

## Lampiran 1 : Kalkulasi Bootstrap untuk Ratio Mean

\*\*\* Bootstrap Results \*\*\*

Call:

```
bootstrap(data = contoh1, statistic = mean(mean(y)/mean(
z)), B = 400, trace = F, assign.frame1 = F,
save.indices = T)
```

Number of Replications: 400

Summary Statistics:

	Observed	Bias	Mean	SE
Param	-0.07131	0.00438	-0.06741	0.1054

\*\*\* Bootstrap Results \*\*\*

Call:

```
bootstrap(data = contoh1, statistic = mean(mean(y)/mean(
z)), B = 800, trace = F, assign.frame1 = F,
save.indices = T)
```

Number of Replications: 800

Summary Statistics:

	Observed	Bias	Mean	SE
Param	-0.07131	0.007528	-0.06378	0.1027

\*\*\* Bootstrap Results \*\*\*

Call:

```
bootstrap(data = contoh1, statistic = mean(mean(y)/mean(
z)), B = 2000, trace = F, assign.frame1 = F,
save.indices = T)
```

Number of Replications: 2000

Summary Statistics:

	Observed	Bias	Mean	SE
Param	-0.07131	0.009188	-0.06212	0.1026

\*\*\* Bootstrap Results \*\*\*

Call:

```
bootstrap(data = contoh1, statistic = mean(mean(y)/mean(
z)), B = 4000, trace = F, assign.frame1 = F,
save.indices = F)
```

Number of Replications: 4000

Summary Statistics:

	Observed	Bias	Mean	SE
Param	-0.07131	0.01035	-0.06096	0.103

## Lampiran 2 : Kalkulasi Bootstrap untuk Mean

\*\*\* Bootstrap Results \*\*\*

Call:

```
bootstrap(data = DS2, statistic = mean(GPA), B = 100,
  trace = F, assign.frame1 = F, save.indices = T)
```

Number of Replications: 100

Summary Statistics:

	Observed	Bias	Mean	SE
Param	3.095	-0.00132	3.093	0.05476

\*\*\* Bootstrap Results \*\*\*

Call:

```
bootstrap(data = DS2, statistic = mean(GPA), B = 500,
  trace = F, assign.frame1 = F, save.indices = T)
```

Number of Replications: 500

Summary Statistics:

	Observed	Bias	Mean	SE
Param	3.095	0.00268	3.097	0.06153

\*\*\* Bootstrap Results \*\*\*

Call:

```
bootstrap(data = contoh2, statistic = mean(GPA), B =
  1000, trace = F, assign.frame1 = F,
  save.indices = T)
```

Number of Replications: 1000

Summary Statistics:

	Observed	Bias	Mean	SE
Param	3.095	0.0003787	3.095	0.06065

\*\*\* Bootstrap Results \*\*\*

Call:

```
bootstrap(data = contoh2, statistic = mean(GPA), B =
  5000, trace = F, assign.frame1 = F,
  save.indices = T)
```

Number of Replications: 5000

Summary Statistics:

	Observed	Bias	Mean	SE
Param	3.095	0.0000748	3.095	0.06001

## Lampiran 3 : Kalkulasi Bootstrap untuk Varian

\*\*\* Bootstrap Results \*\*\*

Call:

```
bootstrap(data = Hormone, statistic = var(Hormone), B
          = 100, trace = F, assign.frame1 = F,
          save.indices = T)
```

Number of Replications: 100

Summary Statistics:

	Observed	Bias	Mean	SE
Hormo.Hormo	0.1868	-0.006241	0.1806	0.0593

\*\*\* Bootstrap Results \*\*\*

Call:

```
bootstrap(data = Hormone, statistic = var(Hormone), B
          = 500, trace = F, assign.frame1 = F,
          save.indices = T)
```

Number of Replications: 500

Summary Statistics:

	Observed	Bias	Mean	SE
Hormo.Hormo	0.1868	-0.01155	0.1753	0.06448

\*\*\* Bootstrap Results \*\*\*

Call:

```
bootstrap(data = Hormone, statistic = var(Hormone), B
          = 200, trace = F, assign.frame1 = F,
          save.indices = T)
```

Number of Replications: 200

Summary Statistics:

