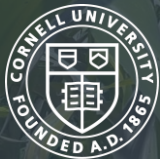


Production diversity, food security, & men's help with household tasks mediate impact of an agriculture intervention on child's dietary diversity in Tanzania

Marianne V. Santoso, Rachel Bezner Kerr, Neema Kassim,
Kelvin Mtei, Elias Mtinda, Haikael Martin, Sera L Young



actionaid

COLLABORATIVE CROP RESEARCH PROGRAM
HELPING SMALLHOLDER FARMERS FEED THEIR WORLD
THE MCKNIGHT FOUNDATION

Participatory nutrition-sensitive agroecology intervention is effective at improving child's diet in Singida, Tanzania

Crop diversity, food security, & men's help w/ household tasks mediate that impact

Participatory **nutrition-sensitive** agroecology intervention
is effective at improving child's diet in Singida, Tanzania

Crop diversity, food security, & men's help w/ household tasks
mediate that impact

Participatory nutrition-sensitive **agroecology** intervention
is effective at improving child nutrition in rural Tanzania

Crop diversity, food security and household tasks
mediate that impact

integrates ecological
processes and
principles in farm and
food system
management

Participatory

Participants as partners

Ensure solutions are relevant, appropriate

is effective at improving

ecology intervention

Singida, Tanzania

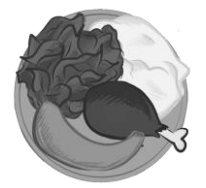
Crop diversity, food security, & men's help w/ household tasks mediate that impact

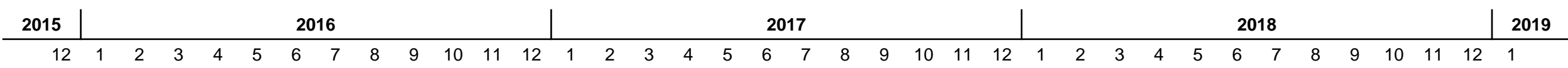
Participatory nutrition-sensitive agroecology **intervention**
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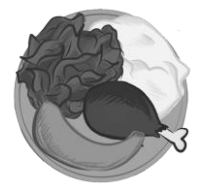
2015 | 2016 | 2017 | 2018 | 2019

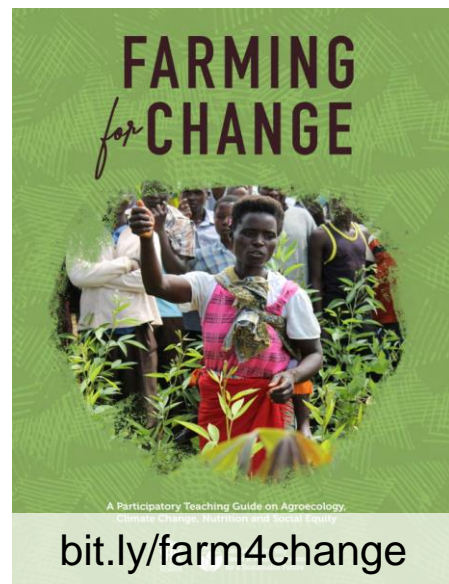
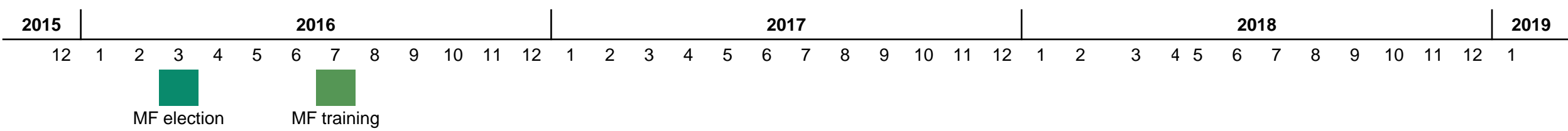
12 1 2 3 4 5 6 7 8 9 10 11 12 | 1 2 3 4 5 6 7 8 9 10 11 12 | 1 2 3 4 5 6 7 8 9 10 11 12 | 1





