Worksheet 1: Comfort Assessment

Participant	Information:
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- Name:
- Shovel Type (A), B, C, D, E, F, G, H, I, J, K, L, M, N):
- Forks Type (A) B, C, D, E, F, G, H, I, J, K, L):
- Task Description (e.g., lifting straw into a wheelbarrow):

Comfort Evaluation:

- 1. On a scale from 1 to 10, rate the overall comfort of using the shovel (1 being extremely uncomfortable, 10 being extremely comfortable).
 - Rating:
- 2. Were there any specific discomfort points while using the shovel or forks? Please describe.
- 3. Did you experience any discomfort in your hands, wrists, arms, or body? If yes, please specify.

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- 4. Were there any features of the shovel that contributed to or alleviated discomfort? (e.g., grip design, curvature)
- 5. How would you suggest improving the comfort of this shovel for your body type or specific task?

length of shaft, curvature, trandle

Worksheet 2: Control Assessment

Control Evaluation:

- 1. On a scale from 1 to 10, rate your perceived level of control while using the shovel or fork (1 being very little control, 10 being complete control).
 - Rating: 10
- 2. Did you feel that the shovel allowed you to maintain control over the load (e.g., manure and straw mixture)? Please explain.

56Me 5 hovels did allow to Main load. Size of shoul head.

Were there any instances where you felt the shovel's design hindered your control over the

3. Were there any instances where you felt the shovel's design hindered your control over the task?

Not really, other than Shovel was heavy, shaft to long and handle to write.

4. Were there specific design features of the shovel that positively or negatively impacted your control (e.g., grip shape, length)?

see question 3 for answers/responses

5. How would you recommend enhancing control when using this shovel for your body type or specific task?

better design of handle, length of short

Worksheet 3. Perceived Exertion Assessment

Perceived Exertion Evaluation:

- 1. On a scale from 1 to 10, rate your perceived level of physical exertion while using the shovel or forks (1 being very little exertion, 10 being extremely exerting).
 - Rating:
- 2. Were there specific moments during the task when you felt exertion was higher or lower? Please describe these moments.

NO

- 3. Did the shovel design affect your perceived exertion levels (positively or negatively)?
- 4. Were there any physical areas (e.g., back, arms, wrists) where you felt increased exertion or strain? Please specify.
- 5. How do you think the design of the shovel or forks could be modified to reduce perceived exertion for your body type or specific task?

Ensure that participants complete these worksheets after using each shovel or fork type for the designated tasks. This feedback will be valuable for the research in evaluating the ergonomic efficiency of the shovels and making recommendations for improvements.