

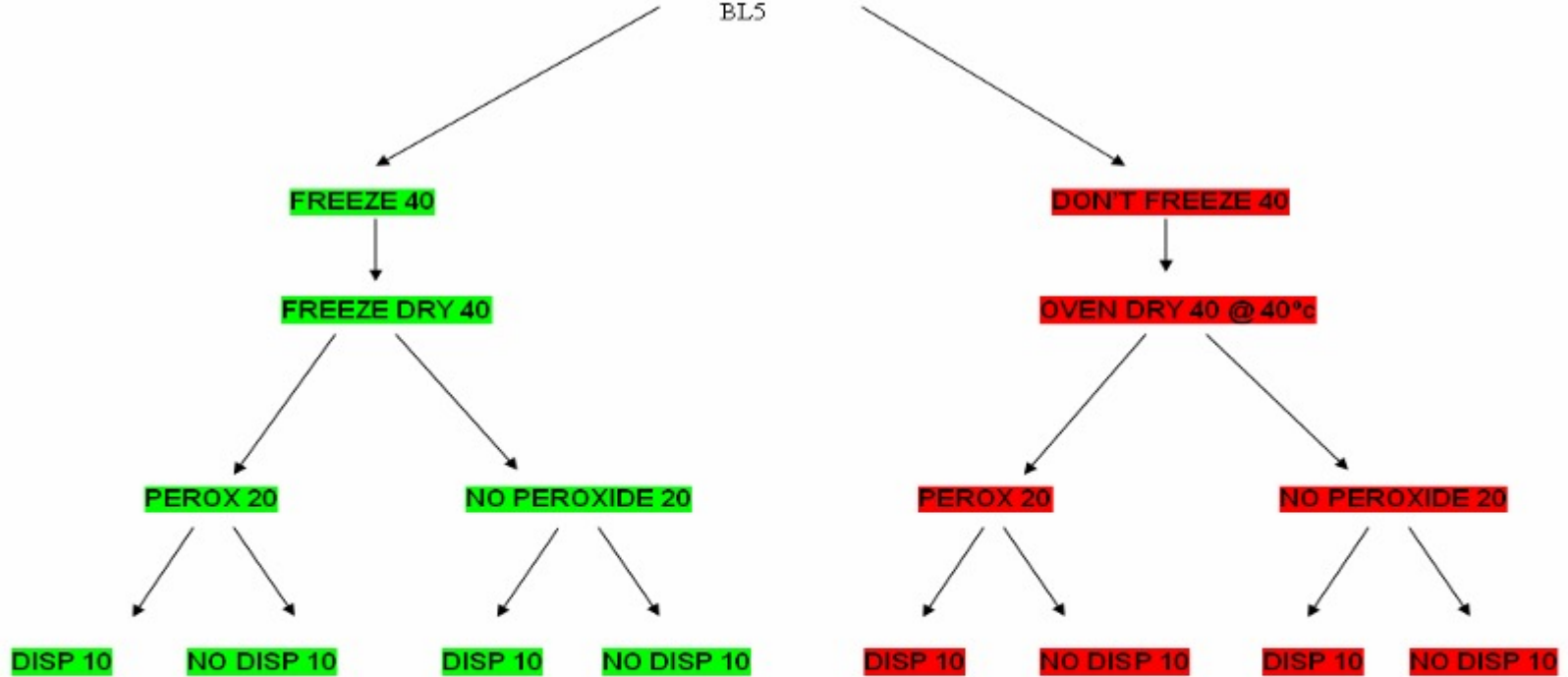
NIEA PSA TRIAL 2008

Mike Allen

- Freeze Drying verses Oven Drying (40°C)
- Peroxide (6%) verses No Peroxide
- Dispersant (Calgon) verses No Dispersant
- Depth Integrated verses Surface Scrape

