SUPPORTING INFORMATION
for

An Exposure – Risk Assessment for Potentially Toxic Elements in Rice and Bulgur

by
Sait C. Sofuoglu and Aysun Sofuoglu
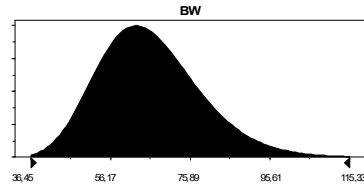

Crystal Ball Report

Assumptions of Rice Simulation

Assumption: Body Weight (kg)

Lognormal distribution with parameters:
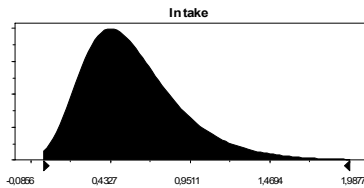|	
Mean	66,04
Standard Dev.	12,80

Selected range is from 0,00 to +Infinity
Mean value in simulation was 66,23

Daily Intake = Intake × Portion
Assumption: Intake (portions/d)

Extreme Value distribution with parameters:
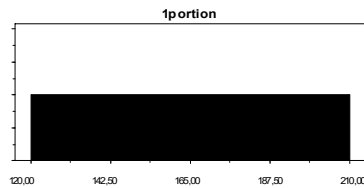|	
Mode	0,4327
Scale	0,2592

Selected range is from 0,0000 to +Infinity
Mean value in simulation was 0,5830

Assumption: Portion (g)

Uniform distribution with parameters:
Minimum	120,00
Maximum	210,00

Mean value in simulation was 164,94

CONTAMINANT CONCENTRATIONS (µg/g)

Assumption: Cd

Gamma distribution with parameters:

Location	0,0010
Scale	0,8364
Shape	0,27661502

Selected range is from 0,0010 to +Infinity
Mean value in simulation was 0,2338
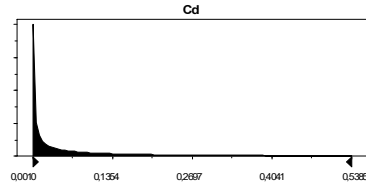
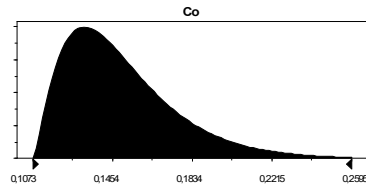**Assumption: Co**

Gamma distribution with parameters:

Location	0,1073
Scale	0,0181
Shape	2,360937296

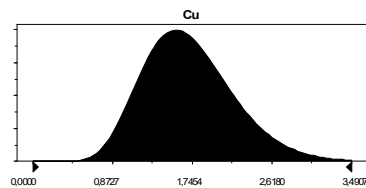Selected range is from 0,1073 to +Infinity
Mean value in simulation was 0,1500

Assumption: Cu

Gamma distribution with parameters:

Location	0,0000
Scale	0,1462
Shape	11,71598337

Selected range is from 0,0000 to +Infinity
Mean value in simulation was 1,7116

Assumption: Mn

Logistic distribution with parameters:

Mean	6,863
Scale	0,732

Selected range is from 0,000 to +Infinity
Mean value in simulation was 6,859

Assumption: Pb

Beta distribution with parameters:

Alpha	0,64
Beta	4,46
Scale	0,270

Selected range is from 0,000 to +Infinity
Mean value in simulation was 0,034

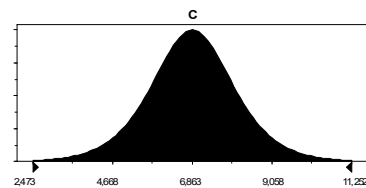## Assumption: Sr

Extreme Value distribution with parameters:
Mode   0,083
Scale   0,029

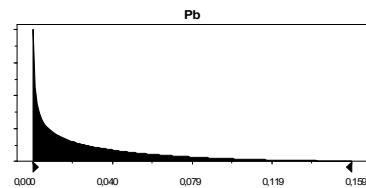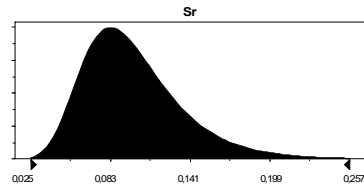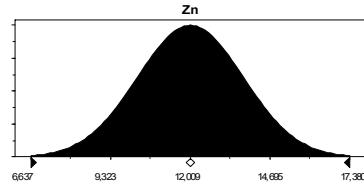Selected range is from 0,000 to +Infinity
Mean value in simulation was 0,100

