WHEELS OF CHANGE

The Impact of Bicycles on Girls’ Education and Empowerment Outcomes in Rural Zambia

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worldbicyclerelief.org/woc
OUR IMPACT

519,578
TOTAL BICYCLES DISTRIBUTED

230,447
WORLD BICYCLE RELIEF PROGRAM BICYCLES

289,131
SOCIAL ENTERPRISE BICYCLES

2,455
MECHANICS TRAINED

BICYCLES BY SECTOR 2005-2019
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BUFFALO BICYCLE

- DURABLE ERGONOMIC SEAT
- FRONT BRAKE CONTROL
- HEAVY GAUGE STEEL TUBING
- DESIGNED FOR COMPATIBILITY WITH LOCALLY AVAILABLE SPARE PARTS
- REAR RACK CAPACITY OF 100KG
- HEAVY GAUGE SPOKES AND RIMS
- POWERFUL ALL-WEATHER COASTER BRAKE
- PUNCTURE RESISTANT LONG-WEAR TIRES
- HIGH IMPACT PEDALS WITH FORGED AXLES
WHEELS OF CHANGE

RCT METHODOLOGY

ONE YEAR STUDY
(2017-2018)

2,471 GIRLS

100 PRIMARY SCHOOLS
(Grades 5, 6, 7)

45 TREATMENT SCHOOLS

1,112 GIRLS
Received Buffalo Bicycles

55 CONTROL SCHOOLS

1,329 GIRLS
Did not receive Buffalo Bicycles

THREE DISTRICTS OF ZAMBIA
(Monze, Mazbuka, Kalomo)

13 YRS AVERAGE AGE
Of study participants

4.5 KM AVERAGE DISTANCE
Traveled to school (one way)
WHEELS OF CHANGE

EDUCATION RESULTS

ATTENDANCE
Reduced absenteeism by 28%. Girls with bicycles attended school five more days per year.

MATH SCORE
Girls with bicycles scored higher on the Mathematics assessment.

PUNCTUALITY
Increased punctuality by 66%. The bicycles reduced the days that girls arrived late by 1.45 days per week.

TRAVEL TIME
Reduced commute time by one third; a savings of over one hour per day.

DECREASED TRAVEL TIME 33%  INCREASED PUNCTUALITY 66%  REDUCED ABSENTEEISM 28%
**EMPOWERMENT RESULTS**

**LOCUS OF CONTROL**
Girls reported feeling more in control of the decisions affecting their lives.

**SELF IMAGE**
Girls ranked themselves higher academically and believed more in their potential for success in life.

**PRO-SOCIALITY**
Girls were more willing to help a friend, join local clubs and their knowledge of leadership improved.

**BARGAINING**
Girls with bicycles had access to and control over resources, and more communication with parents.

**INCOME GENERATION**
Girls with bicycles were less likely to engage in income generating activities.
Girls were 33% less likely to miss school or leave home early due to safety concerns.

Girls were 22% less likely to be whistled at or teased on their way to school.
Q&A

For further questions please contact:
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THANK YOU!