NIEA

80 DEPTH INTEGRATED PSA SAMPLES
BL5

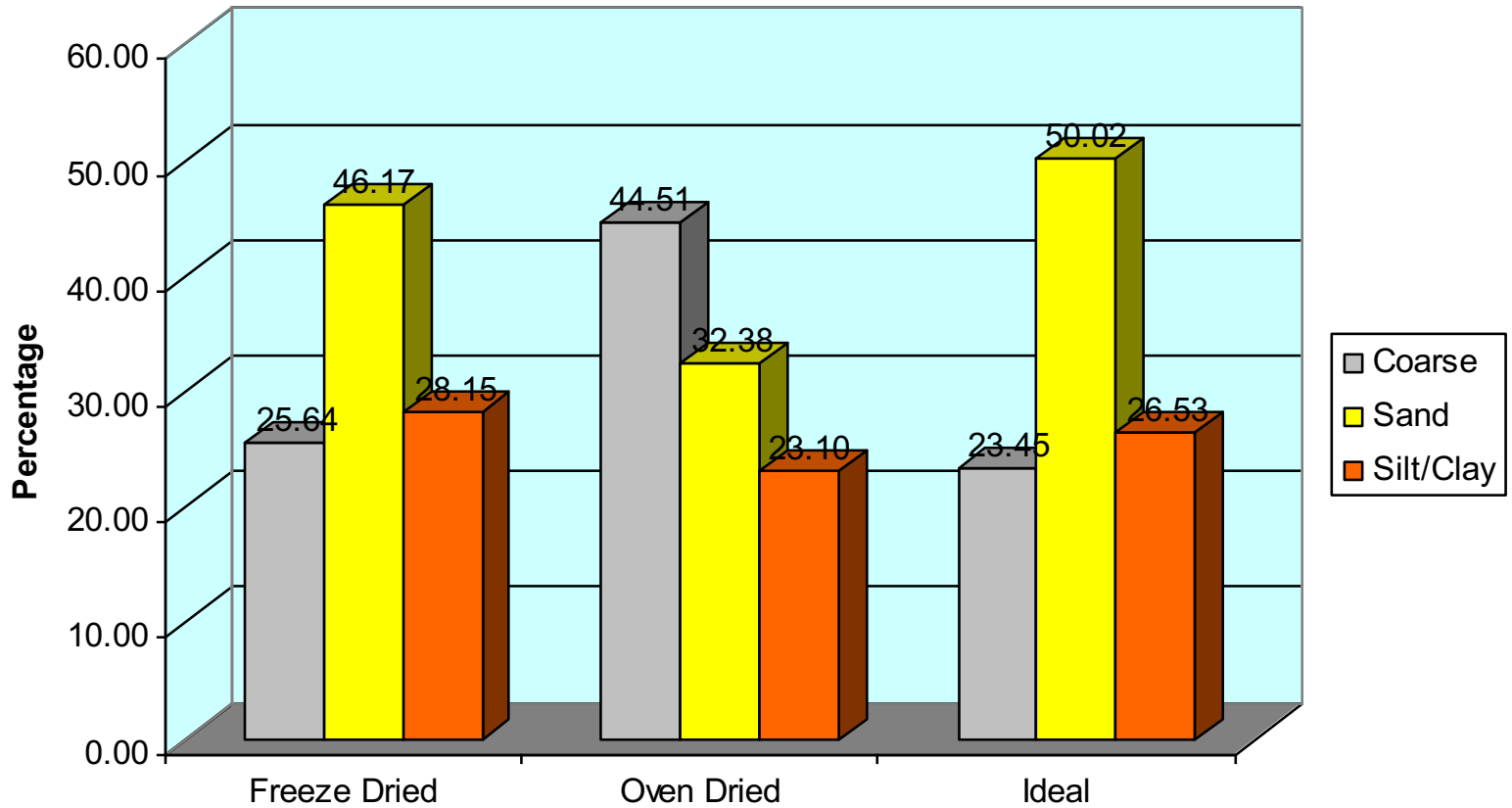


GREEN = FROZEN "A" REPS

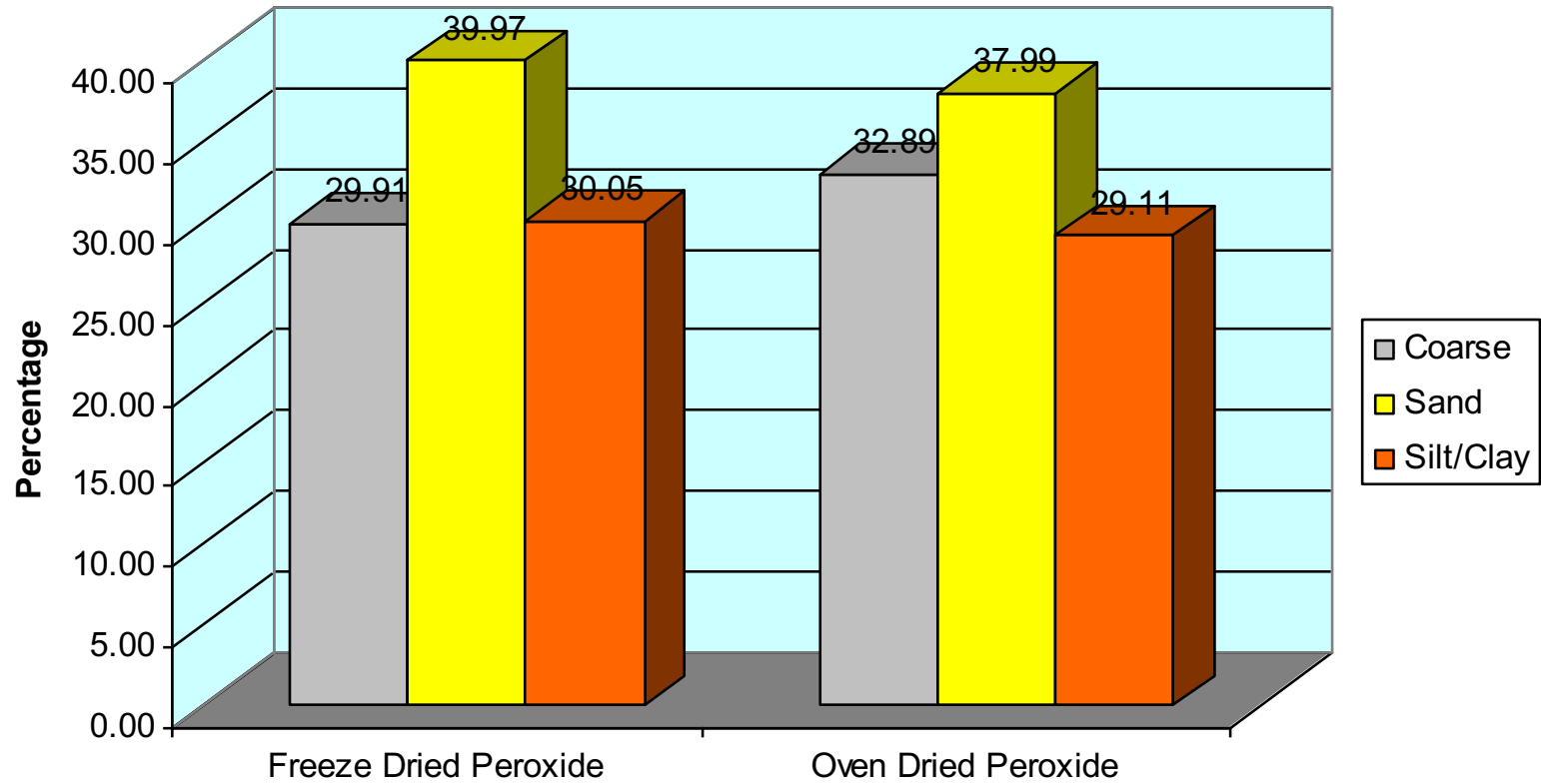
