

STATS 3N03/3J04

2004-09-23

5-1

2002 Test #1 Q1

VARIABLE NAMES

ht dbh buds coi type

SELECTOR:

pairs(trees[, -5])

pairs(trees[trees\$type == "damaged", -5])

col = as.numeric(trees\$type)

color = 1 ~~red~~ black damaged

color = 2 red undamaged

TO USE cyan (5) AND green (3)

col = c(5, 3)[as.numeric(trees\$type)]

trees\$type != "damaged"

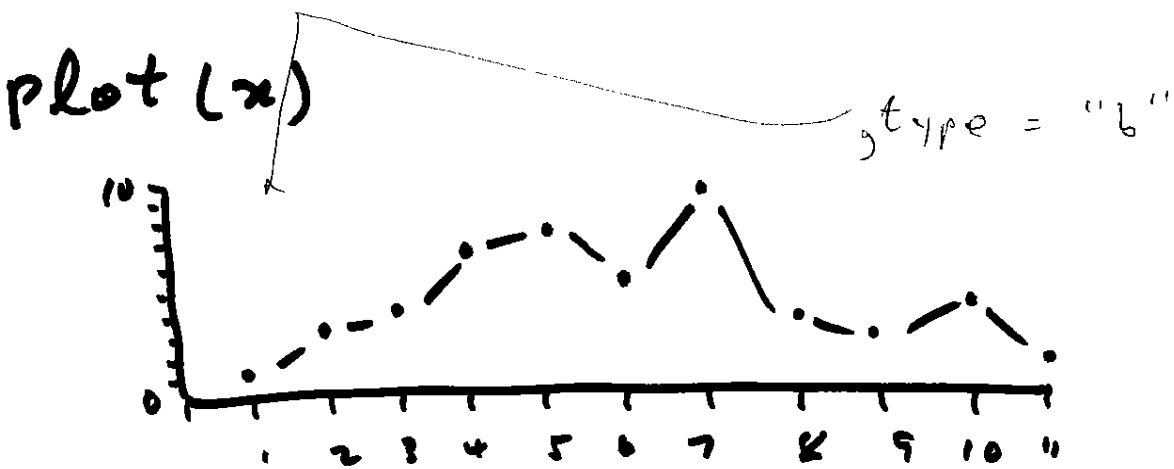
!(trees\$type == "damaged")

5-2

# TIME SERIES PLOT

SEQUENCE OF OBSERVATIONS  
ORDERED IN TIME,  
PREFERABLY EQUAL TIME  
STEPS

$x$   
1 3 4 7 8 6 9 4 3 5 2



$x[-1]$   
3  
4  
7  
8  
6  
9  
4  
3  
5  
2

$x[-11]$   
1  
3  
4  
7  
8  
6  
9  
4  
3  
5

plot(x[-1], x[-11])

