Date _____

Beer _____ bbls _____ °Plato _____

Generation _____

% Viability _____

lbs of yeast needed _____

_____

Number of cells counted slide 1 _____

Number of cells counted slide 2 _____

Average number of cell counted _____

Degree Plato wort x $\underline{1x10^6 \text{ viable cells/mL wort}}$ = viable cells/mL wort = _____
$\qquad\qquad\qquad\qquad$ 1° Plato

Bbl wort x $\underline{117.35L \text{ wort}}$ x $\underline{1000mL \text{ wort}}$ x _____ $\underline{\text{viable cells}}$ = total cells needed = _____
$\qquad\qquad$ 1bbl wort $\qquad$ 1L wort $\qquad\qquad$ mL wort

$\underline{\text{ (average \# of cells counted)(5)(dilution) }}$ = yeast cells/ g slurry = _____
$\qquad$ Chamber volume (0.0001mL^3)

$\underline{\text{Total cells needed }}$ = amount of yeast slurry required (g) = _____
Yeast cells/g slurry

Convert to lbs

$\qquad\qquad\qquad$ g slurry x $\underline{\qquad 1lb \text{ slurry} \qquad}$ = lbs slurry = _____
$\qquad\qquad\qquad\qquad\qquad$ 453.592 g slurry

_____

Viability $\qquad\qquad\qquad\qquad\qquad\qquad$ % difference between two slides

Total number of cells counted _____ $\qquad$ Difference between slide 1 and 2_____

Number of blue cells _____ $\qquad\qquad$ Average of slide 1 + total slide 2 _____

$\underline{\text{total \# cells -\# blue cells}}$ x 100 = % viability $\qquad$ (Difference/average) X 100
$\qquad$ total # cells