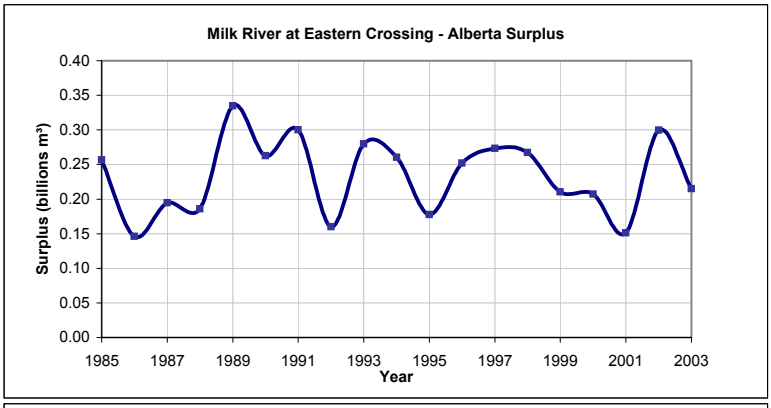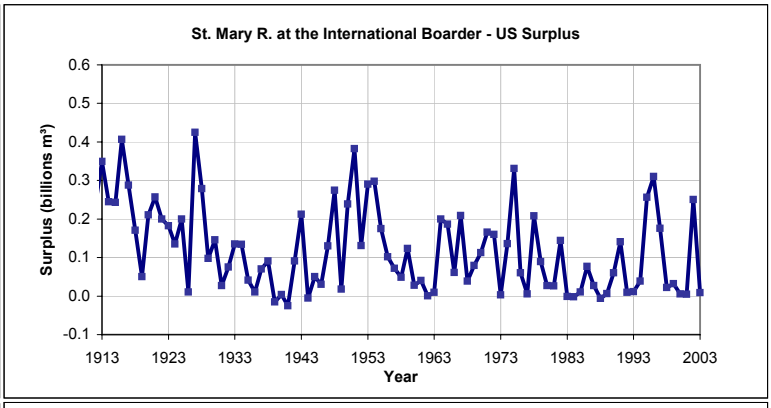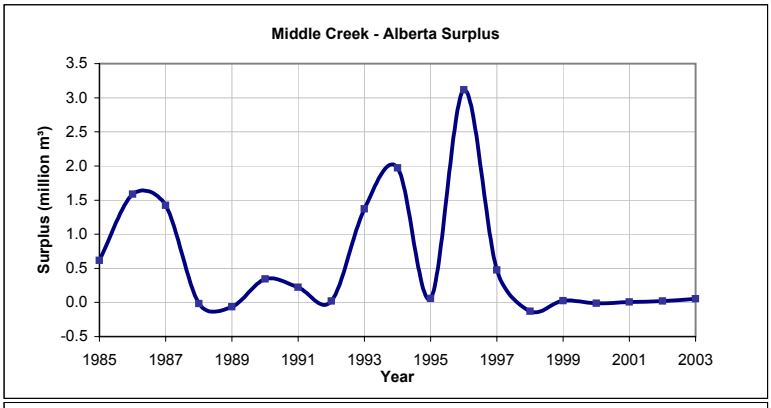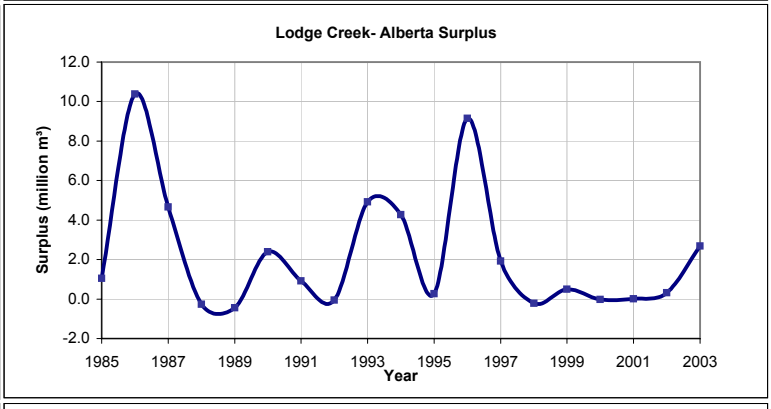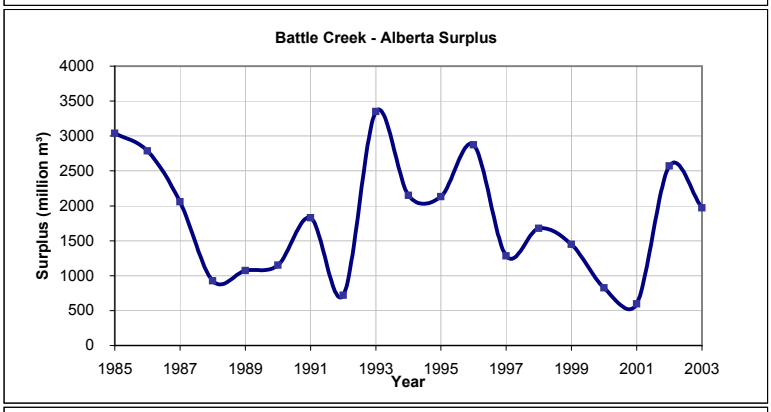