	Observed	Bias	Mean	SE
Hormo.Hormo	0.1868	-0.01129	0.1755	0.06176

\*\*\* Bootstrap Results \*\*\*

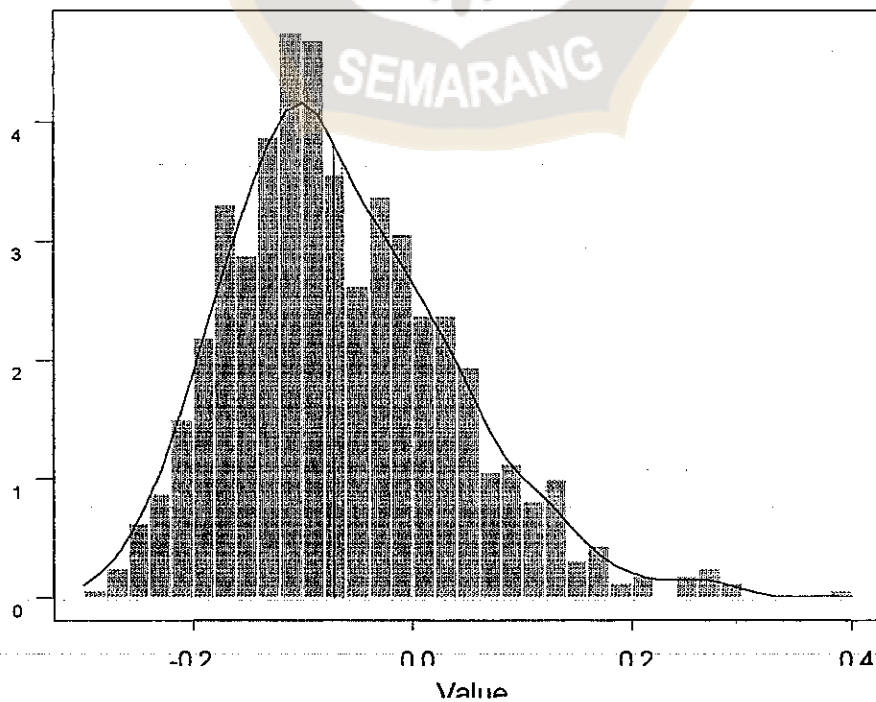
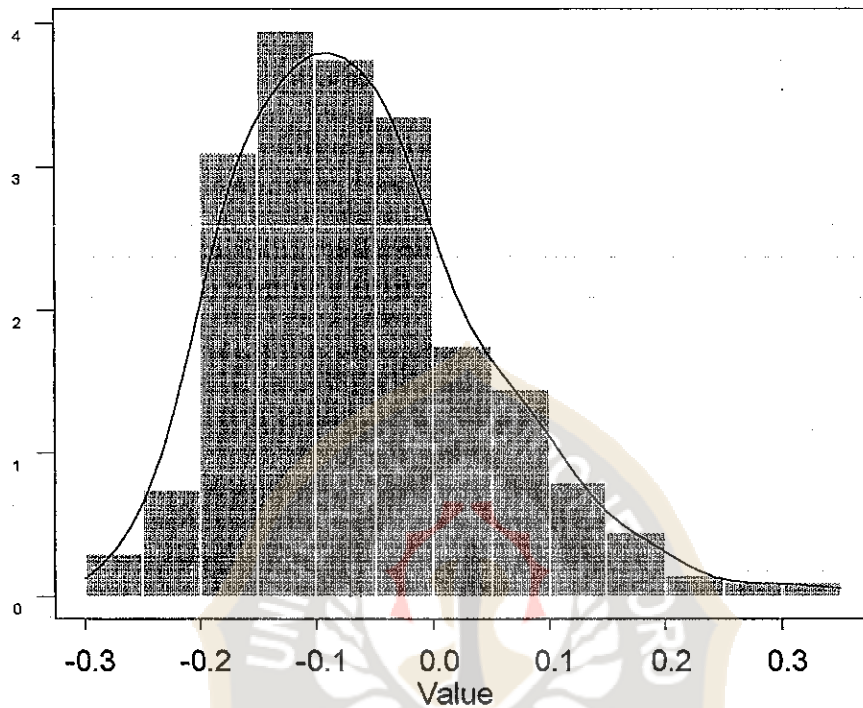
Call:

