

```
! Lagerexempel med hemlig bakgrund med kompletteringar av Peter Lohmander 101107;  
! Viss uppgradering 121102;
```

```
model:
```

```
sets:
```

```
time/1..7/:IndLag,VagLag,Trp,Prod,Forb,Ext;  
endsets
```

```
! time 1 representerar April;  
! Lagernivaaer avser ingaende lagernivaaer;
```

```
Max = NUV;
```

```
NUV = @SUM(time(t)| t #LT#7: @EXP(-r*t)*(  
    - 90 * Prod(t)  
    - 10 * VagLag(t)  
    - 15 * IndLag(t)  
    - 50 * Trp(t)  
    - 400 * Ext(t)  
    + 800 * Forb(t)  
    )  
    );
```

```
[rate]r = .05/12;
```

```
[Vag0]VagLag(1) = 3000;
```

```
[Ind0]IndLag(1) = 3000;
```

```
[SumProd]@SUM(time(t)| t #LT#7: Prod(t)) = 14000;
```

```
Prod(7) = 0;
```

```
@for(time(t)| t #LT#7: [VagBal] VagLag(t) + Prod(t) - Trp(t) - VagLag(t+1) = 0) ;
```

```
@for(time(t)| t #LT#7: [IndBal] IndLag(t) + Trp(t) + Ext(t) - Forb(t) - IndLag(t+1) = 0) ;
```

```
@for(time(t): [ILAGMAX]IndLag(t) <= 4000);
```

```
@for(time(t): [ILAGMIN]IndLag(t) >= 500);
```

```
!@for(time(t)| t #LT#7: [VLAGMAX] VagLag(t) <= 0.6 * Trp(t+1));
```

```
@for(time(t)| t #LT#7: [VLAGMIN] VagLag(t) >= 10);
```

```
@for(time(t)| t #LT#7: [TrpMAX] Trp(t) <= 3000);
```

```
@for(time(t)| t #LT#7: [TrpMIN] Trp(t) >= 1500);
```

```
@for(time(t)| t #GT#3: [Extlim] Ext(t) = 0);
```

```
data:
```

```
Forb = 4000 3000 3000 4000 3000 3000 3000;
```

```
@OLE('LT121102.XLS')= VagLag,IndLag, Trp, Prod, Forb, Ext, Nuv;
```

```
enddata
```

```
end
```

