School Buildings and Community Building



Matthew Dalbey, Ph.D. U.S. EPA's Office of Sustainable Communities June 7, 2012



About EPA's Office of Sustainable Communities

- EPA's mission is to protect human health and the environment.
- OSC focuses on the environmental and public health impacts of the built environment because where and how we build affects our land, air, and water.
- We work on:
 - Changing the conversation: Education and outreach
 - Helping the willing: Tools and technical assistance
 - Changing the rules: Research and policy analysis



What's a Sustainable Community?

An urban, suburban or rural community that has more housing and transportation choices, is closer to jobs, shops or schools, is more energy independent and helps protect clean air and water.



A Response to Development Challenges





- **Development that provides:**
 - Choices for where to live and how to get around
 - A stronger, more resilient economy
 - A safer, healthier place to live
 - Opportunities to protect the things that you love about the place you live (farmland and open space, natural beauty, sense of community, etc.)

What's the Connection? Schools & Community

- Schools both affect and respond to community growth.
- Schools are a major financial investment that the entire community bears.
- Schools can either work with or against a wide variety of community goals.

Let's Establish a Baseline for this Discussion

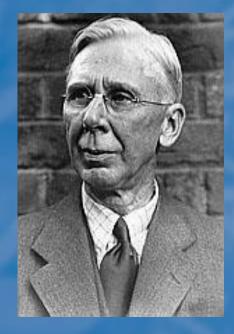
- Something we can and should all agree on: Schools should provide students with a safe healthy place to get a good education.
- This is their primary goal.
- But...having established that, there is room for discussion.

School Investments Influence Community Goals

- Children's health
- Fiscal health of local and state government
- Open space and farmland preservation
- Traffic congestion
- Environmental goals air quality, water quality, climate change
- Revitalization of downtown and existing neighborhoods
- Community character
- Social equity

Schools and Communities

- In 1929, planner Clarence Perry published The Neighbourhood Unit: A Scheme of Arrangement for a Family Life Community.
- This work advocated building "neighbourhoods" as the basis for city growth.



Clarence Perry's Principles

1. The size of a residential neighbourhood should be determined by the population needed for one elementary school: about 750 to 1,500 families on 150 to 300 acres.

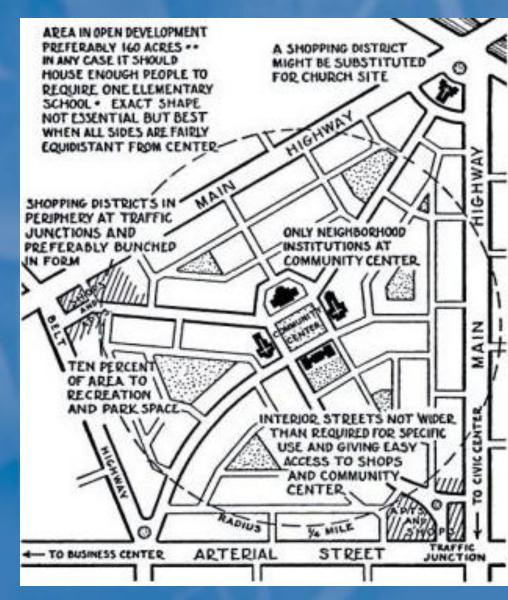
- 2. The neighbourhood should be bounded by arterial roads that eliminate through traffic to the neighbourhood.
- 3. Within the neighbourhood there should be a hierarchy of streets, each designed to minimum widths and laid out to discourage through traffic.
- 4. Streets and open spaces should make up at least 40% of any neighbourhood.

5. Schools and other institutions should be grouped at a central point in the neighbourhood.

6. Shopping areas adequate for the population should be set up at the edges of the neighbourhood, adjacent to arterial traffic.

Schools and Communities

- Clarence Perry defined neighborhood size based on a five-minute walking radius.
- The radius is measured from the center, which holds the cultural uses such as a school.
- A five-minute walking distance is approximately 160 acres.



Schools and Communities

- Clarence Stein expanded the definition of neighborhood center in 1942 by connecting the neighborhoods together to create towns.
- From the 1920's to the 1940's, the centers and anchors of neighborhoods were the schools.



Clarence Stein 1942 diagram of neighborhoods

Concentrations of civic, institutional and commercial activity should be embedded in neighborhoods and districts, not isolated in remote, single-use

complexes. Schools should be sized and located to enable children to walk or bicycle to them.

—CNU Charter

The Demand for Facilities

- Over half of our school facilities are at least 40 years old.
- Over \$30 billion spent annually from 1995 to 2005 on K-12 school construction in the U.S.

GROWTH and DISPARITY A Decade of U.S. Public School Construction





During this time of great investments in school building...

- 1969: 48% of all children walked or biked to school
- 2002: 14% of kids walk or bike to school
- This is an extraordinary shift.
- It's almost as if we planned it that way.

Why Johnny Can't Walk to School









Hmmm...Why can't Johnny walk to school?

- TOP SECRET: National No Child Shall Bike or Walk to School Campaign
- Top 11 strategies for implementing the campaign.

Strategy #1: Bigger Schools

- 1930 = 262,000 School Facilities
- 2002 = 91,000 School Facilities
- Student population over the same time: up from 28 million to 53.5 million



Chippewa Hills, MI. Site size: 120 acres. Completed in 2004



- 1400+ Students, 120 acres
- Weddington Elementary/Middle, NC

Main St. USA



lagicik

Space Mountain

Strategy #2: Mandatory Minimum Acreage for School Sites



- ISSUETRAK -

Topic: State Acreage Policies Issue Tracker: Janell Weihs Date Filed: September 2003

School Site Size — How many acres are necessary?