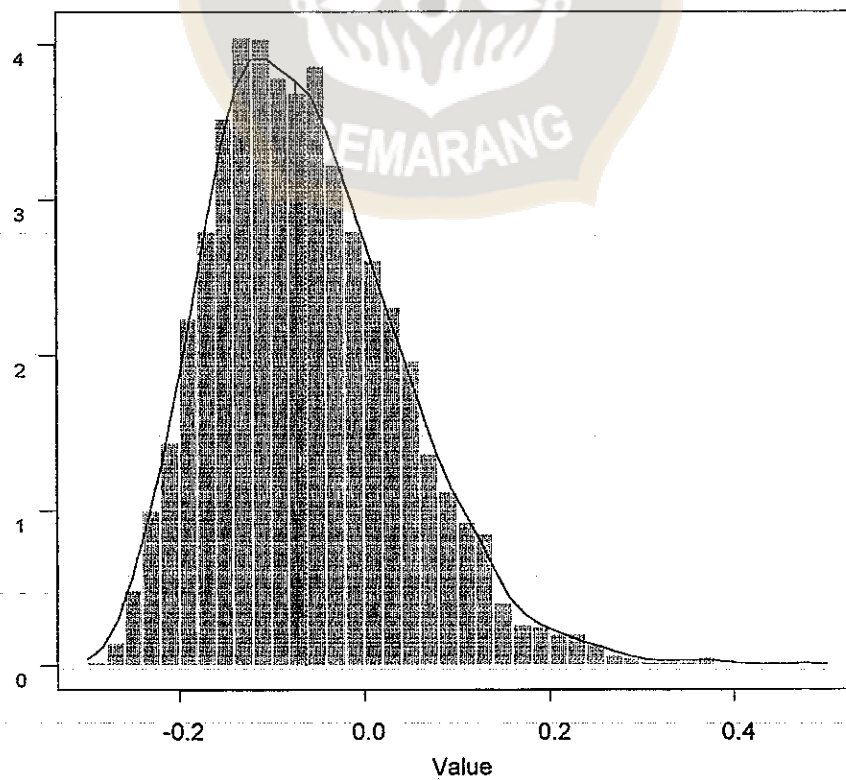
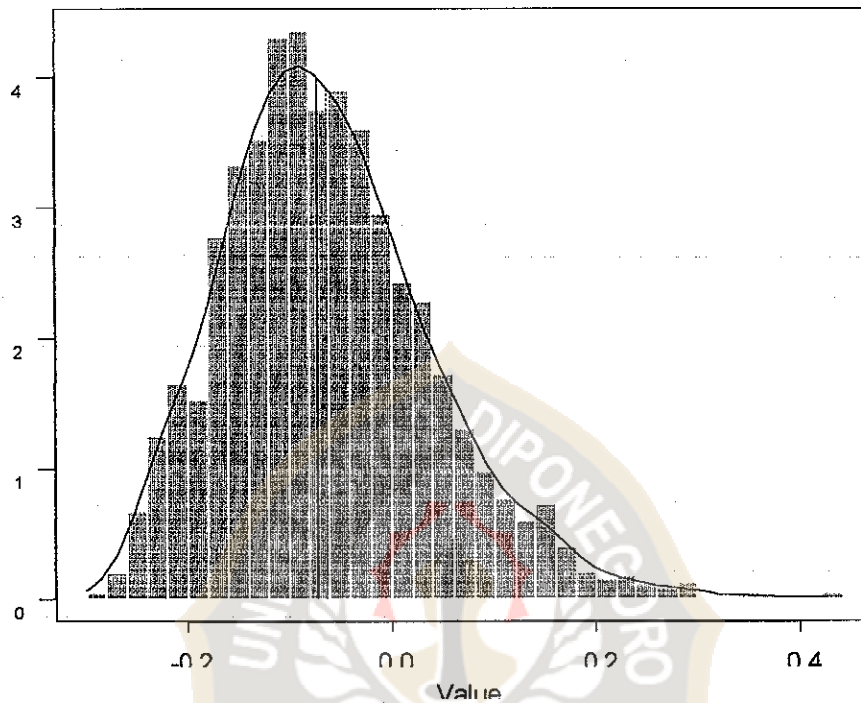
```
bootstrap(data = Hormone, statistic = var(Hormone), B
          = 400, trace = F, assign.frame1 = F,
          save.indices = T)
```

