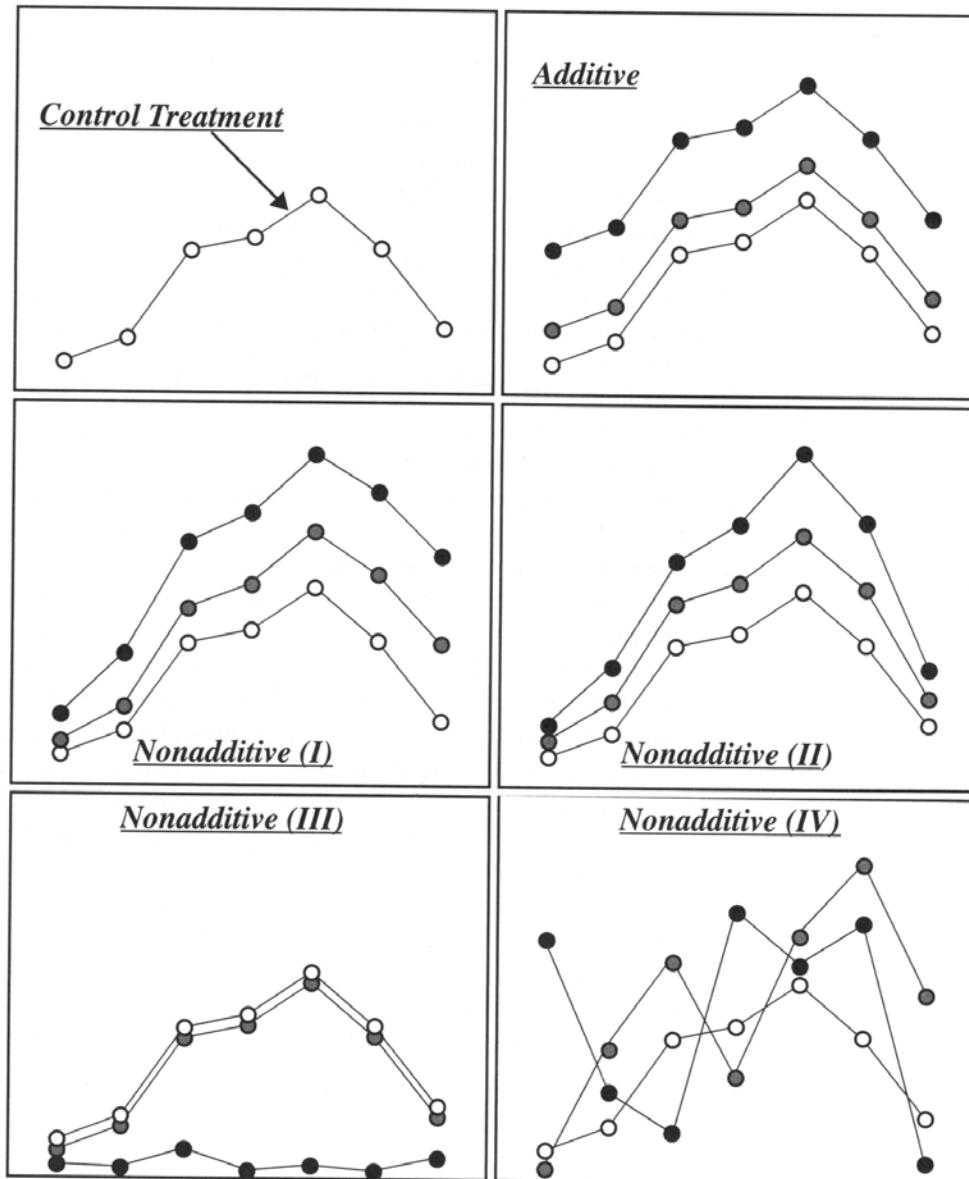


Chapter 13 – a few final notes

The textbook has a good image demonstrating types of additivity. Make sure you understand this concept and how to test it.

Hypothetical treatment curves plotted against another factor, illustrating additive and some nonadditive conditions



Discussion points from the text

Randomized block designs and paired t-test. We did not cover formally discuss the paired t-test. It is a special case of the randomized block design.

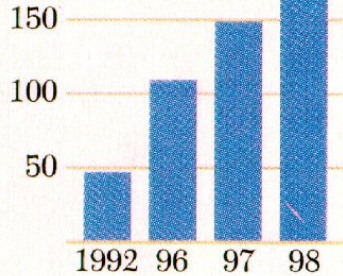
Should “insignificant” block effects be removed from the model? They can be pooled with the error term, but this is not usually recommended.

Some other graphics demonstrating interactions (additivity) or not.