In recent years one of the most discussed topics reparding school construction is that of appropriate acreage for siting school additions. This are updated for any schools, built for renovation and/or addition projects as well. Many factors need to be considered wit question of acreage. These include, but are not limited to the number of students; the grades to be housed, the education apprograms, and schools the site requirements.including physical education programs, anding, not school or reforestation, acring and schools, storm water management, and testing and recreational events. Very often there are state, school district, and/or local government site asize requirements, suddelines, or standards considered with enducation programs, and includes the interbool obles are neutrinements, quicklens, or standards considered.

Although the Council of Educational Facility Flammers (CEFP) is not a "standards" setting organizations, the Council dees publish quidelines or variou educational facility planning. Many states that do provide a creage and other design specifications have formulas that are similar to the CEFP rece were published in past editions of *The Guide for Planning Educational Facilities*. These recommendations are being carefully reviewed as the new edition of 2004. Current Planning Educational Facilities is being one and the set of the set

Elementary Schools = 10 acres plus 1 acre for every 100 students; Junior High/Middle Schools = 20 acres plus 1 acre for every 100 students; Senior High Schools = 30 acres plus 1 acre for every 100 students.

In this report, no attempt has been made to either evaluate the published documents or determine how a state implements the accased formula. A do does not identify coal district or governmental policies hat may vary from the flugres listed or a specific stata. Not states with oversight respon waivers and atternatives to the published requirements, guidelines or standards, and often differentiate between existing facilities and new construhave formulas that only apply to the maximum amount of state funding available and allow districts to locally fund acreage beyond the site sis accompanying chart. In other cases a state might approve a site smaller han what is specified in the chart based upon the submission of a request evaluation or school building authority in your state. Please contact your local school district for locally department of education website Education or school building authority in your state. Please contact your local school district for locally department of education website eperator for a specific project. State Coursents that have been referenced may be accessible through the individual department of education website and the state of the state of the state of the state indication and policies and the state and the state of th

With the assistance of Bahara Kent Lawrence, 64.D., educational consultant, CEFP staff collected this data from state facility reports, manuals and legislation, and verified it through direct contact with personnel from state educational agencies and practitioners. Dr. Kelvin Lee, Fc.D., Superint Junit Elementary School, and Yal's Bradre, Fc.D., educational facilities consultant, also deserve recognition and thanks for their assistance in develop

All information in the table was collected from state facility reports and manuals, and verified through direct contact with personnel from state decades practitioners. For additional information, details, and/or procedures regarding school site size requirements, guidelines, or standards in your state, State Department of Education or school building authority in your state. To recommend revisions and additions to the table, please contact CEPH This document may not be reproduced or distributed without providing appropriate reference to The Council of Educational Facility Planner, Internati

State	Contact Info	Formulas for School Site Analysis	Comments	Document(s)
Alabama	School Architect & Facilities (334) 212-9731 http://www.side.edu/inde/sections/ section_detail.asp?scction=66&menu =sections&tooter=sections	Elementary Scheol (-64, and must not certain a grade above 8) base of 3 acress pixe one acre for every 100 students Middle School (-40, but not including both grades 4 and 9) Base of 10 acress pixe one acre for every 100 students Secondary School (5-12, but must contain a grade above 8) Base of 15 acres pixe one acre for every 100 students for expressed schools.	The state architect referred to the specifications as recommendations only.	Construction Requirements for County and Public Schools
Alaska	Department of Education & Early Development Facilities (907) 485-2785 http://www.ed.state.ak.us/ facilities/	Elementary = 10 acres plus one acre for every 100 students Middle = 20 acres plus one acre for every 100 students High = 30 acres plus one acre for every 100 students K-12 = 20 acres plus one acre for every 100 students For very small schools: 4 acres = 10-25 students (5 acres = 25-50 students; 8 acres = 50-99 students	and are applied to the state share of funding.	Site Selection Criteria and Evaluation Handbook (1997)
Arizona	School Facilities Board (602) 542-6501 http://www.sfb.state.az.us/	Elementary = up to 8-18 acres Middle/Junior = up to 18-36 High School = up to 30-70	Acreage guidelines range based upon student capacity and serve for new construction only. Recommendations are not listed in the Rules and Policies.	Arizona School Facilities Board Rules and Policies
Arkansas	Department of Education (501) 682-4261 http://arkedu.state.ar.us/ administrators/077.html	No acreage recommendations made		Arkansas Department of Education Rules and Regulations Governing the Minimum Schoolhouse Construction Standards
California	School Facilities Planning Division (916) 322-2470 http://www.cde.ca.gov/tacilities/	Grades IC 4 450 ductoris = 0.5 acres 450 ductoris = 1.3 acres 0 ductoris = 1.7 acres 0 ductoris = 1.7 acres 0 ductoris = 1.7 acres (with rack facilities) 900 ductoris = 2.2 acres (with rack facilities) 1200 ductoris = 2.3 acres (with rack facilities) 1200 ductoris = 3.3 acres 1200 ductoris = 3.3 acres 1200 ductoris = 4.3 acres 1200 ductoris = 4.4 acres 2.400 ductoris = 4.7 acres	Alternative solutions to acreage recommendations are provided. If a school site is less than the recommende acreage required, the district stal demonstrate how the facilities will accommodate an adequate education a described in the districts adopted course of study.	 Guide to School Site Analysis and Development, 2000 School Site Stetection and Approval Guide Small School Site Policy Merno (2001)
Colorado	Department of Education (303) 868-6600 http://www.cde.state.co.us/ index_finance.htm	The state does not provide any recommendations for school facilities.	Jefferson County has developed comprehensive guidelines for their facilities, which do address acreage requirements.	
Connecticut	School Facilities Unit (860) 713-6490 http://www.state.ct.us/sde/dgm/sfu/ index.htm	$\begin{array}{l} \label{eq:linear_linear} \textbf{Elementary} = 10 \mbox{ acres plus1 acre for each 100 students*} \\ \mbox{Middle} = 15 \mbox{ acres plus1 acre for each 100 students*} \\ \mbox{High} = 20 \mbox{ acres plus1 acre for each 100 students*} \\ \mbox{ or the arplicate denominent (8 years from the application date)} \end{array}$	Site allowances refers to the maximum amount the state will consider funding and does not restrict local districts to exceed the acreage allowance or obstruct the district to use a smaller site.	Regulations of the State Board of Education Concerning School Construction Grants
Delaware	Department of Education (302) 739-4601 http://facilitynet.doe.kt12.de.us/ sitenet/default.asp	Elementary = 10 acres plus 1 acre for every 100 students of school capacity Middle/Junier High = 20 acres plus 1 acre for every 100 students of school capacity High School = 30 acres plus 1 acre for every 100 students of school capacity	Specifications are minimum recommendations only, but "there is probably no real's abustitute for sufficient size." Options to consider for sites that do not meet the minimum acreage recommendation are provided.	School Construction Technical Assistanc Manual
Florida	Office of Educational Facilities (850) 245-0494 http://www.fim.edu/doe/edfacil	Guidelines provide detailed information about the site but do not address acreage guidelines.	Size specifications refer to the spaces in the building(s) and the number of spaces allowed according to enrollment.	State Requirements for Educational Facilities