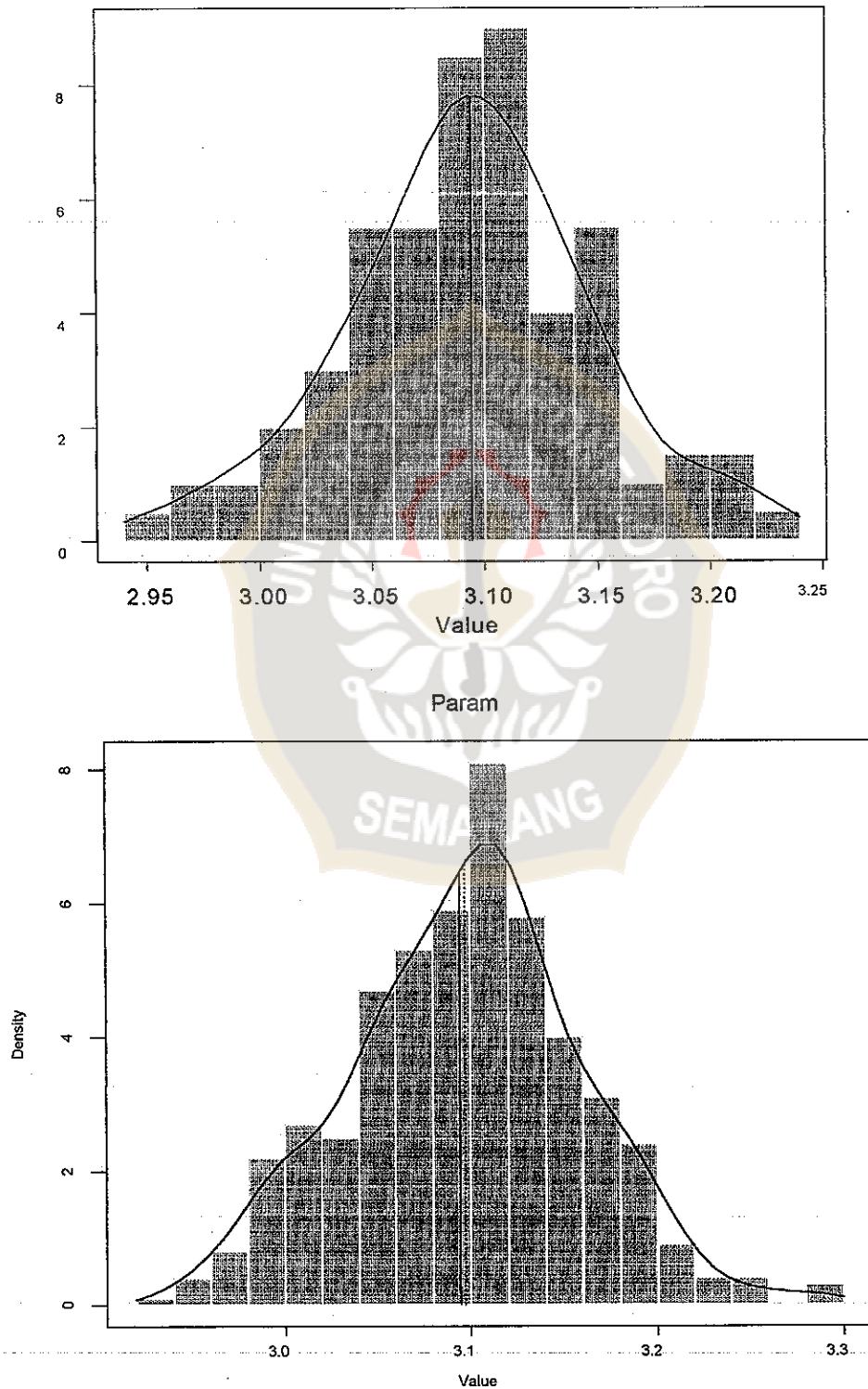
Number of Replications: 400