RED = REFRIDGERATED "B" REPS

NIEA Proposal 2

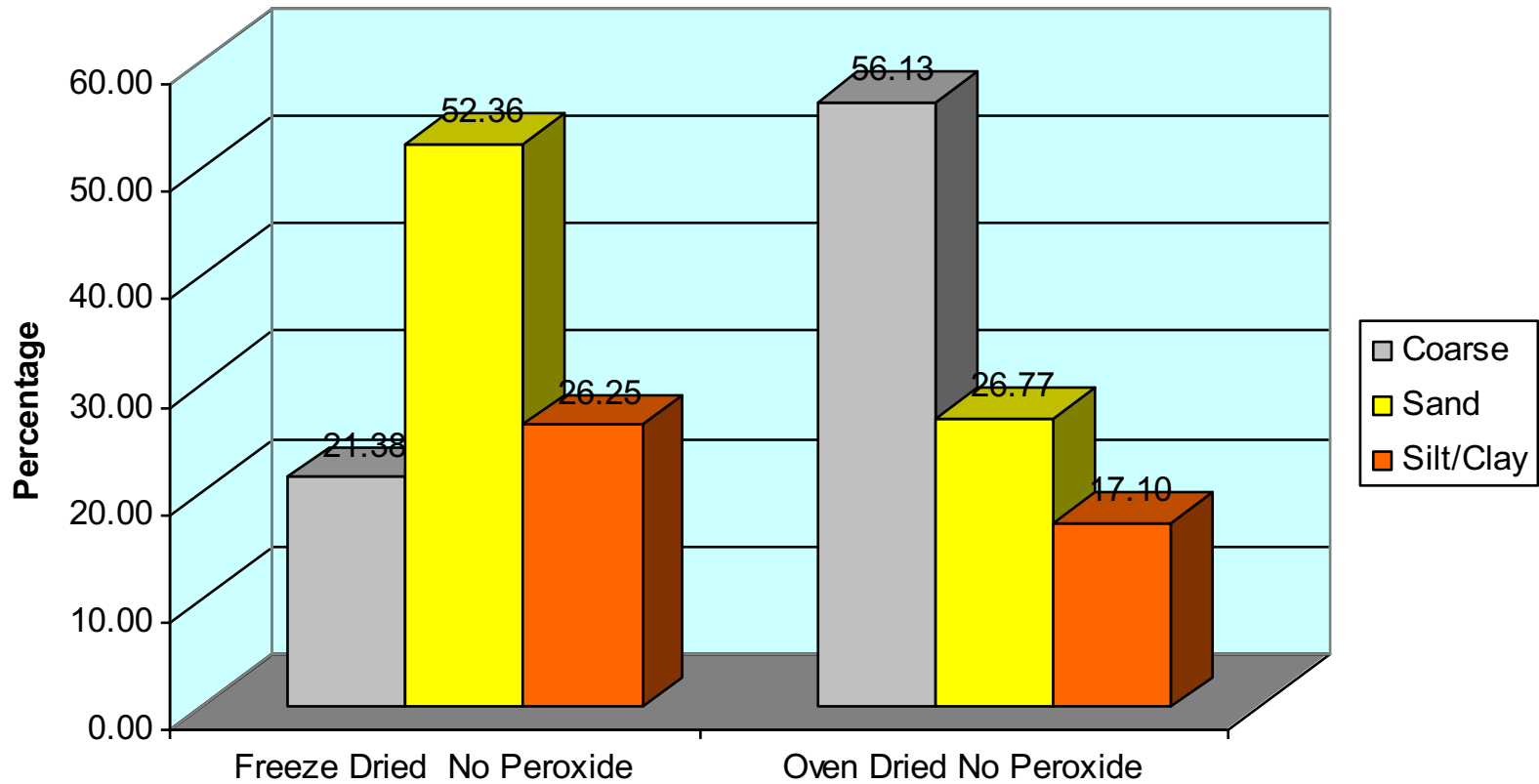
Freeze Dried verses Oven Dried (40 samples)