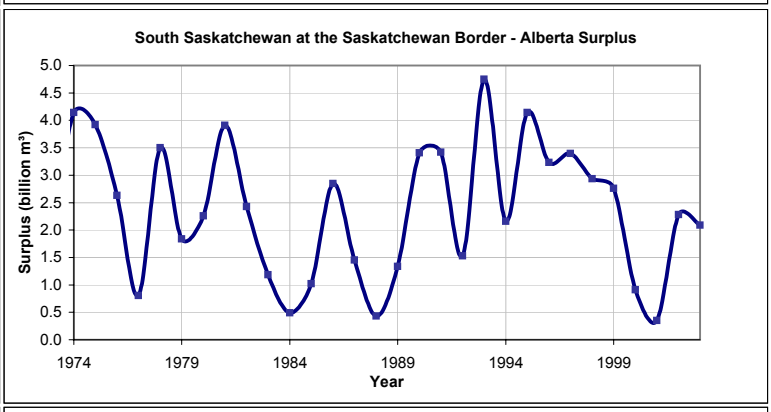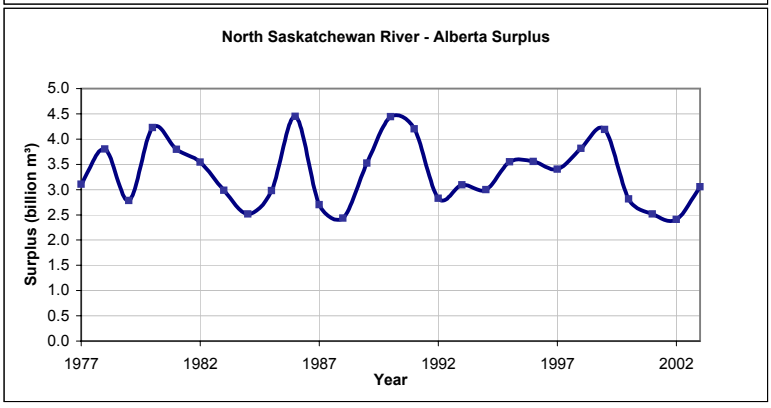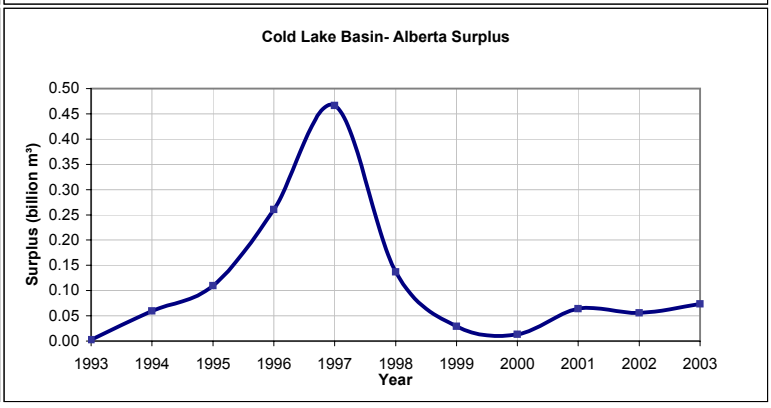Flows in Excess of Required Delivery Amounts