AUTO CORRELATION  
TREND  
SEASONALITY

5-3

```
> xlp
[1] 1 3 4 7 8 6 9 4 3 5 2
> stem(xlp)
```

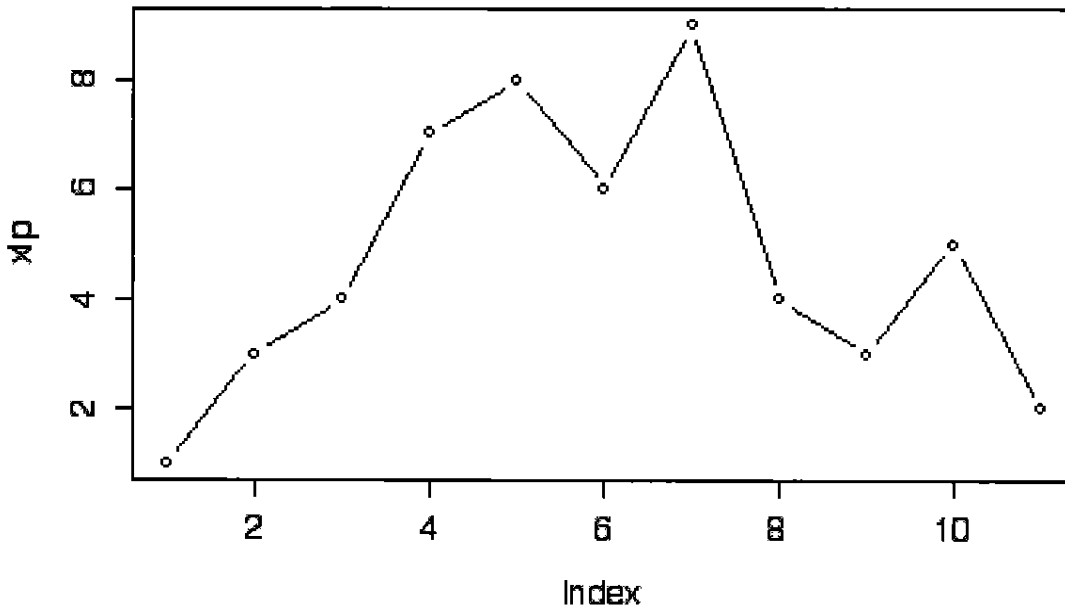
The decimal point is at the |

0		0
2		000
4		000
6		00
8		00

0		1
0		233
0		445
0		67
0		89

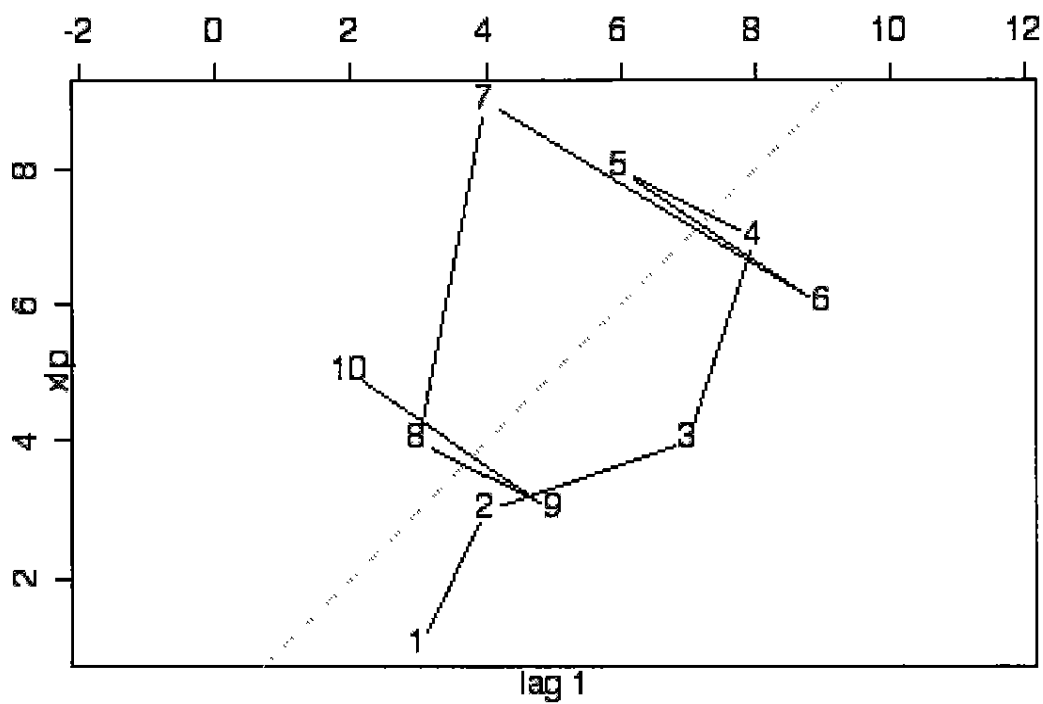
STEMS: TENS  
LEAVES: UNITS

```
> plot(xlp, type="b")
```

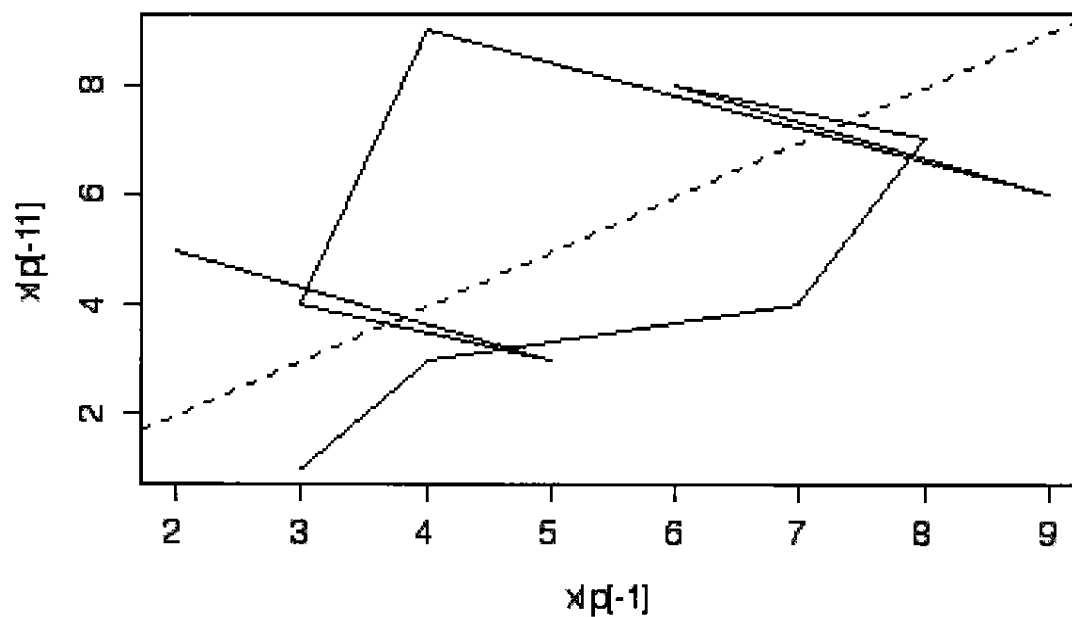


5-4

```
> lag.plot(xlp)
```



```
> plot(xlp[-1],xlp[-11],typ="l")
> abline(0,1,lty=2)
```



5.5

## STEM &amp; LEAF

14.8, 11.3, 12.7, 10.6, 15.9, 18.7, 23.1

F	f	STEM	LEAVES
4	4	1	06, 13, 27, 48
6	2	1	59, 87
7	1	2	31
7	0	2	

STEM: TENS

LEAF: UNITS, TENTHS

IL DEFAULT:

1	1 1 3
1	5 6 9
2	3