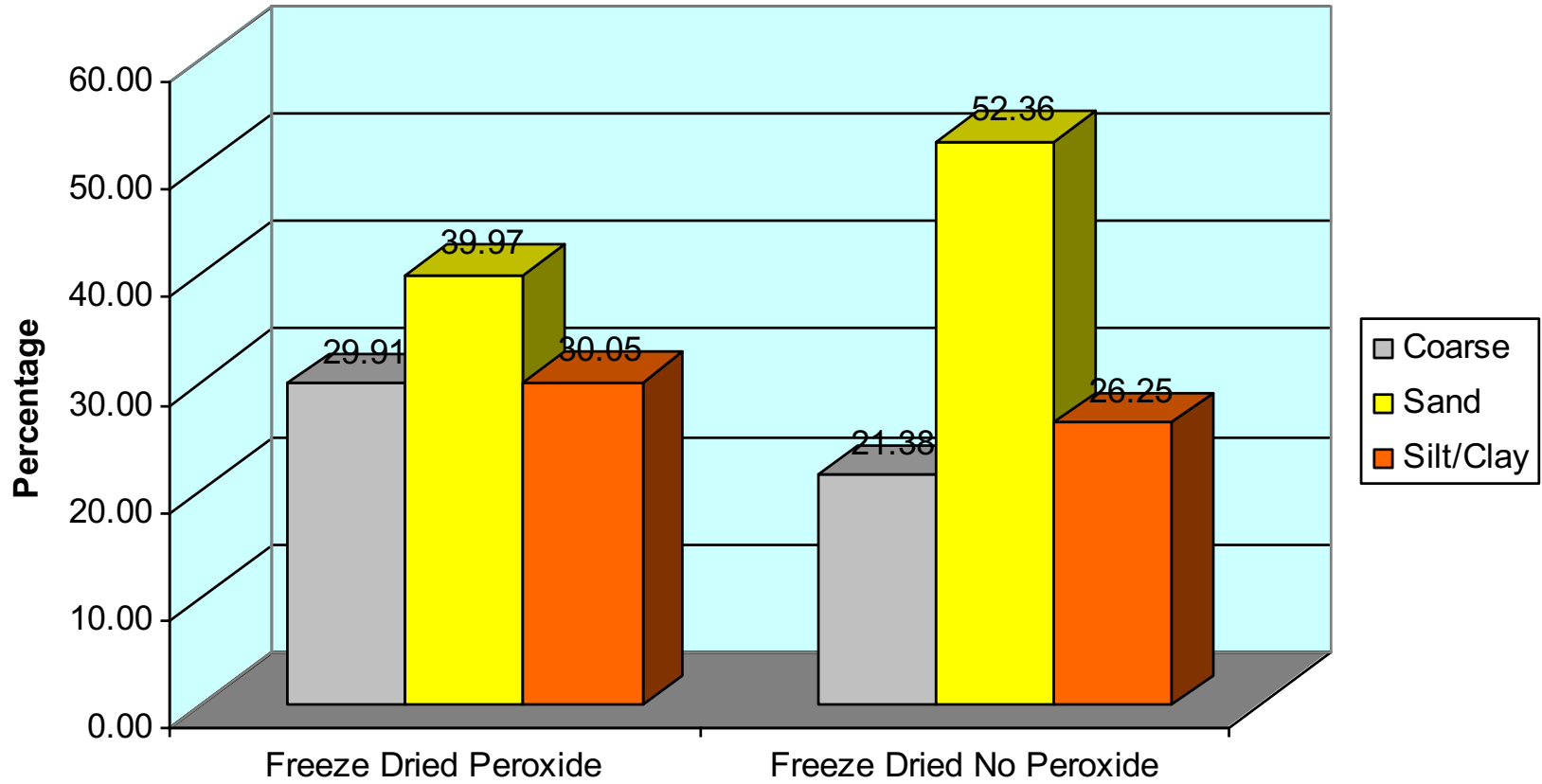
Freeze Dried Peroxide verses Oven Dried Peroxide (20 samples)



