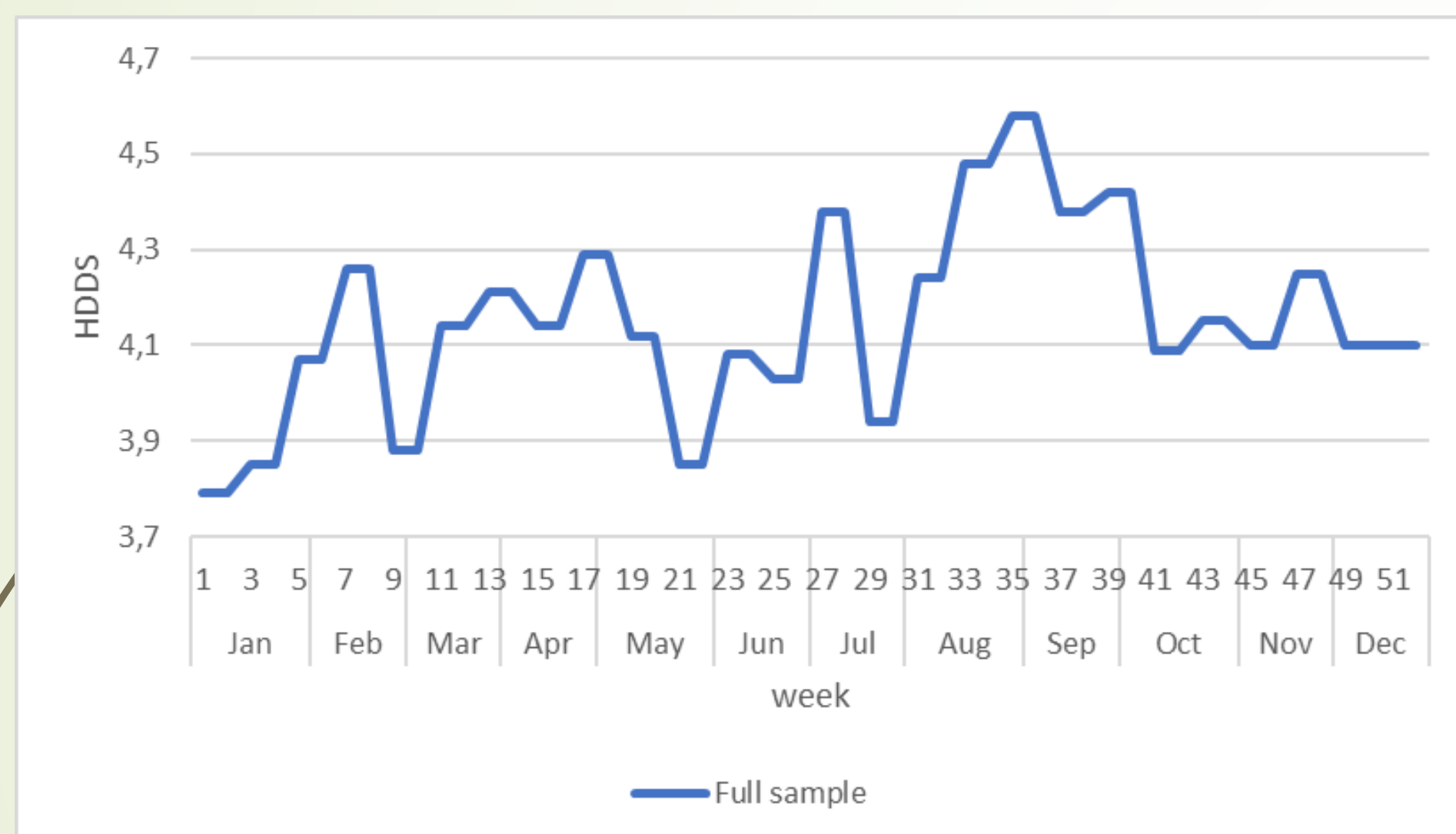


Dynamics of food availability and use in the Nyando Basin, Kenya



- Food availability in developing countries fluctuates throughout the year
- Financial diary data offer option to track this
 - Here, Household Dietary Diversity Score is used
- In addition, the impact of Climate Smart interventions on annual availability of food can be measured