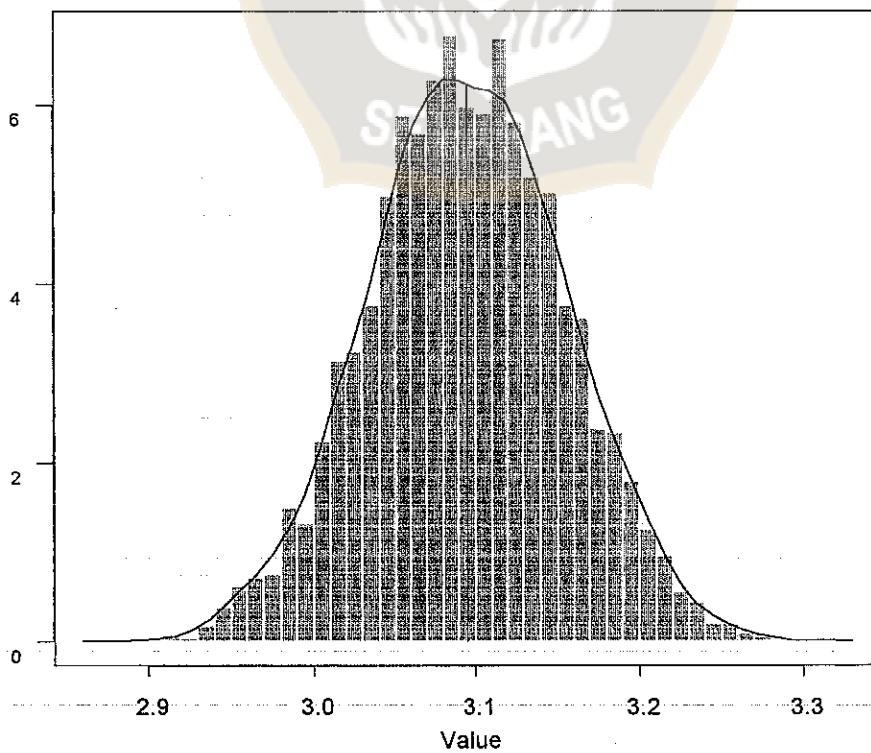
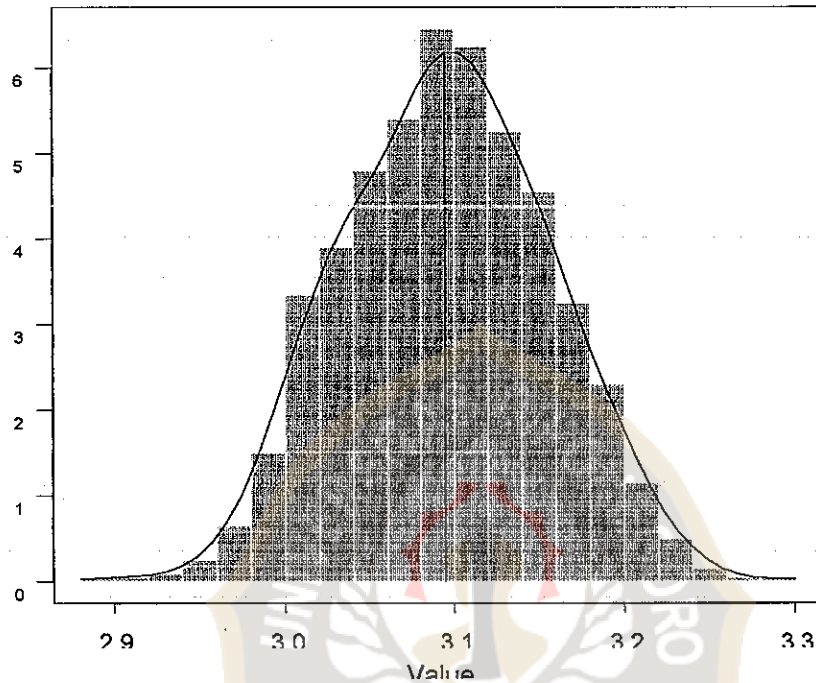
Summary Statistics:

