LCLUC_INTER_category_analyses

Jessie Dearing

2025-08-06

This relies on the combined dfs from 1_data_import.

I. LABOR COMPARISONS————————————————————————————————————-

LABOR_3A vs. HERDMGMT_1A————————————————————

How many people undertake migrations? vs. Distance for daily herding, generally

Columns: labor_numMigrates/herdMgmt_dailyDist

labor_numMigrates	herdDist_daily	n
2	0–5 km	28
2	NA	16
3	0–5 km	14
2	6–10 km	12
3	NA	11
4	NA	11
4	0–5 km	10
5	0–5 km	9
2	16–20 km	7
2	11–15 km	6
3	6–10 km	6
4	6–10 km	6
5	NA	6
1	0–5 km	4
6	0–5 km	4
6	6–10 km	4
6	NA	4
1	6–10 km	3
1	NA	2
5	6–10 km	2
7	6–10 km	2
8	0–5 km	2
10	0–5 km	2
0	0–5 km	1
0	NA	1
1	16–20 km	1
2	21+ km	1
3	11–15 km	1
3	21+ km	1

labor_numMigrates	herdDist_daily	n
4	11–15 km	1
6	11–15 km	1
7	0–5 km	1
7	16–20 km	1
7	NA	1
8	6–10 km	1
8	NA	1
9	0–5 km	1
9	NA	1
11	0–5 km	1

LABOR_3A vs. HERDMGMT_9A

How many people undertake migrations? vs. In the past five years, have you changed your herding management practices?

Columns: labor_numMigrates/herdMgmt_past5Yrs_mgmtChanges

labor_numMigrates	herdMgmt_past5Yrs_mgmtChanges	n
2	No	50
3	No	25
2	Yes	17
4	No	16
4	Yes	12
1	No	9
5	No	9
3	Yes	8
5	Yes	8
6	Yes	7
6	No	6
7	No	4
2	NA	3
0	No	2
8	No	2
8	Yes	2
9	No	2
10	No	2
1	Yes	1
7	Yes	1
11	Yes	1

LABOR_3A vs. HERDMGMT_10A

How many people undertake migrations? vs. Do you have plans to make changes to management practices in the next five years?

Columns: labor_numMigrates/herdMgmt_next5Yrs_mgmtChanges

labor_numMigrates	herdMgmt_next5Yrs_mgmtChanges	n
2	Yes	38
2	No	31
3	Yes	17
4	Yes	17
3	No	16
5	Yes	12
4	No	11
6	Yes	10
1	Yes	6
5	No	5
1	No	4
7	No	4
8	Yes	4
6	No	3
0	No	2
9	No	2
10	Yes	2
2	NA	1
7	Yes	1
11	Yes	1

LABOR_3A vs. LIVESTOCK_2A

How many people undertake migrations? vs. Overall SFU

Columns: labor_numMigrates/livestock_2023_camel/livestock_2023_cow/livestock_2023_horse/livestock_ so on

labor_numMigrates	SFU_group	n
2	1000+ SFU	18
2	400–600 SFU	17
2	200–400 SFU	11
3	1000+ SFU	11
2	0–200 SFU	10
4	1000+ SFU	10
2	800–1000 SFU	8
3	0–200 SFU	8
3	200–400 SFU	7
2	600–800 SFU	6
3	800–1000 SFU	5
4	200–400 SFU	5
4	400–600 SFU	5
5	1000+ SFU	5
6	1000+ SFU	5
4	600–800 SFU	4
5	0–200 SFU	4
6	200–400 SFU	4
1	0–200 SFU	3
1	200–400 SFU	3
4	800–1000 SFU	3
5	200–400 SFU	3

labor_numMigrates	SFU_group	n
1	800–1000 SFU	2
5	400–600 SFU	2
5	600–800 SFU	2
6	400–600 SFU	2
8	1000+ SFU	2
0	0–200 SFU	1
0	400–600 SFU	1
1	400–600 SFU	1
1	1000+ SFU	1
10	200–400 SFU	1
10	400–600 SFU	1
11	1000+ SFU	1
3	400–600 SFU	1
3	600–800 SFU	1
4	0–200 SFU	1
5	800–1000 SFU	1
6	600–800 SFU	1
6	800–1000 SFU	1
7	0–200 SFU	1
7	200–400 SFU	1
7	400–600 SFU	1
7	600–800 SFU	1
7	1000+ SFU	1
8	0–200 SFU	1
8	600–800 SFU	1
9	200–400 SFU	1
9	400–600 SFU	1

