

ASPO-Australia

Australian Association for the Study of Peak Oil & Gas

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Lack of reliability of ABARE's future oil price forecasts

SUMMARY

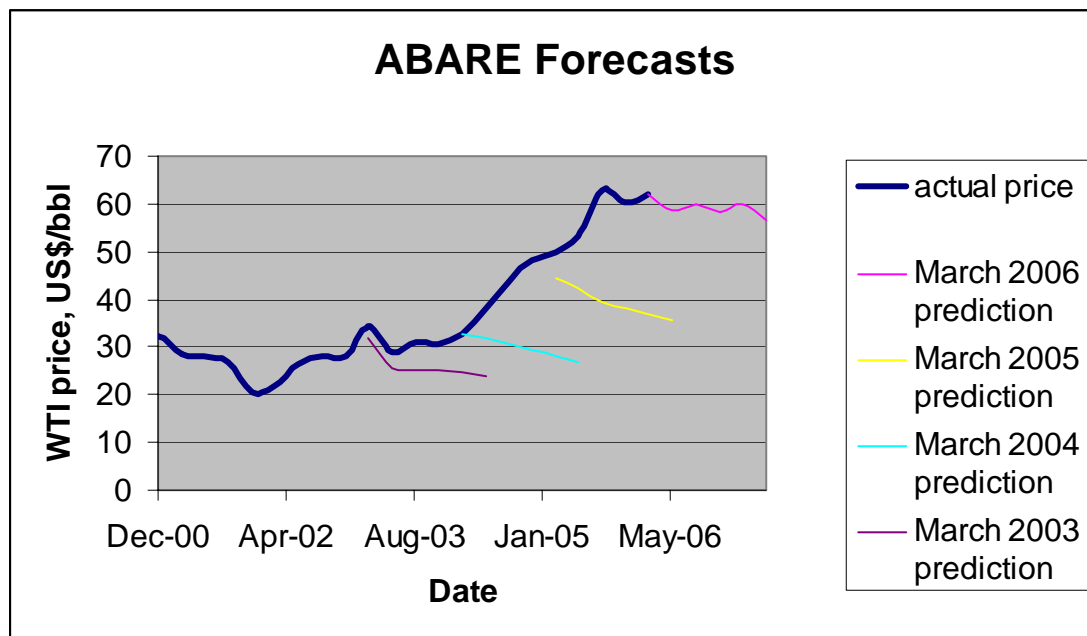
ABARE's future oil price prediction pattern is generally the same: *the oil price will gently recede from its current value*. This means that in situations where the actual oil price is trending upwards, ABARE forecasts will tend to undershoot, and the further the forecast goes into the future, the greater the gap will be.

In short, ABARE can predict the oil price under conditions where the market remains stable, because under such conditions the price *will* remain roughly constant or gradually recede. Unfortunately, stability (or lack thereof) in the oil market appears to have been totally unpredictable, which ultimately renders ABARE's forecasts unreliable.

INTRODUCTION

Since mid-2002, ABARE has consistently under-predicted WTI oil price. The further the predictions go into the future, the greater is the undershoot. This appears to be due to a trend where prices are consistently forecast to remain constant or move downward from the current price.

Prices are almost never forecast to rise, even when the dominant trend in actual prices has been upward for some time. It therefore appears that there is an ongoing unwarranted sense of optimism in ABARE regarding the stability of the oil market.



It must be concluded that at any point in time, ABARE believes that the “current price” is at some sort of peak, and that it will gently recede. This ideology has apparently not been updated or questioned, despite the last 3 years of consistently rising oil prices.

