

# Johematic – pipetest Figen Ltd. teststation



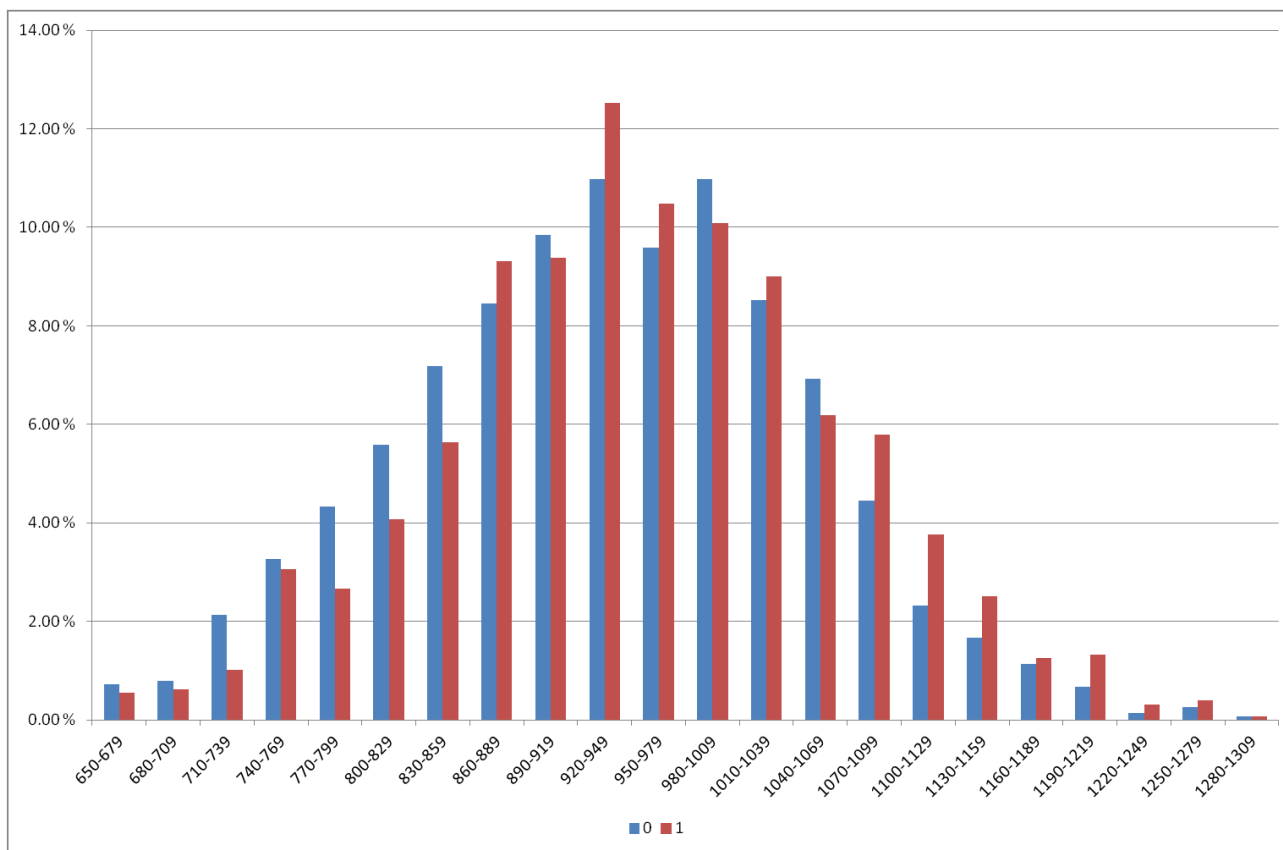
# Background

- Johex wellbeing pipe was installed in the beginning of April 2014 and it gave water to half of animals
- Growing result tracking with normal experimentation
  - 50% of pigs got treated water, 50% untreated water

