

# Pole Impact Analysis Information Sheet

## **Find Delta V Analysis Screen (Right)**

Find the vehicle's approximate change in velocity by entering the weight and estimated impact speed. The results will also show the vehicle's final velocity and whether or not the pole will shear.

The screenshot shows the 'Pole Impact Analysis' software window. The title bar reads 'Pole Impact Analysis'. The main window has a blue header with the title 'Pole Impact Analysis'. Below the header, the date is '11/15/2006' and the case ID is '555'. There are two radio buttons under 'Choose Analysis': 'Find Delta V' (selected) and 'Find Impact Speed'. The input fields are: 'Vehicle Weight: 3650 LBS', 'Class: 4 Pole' (dropdown), and 'Impact Speed: 44 MPH'. There are two buttons: 'Analyze' and 'PRINT'. The 'Results' section shows: 'Delta V: 18.36 MPH', 'Final Velocity: 25.64 MPH', and a status message: 'The Pole Will Shear'.

The screenshot shows the 'Pole Impact Analysis' software window. The title bar reads 'Pole Impact Analysis'. The main window has a blue header with the title 'Pole Impact Analysis'. Below the header, the date is '11/15/2006' and the case ID is '555'. There are two radio buttons under 'Choose Analysis': 'Find Delta V' and 'Find Impact Speed' (selected). The input fields are: 'Vehicle Weight: 3650 LBS', 'Class: 5 Pole' (dropdown), and 'Crush: 18 IN'. There are two buttons: 'Analyze' and 'PRINT'. The 'Results' section shows: 'Impact Velocity: 20.05 MPH (Nystrom Method)' and 'Impact Velocity: 14.85 MPH (Morgan Method)'.

## **Find Impact Speed Analysis Screen (Left)**

Find the vehicle impact velocity by entering its weight and the depth of maximum crush. The results show the values given by two published methods to provide the investigator with a sufficient range of possible impact speeds.