MF election







MF election



MF training



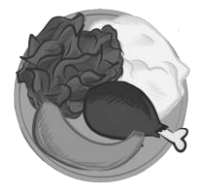
Seeds

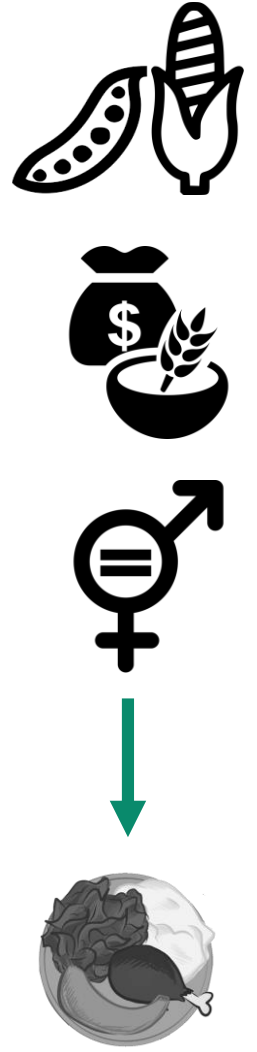
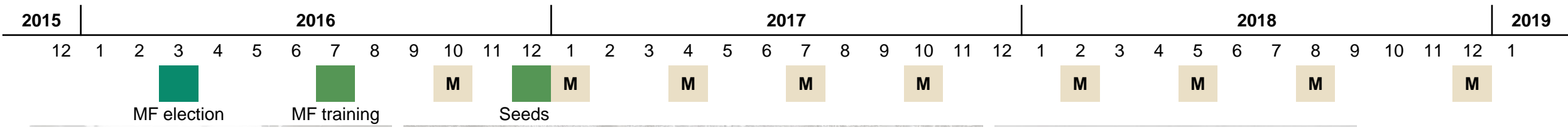


1 male and 1 female mentor farmers elected in each village



Integrated curriculum on agriculture, nutrition, and genders





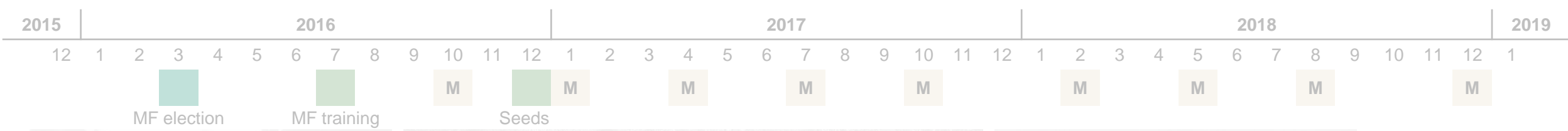


There are people doing things I didn't expect, for example, we saw men carrying children on their backs to the clinic. It was a surprise, because here you can't find a man carrying a child on his back. Maybe when he uses a bicycle, but you don't find him carrying a baby on his back walking to the clinic.

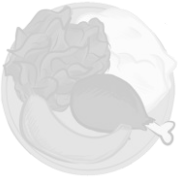
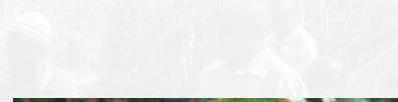
[MF, female, Jul 2016]