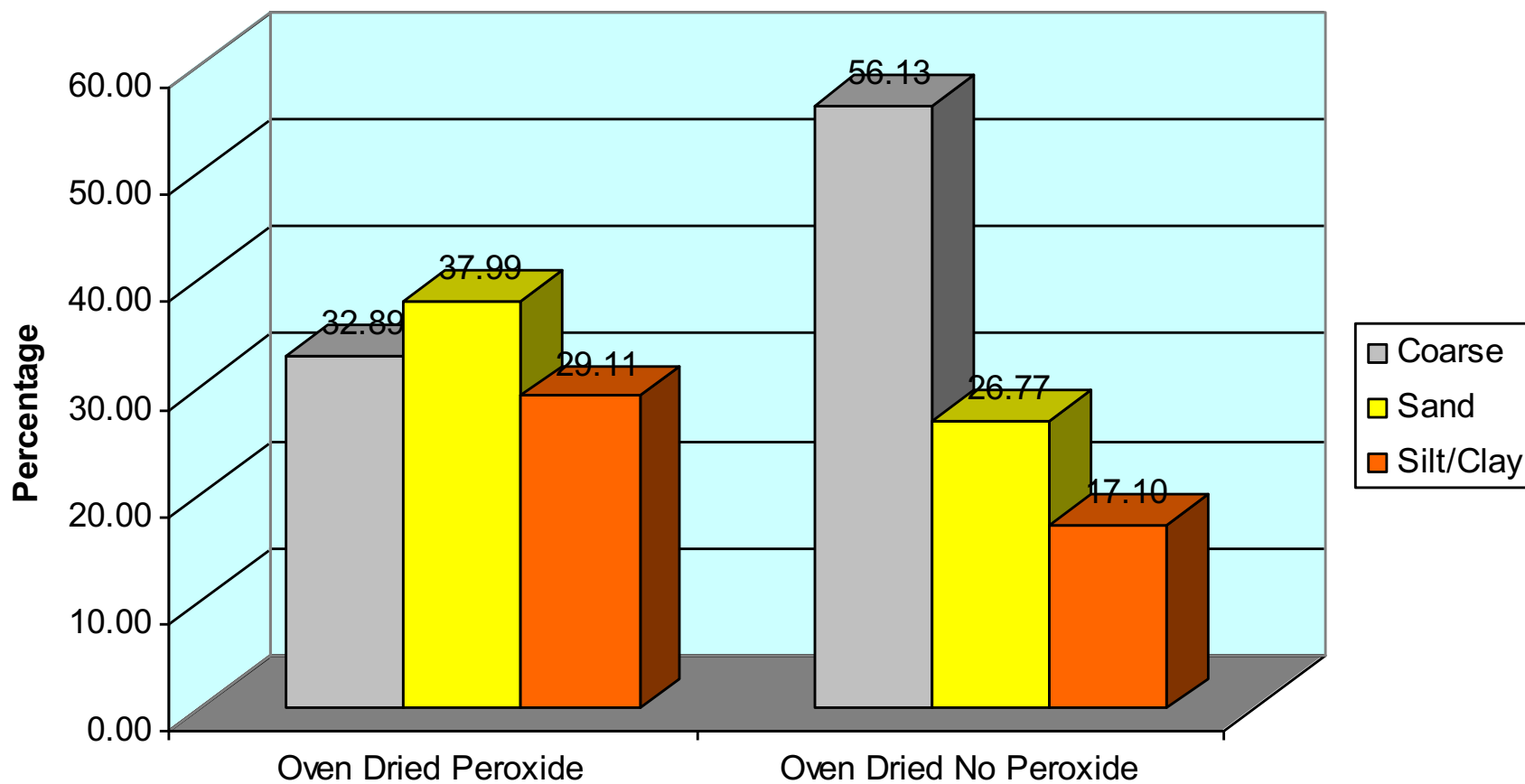
Fereeze Dried No Peroxide verses Oven Dried No Peroxide (20 samples)