http://www.cefpi.org/pdf/state_guidelines.pdf

Strategy #2: Mandatory Minimum Acreage for School Sites

- EPA commissioned CEFPI to do a study on state policies.
- 27 states have <u>some</u> minimum acreage requirement
- States making changes, including Minnesota

http:// http://h
Minnesota Department of Education, Facilities and Organization (651) 582-8828 http://education.state.mn.us/stellent/ groups/public/documents/ translatedcontent/pub_intro_ finance_facil.jsp

Elementary School = 10-15 acres plus * K-8 or Middle Level School = 25-35 acres plus * K-12 School or Small High School = 35-40 acres plus * Large High School (+2000 students) = 60 acres plus * Campus (two or more schools) = Combine site sizes plus * *All Schools = 1 additional acre for each 100 students of estimated student enrollment and community use/partnership program capacity, including possible additions.

Strategy #3: Locate Schools Far From the Students they Serve



www.governing.com/articles/3schools.htm

Strategy #3: Locate Schools Far From the Students they Serve

Side benefits = demand for new:

- Roads
- Traffic signals
- Sewer lines
- Utilities
- Other infrastructure and services



Strategy #3: Locate Schools Far From the Students they Serve

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The Journal of the American Medical Association — To Promote the Science and Art of Medicine and the Betterment of the Public Health

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Vol. 294 No. 17, November 2, 2005

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From the Centers for Disease Control and Prevention: Morbidity and Mortality Weekly Report

Barriers to Children Walking to or From School–United States, 2004

JAMA. 2005;294:2160-2162.

MMWR. 2005;54:949-952

1 figure, 1 table omitted

Walking for transportation is part of an active lifestyle that is associated with decreased risks for heart disease, diabetes, hypertension, and colon cancer and an increased sense of well being.¹ However, the percentage of trips made by walking has declined over time among both children² and adults.³ One of the objectives of *Healthy People 2010* (no. 22-14b) is to increase among children and adolescents the proportion of trips to school made by walking from 31% to 50%.⁴ In 1969, approximately half of all schoolchildren walked or bicycled to or from school, and 87% of those living within 1 mile of school walked or bicycled.⁵ Today, fewer than 15% of children and adolescents use active modes of transportation.² This report examines data from the 2004 ConsumerStyles Survey and a follow-up recontact survey to describe what parents report as b children aged 5-18 years walking to or from school. Distance to school was the most commonly reported barrier, followed by

#1 Barrier? Distance to School

Update: It's Unanimous!!! Distance is #1 Factor

- Living less than 1 mile from school increased the odds of walking/biking by at least a factor of 160 over those living 3 or more miles from school. (McDonald)
- The percentage of students living close to school has declined over time:
 - In 1969, 66.1% of students lived less than 3 miles from school.
 - By 2001, the figure was 49.5%. (McDonald)