Sr

Assumption: Zn

Normal distribution with parameters:
Mean   12,009
Standard Dev.   1,791

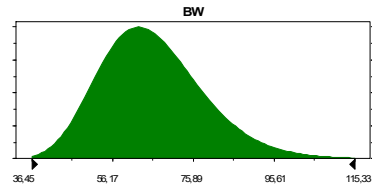Selected range is from 0,000 to +Infinity
Mean value in simulation was 12,038

Zn

Assumptions of Bulgur Simulation

Assumption: BW

Lognormal distribution with parameters:
Mean   66,04
Standard Dev.   12,80

Selected range is from 0,00 to +Infinity
Mean value in simulation was 65,98

BW

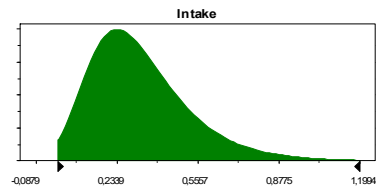**Daily Intake = Intake × Portion**
Assumption: Intake (portions/d)

Extreme Value distribution with parameters:
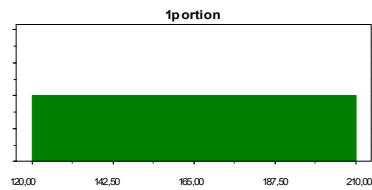Mode   0,2339
Scale   0,1609

Selected range is from 0,0000 to +Infinity
Mean value in simulation was 0,3302

Intake

Assumption: Portion (g)

Uniform distribution with parameters:
Minimum   120,00
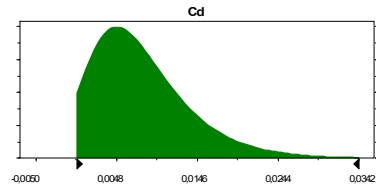Maximum   210,00

Mean value in simulation was 165,16

1portion

CONTAMINANT CONCENTRATIONS (µg/g)

Assumption: Cd

Extreme Value distribution with parameters:
Mode	0,0048
Scale	0,0049

Selected range is from 0,0000 to +Infinity
Mean value in simulation was 0,0083

Assumption: Co

Logistic distribution with parameters:
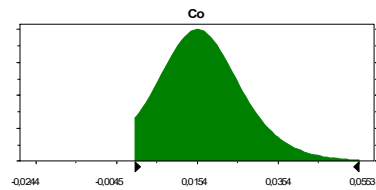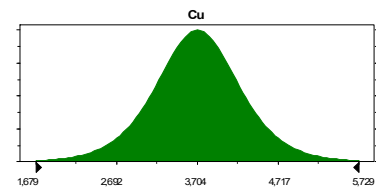|	
Mean	0,0154
Scale	0,0066

Selected range is from 0,0000 to +Infinity
Mean value in simulation was 0,0178

Assumption: Cu

Logistic distribution with parameters:
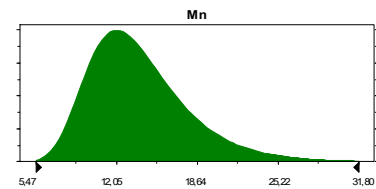|	
Mean	3,704
Scale	0,338

Selected range is from 0,000 to +Infinity
Mean value in simulation was 3,691

Assumption: Mn

Extreme Value distribution with parameters:
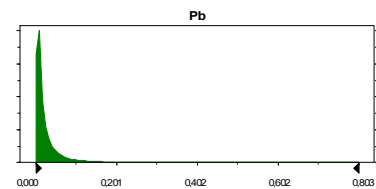|	
Mode	12,05
Scale	3,29

Selected range is from 0,00 to +Infinity
Mean value in simulation was 13,94

Assumption: Pb

Lognormal distribution with parameters:
Mean	0,028
Standard Dev.	0,080

Selected range is from 0,000 to +Infinity
Mean value in simulation was 0,029
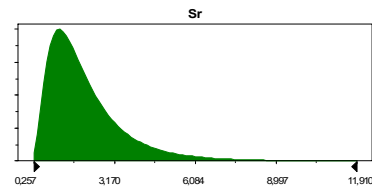
Assumption: Sr

   Lognormal distribution with parameters:
      Mean   2,147
      Standard Dev.   1,525

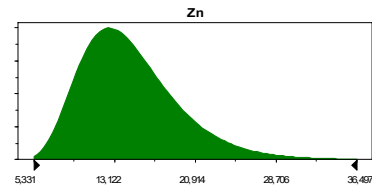   Selected range is from 0,000 to +Infinity
   Mean value in simulation was 2,176

Assumption: Zn

   Lognormal distribution with parameters:
      Mean   14,684
      Standard Dev.   4,832

   Selected range is from 0,000 to +Infinity
   Mean value in simulation was 14,617

End of Assumptions