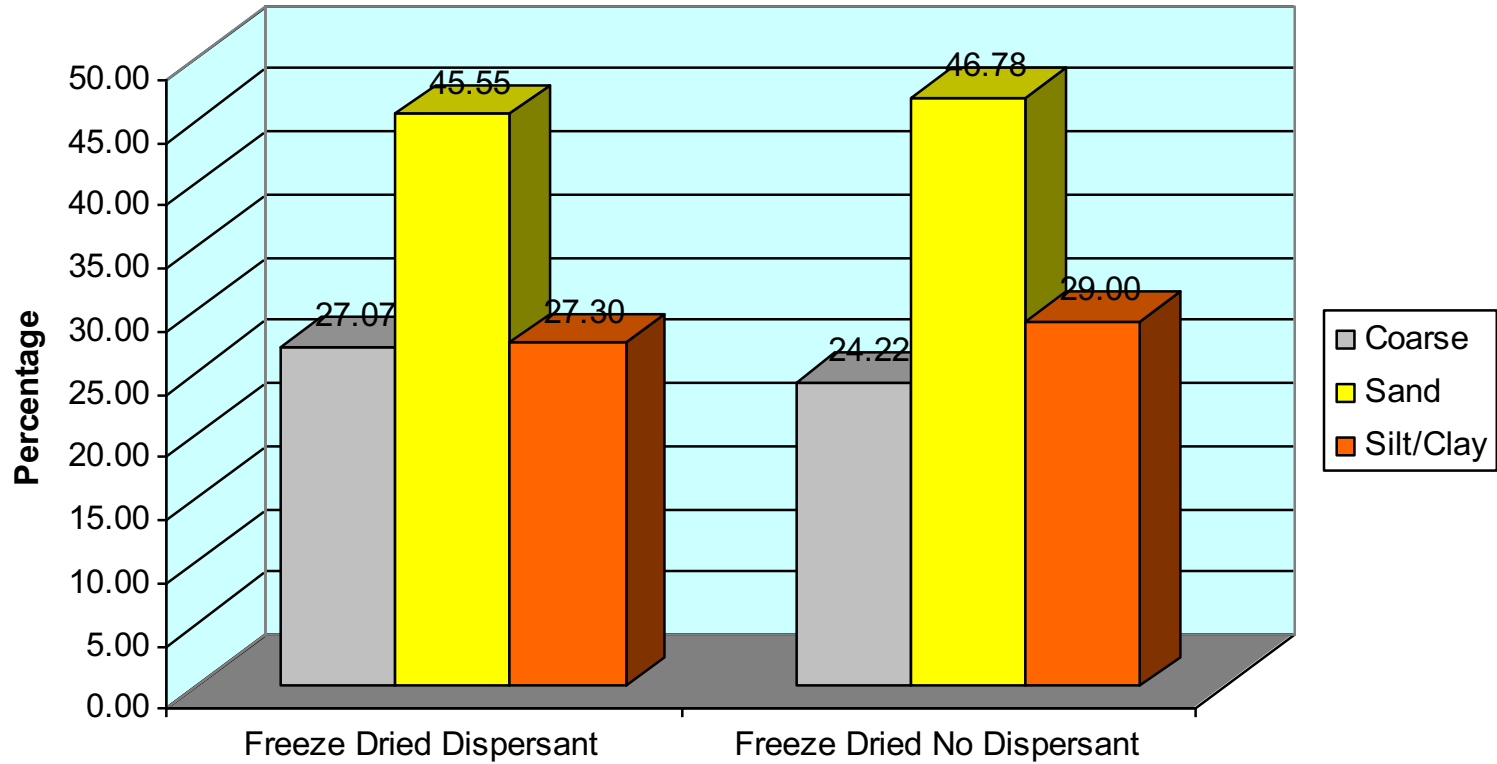
Freeze Dried Peroxide versus Freeze Dried No Peroxide (20 samples)



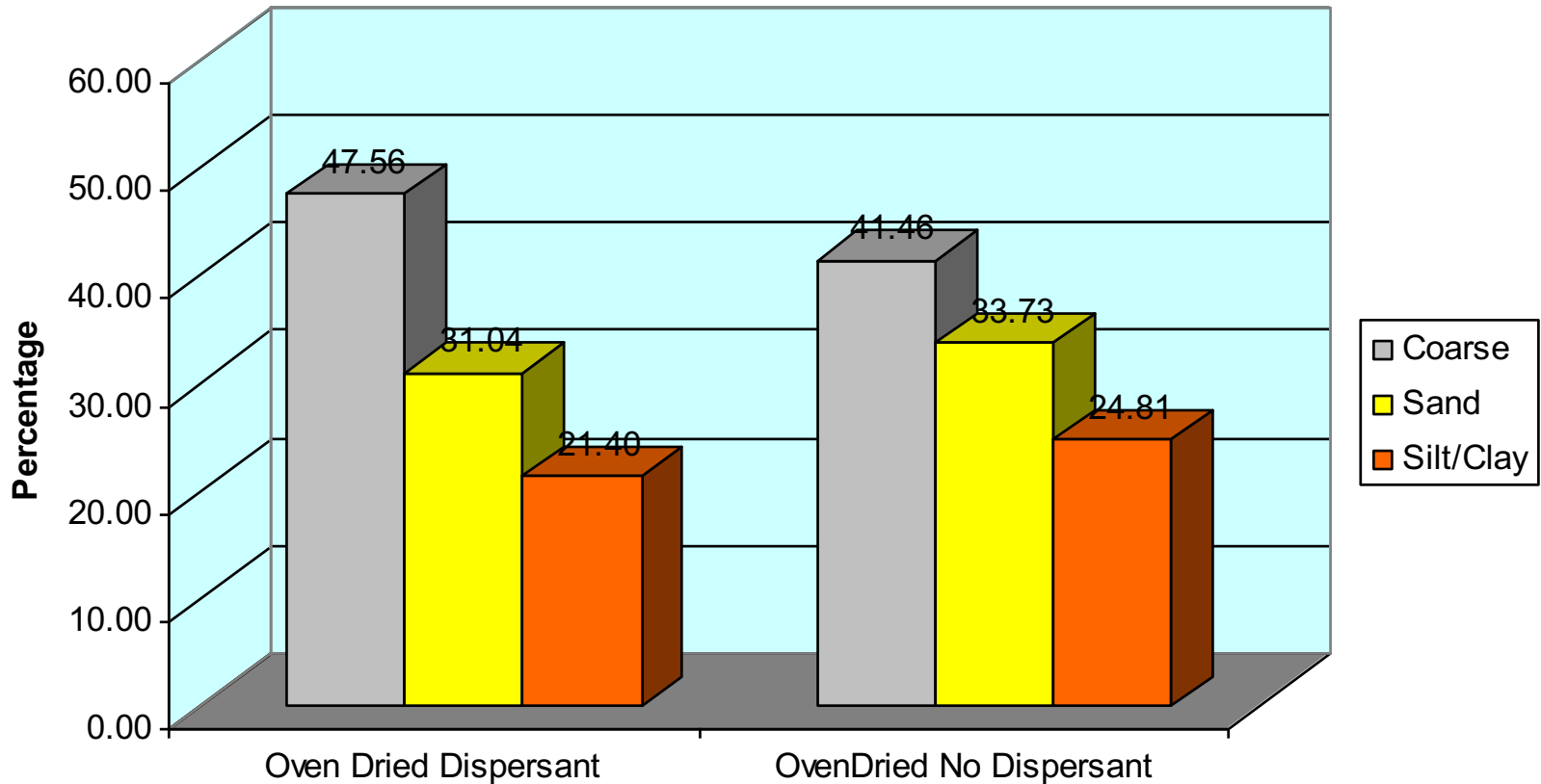
Oven Dried Peroxide verses Oven Dried No Peroxide (20 samples)



