Saptari outline

file name	File number
LAND	4
AGRICULTURE	5
WEM	6.2
PROCUREMENT	7

Table 1: Total Own Land Cultivated SUMMER season [4.4]

SAPTARI	Control		Treatment	
year	N	Mean	N	Mean
2017	91	0.32	22	0.61
2018	91	0.30	22	0.62
2019	84	0.16	23	0.25

RBS				
2018	105	3.74	24	5.36
2019	95	3.59	22	7.05

Table 2: Total Land Cultivated [4.8]

SAPTARI	Control		Treatment	
year	N	Mean	N	Mean
2017	91	2.53	22	4.08
2018	91	2.50	22	3.88
2019	84	2.11	23	3.02

Crop Intensity

```
## `summarise()` regrouping output by 'year', 'TreatmentControl' (override with `.groups` argument)

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```

	Control		Treatment	
year	N	Mean	N	Mean
2017	91	175	22	196
2018	91	168	22	188
2019	84	144	23	152

Irrigation

irrigated_out_of_tot_land_cult [4.9]

	Control		Treatment	
year	N	Mean	N	Mean
2017	91	2.25	22	3.25
2018	91	1.98	22	3.06
2019	84	1.87	23	2.73

Table : Time to irrigate 1 ha [6.21]

```
## `summarise()` regrouping output by 'TreatmentControl' (override with `.groups` argument)

## # A tibble: 6 x 4
## # Groups:   TreatmentControl [2]
##   TreatmentControl  year     N  Mean
##   <chr>            <int> <int> <dbl>
## 1 Control           2017    94  94.9
## 2 Control           2018    94  93.2
## 3 Control           2019    92 103.
## 4 Treatment         2017    22 124.
## 5 Treatment         2018    22 127.
## 6 Treatment         2019    23 180.
```

TreatmentControl year N Mean 1 Control 2017 94 94.9 2 Control 2018 94 93.2 3 Control 2019 92 103. 4 Treatment 2017 22 124. 5 Treatment 2018 22 127. 6 Treatment 2019 23 180.

Table 4.1: By year [5.0]

	Control			Treatment		
Year	N	mean 1 ha	Mean Total	N	mean 1 ha	Mean Total
2017	94	37.30	203.26	22	41.44	405.05
2018	94	37.30	188.38	22	40.66	342.12
2019	92	40.53	211.51	23	61.15	380.30

Table 4.2: By seasons [5.0]

	Control			Treatment		
MONSOON	N	mean 1 ha	Total	N	mean 1 ha	Total
2017	89	33	73	20	40	137
2018	90	34	53	22	39	109
2019	83	37	92	22	57	189

SUMMER						
2017	70	35	58	18	50	140
2018	62	41	66	16	46	118
2019	48	43	45	17	72	87

WINTER						
2017	88	41	91	22	41	167
2018	87	42	102	22	43	135
2019	81	44	99	22	60	141

		Control			Treatment		
Season	Year	N	mean 1 ha	Total	N	mean 1 ha	Total
Monsoon	2018	105	30.95	208.12	25	20.84	117.09
	2019	94	32.32	252.80	21	30.90	316.19
Summer	2018	33	35.09	143.55	7	22.12	111.21
	2019	38	16.50	50.61	11	13.41	84.91
Winter	2018	105	24.39	80.95	25	19.01	53.67
	2019	94	25.29	91.94	21	20.49	89.43

Irrigation Intensity

by year[4.0]

```
## # A tibble: 6 x 3
## # Groups:   TreatmentControl [2]
##   TreatmentControl  year `mean(irrigation_intens)`
##   <chr>            <dbl>                     <dbl>
## 1 Control           2017                      85.6
## 2 Control           2018                      81.7
## 3 Control           2019                      89.4
## 4 Treatment         2017                      76.8
## 5 Treatment         2018                      77.8
## 6 Treatment         2019                      89.1
```

by season [4.0]

```
## # A tibble: 18 x 4
## # Groups:   TreatmentControl, season [6]
##    TreatmentControl season   year `mean(irrigation_intens)`
##    <chr>            <chr>   <dbl>                     <dbl>
##  1 Control          Monsoon  2017                      90.9
##  2 Control          Monsoon  2018                      84.3
##  3 Control          Monsoon  2019                      90.1
##  4 Control          Summer   2017                      79.3
##  5 Control          Summer   2018                      75.5
##  6 Control          Summer   2019                      89.7
```

```
##  7 Control          Winter   2017                    85.0
##  8 Control          Winter   2018                    83.6
##  9 Control          Winter   2019                    88.5
## 10 Treatment        Monsoon  2017                    81.8
## 11 Treatment        Monsoon  2018                    77.3
## 12 Treatment        Monsoon  2019                    93.6
## 13 Treatment        Summer   2017                    72.2
## 14 Treatment        Summer   2018                    79.8
## 15 Treatment        Summer   2019                    86.9
## 16 Treatment        Winter   2017                    76.2
## 17 Treatment        Winter   2018                    76.5
## 18 Treatment        Winter   2019                    86.2
```

Frequency of households who irrigate [4.9]

df <- Land_18_19 %>% filter(irrigated_out_of_tot_land_cult>0,season!="Annual") %>% group_by(TreatmentControl,se
%>% count()

fuel use

Table :Total litres of diesel/kerosene consumed for agriculture pumps in a YEAR [7.16]

```
## # A tibble: 6 x 4
## # Groups:   TreatmentControl [2]
##   TreatmentControl  year     N liters_yearly
##   <chr>            <dbl> <dbl>         <dbl>
## 1 Control           2017    94         129.
## 2 Control           2018    94          87.4
## 3 Control           2019    92          86.7
## 4 Treatment         2017    22         202.
## 5 Treatment         2018    22         134
## 6 Treatment         2019    23         108
```

Table :# fuel use by the 'Water_extraction_mechanism'files- [6.2]

```
## `summarise()` regrouping output by 'TreatmentControl' (override with `.groups` argument)
```

```
## # A tibble: 6 x 6
## # Groups:   TreatmentControl [2]
##   TreatmentControl  year Monsoon Summer Winter  Year
##   <chr>            <int>   <dbl>  <dbl>  <dbl> <dbl>
## 1 Control           2017    48.5   29.8   26.4  95.8
## 2 Control           2018    41.5   19.0   28.7  74.6
## 3 Control           2019    44.8   29.3   67.9  98.4
## 4 Treatment         2017    36.1   42.3   49.6 116.
## 5 Treatment         2018   100.    78.6   10.7 184.
## 6 Treatment         2019    82.5   48.5   51.5 182.
```

TreatmentControl year Monsoon Summer Winter Year 1 Control 2017 48.5 29.8 26.4 95.8 2 Control 2018 41.5 19.0 28.7 74.6 3 Control 2019 44.8 29.3 67.9 98.4 4 Treatment 2017 36.1 42.3 49.6 116. 5 Treatment 2018 100. 78.6 10.7 184. 6 Treatment 2019 82.5 48.5 51.5 182.

aquaculture

```
## # A tibble: 6 x 4
## # Groups:   TreatmentControl [2]
##   TreatmentControl  year     N  Mean
##   <chr>            <int> <int> <dbl>
## 1 Control           2017    13 0.432
## 2 Control           2018    14 0.473
## 3 Control           2019    17 0.507
## 4 Treatment         2017    12 0.394
## 5 Treatment         2018    12 0.394
## 6 Treatment         2019    15 0.397
```