

```
% read comma delimited ascii file of hourly wind speeds at 6 heights
clear all
load ('1997_hourly_wspd.txt')
% stored in array X1997_hourly_wspd with size (8733,8)
% fields are month, hour of day (MST), wind speed at 6 levels
% find missing records = 25 + 1 + 1 = 27 = 8760 - 8733
% these were added, with missing data
% 8/25/1997,13,-99999,-99999,-99999,-99999,-99999,-99999
% 8/26/1997,15,3.5633,4.0167,4.5167,5.0433,6.0767,6.6767
%
% 10/9/1997,13,2.9100,3.2800,3.5200,3.8050,3.9650,4.0800
% 10/9/1997,15,2.0529,2.2200,2.3800,2.5271,2.6029,2.7371
%
% 10/13/1997,12,11.1480,12.6460,13.9180,15.1160,16.5940,17.2620
% 10/13/1997,14,10.6100,11.9367,13.1050,14.3267,15.8417,16.3700
% missing data -99999
% 10/6/1997,10,-99999,-99999,-99999,-99999,-99999,-99999
%
% 10/7/1997,9,-99999,-99999,-99999,-99999,-99999,-99999
%
% 10/8/1997,13,-99999,-99999,-99999,-99999,-99999,-99999
hour = X1997_hourly_wspd(:,2);
% check for missing records
d = diff(hour);
d(d==-23) = 1;
find(d>1)
% construct a new array without month, and with
% missing data converted to NaN
wspd_hr = X1997_hourly_wspd(:,2:8);
miss = wspd_hr(:,2) == -99999;
sum(miss)
x = wspd_hr;
x(miss,2:7) = NaN;
sum(isnan(x))
clear wspd_hr
```

```
wspd_hr = x;  
sum(isnan(wspd_hr))  
save 1997_hourly_wspd wspd_hr  
miss1 = isnan(wspd_hr(:,2));  
mean(wspd_hr(~miss1,2:7))
```