LABOR_3A vs. LIVESTOCK_2A

Simplified version

How many people undertake migrations? vs. Overall SFU

Columns: labor_numMigrates/livestock_2023_camel/livestock_2023_cow/livestock_2023_horse/livestock_ so on

labor_numMigrates	SFU_comparison	n
2	2023: greater SFU	43
2	2023: less SFU	26
3	2023: greater SFU	18
3	2023: less SFU	15
4	2023: greater SFU	14
4	2023: less SFU	13
5	2023: greater SFU	10
5	2023: less SFU	7
6	2023: greater SFU	7
1	2023: greater SFU	6
6	2023: less SFU	6
1	2023: less SFU	4
7	2023: less SFU	3

labor_numMigrates	SFU_comparison	n
8	2023: greater SFU	3
7	2023: greater SFU	2
0	2023: greater SFU	1
0	2023: less SFU	1
10	2023: greater SFU	1
10	2023: less SFU	1
11	2023: greater SFU	1
2	2023: same SFU	1
4	2023: same SFU	1
8	2023: less SFU	1
9	2023: greater SFU	1
9	2023: less SFU	1

LABOR_4A vs. ALTLIVELIHOODS_1A

Does migration impact labor? vs. Is someone in the household doing non-herding work?

Columns: labor_migImpactLabor/altLife_nonHerdWork

labor_migImpactLabor	altLife_nonHerdWork	n
No	No	56
Yes	No	50
Yes	Yes	32
No	Yes	28
NA	No	19
NA	Yes	1
NA	NA	1

LABOR_4A vs. ALTLIVELIHOODS_3A

Does migration impact labor? vs. Number of loans taken out per year?

Columns: labor_migImpactLabor/altLife_loansPerYr

labor_migImpactLabor	altLife_loansPerYr	n
Yes	1.0	59
No	1.0	50
NA	1.0	19
No	0.0	16
No	2.0	12
Yes	2.0	12
Yes	0.0	7
No	NA	4
Yes	0.5	2
NA	2.0	2
No	0.5	1
No	3.0	1
Yes	3.0	1
Yes	NA	1

LABOR_4B vs. HERDMGMT_12

Does migration impact herding practices? vs. Condition and degree of pastoral change

Columns: labor_migImpactPract/herdMgmt_pastureCon_chg_yn/herdMgmt_pastureCon_chg_deg

labor_migImpactPract	condition_comparison	n
No	Moderately Degraded	33
Yes	Moderately Degraded	26
No	Substantially Degraded	23
No	No change	22
Yes	Substantially Degraded	21
Yes	No change	13
No	Slightly Degraded	9
NA	No change	9
Yes	Slightly Degraded	6
No	Moderately Improved	5
Yes	Moderately Improved	5
NA	Moderately Degraded	4
NA	Substantially Degraded	4
NA	Slightly Degraded	3
No	Slightly Improved	1
No	NA	1
Yes	NA	1
NA	Moderately Improved	1

LABOR_4A vs. LIVESTOCK_3A

Does migration impact labor? vs. Did you purchase supplemental fodder last year?

Columns: labor_migImpactLabor/lastYr_fodder

labor_migImpactLabor	lastYr_fodder	n
Yes	Yes	77
No	Yes	73
NA	Yes	19
No	No	9
Yes	No	5
No	NA	2
NA	No	2

LABOR_4A vs. LIVESTOCK_4A

Does migration impact labor? vs. Do you plan to purchase supplemental fodder this year?