Trimming Triple the Fat

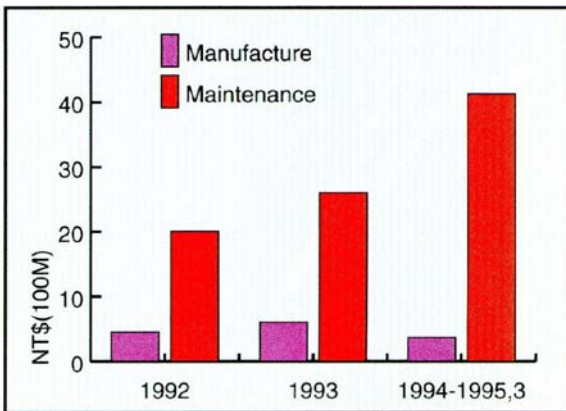
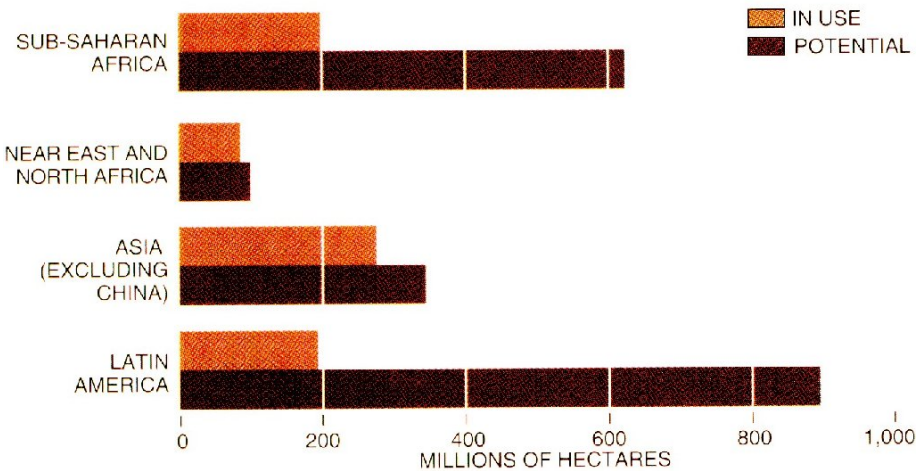
Liposuctions are up 264% since 1992. Women account for 86% of procedures.

LIPOSUCTIONS PERFORMED, IN THOUSANDS*



*BY DOCTORS AFFILIATED WITH THE AMERICAN SOCIETY OF PLASTIC AND RECONSTRUCTIVE SURGEONS. SOURCE: PLASTIC SURGERY INFORMATION SERVICE

Arable Land



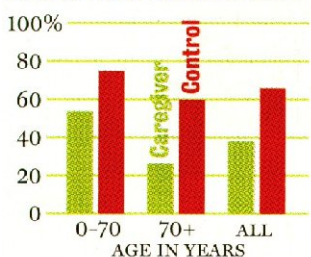
Investment chart for manufacture and maintenance of local aerospace companies

The Toll Stress Takes on the Body

Immune response

People who care for spouses with dementia didn't respond to a flu vaccine as well as a control group.

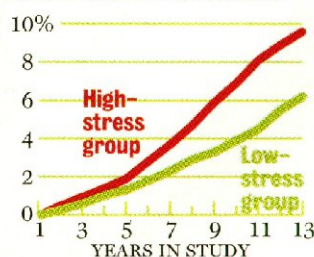
PEOPLE WITH FULL RESPONSE*



Coronary disease

Men who said they were highly stressed were more likely to have heart attacks and strokes.

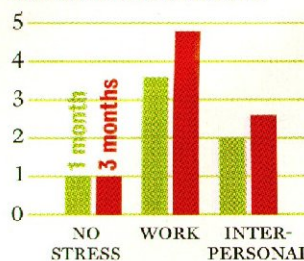
HEART-DISEASE INCIDENCE†



Viral infection

The chances of catching a cold increase the longer people experience work or interpersonal stress.

RELATIVE RISK OF A COLD



*PERCENT WITH A FOURFOLD ANTIBODY RESISTANCE. †CUMULATIVE ANNUAL INCIDENCE. SOURCES: "CHRONIC STRESS ALTERS THE IMMUNE RESPONSE TO INFLUENZA VIRUS VACCINE IN OLDER ADULTS," "SELF-PERCEIVED PSYCHOLOGICAL STRESS AND INCIDENCE OF CORONARY ARTERY DISEASE IN MIDDLE-AGED MEN," "TYPES OF STRESSORS THAT INCREASE SUSCEPTIBILITY TO THE COMMON COLD IN HEALTHY ADULTS"