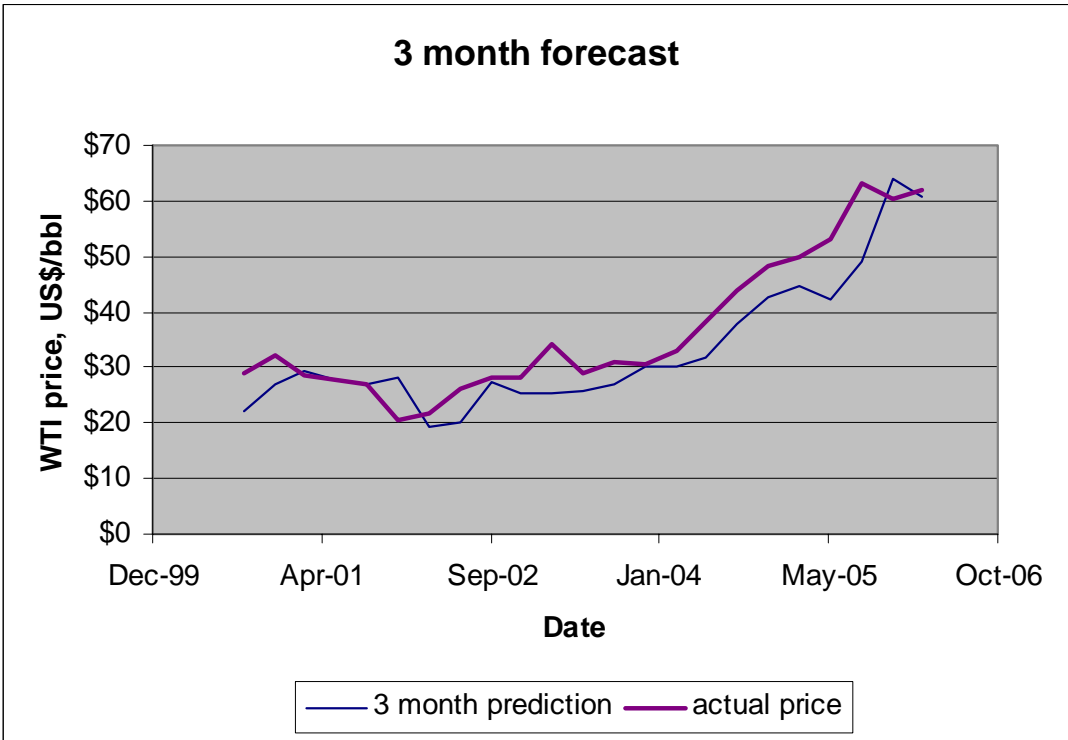
FORECAST GRAPHS

How the forecast graphs work:

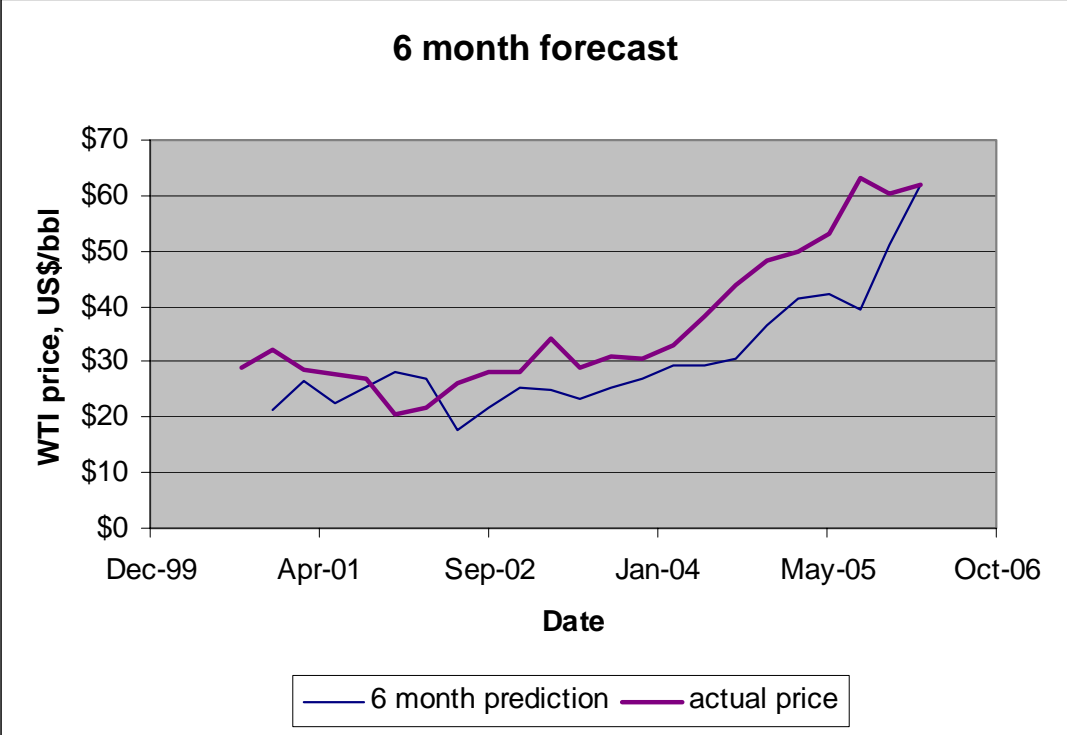
The line called “3 month prediction” is a plot of all prices that were predicted 3 months in advance. In other words, the price shown for March 2006 was taken from the December 2005 Quarterly Report (i.e. 3 months before), and the price shown for September 2005 was taken from the June 2005 report, and so on.