Columns: labor_migImpactLabor/thisYr_fodder

labor_migImpactLabor	thisYr_fodder	n
Yes	Yes	80
No	Yes	77

labor_migImpactLabor	thisYr_fodder	n
NA	Yes	19
No	No	6
Yes	No	2
NA	No	2
No	NA	1

LABOR_4A vs. LIVESTOCK_6A

Does migration impact labor? vs. Has your herd size changed over the last five years?

Columns: labor_migImpactLabor/past5yrs_herdsize

labor_migImpactLabor	past5yrs_herdsize	n
Yes	Increase	39
No	Increase	36
No	Decrease	31
Yes	Decrease	27
No	The same	16
Yes	The same	16
NA	Increase	10
NA	The same	6
NA	Decrease	4
No	NA	1
NA	NA	1

LABOR_4A vs. LIVESTOCK_9A

Does migration impact labor? vs. Do you have plans to substantially change the size of your herd?

Columns: labor_migImpactLabor/nextYr_herdChg

labor_migImpactLabor	plans_comparison	n
Yes	No change	42
No	No change	36
No	Yes: increase herd size	26
Yes	Yes: increase herd size	19
Yes	Yes: decrease herd size	14
No	Yes: decrease herd size	12
NA	No change	10
No	Yes: maintain herd size	8
Yes	Yes: maintain herd size	4
NA	Yes: decrease herd size	4
NA	Yes: increase herd size	4
NA	Yes: maintain herd size	3
No	NA	2
Yes	NA	2
Yes	Yes: unsure of change	1

LABOR_4B vs. LIVESTOCK_9A

Does migration impact herding practices? vs. Do you have plans to substantially change the size of your herd?

Columns: labor_migImpactPract/nextYr_herdChg

labor_migImpactPract	plans_comparison	n
No	No change	43
Yes	No change	35
No	Yes: increase herd size	27
Yes	Yes: increase herd size	18
No	Yes: decrease herd size	13
Yes	Yes: decrease herd size	13
NA	No change	10
No	Yes: maintain herd size	9
NA	Yes: decrease herd size	4
NA	Yes: increase herd size	4
Yes	Yes: maintain herd size	3
NA	Yes: maintain herd size	3
No	NA	2
Yes	NA	2
Yes	Yes: unsure of change	1

LABOR_5A vs. ALTLIVELIHOODS_1A

Do you hire labor? vs. Is someone in the household doing non-herding work?

Columns: labor_hire/altLife_nonHerdWork

labor_hire	altLife_nonHerdWork	n
No	No	98
No	Yes	51
Yes	No	26
Yes	Yes	10
Yes	NA	1
NA	No	1

LABOR_5A vs. ALTLIVELIHOODS_3A

Do you hire labor? vs. Number of loans taken out per year?

Columns: labor_hire/altLife_loansPerYr

labor_hire	altLife_loansPerYr	n
No	1.0	99
Yes	1.0	28
No	2.0	21
No	0.0	19
No	NA	5
Yes	2.0	5

labor_hire	altLife_loansPerYr	n
Yes	0.0	4
No	0.5	3
No	3.0	2
NA	1.0	1

LABOR_5A vs. HERDMGMT_9A

Do you hire labor? vs. In the past five years, have you changed your herding management practices?

Columns: labor_hire/herdMgmt_past5Yrs_mgmtChanges

labor_hire	herdMgmt_past5Yrs_mgmtChanges	n
No	No	105
No	Yes	42
Yes	No	22
Yes	Yes	14
No	NA	2
Yes	NA	1
NA	Yes	1

LABOR_5A vs. HERDMGMT_10A

Do you hire labor? vs. Do you have plans to make changes to management practices in the next 5years?