# Data

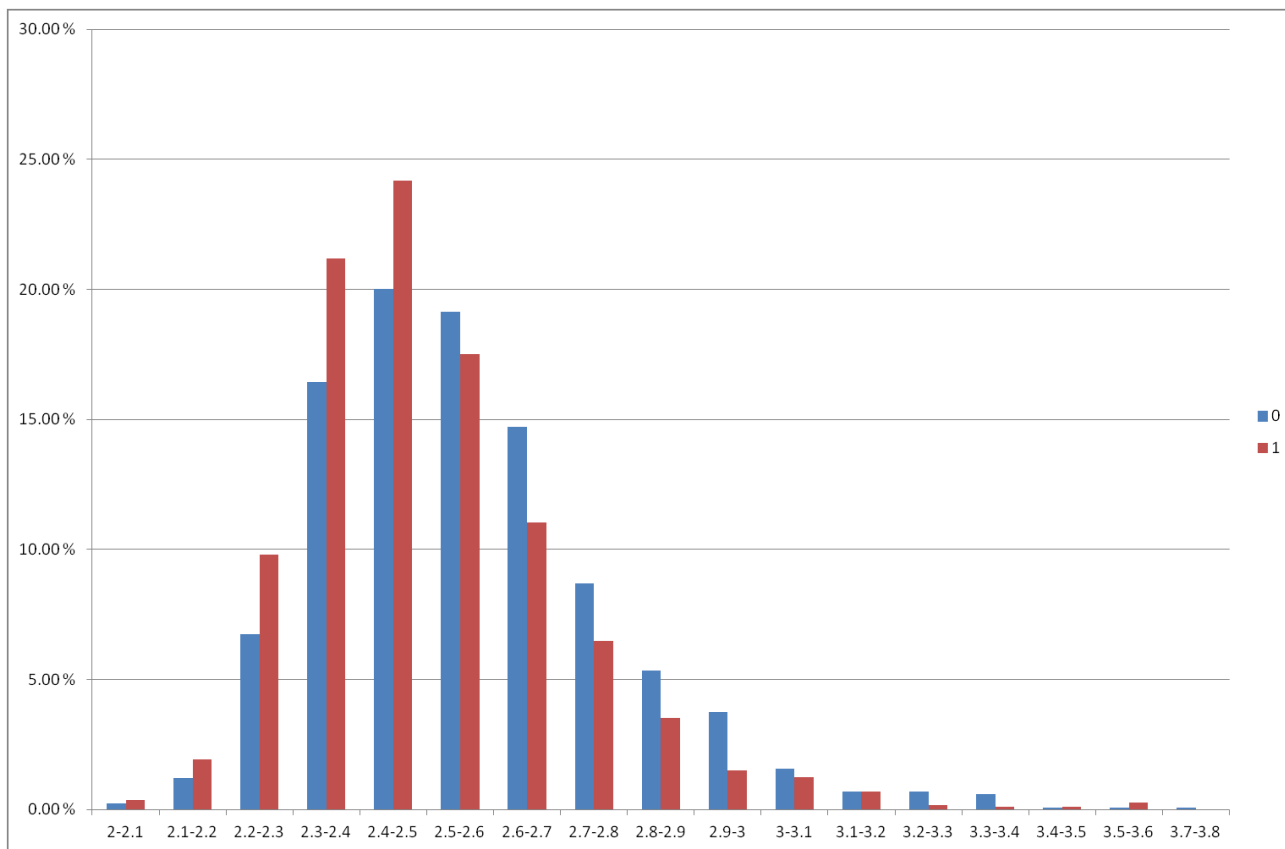
- 2438 pigs in test
  - 1213 pigs, treated water
  - 1225 pigs untreated water
  - Mainly boars in test