Each prediction line is plotted with the actual price as a comparison. It can be seen that as predictions go further into the future, the graphs tend to exhibit more and more divergence. For instance, the graph of 3 month predictions shows a reasonably good match, whereas the 9 and 12 month graphs show a large gap between the rising actual price and the predicted prices.

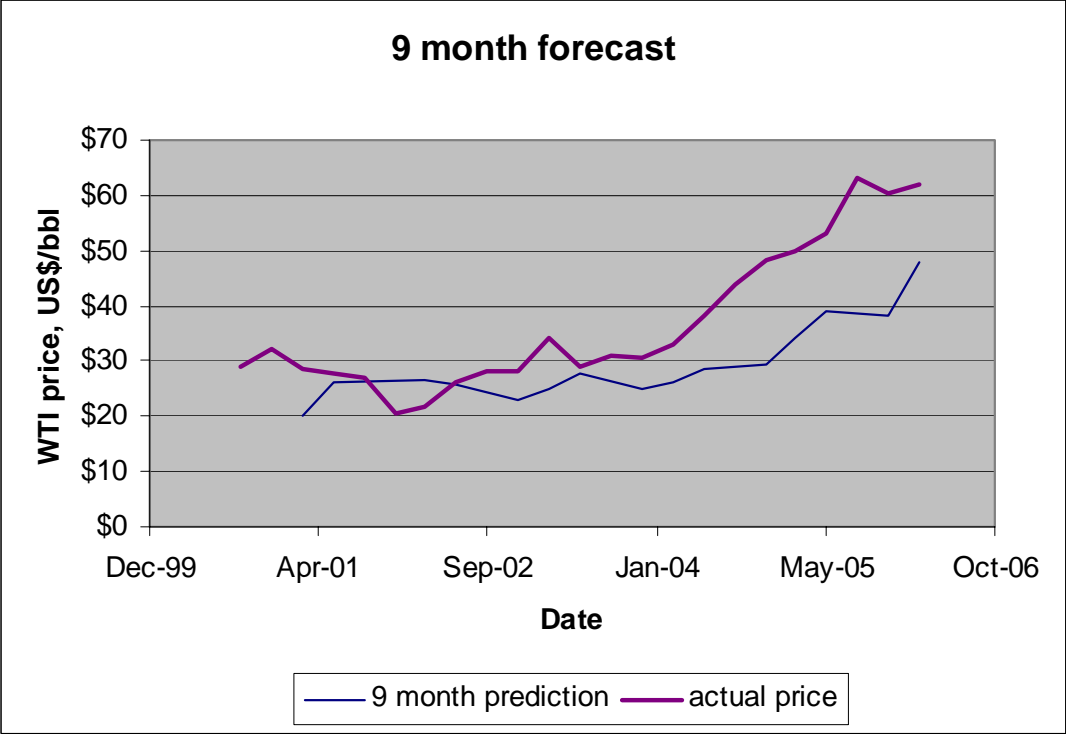
Looking at all forecasts made 3 months into the future, we see that the 3 month prediction price is, on average, about 5-10% lower than the actual price (we will refer to this as “average undershoot”).