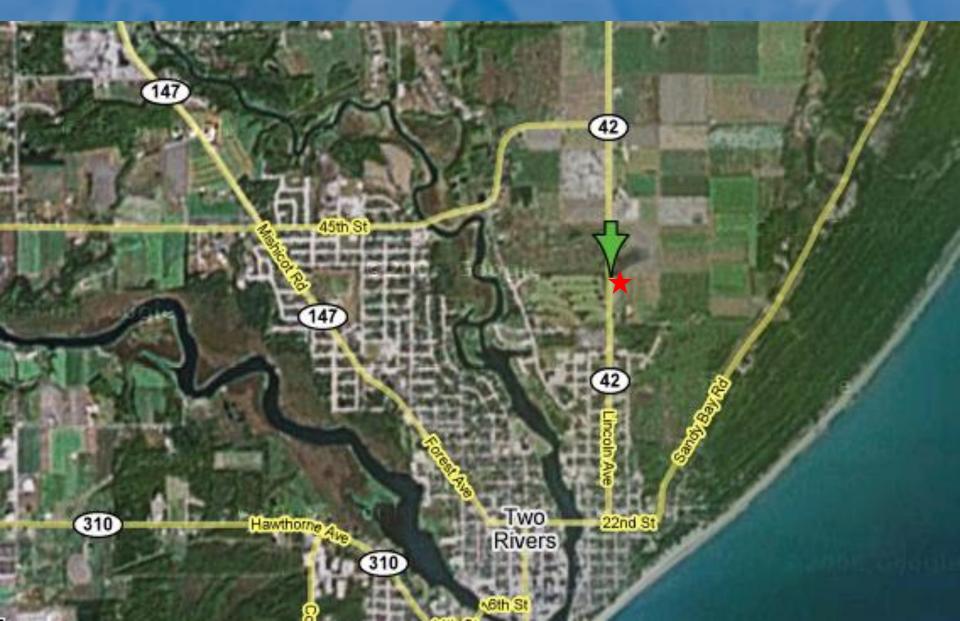
Strategy #4: Neglect or Demolish Existing Neighborhood Schools



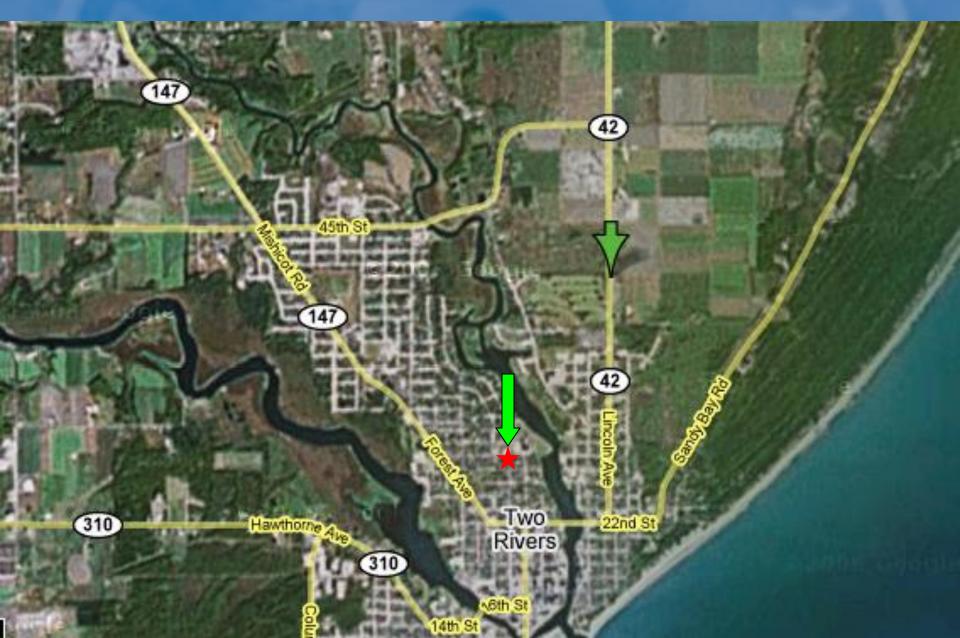




Location of New School



Location of Old School



Strategy #4: Neglect or Demolish Existing Neighborhood Schools





Strategy #4(cont.): Neglect or Demolish Existing Neighborhood Schools













Also Part of this Strategy: Funding Formulas that Favor New Construction over Renovation

• 2/3 Rule
• 60% Rule

- If the cost of renovating a school exceeds some percentage of new construction costs, a new school must be built.
- This policy is adopted even when renovation options could yield "like new" schools for less.

Replace the older schools with places built for cars.



Salemburg Elementary School, NC – 474 students, 44 acres http://www.schoolclearinghouse.org/

Strategy #5: Locate Schools On Unwalkable Roads



Image from the Metropolitan Design Center Image Bank. © Regents of the University of Minnesota. All rights reserved. Used with permission.

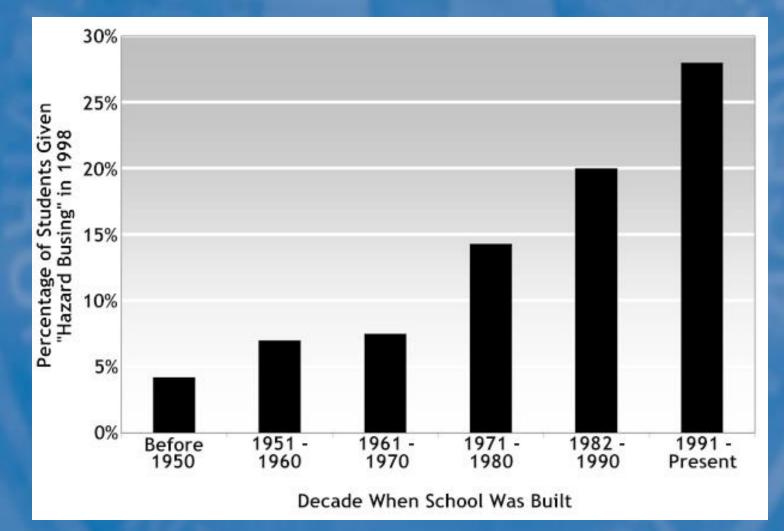
Strategy #5: Locate Schools On Unwalkable Roads

FLASHOW

- A pedestrian hit at 40 mph has an 85% chance of being killed.
- At 20 mph the fatality rate is only 5%