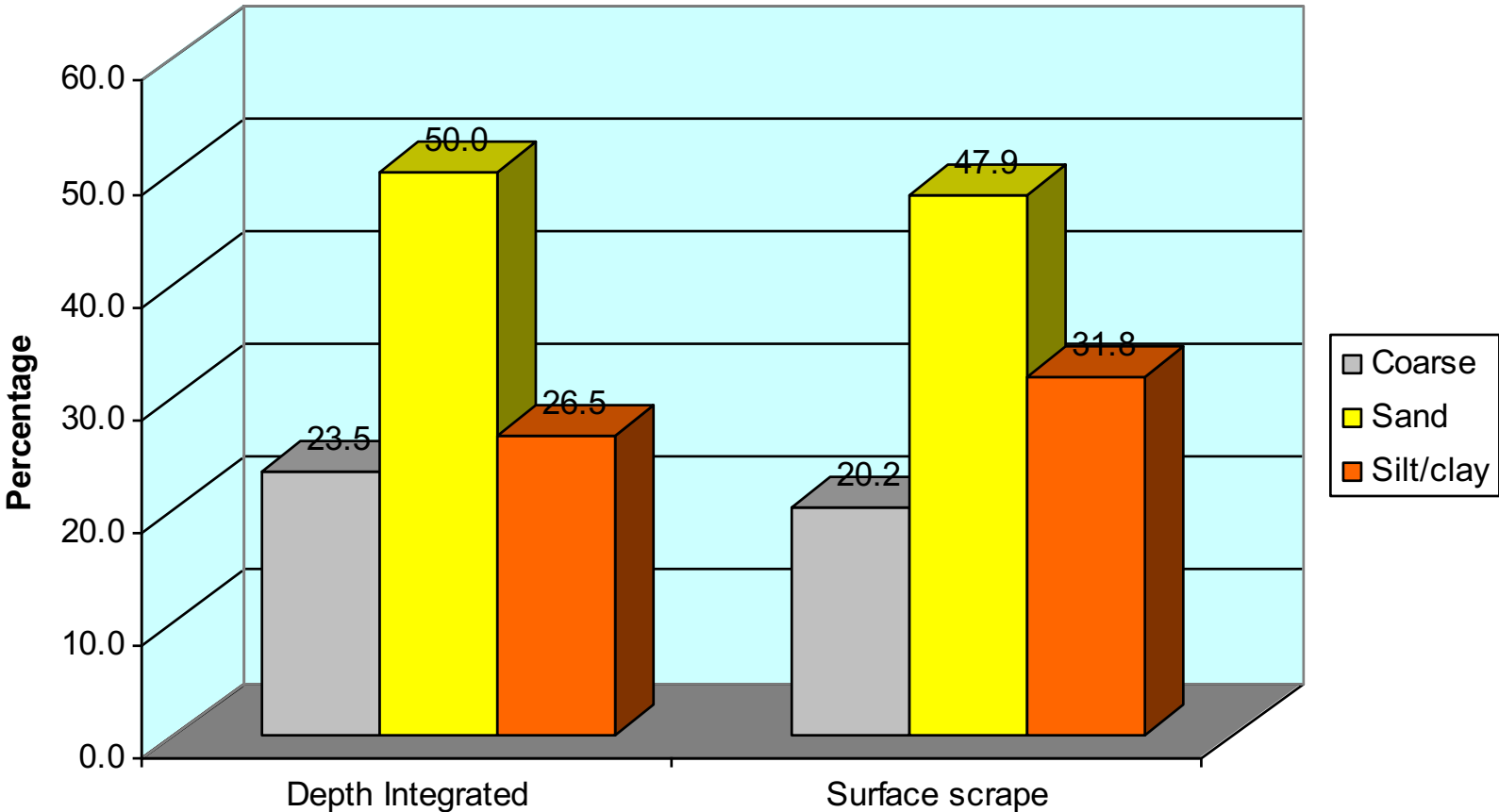
Freeze Dried Dispersant Verses Freeze Dried No Dispersant (20 samples)