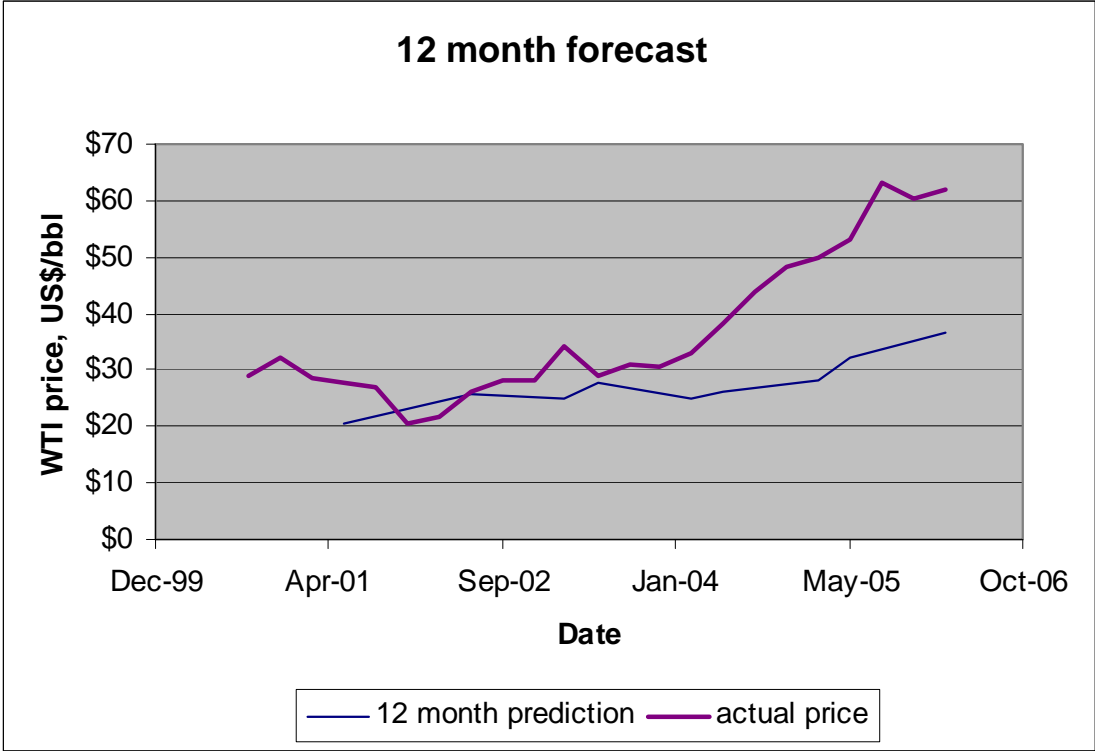
Looking now at forecasts made 6 months in advance, we see the gap between predicted and actual price widening. Overall, the average undershoot is about 15% of actual price, but over the last 2 years this has been getting wider (averaging over 20%, with a maximum of almost 40%). Evidently, ABARE's 6 month predictions do not cope well in rising price conditions.



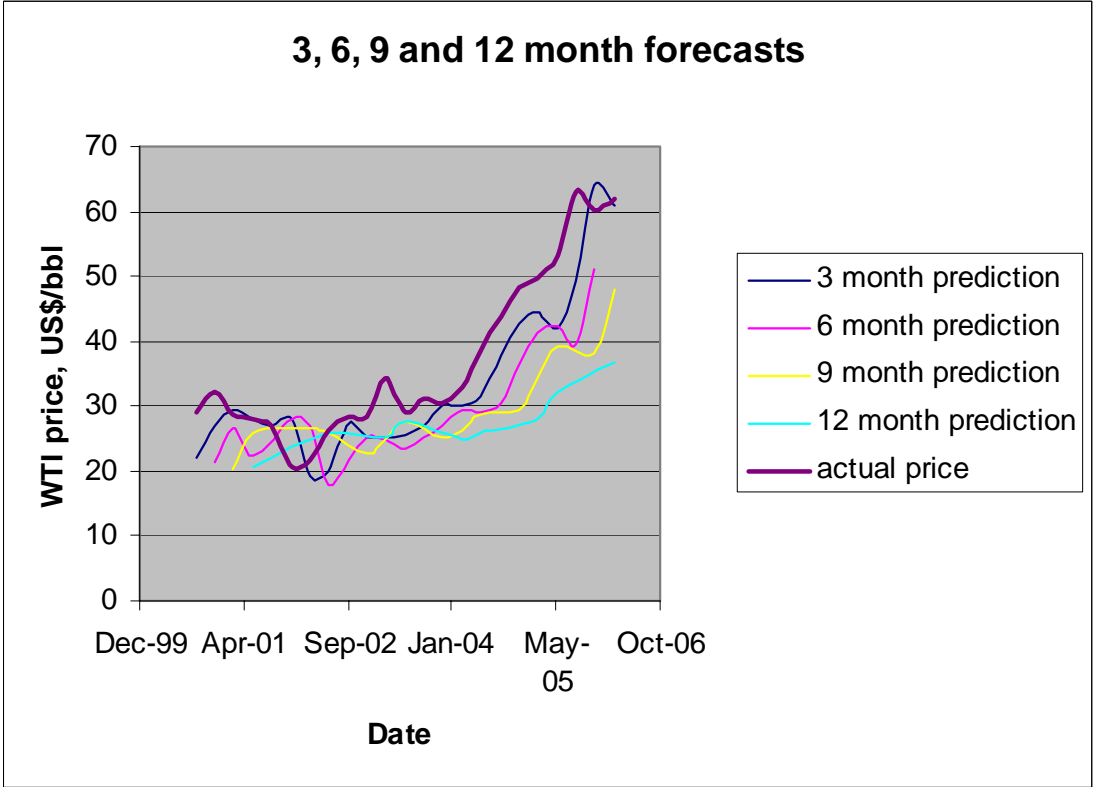
The 9 month forecasts show even more diversion from actual prices. Overall average undershoot is about 20%, and over the last 2 years the average was 30%.