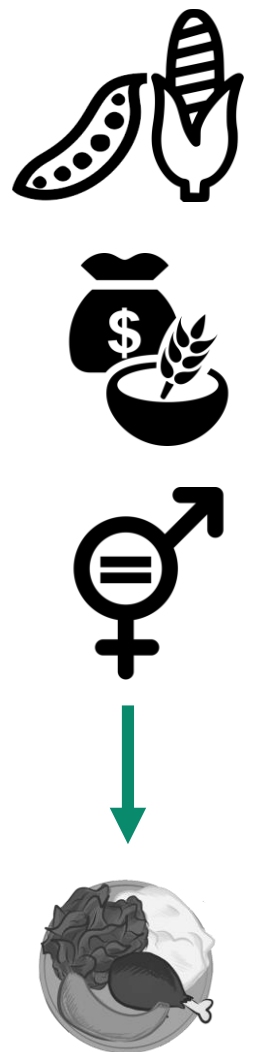
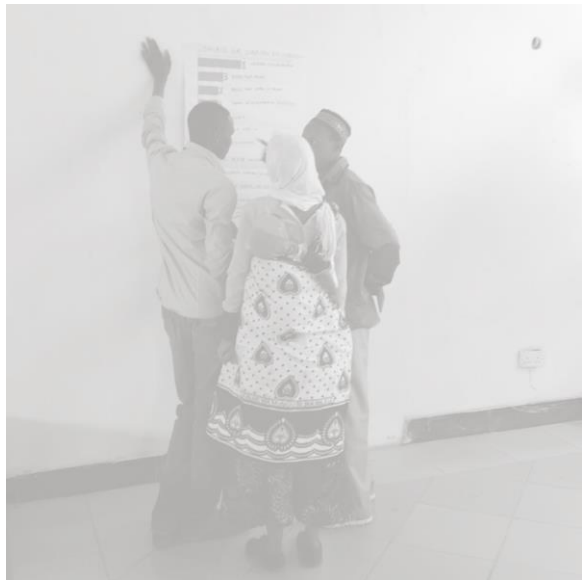
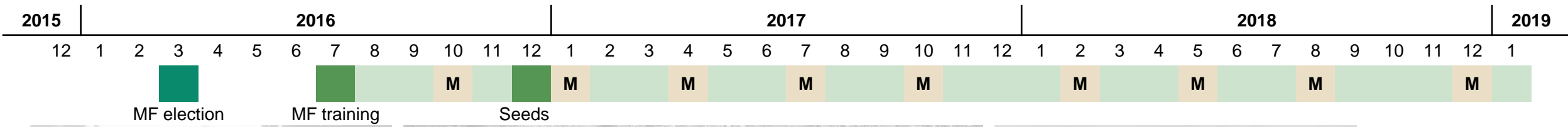
These things they are saying about gender, we all know from before. So many people have told us to do these things. But I just always see it as not my culture. When I see the farmers in Malawi helping each other, I see they are doing well. I decided maybe I can try.

[MF, male, Oct 2018]



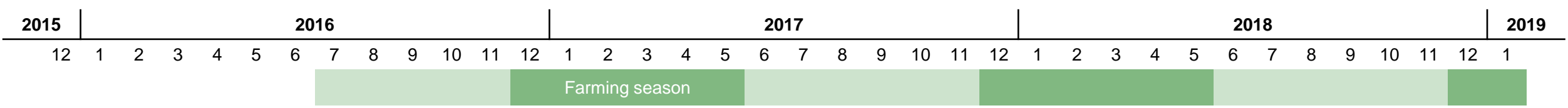
1 male and 1 female mentor farmer elected in each village