Oved Dried Dispersant verses Oven Dried No Dispersant (20 samples)

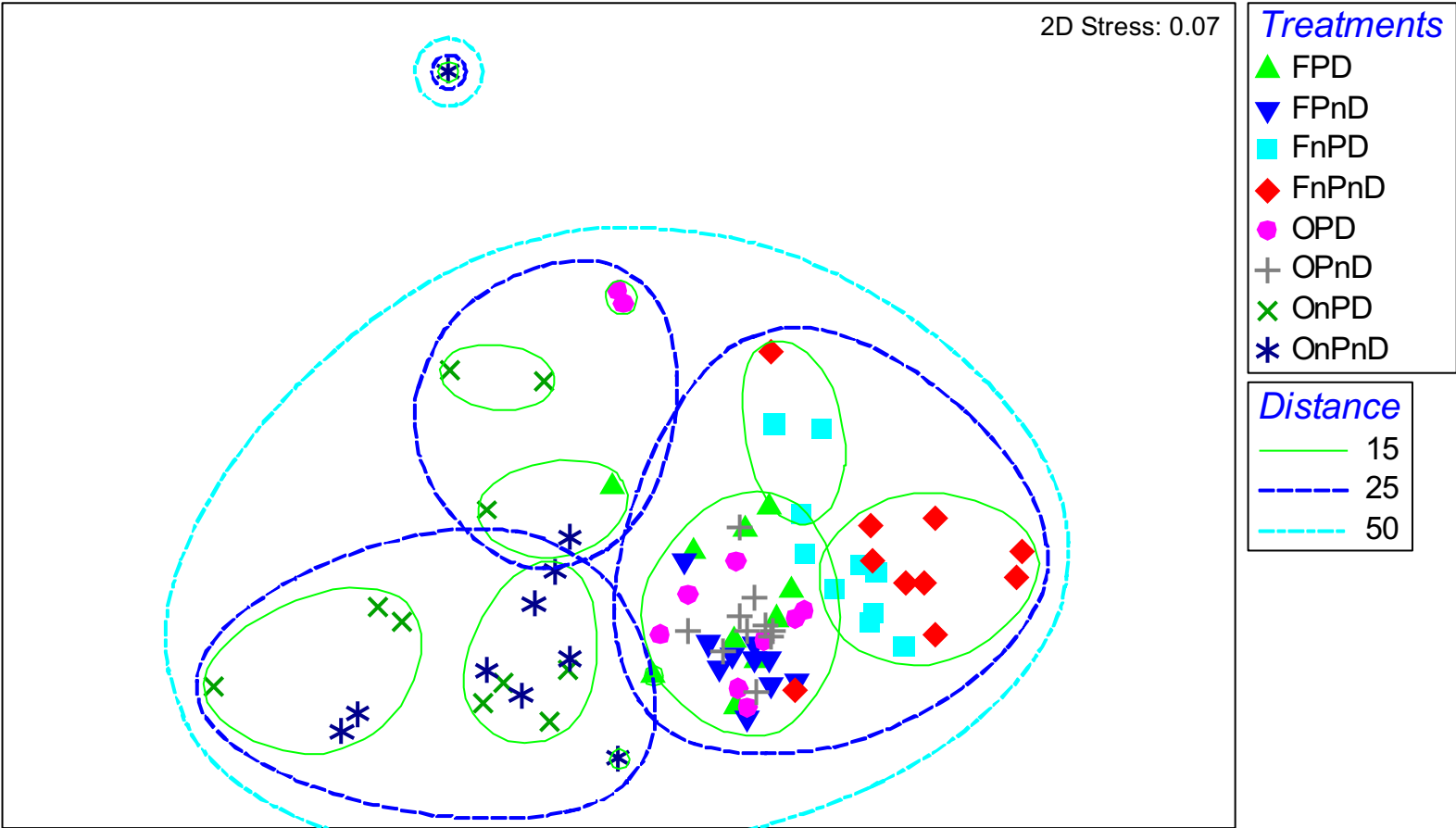


Depth Integrated verses Surface Scrape (10 samples)



Resemblance: D1 Euclidean distance

2D Stress: 0.07



Conclusions (Tentative – without statistical back-up)

- Avoid Oven Drying
- If you must oven dry, use peroxide
- Dispersant (at the concentrations we used) makes little difference.
- Surface scrapes are as expected – a little less coarse and a little more fines.

Our aim is to protect, conserve
and promote our natural and built
environment for the benefit of
present and future generations.