Columns: labor_hire/herdMgmt_next5Yrs_mgmtChanges

labor_hire	herdMgmt_next5Yrs_mgmtChanges	n
No	Yes	82
No	No	66
Yes	Yes	25
Yes	No	12
No	NA	1
NA	Yes	1

LABOR_5A vs. LIVESTOCK_5A

Do you hire labor? vs. Have you noticed any long term shifts in vegetation/forage?

Columns: labor_hire/vegShifts_yn/vegShifts_quanQual

labor_hire	condition_comparison	n
No	Yes: Both	108
Yes	Yes: Both	33
No	Yes: Quantity	20
No	No change	14
No	Yes: Quality	6

labor_hire	condition_comparison	n
Yes	Yes: Quantity	3
No	Unclear	1
Yes	Yes: Quality	1
NA	Yes: Both	1

LABOR_5A vs. LIVESTOCK_6A

Do you hire labor? vs. Has your herd size changed over the last five years?

Columns: labor_hire/past5yrs_herdsize

labor_hire	past5yrs_herdsize	n
No	Increase	68
No	Decrease	51
No	The same	28
Yes	Increase	17
Yes	Decrease	11
Yes	The same	9
No	NA	2
NA	The same	1

LABOR_5A vs. LIVESTOCK_9A

Do you hire labor? vs. Do you have plans to substantially change the size of your herd?

Columns: labor_hire/nextYr_herdChg

labor_hire	plans_comparison	n
No	No change	72
No	Yes: increase herd size	45
No	Yes: decrease herd size	19
Yes	No change	15
Yes	Yes: decrease herd size	11
No	Yes: maintain herd size	9
Yes	Yes: maintain herd size	6
Yes	Yes: increase herd size	4
No	NA	3
No	Yes: unsure of change	1
Yes	NA	1
NA	No change	1

II. ALTERNATIVE LIVELIHOOD COMPARISONS

ALTLIVELIHOODS_1A vs. LIVESTOCK_2A

Is someone in the household doing non-herding work? vs. OVERALL SFU.

Columns: altLife_nonHerdWork/livestock_2023_camel/livestock_2023_cow/livestock_2023_horse/livestock so on

altLife_nonHerdWork	SFU_group	n
no	1000+ SFU	41
no	200–400 SFU	22
no	400–600 SFU	20
no	0–200 SFU	19
yes	200–400 SFU	14
yes	1000+ SFU	13
no	800–1000 SFU	12
yes	400–600 SFU	12
no	600–800 SFU	11
yes	0–200 SFU	9
yes	800–1000 SFU	8
yes	600–800 SFU	5
NA	0–200 SFU	1

ALTLIVELIHOODS_1A vs. LIVESTOCK_6A

Is someone in the household doing non-herding work? vs. Has your herd size changed over the last five years?

Columns: altLife_nonHerdWork/past5yrs_herdsize

altLife_nonHerdWork	past5yrs_herdsize	n
No	Increase	55
No	Decrease	44
Yes	Increase	30
No	The same	24
Yes	Decrease	17
Yes	The same	14
No	NA	2
NA	Decrease	1

ALTLIVELIHOODS_1A vs. LIVESTOCK_9A

Is someone in the household doing non-herding work? vs. Do you have plans to substantially change the size of your herd?

Columns: altLife_nonHerdWork/nextYr_herdChg

altLife_nonHerdWork	plans_comparison	n
No	No change	65
No	Yes: decrease herd size	25
No	Yes: increase herd size	25
Yes	Yes: increase herd size	24
Yes	No change	23
No	Yes: maintain herd size	9
Yes	Yes: decrease herd size	5

altLife_nonHerdWork	plans_comparison	n
Yes	Yes: maintain herd size	5
Yes	NA	3
No	NA	1
Yes	Yes: unsure of change	1
NA	Yes: maintain herd size	1

ALTLIVELIHOODS_3A vs. HERDMGMT_9A

Number of loans taken out per year? vs. In the past five years, have you changed your herding management practices?