(FHWA, Pedestrian Facilities Users Guide, 2002)

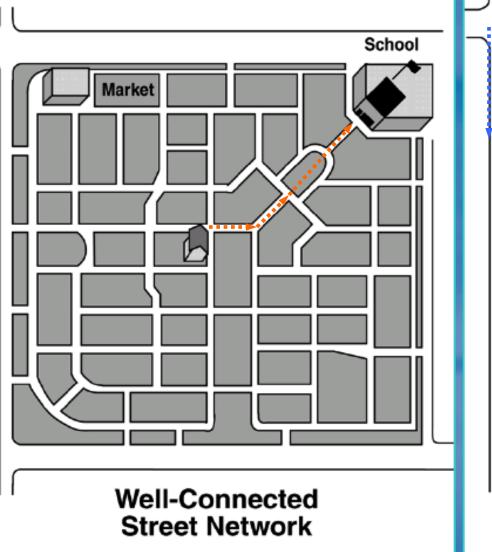
Strategy #5: Locate Schools On Unwalkable Roads

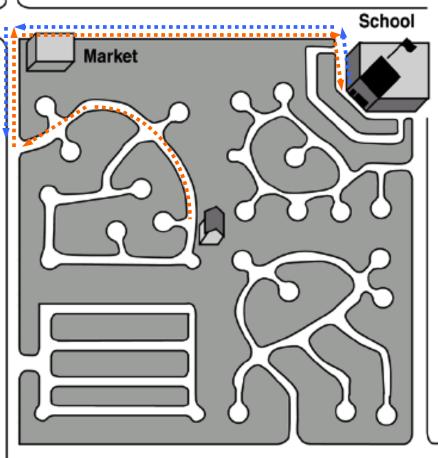


Southern Carolina Coastal Conservation League, 1999, 'Waiting for the Bus: How Lowcountry School Site Selection and Design Deter Walking to School'

Strategy #6: Decrease "Pedestrian Route Directness" Around Schools







Typical Subdivision Cul-de-Sacs

Strategy #7: Do Not Provide Sidewalks or Crosswalks



Image courtesy of National Center for Biking and Walking

Strategy #8: Do Not Provide Sidewalks or Crosswalks

Lindsey Cox, Sacramento 2005

Strategy #7: Do Not Provide Sidewalks or Crosswalks





Strategy #7: Do Not Provide Sidewalks or Crosswalks



Strategy #7: Do Not Provide Sidewalks or Crosswalks



Strategy #8: Creative Approaches to the Sidewalk Problem



Strategy #8: Creative Approaches to the Sidewalk Problem



Image courtesy of National Center for Biking and Walking



Strategy #8: Creative Approaches to the Sidewalk Problem



Strategy #8: Creative Approaches to the Sidewalk Problem



Strategy #9: Prohibit or Discourage Walking and Biking to School



Saturday, June 07, 2008

New school runs into opposition

R-7 officials said a reduced-speed school zone is not necessary because children would not be allowed to walk to the school.

"A bus will pick up every child within the attendance boundaries of this school," [Superintendent] McGehee said.

R-7 officials said a reduced-speed school zone is not necessary because children would not be allowed to walk to the school.

"A bus will pick up every child within the attendance boundaries of this school," McGehee said.

Strategy #9: Simply Prohibit Walking and Biking to School



Wauconda (IL) School Bans Bikes

... and the school's bicycle ban is on the wrong track!

BY STEVEN J. BOIME, CHICAGOLAND BICYCLE FEDERATION

The attack came from the most unexpected source. Still, barely two months into my job of expanding opportunities for bicyclists in the north and northwest suburbs, Wauconda schools banned bikes for all students from fifth grade through high school. No bikes on school grounds under threat of suspension!

As I sat at the school board meeting, listening to the superintendent's rationale for the ban and the parents' impassioned pleas for a reversal, I saw the 30 or so wide-eyed, extraordinarily quiet children watching as one of the most cherished and joyous rights of childhood was being stolen from them.

I recalled the movie "Footloose," where the Kevin Bacon character moves to a small town that has prohibited its children from dancing. The audience could sneer at the self-righteous, misguided adults who thought they could break the spirit of their I saw the 30 or so wide-eyed, extraordinarily quiet children watching as one of the most cherished and joyous rights of childhood was being stolen from them.



The Star-Ledger

School cyclists fit to be tied over rack snub Bridgewater club had offered a gift

Thursday, May 01, 2008

BY NYIER ABDOU Star-Ledger Staff

When the Bridgewater-Raritan High School environmental club settled on a way to spend more than \$2,000 raised over the last four years, co-president Michelle Slosberg never imagined their choice would be so controversial.

More than a week ago, the carbon-conscious students offered to buy and install a bike rack at the school, but were baffled by the response. Principal James Riccobono declined the offer.

"It didn't seem that logical. It would be at no cost to them," Slosberg, 18, said yesterday as she slipped on her bike helmet and prepared for a nearly 20-minute ride home.

"Actually, they said no on Earth Day," remarked Katherine Dransfield, a senior who has tried, with a group of other students, to start a bike club. "Essentially what they told us was that they didn't want to promote biking as a way to get to school."

