Conclusions

- The FNAL E866/NuSea results clearly show that $\bar{u} \neq \bar{d}$ in the proton, confirming NMC's observation of the violation of the Gottfried Sum Rule and the NA51 result.

- The FNAL E866/NuSea results provide unique and stringent constraints on the parton distribution functions.

- The $\bar{d} - \bar{u}$ results suggest that the meson cloud may play a significant role in the nucleon sea.

- A letter-of-intent has been submitted to extend the $\bar{d}/\bar{u}$ measurement to larger values of x, where there is no data constraining the parton distribution fits, using the 120 GeV Fermilab Main Injector.