Columns: altLife_loansPerYr/herdMgmt_past5Yrs_mgmtChanges

herdMgmt_past5Yrs_mgmtChanges	altLife_loansPerYr	n
No	1.0	87
Yes	1.0	40
No	2.0	17
No	0.0	16
Yes	2.0	9
Yes	0.0	5
No	NA	4
No	3.0	2
Yes	0.5	2
NA	0.0	2
No	0.5	1
Yes	NA	1
NA	1.0	1

ALTLIVELIHOODS_3A vs. LIVESTOCK_3A

Number of loans taken out per year? vs. Did you purchase supplemental fodder last year?

Columns: altLife_loansPerYr/lastYr_fodder

lastYr_fodder	altLife_loansPerYr	n
Yes	1.0	121
Yes	2.0	23
Yes	0.0	18
No	0.0	5
No	1.0	5
No	2.0	3
Yes	0.5	3
Yes	NA	3
No	NA	2
NA	1.0	2
No	3.0	1
Yes	3.0	1

ALTLIVELIHOODS_3A vs. LIVESTOCK_4A

Number of loans taken out per year? vs. Do you plan to purchase supplemental fodder this year?

Columns: altLife_loansPerYr/thisYr_fodder

thisYr_fodder	altLife_loansPerYr	n
Yes	1.0	122
Yes	2.0	25
Yes	0.0	20
No	1.0	5
Yes	NA	4
No	0.0	3
Yes	0.5	3
Yes	3.0	2
No	2.0	1
No	NA	1
NA	1.0	1

ALTLIVELIHOODS_3A vs. LIVESTOCK_6A

Number of loans taken out per year? vs. Has your herd size changed over the last five years?

Columns: altLife_loansPerYr/past5yrs_herdsize

past5yrs_herdsize	altLife_loansPerYr	n
Increase	1.0	58
Decrease	1.0	41
The same	1.0	27
Decrease	2.0	11
Increase	2.0	11
Increase	0.0	10
Decrease	0.0	9
Increase	NA	4
The same	0.0	4
The same	2.0	4
The same	0.5	2
NA	1.0	2
Decrease	3.0	1
Increase	0.5	1
Increase	3.0	1
The same	NA	1

III. HERD MANAGEMENT COMPARISONS

HERDMGMT_1A vs. LIVESTOCK_5A

Distance for daily herding, generally vs. Have you noticed any long term shifts in vegetation/forage?

Columns: herdMgmt_dailyDist/vegShifts_yn/vegShifts_quanQual

condition_comparison	herdDist_daily	n
Yes: Both	0–5 km	61
Yes: Both	NA	36
Yes: Both	6–10 km	28
Yes: Quantity	0–5 km	10
No change	NA	8
Yes: Both	11–15 km	8
Yes: Both	16–20 km	7
Yes: Quantity	NA	7
Yes: Quantity	6–10 km	5
No change	0–5 km	3
Yes: Quality	0–5 km	3
Yes: Both	21+ km	2
Yes: Quality	6–10 km	2
Yes: Quality	NA	2
No change	6–10 km	1
No change	11–15 km	1
No change	16–20 km	1
Unclear	NA	1
Yes: Quantity	16–20 km	1

HERDMGMT_9A vs. LIVESTOCK_2A

In the past five years, have you changed your herding management practices? vs. OVERALL SFU

Columns: herdMgmt_past5Yrs_mgmtChanges/livestock_2023_camel/livestock_2023_cow/livestock_2023_ so on

herdMgmt_past5Yrs_mgmtChanges	SFU_group	n
no	1000+ SFU	31
no	200–400 SFU	29
no	0–200 SFU	23
no	400–600 SFU	22
yes	1000+ SFU	22
no	800–1000 SFU	14
yes	400–600 SFU	10
no	600–800 SFU	8
yes	600–800 SFU	8
yes	200–400 SFU	7
yes	0–200 SFU	5
yes	800–1000 SFU	5
NA	0–200 SFU	1
NA	800–1000 SFU	1
NA	1000+ SFU	1

HERDMGMT_9A vs. LIVESTOCK_2D

In the past five years, have you changed your herding management practices? vs. SFU delta change