Strategy #10: Separate Parallel Universes

School Planning

Community Planning

Strategy #11: Show Children Innovative Alternatives to Walking







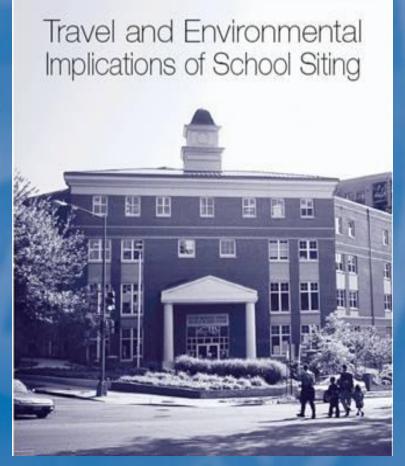
6 brink walk in the park keeps Narwy B in shaps between dog to give ter 3-year-old Ooberman his regular workout. They thews, Blacowner, Columbus resident Cathy Stombo, get up early typically og D miles in Berliner Park.

The Downed (Thinkson)

Thanks and intellectual credit to Dr. Howie Frumkin of CDC for inspiring the preceding series of slides.

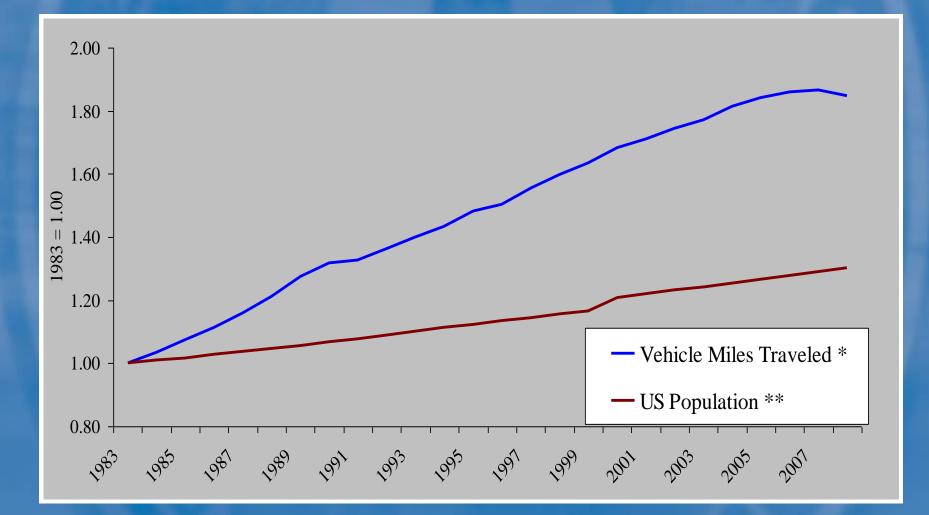
Where you put the School Matters

- Schools built close to students, in walkable neighborhoods
 - Can reduce traffic
 - Yield increase in walking and biking
 - Reduce emissions



www.epa.gov/smartgrowth/publications.htm

Vehicle travel has grown faster than population



* Source – US DOT, Traffic Volume Trends, (12 Month Moving Average, April 1983 to April 2008)
 ** Source – US Census Bureau, Annual Population Estimates

Moms Become Cab Drivers

Everything is a Drive Away

Suburban mothers spend 17 full days a year behind the wheel, more than the average parent spends dressing, bathing and feeding a child

Source: Surface Transportation Policy Project

Recreation

Home

Workplace

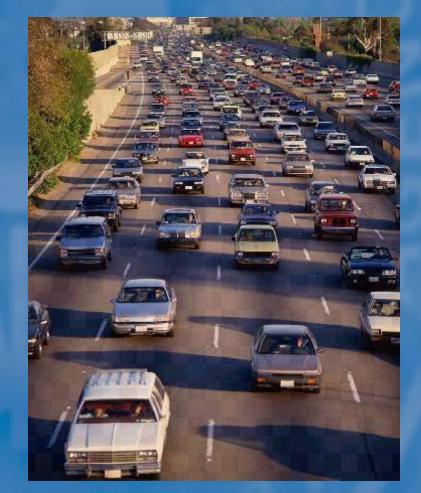
Moms Become Cab Drivers

Young children are more than five times as likely to travel with their mothers as with their fathers.*

* 2001 National Household Travel Survey

Implications for Household Budgets

- Transportation costs
 account for 19 % of all
 household expenses. *
- Most families spend more on driving than on health care, education, or food.



Implications for Household Budgets

A HEAVY LOAD:

The Combined Housing and Transportation Burdens of Working Families CENTER FOR HOUSING POLICY October 2006

Health Implications

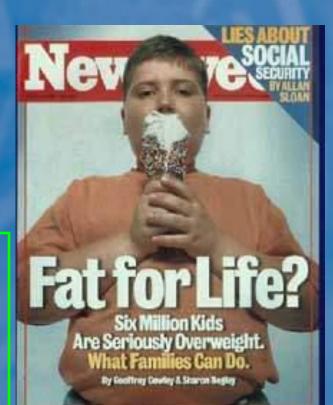
- The percentage of overweight children, aged 6 to 19 years, has doubled in the United States since 1968
- One in three children in the United States is now overweight

Source: Journal of Occupational and Environmental Medicine 2002

Health Impacts --Physical Activity

Big schools on edge of town

- Trip distances
- ↑ vehicle trips
- ↓ walking





Richard Jackson, MD, MPH, Center for Disease Control

American Academy of Pediatrics (2009) Policy Statement: The Built Environment: Designing Communities to Promote Physical Activity in Children

- "An estimated 32% of American children are overweight, and physical inactivity contributes to this high prevalence of overweight."
- "The most universal opportunity for incidental physical activity among children is in getting to and from school."
- "Factors such as school location have played a significant role in the decreased rates of walking to school, and changes in policy may help to increase the number of children who are able to walk to school."