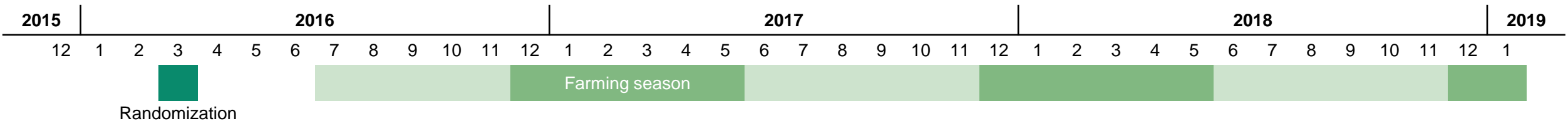


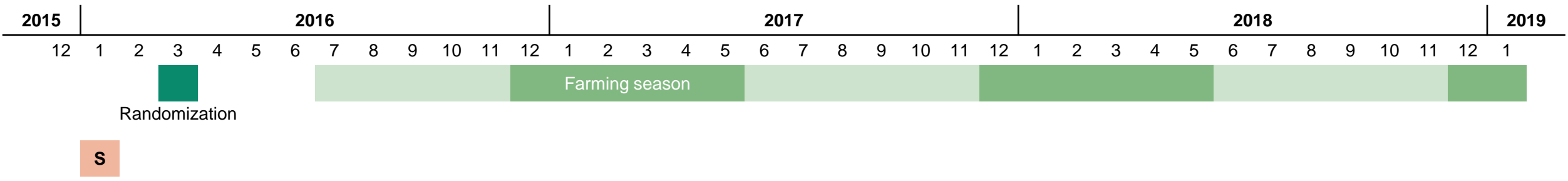


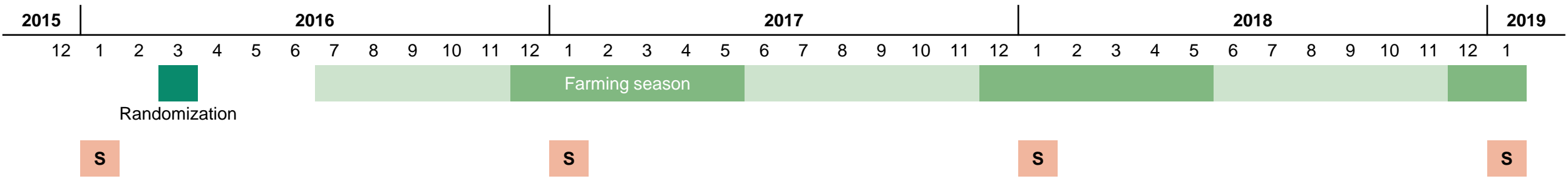
Participatory nutrition-sensitive agroecology intervention
is **effective at improving child's diet in Singida, Tanzania**

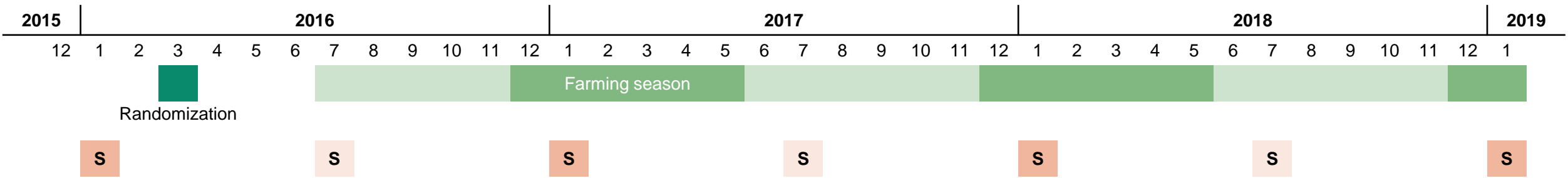
Crop diversity, food security, & men's help w/ household tasks
mediate that impact









