

First Experiment:

1. Frame Work

<i>Region</i>	Azraq Region	Hashmyahh Region
<i>Season</i>	<i>2011-2012</i>	
Triticale	0.1 ha	0.1 ha
Barley	0.1 ha	0.1 ha
<i>Season</i>	<i>2013 – 2014</i>	
Triticale	0.1 ha	0.1 ha
Barley	0.1 ha	0.1 ha

- Triticale (Syria-1), and Barley (ACSAD 176).
- 0.1 ha is the experimental unit, the total grain and straw harvested (sampling size) represents the whole 0.1 ha yield which was estimated by (ton/ ha).

2. Data Layout:

<i>Growing Season</i>	<i>Crop</i>	<i>Azraq Yield (ton/ha)</i>	<i>Hashmyahh Yield (ton/ha)</i>
2011 – 2012	Triticale	16	12
2013 – 2014	Triticale	16	13
2011- 2012	Barley	12.2	11
2013 – 2014	Barley	12	9.3

3. Data Analysis:

t- value calculated and compared with t- value tabulated for 2 samples of equal variances (Triticale yield with barley for each region separately). Thus, significance was estimated at 0.05.

Note: yield was not compared for the same crop between 2 regions, the importance is to highlight the triticale yield in comparison with barley yield for the same region separately, at least in terms of percent of increase.

Second Experiment (part of the first experiment):

1. Frame Work:

<i>Region</i>	Azraq Region	Hashmyahh Region
<i>Season</i>	<i>2011-2012</i>	
Triticale	0.1 ha	0.1 ha

- Triticale (Syria-1).
- 0.1 ha is the experimental unit, 5 random full plants (sampling size) were taken at the time of physiological maturity from the 0.1 ha before full harvesting to the lab (5 plants/0.1 ha).

- Grains for each region grounded and mixed together:

Then: 2 samples were taken to measure crude protein %, 2 samples were taken to measure crude fiber %, 2 samples were taken to measure neutral detergent fiber %, and 2 samples were taken to measure acid detergent fiber %.

- Straw for each region grounded and mixed together:

Then: 2 samples were taken to measure crude protein %, 2 samples were taken to measure crude fiber %, 2 samples were taken to measure neutral detergent fiber %, and 2 samples were taken to measure acid detergent fiber %.

2. Data Layout:

Location	Replication	Sample	CP %	CF %	NDF %	ADF %
Azraq	1	Triticale Grains	6.1	9.53	64.8	12.34
Azraq	2	Triticale Grains	6.53	9.6	64.04	12.74
Hashmyahh	1	Triticale Grains	10.5	19.61	52.25	20.93
Hashmyahh	2	Triticale Grains	10.5	19.61	52.27	21.1
Azraq	1	Triticale Straw	1.74	34.66	69.94	38.26
Azraq	2	Triticale Straw	1.74	35	70.14	38.37
Hashmyahh	1	Triticale Straw	3.35	38.05	74.36	40.71
Hashmyahh	2	Triticale Straw	3.49	38.13	74.05	41.04

3. Data Analysis:

1. t- value calculated and compared with t- value tabulated for 2 samples of equal variances (*Triticale grains in Azraq with tritcale grains in Hashmyahh for crude protein %*). Thus, significance was estimated at 0.05.
 2. t- value calculated and compared with t- value tabulated for 2 samples of equal variances (*Triticale grains in Azraq with tritcale grains in Hashmyahh for crude fiber %*). Thus, significance was estimated at 0.05.
 3. t- value calculated and compared with t- value tabulated for 2 samples of equal variances (*Triticale grains in Azraq with tritcale grains in Hashmyahh for NDF%*). Thus, significance was estimated at 0.05.
 4. t- value calculated and compared with t- value tabulated for 2 samples of equal variances (*Triticale grains in Azraq with tritcale grains in Hashmyahh for ADF %*). Thus, significance was estimated at 0.05.
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5. t- value calculated and compared with t- value tabulated for 2 samples of equal variances (*Triticale straw in Azraq with tritcale straw in Hashmyahh for crude protein %*). Thus, significance was estimated at 0.05.
 6. t- value calculated and compared with t- value tabulated for 2 samples of equal variances (*Triticale straw in Azraq with tritcale straw in Hashmyahh for crude fiber %*). Thus, significance was estimated at 0.05.
 7. t- value calculated and compared with t- value tabulated for 2 samples of equal variances (*Triticale straw in Azraq with tritcale straw in Hashmyahh for NDF %*). Thus, significance was estimated at 0.05.
 8. t- value calculated and compared with t- value tabulated for 2 samples of equal variances (*Triticale straw in Azraq with tritcale straw in Hashmyahh for ADF %*). Thus, significance was estimated at 0.05.

Note: The importance of those data is to highlight the tritcale quality in saline area (Azraq) in comparison with tritcale quality in Hashmyahh (treated waste water area), for each parameter.