Implications for student performance

- Smaller schools are better for students:
 - educationoutcomes
 - social involvement
 - behavior
 - attendance rates
 - dropout rates

 All this "is particularly true for disadvantaged students, who perform far differently in small schools..."*

Raywid, Mary Anne; *Small Schools: A Reform That Works*; Educational Leadership, December 1997/January 1998, Volume **55** | Number **4**; Pages 34-39.

REPORT FROM THE NATIONAL SUMMIT ON SCHOOL DESIGN

A RESOURCE FOR EDUCATORS AND DESIGNERS

Convened by the American Architectural Foundation and KnowledgeWorks Foundation



Recommendations: -- Smaller schools -- Schools that are centers of the communities they serve.

Schools for Successful Communities:

An Element of Smart Growth

11

Annual Bases | high-based Press

The summer of the local division of the loca

State Solutions

- Pennsylvania policy now makes renovation easier.
- Maryland's School Construction Program favors renovating versus constructing new schools.

Renovate or Replace?

The case for restoring and reusing older school buildings

The Pennsylvania Department of Education The Pennsylvania School Boards Association The Pennsylvania Historic Schools Task Force AIA Pennsylvania, A Society of The American Institute of Architects

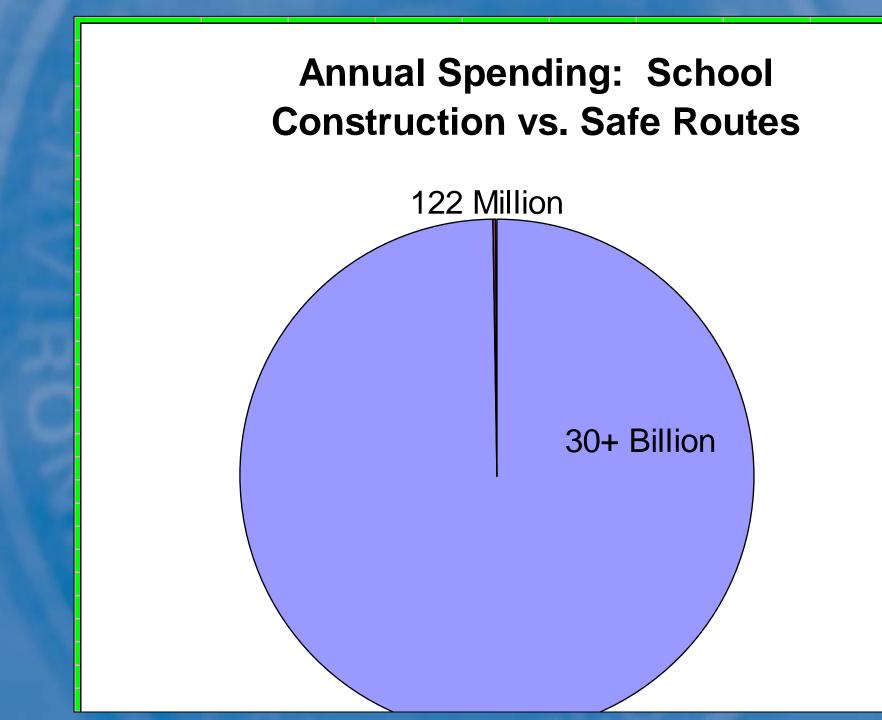
http://www.saveourlandsaveourtowns.org/

Pottstown Middle School Built 1932 / Renovated 2000 Hayes Large / McKissick Architects

Good News: Safe Routes to School

no GAS REQUIRED

Image courtesy of: www.saferoutesinfo.org





Postcard from the 1920's This school went from this to...





Images provided courtesy of Ankeny Kell Architects

...to this.

Infant day care





Some Important Characteristics:

The compact, multi-story building fits seamlessly into the community

Restoration of the school has had a positive effect on the surrounding neighborhood

Attended by residents of all ages, the new facility is a hub of community life

Only 8 of over 300 students ride the bus



Former Stapleton Airport, Denver

- 7.3 square miles
- 12,000 homes and apartments
- 3 million sq. ft. of retail space, 10 million sq. ft. of office space

Westerly Creek Elementary School

Odyssey Charter School



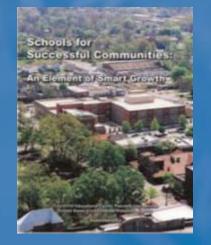


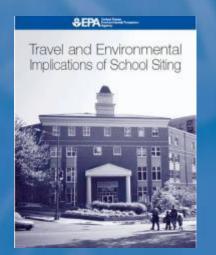


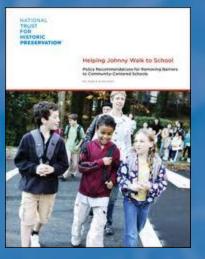


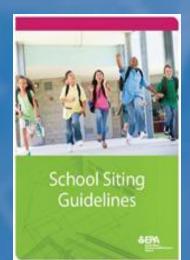
EPA and School Siting

- Research effect of urban form/location on school travel
- Grant to NTHP and 21st Century School Fund
 - Work on state policies in 6 states
- Energy Independence and Security Act of 2007:
 - Directed EPA to create voluntary school siting guidelines
 - Helps states, tribes, communities, school districts, parents, and teachers consider environmental factors when selecting locations
- Guideline implementation project begins summer 2012
 - OSC leading technical assistance to Billings, MT









EPA Voluntary School Siting Guidelines: Energy Independence and Security Act of 2007 Sec. 502. Model Guidelines for Siting of School Facilities.