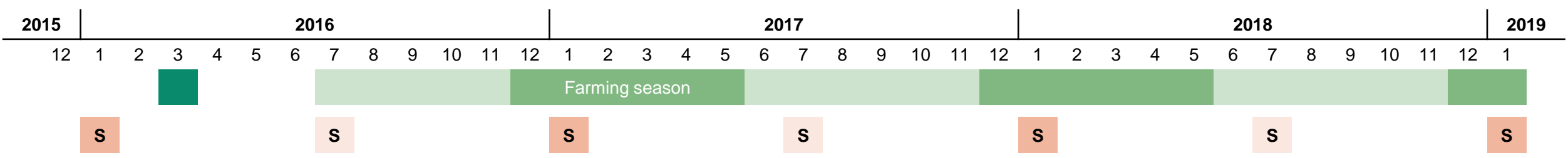


Intention-to-treat

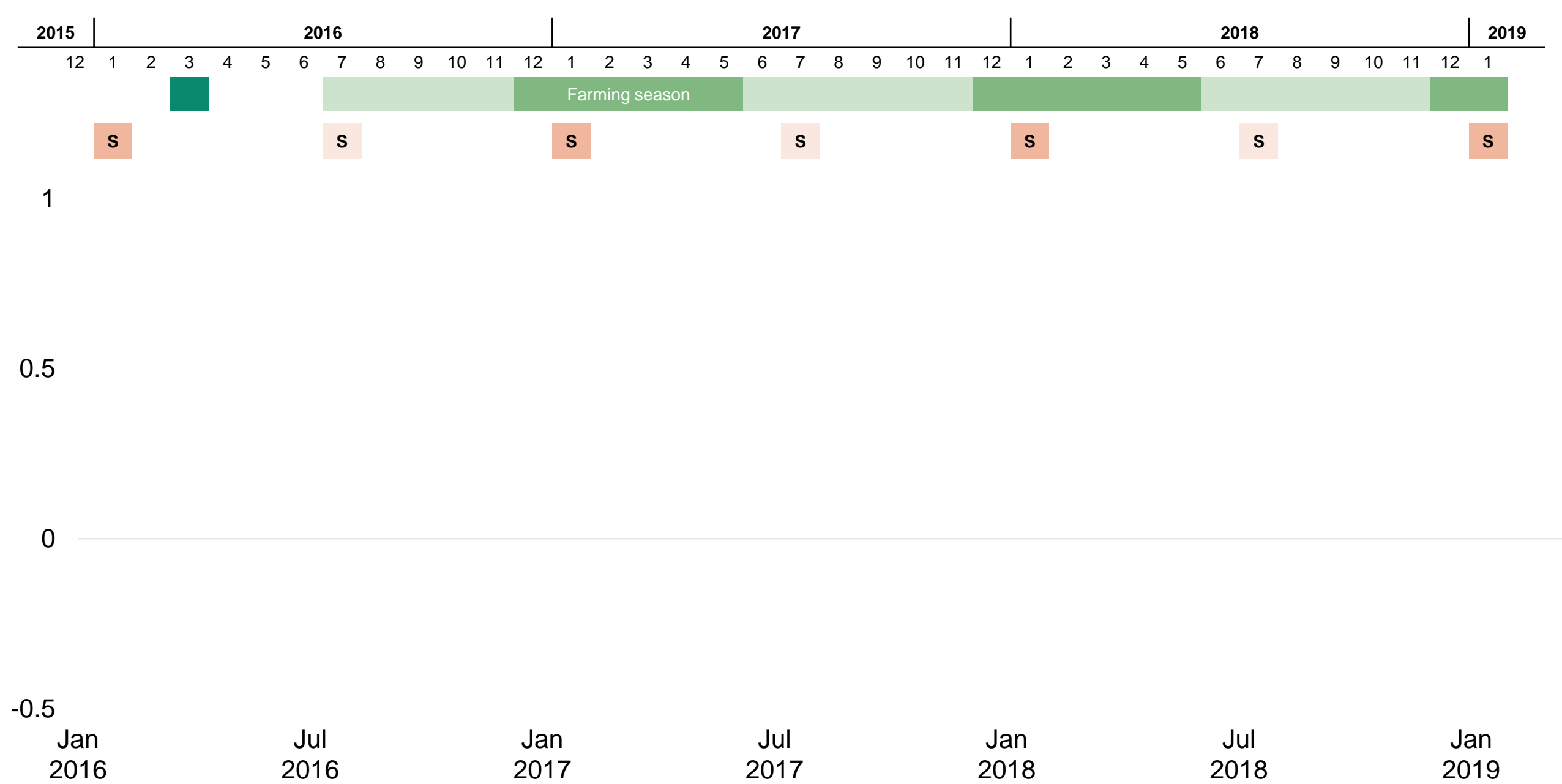
DID; fixed effects panel regression

