-174	Utah, smoking prevalence in, 152
views on	Ctail, smoking prevalence in, 132
changing, as ASSIST objective, 14, 328, 339	
factors affecting, 144–145	
historical changes in, 8, 11, 144	V
in tobacco-growing/producing states, 148	•
tobacco use prevention and control. See entries	variability
under tobacco control	of initial outcomes, 118
Tobacco Use Supplement to the Current	state-to-state, as analytical consideration, 290,
Population Survey (TUS-CPS)	298
adult smoking prevalence data, 15, 16, 21,	Vermont, smoke-free workplace law in, 153
114–115, 122, 150, 274, 310	views and attitudes
in cost-effectiveness analysis, 310, 323	on social issues, media coverage and, 189
development of, 329, 335	on tobacco control policies, in newspaper
future directions, 336–337	editorials, 198, 200, 201
workplace smoking restrictions data, 125, 149	on tobacco use
Trochim, William M. K.	changes in, as ASSIST objective, 14, 328, 339
on Strength of Tobacco Control (SoTC) index, 31	factors affecting, 144–145, 148
on tobacco industry counterefforts and tactics,	historical changes in, 8, 11, 144
213, 217, 218, 220	in tobacco-growing/producing states, 148
TUS-CPS. See Tobacco Use Supplement to the	Virginia
Current Population Survey (TUS-CPS)	cigarette excise tax, 148, 166
1 3 4 7	economic importance of tobacco in, 168, 170
U	tobacco as share of GSP, 176, 179 <i>f</i> , 181
U	smoking prevalence changes, 276
U. S. Department of Health and Human Services,	Viswanath, K.
on state preemption laws, 91	on ASSIST Newspaper Tracking System, 185
Ulasevich, Alec	voluntary organizations, as SoTC respondents,
on ASSIST Newspaper Tracking System, 185	40, 41



```
smoking prevalence
     and ASSIST cost-effectiveness analysis,
       314t, 315
     in ASSIST versus non-ASSIST states, 276,
       277t, 289
Women and Smoking: A Report of the Surgeon
  General (2001), 147
workplace smoking restrictions. See also smoke-
  free workplaces
  causes of, 116-117
  as initial outcome, 20, 123-125
yellow fever epidemic, 340
youth
  factors affecting smoking behavior, 144, 145,
     146-147, 151
  smoking prevalence rates, and cost-
     effectiveness of ASSIST, 317
youth access laws
  as ASSIST policy priority, 119
  enforcement of, 117, 137
  local, 90, 91
  newspaper coverage of, 196, 197f, 198, 199
     North Carolina case study, 200, 201
  state, 90-91
     rating results, 100, 100t, 101f
     rating system, 89, 90, 92–97, 94t, 105
     target criteria, 93-95, 94t, 105
```

tobacco industry and, 227, 244, 254