Not later than 18 months after the date of enactment of this section, the Administrator, in consultation with the Secretary of Education and the Secretary of Health and Human Services, shall issue voluntary school site selection guidelines that account for—

(1) the special vulnerability of children to hazardous substances or pollution exposures in any case in which the potential for contamination at a potential school site exists;

(2) modes of transportation available to students and staff;

- (3) the efficient use of energy; and
- (4) the potential use of a school at the site as an emergency shelter.

Stakeholder Process & Timeline

- December 2008 thru June 2009, EPA developed draft guidelines
- July 2009 -- Outside stakeholder group convened under Children's Health Protection Advisory Committee (CHPAC)
- April 7, 2010 CHPAC letter to the Administrator transmitting School Siting Task Group (SSTG) report
- November 17, 2010 90 day public comment period
 - Received public comments Spring 2011
 - Incorporated and processed comments Spring and Summer 2011
- Final guidelines released Fall 2011

Public health as the focus of equity and community in school siting decision making

- Top aim of the guidelines: Give communities a wide variety of tools to help them consider environmental impacts of school siting;
- Public health considerations come from a variety of sources from the site itself to its location to the impact of public investments in schools on communities;
- From a sustainable community perspective, there is no tolerance for schools being built on contaminated sites.

EPA Voluntary School Siting Guidelines http://www.epa.gov/schools/siting/index.html

Home Page

Basic Information

How to Navigate the Guidelines

Frequent Questions

Related Resources

Glossary

View and Print the Guidelines On this page, you can access the full School Siting Guidelines and individual sections of the guidelines. You will need the free Adobe Reader to view some of the files on this page. See EPA's PDF page to learn more. Within the PDF of the entire School Siting Guidelines, sections are cross linked to each other so you can easily navigate through the document. Each section is also available in separate PDFs to facilitate printing individual sections.

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Entire Guidelines (PDF) (152 pp, 2.45M, About PDF)

- 1. About the School Siting Guidelines (PDF) (12 pp, 293K)
- Overview of the School Siting Guidelines (PDF) (6 pp, 418K)
 - o Exhibit 1: Overview of the Siting Guidelines (PDF) (1 p, 284K)
- 3. Meaningful Public Involvement (PDF) (14 pp, 358K)
 - Exhibit 2: Meaningful Public Involvement Points and Opportunities (PDF) (7 pp. 161K)
- Environmental Siting Criteria Considerations (PDF) (32 pp, 1.05M)



School Siting Guidelines

- o Exhibit 4: Desirable Attributes of Candidate Locations (PDF) (3 pp. 188K) View and Print the guidelines
- Exhibit 5: Factors Influencing Exposures and Potential Risks (PDF) (3 pp, 163K)
- Exhibit 6: Screening Potential Environmental, Public Health and Safety Hazards (PDF) (12 pp. 284K)
- Environmental Review Process (PDF) (30 pp, 655K)
 - Exhibit 7: Stages of Site Review (PDF) (1 p, 204K)
 - Exhibit 8: Stage 1: Project Scoping/Initial Screen of Candidate Site (PDF) (1 p, 131K)
 - o Exhibit 9: Stage 2: Preliminary Environmental Assessment (PDF) ((1 p. 145K)
 - Exhibit 10: Stage 3: Comprehensive Environmental Review (PDF) (1 p, 151K)
 - Exhibit 11: Stage 4: Develop Site-specific Mitigation/Remediation Measures (PDF) (1 p. 160K))
 - Exhibit 12: Stage 5: Implement Remediation/Mitigation Measures (PDF) (1 p, 150K)
 - o Exhibit 13: Stage 6: Long-term Stewardship (PDF) (1 p. 135K)
- Evaluating Impacts of Nearby Sources of Air Pollution (PDF) (10 pp, 263K)
- 7. Recommendations for States and Tribes (PDF) (12 pp,270K)
- Quick Guide to Environmental Issues (PDF) (12 pp. 257K)
- Frequent Questions (PDF) (10 pp, 265K)
- 10. Glossary (PDF) (5 pp, 177K)



EPA Smart Growth & Schools: www.epa.gov/smartgrowth/schools.htm **EPA Voluntary School Siting Guidelines:** www.epa.gov/schools/siting/ **Safe Routes to School Partnership**: www.saferoutespartnership.org National Center for Safe Routes to School: www.saferoutesinfo.org National Center for Education Facilities: www.edfacilities.org/rl/index.cfm 21st Century School Fund/BEST: www.21csf.org/csf%2Dhome **National Trust for Historic Preservation**: www.nthp.org/issues/schools/index.html Council of Education Facility Planners International (CEFPI) and EPA "Schools for Successful **Communities**": www.epa.gov/smartgrowth/pdf/SmartGrowth schools Pub.pdf **UC Berkeley Center for Cities and Schools:** http://citiesandschools.berkeley.edu/

Thanks

Matthew Dalbey, PhD Dalbey.matthew@epa.gov 202.566.2860

Regina Langton Langton.regina@epa.gov 202.566.2178

Walk to School Day

Earth Day, April 22, 2008.

for inclusion on this map.

Created on Apr 11 - Updated Apr 12

***** 1 ratings - 1 comments

272 views - Public

By Alex J

A map showing the "Walking School Bus" routes for

Families should feel free to join up along the walking school bus routes. And if families south of Franklin

Caroline & Normandy "Bus Stop"

Brewster & Caroline "Bus Stop"

Leighton & Worth "Bus Stop"

Baden & Caroline "Bus Stop"

Franklin & Wire "Rally Point"