Controls for survey round effects, village clustering

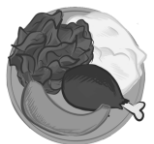
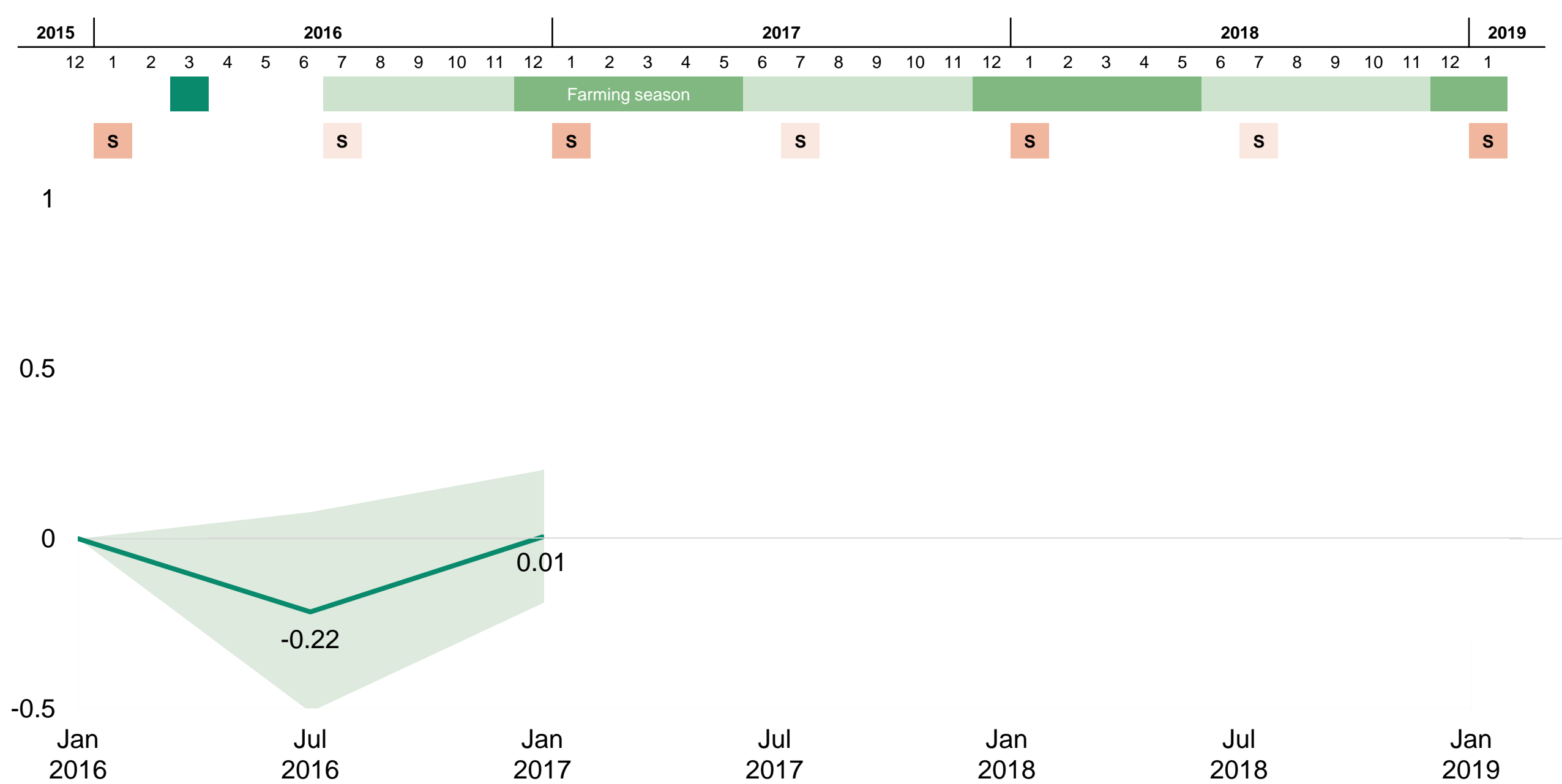