Columns: herdMgmt_past5Yrs_mgmtChanges/livestock_2023_camel/livestock_2023_cow/livestock_2023_ so on

herdMgmt_past5Yrs_mgmtChanges	SFU_delta	n
no	0–200 SFU	33
no	-200-0 SFU	22
no	-400-200 SFU	18
no	200–400 SFU	17
yes	0–200 SFU	14
no	400–600 SFU	13
yes	-200-0 SFU	8
yes	200–400 SFU	8
yes	-400-200 SFU	6
yes	400–600 SFU	6
no	-600-400 SFU	5
no	1000+ SFU	5
no	-2000-1000 SFU	4
no	-1000-800 SFU	3
no	800–1000 SFU	3
yes	-600-400 SFU	3
yes	800–1000 SFU	3
yes	-2000-1000 SFU	2
yes	-1000-800 SFU	2
yes	600–800 SFU	2
yes	1000+ SFU	2
NA	0–200 SFU	2
no	-4000-3000 SFU	1
no	-800-600 SFU	1
no	600–800 SFU	1
no	NA	1
yes	-800-600 SFU	1
NA	-800-600 SFU	1

HERDMGMT_9A vs. LIVESTOCK_2E

In the past five years, have you changed your herding management practices? vs. SFU delta change, simplified

Columns: herdMgmt_past5Yrs_mgmtChanges/livestock_2023_camel/livestock_2023_cow/livestock_2023_ so on

herdMgmt_past5Yrs_mgmtChanges	SFU_comparison	n
no	2023: greater SFU	71
no	2023: less SFU	55
yes	2023: greater SFU	35
yes	2023: less SFU	22
no	2023: same SFU	1
NA	2023: greater SFU	1
NA	2023: less SFU	1
NA	2023: same SFU	1

HERDMGMT_9A vs. LIVESTOCK_5A

In the past five years, have you changed your herding management practices? vs. Have you noticed any long term shifts in vegetation/forage?

Columns: herdMgmt_past5Yrs_mgmtChanges/vegShifts_yn/vegShifts_quanQual

condition_comparison	herdMgmt_past5Yrs_mgmtChanges	n
Yes: Both	No	92
Yes: Both	Yes	49
Yes: Quantity	No	18
No change	No	13
Yes: Quantity	Yes	5
Yes: Quality	No	4
Yes: Quality	Yes	3
No change	NA	1
Unclear	NA	1
Yes: Both	NA	1

HERDMGMT_9A vs. LIVESTOCK_6A

In the past five years, have you changed your herding management practices? vs. Has your herd size changed over the last five years?

Columns: herdMgmt_past5Yrs_mgmtChanges/past5yrs_herdsize

herdMgmt_past5Yrs_mgmtChanges	past5yrs_herdsize	n
No	Increase	59
No	Decrease	40
No	The same	27
Yes	Increase	24
Yes	Decrease	22
Yes	The same	11
NA	Increase	2
No	NA	1
NA	NA	1

HERDMGMT_11A vs. LIVESTOCK_6A

Are there changes you want to make to your management practices but can't? vs. Has your herd size changed over the last five years?

Columns: herdMgmt_whatChanges_cantMake/past5yrs_herdsize

herdMgmt_whatChanges_cantMake	past5yrs_herdsize	n
Yes	Increase	61
Yes	Decrease	38
No	Decrease	24
No	Increase	24
Yes	The same	24
No	The same	14

herdMgmt_whatChanges_cantMake	past5yrs_herdsize	n
No	NA	1
NA	NA	1

HERDMGMT_11A vs. LIVESTOCK_9A

Are there changes you want to make to your management practices but can't? vs. Do you have plans to substantially change the size of your herd?

Columns: herdMgmt_whatChanges_cantMake/nextYr_herdChg

herdMgmt_whatChanges_cantMake	nextYr_herdChg	n
Yes	Yes	70
Yes	No	53
No	No	35
No	Yes	28
NA	NA	1