Figure 1: Household Dietary Diversity Score



- How much income is required to secure a healthy whole year round?
- Under alternative assumptions:
 - All income can be spent on food
 - Only current food expenditure amount is available for food purchases
- Which nutrient constraints are most difficult to satisfy?
 - Under alternative assumptions on diet flexibility

Figure 3: Income deficit to reach adequate diet

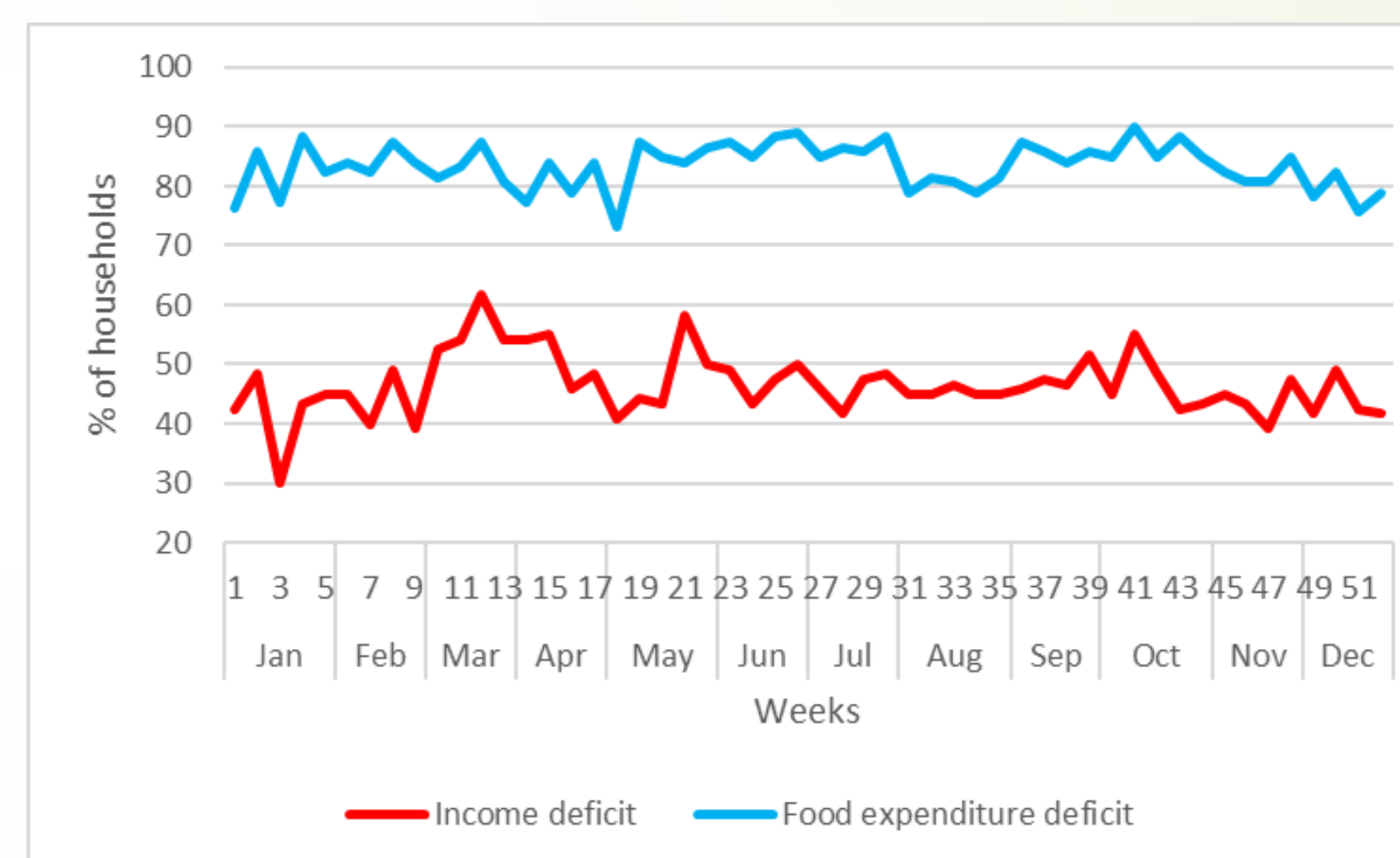
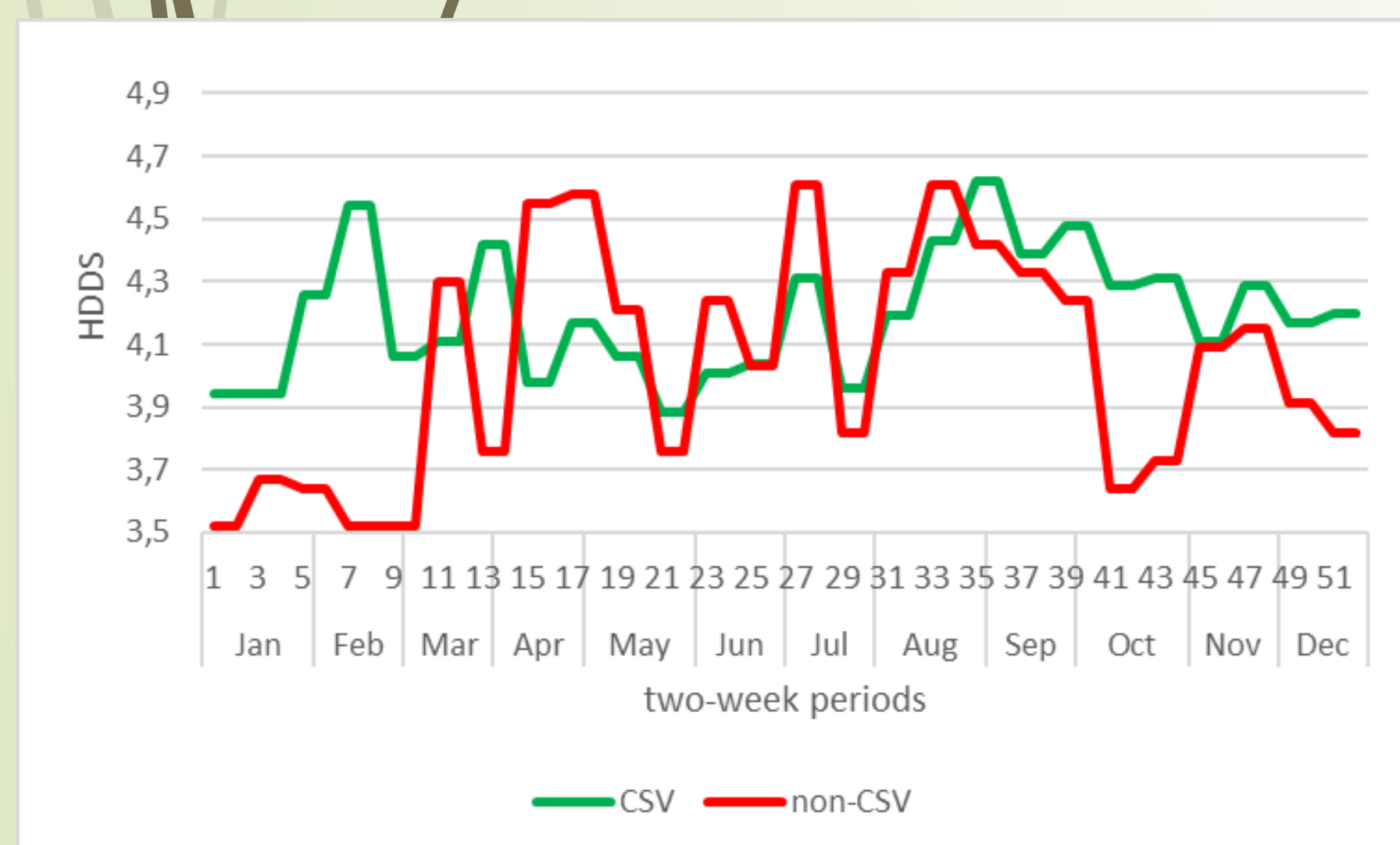
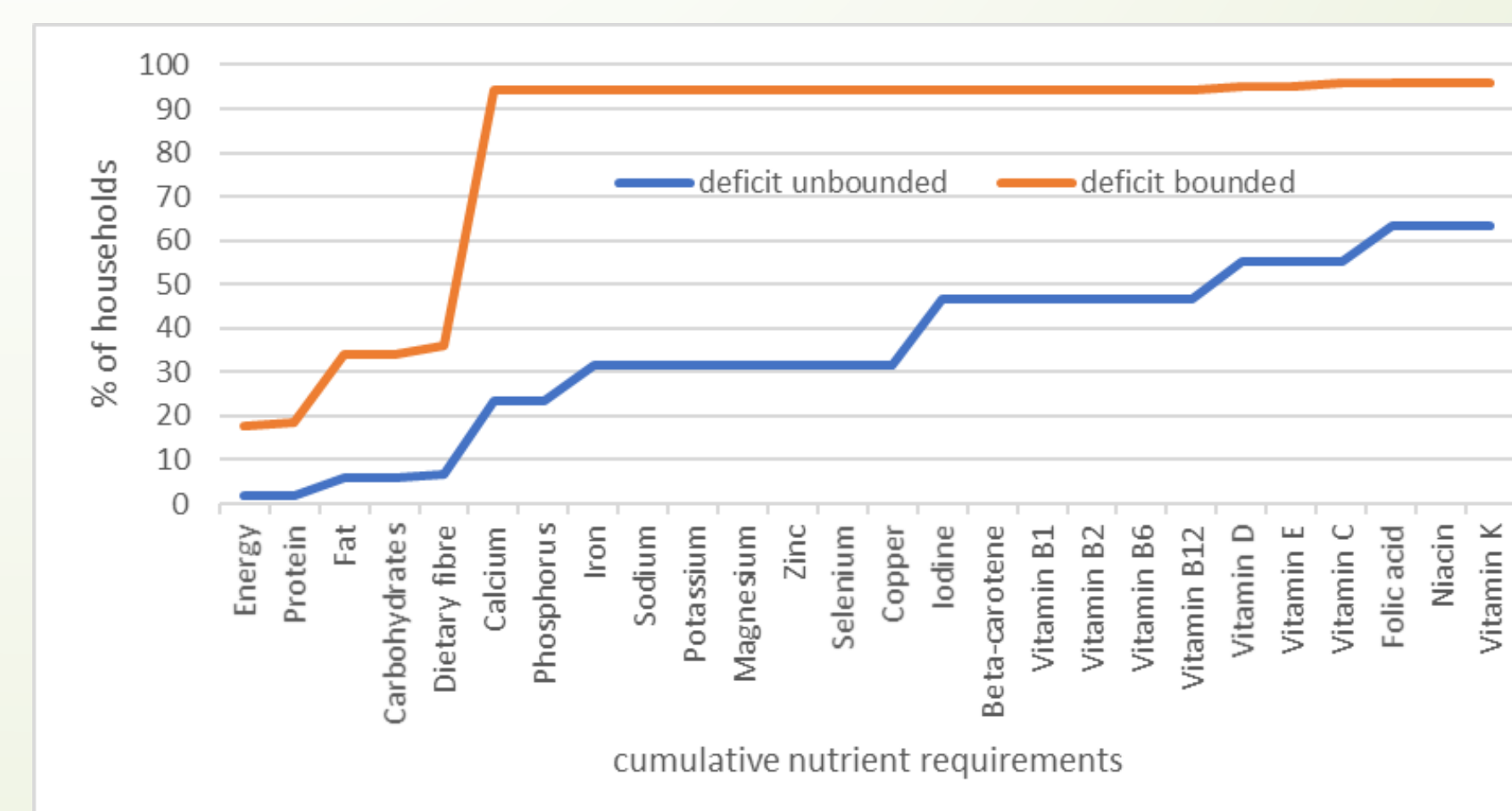


Figure 2: Household Dietary Diversity Score, Climate Smart Village vs non-Climate Smart Villages



Main findings: (1) food security is very much time dependent, (2) food security indicators are better and more stable for households in Climate Smart Villages, where interventions promoting Climate Smart Agricultural have taken place

Figure 4: Tracing deficits for increasing number of nutrients



Main findings: (1) Many households are not able to afford a healthy diet, (2) main bottlenecks are calcium, iodine, vitamin D and folic acid