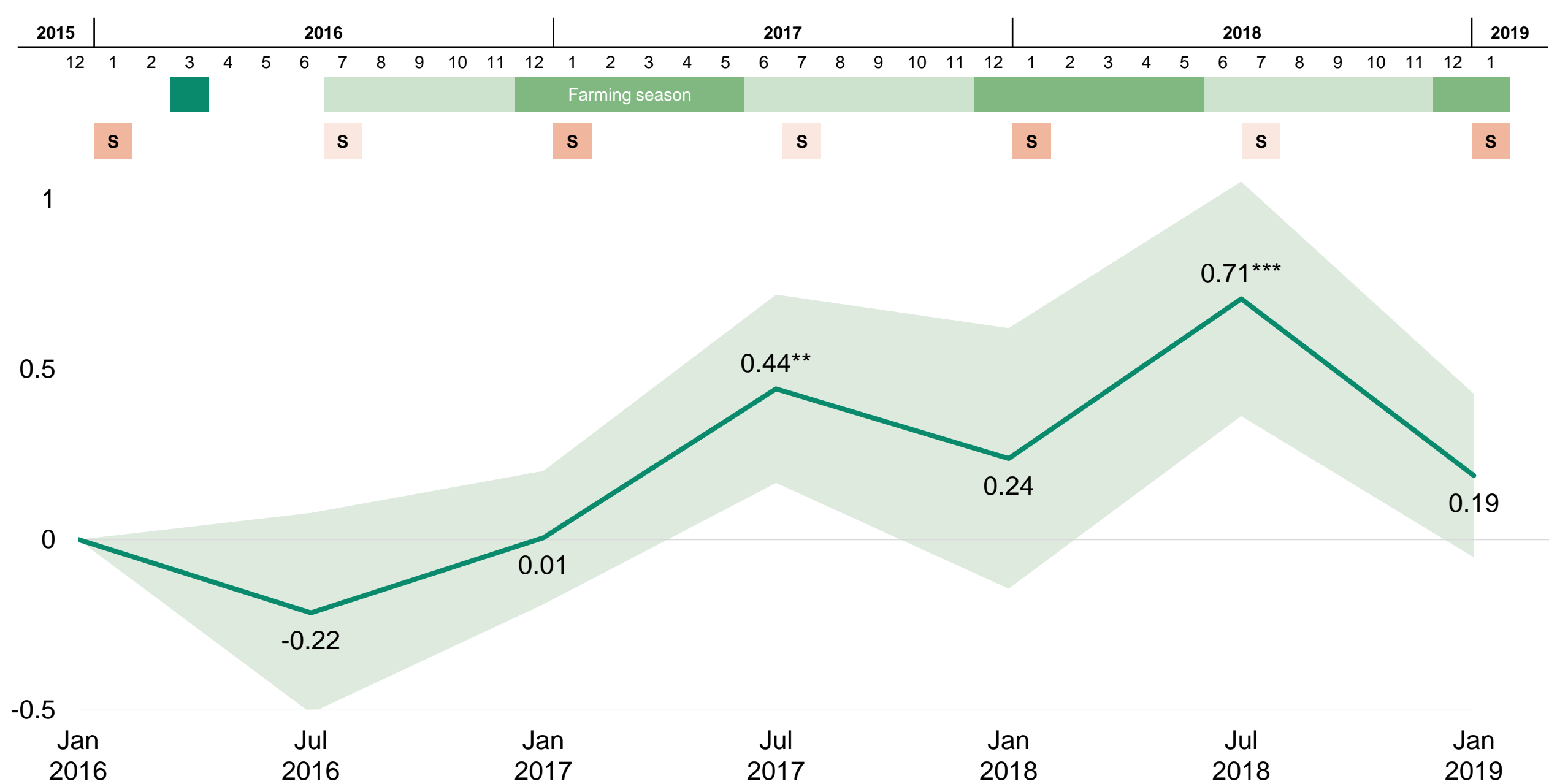
*Intervention impacts on **child's dietary diversity**,
from fixed effects panel regression. SE controls for clustering at village level.*



Intervention impacts on *child's dietary diversity*,
from fixed effects panel regression. SE controls for clustering at village level.