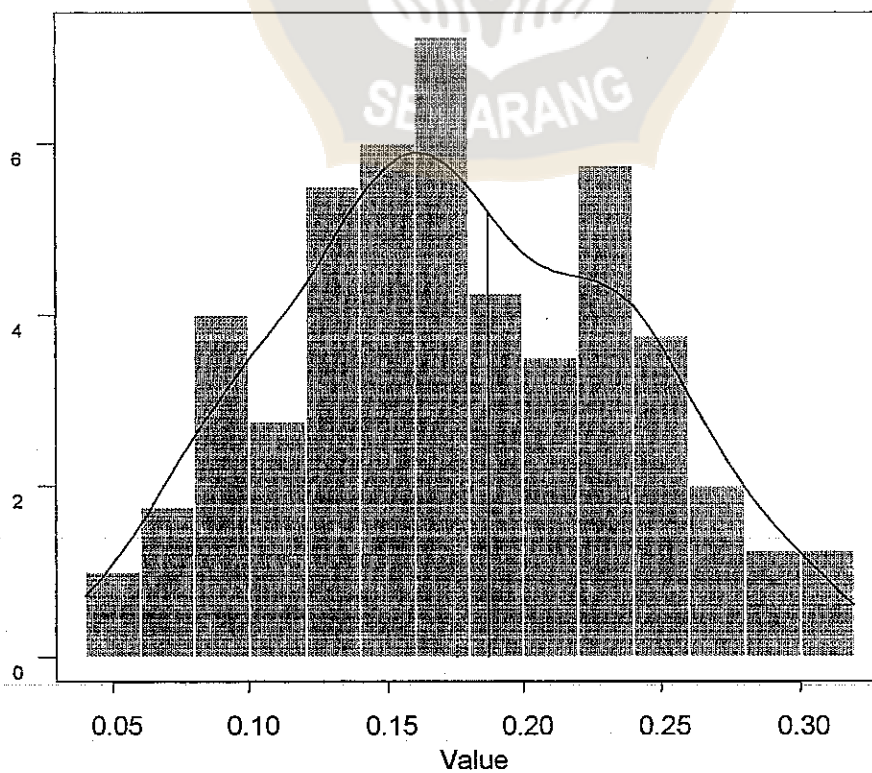
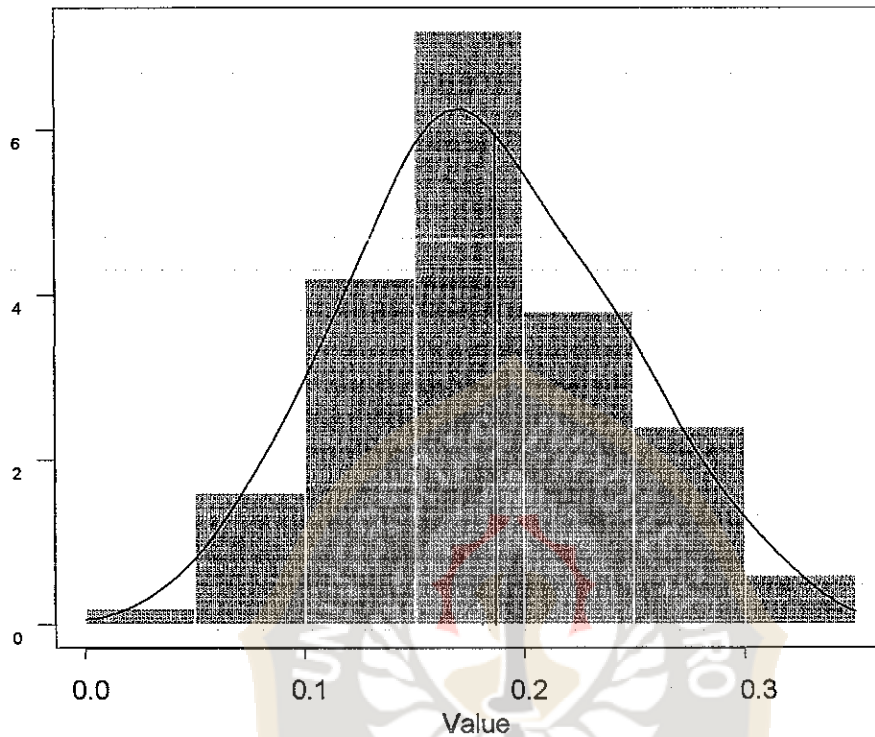
	Observed	Bias	Mean	SE
Hormo.Hormo	0.1868	-0.007432	0.1794	0.06181

Lampiran 4. Histogram dari  $B = 400$  dan  $B = 800$  untuk Ratio Mean

Lampiran 5. Histogram dari  $B = 2000$  dan  $B = 4000$  untuk Ratio Mean

Lampiran 6. Histogram dari  $B = 100$  dan  $B = 500$  untuk Mean

Lampiran 7. Histogram dari  $B = 1000$  dan  $B = 5000$  untuk Mean

Lampiran 8. Histogram dari  $B = 100$  dan  $B = 200$  untuk Varian

Lampiran 9. Histogram dari B = 400 dan B = 500 untuk Varian