Prices that are forecast one year in advance are very unreliable in conditions of rising actual prices. Overall average undershoot was over 25%, with the average over the last 2 years being close to 40%.



The final graph is simply the previous 4 graphs combined:



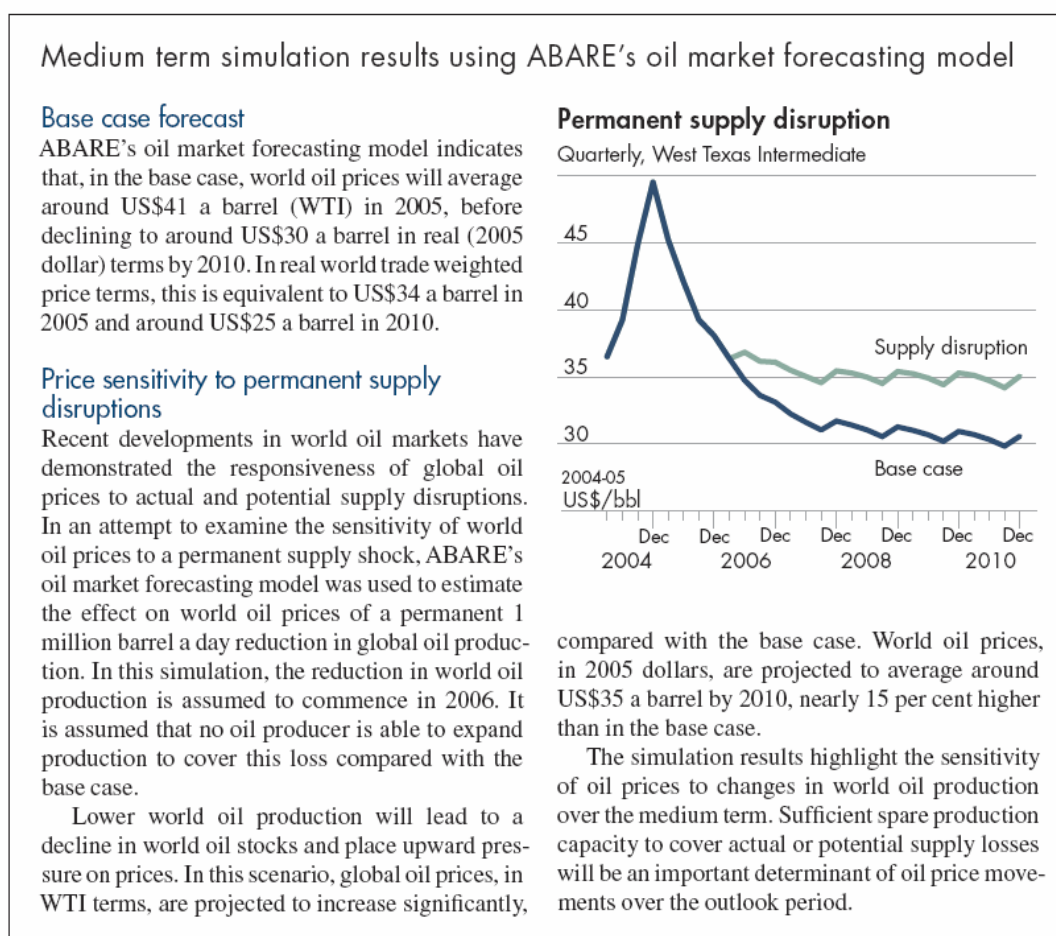
CONCLUSION

ABARE's prediction pattern is generally the same: *the oil price will gently recede from its current value*. This means that in situations where the actual oil price is trending upwards, ABARE forecasts will tend to undershoot, and the further the forecast goes into the future, the greater the gap will be.

In short, ABARE can predict the oil price under conditions where the market remains stable, because under such conditions the price *will* remain roughly constant or gradually recede. Unfortunately, stability (or lack thereof) in the oil market appears to have been totally unpredictable, which ultimately renders ABARE's forecasts unreliable.

EXAMPLE

ABARE *australiancommodities* • vol. 12 no. 1 • march quarter 2005



APPENDIX

A copy of this collation comparing ABARE's forecasts with actual prices and the New York Metals Exchange futures trading (NYMEX) was tabled by ASPO-Australia at the Senate Inquiry hearing in Perth on 12th April 2006