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*Intervention impacts on **child's dietary diversity**,
from fixed effects panel regression. SE controls for clustering at village level.*

19 pp
using botanical pesticide

0.78
crop species richness



-2.15
HH food insecurity &
access scale



11 pp
prop. of women with
probable depression

31 mins
men's help on household
chores, childcare

0.06
women's say in
income use (0-1)



0.33
child's diet diversity



Participatory nutrition-sensitive agroecology intervention is effective at improving child's diet in Singida, Tanzania

Crop diversity, food security, & men's help w/ household tasks

mediate that impact

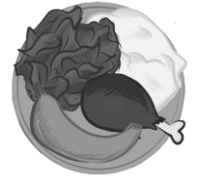
GSEM
on Stata14

Mediation analysis

int.



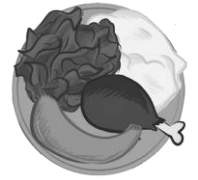
**Crop
diversity**



int.



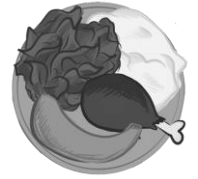
**Food
security**



int.



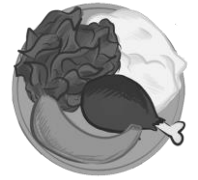
**Women's \$
dec making**



int.



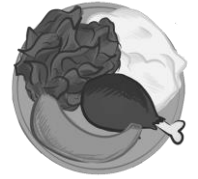
Men's help



int.



**Women's
depression**

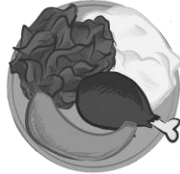


Mediation analysis

int.



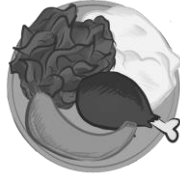
**Crop
diversity**
6.4%



int.



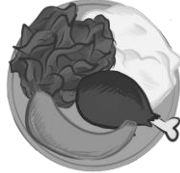
**Food
security**



int.



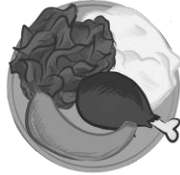
**Women's \$
dec making**



int.



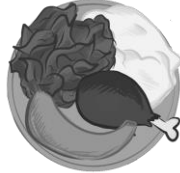
Men's help



int.



**Women's
depression**

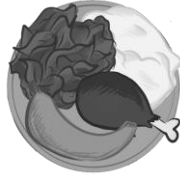


Mediation analysis

int.



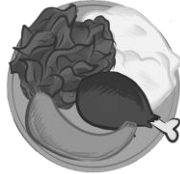
Crop diversity
6.4%



int.



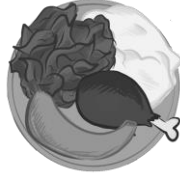
Food security
22.3%



int.



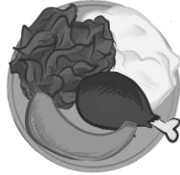
Women's \$
dec making



int.



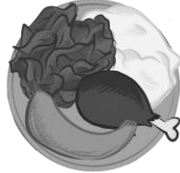
Men's help



int.



Women's
depression

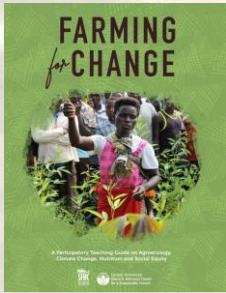


Mediation analysis




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Crop diversity, food security, & men's help w/ household tasks mediate that impact



**bit.ly/
farm4change**

 mvs@northwestern.edu

 [@mvsantoso](https://twitter.com/mvsantoso)



Questions?

