# Data – phenotypic distribution of growth



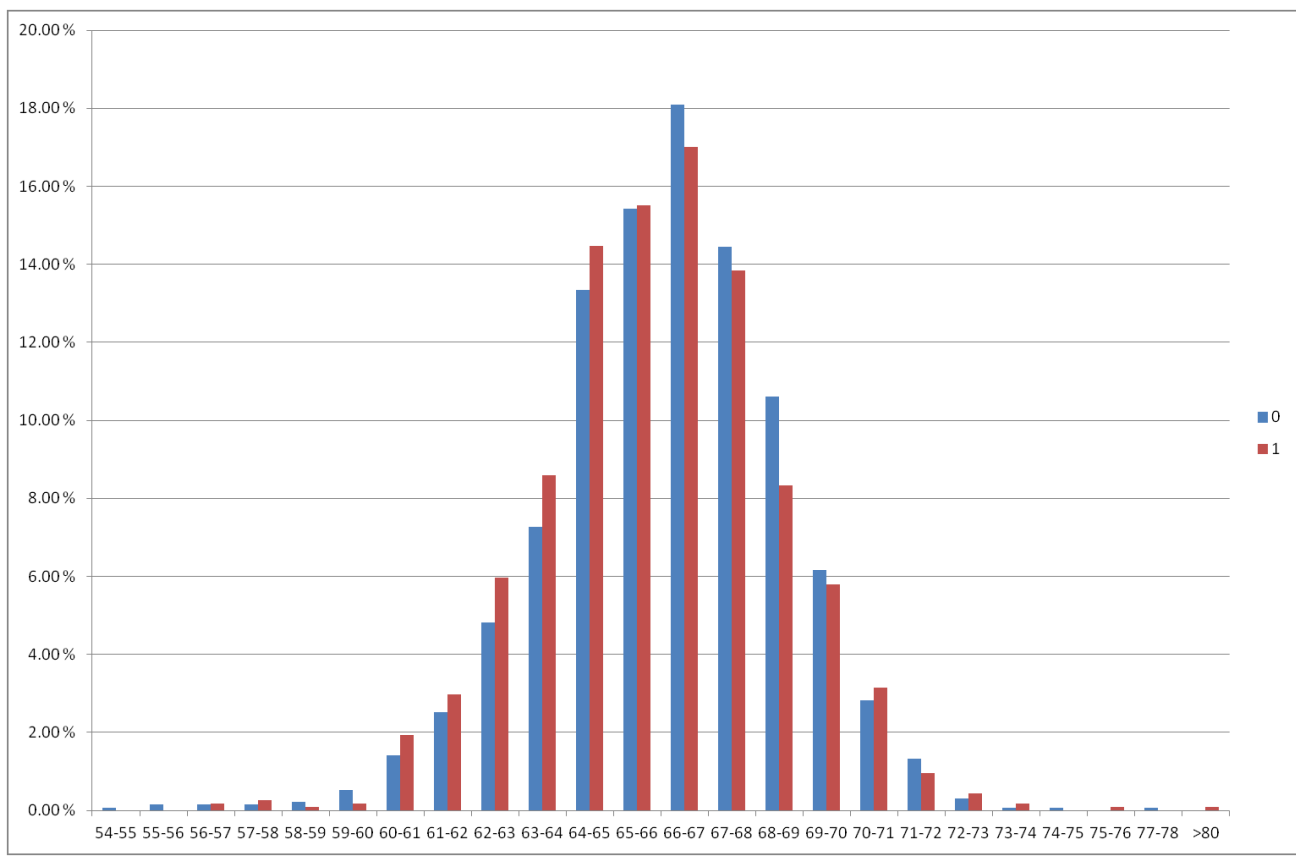
0 = untreated water; 1 = treated käsitelty vesi

# Data – phenotypic distribution of feed efficiency



0 = untreated water; 1 = treated water

# Data – phenotypic distribution of meat-% (meat-% of breeding program)



0 = untreated water; 1 = treated water

# Statistical analysis

- The response variable of statistical analysis was used as calculated in connection with the processing rate of the test batch solution
  - Batch solutions are 'cleaned' eräkeskiarvoja
  - The genetic merit of the pig is also taken into account
  - A single test batch either may or may not get water
- Batch analysis solutions for R statistical software
  - Linear model, which takes into account the effect of water treatment

# The results of statistical analysis, daily gain (g/pv)

	Estimate	SE	t-value	Pr(> t )	
Putken vaikutus	13.36	14.39	0.929	0.36	NS

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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

→ Estimate: In this experimental setting the treated water group increased more rapidly than the control group of 13 g / days

→ The result is not statistically significant



# The results of statistical analysis feed efficiency (fu/kg)

	Estimate	SE	t-value	Pr(> t )	
Putken vaikutus	-0.08173	0.02524	-3.238	0.00293	**

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

- Estimate: In this experimental setting the treated water group spent 0.08 per ry less feed than the control group / growth kilos
- The result is statistically significant at the 1% level of risk,

# The results of statistical analysis, meat% (meat% of breeding program)

	Estimate	SE	t-value	Pr(> t )	
Putken vaikutus	0.026	0.19094	0.141	0.889	NS

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

- Estimate: In this experimental setting the treated water group 0.02% points higher conformation than the control group
- The result is not statistically significant.

# Summary

- Statistical analysis shows that the group treated water feed efficiency was better than the untreated group water
- Between the experimental groups were not statistically significant differences in daily growth and meat -% with respect to