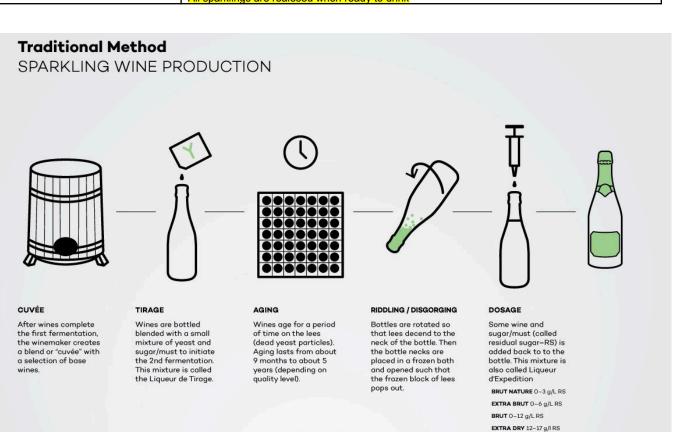
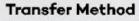
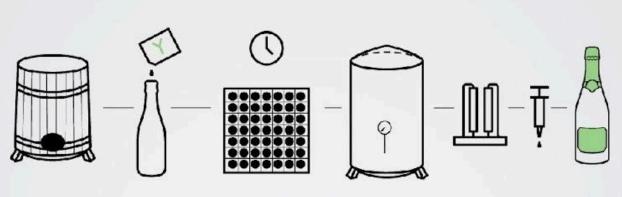
SPARKLINGS - PRODUCTION METHODS (•••)

SPARKLINGS - PRODUCTION ME Traditional	Transfer	Tank / Charmat	Asti	Carbonation
Crémant / Cava / Champagne (all French	Likely to taste like sparkling	Prosecco, Lambrusco	Asti	Low quality
	version of still NZ wine	SA's SB & Muscat		brands
Crémant / Cava / Champagne (all French AOC except Clairette de Die) 1. Picking by hand (whole bunches) 2. Whole bunch pressing Gentle extraction with minimal phenolics & cradi vertical press - 160kg grapes for 100l of Whole bunches to help free run juice flow + a 3. 1st Fermentation > dry base wine (or res Over winter following harvest 12-25°C i.e. can be warm & quick (25°C) to a Mostly stainless steel No MLF => fruitier & simpler sparkling Grape varieties fermented separately 4. Blending & cold stabilisation Possibility to blend with base wine from previous blending tanks Cold stabilisation to prevent tartrate crystals #1 influence on final wine 5. Bottling & tirage Addition of liqueur de tirage (sugar, yeasts & Liqueur de tirage: 24g/l sugar for abv +1.2-1. Strong, dark bottles+ crown cap 6. 2nd fermentation/prise de mousse in bottles+	version of still NZ wine plour from black grapes f juice avoid grape damage sugar / partial fermentation for avoid fruit & fermentation esters fous vintages (up to45% dependentation in bottle riddling agents) 3% & 4-6 atmospheres of CO2	SA's SB & Muscat méthode ancestrale) ding on houses)	Asti 1. Muscat must be chilled at 0°C until needed 2. Partial fermentation in pressure tanks to 6% abv> You never make a dry base wine 3. Fermentation interrupted via chilling 4. Filtration + removal of yeasts	
Slower (4-8 wks)	Jule ∓ I=1.0 /0dDV	tank +1-1.5%abv		
` '		In tank to retain CO2		
Use of yeasts that flocculate & leave deposit easy to remove afterwards 7. Lees ageing Once 5 atmosphere				
Length – key	• • • • • • • • • • • • • • • • • • • •			
A. Most: 9mths min fermentation stopped				
B. Champ NV: 15mths ageing w 12 on lees 7. Cooling (to -5C)				
C. Champ Vintage: 36 mths min #2 influence on final wine 8. Dosage 9. Pressure bottling				
1. Improves mouthfeel via polysaccharides 2. Reduces tartrate precipitation, 3. Improves protein stability 4. Creates acacia, biscuity, bready notes. Significant effect only after 18mths and res 8. Riddling Tradi: bottles inclined and manually turned by remueurs. 6wks+ Now: gyropallettes (1st for Cava in 70s) with 504 bottles stacked on metal racks that change orientation to precipitate yeast plug into the neck of the bottle. 3days+ 9. Disgorging Bottle necks frozen in freezing solution Bottles up ended and frozen deposit flies out. 10. Topping up dosage Bottling Bottles topped up w/ liqueur de dosage (sugar syrup & wine) Bottles corked up + wire muzzle 5-12g/l residual sugar for most sparkling wines The longer on lees, the less dosage required. Transversage used for smaller & bigger sizes (tank + bottling)	·			
LEGAL REQUIREMENTS	3 atmospheres: minimum fizzi	ness. Sweetness levels:	1	l .
	1. <6g/l - Extra Brut / Brut Nature / Extra Herb 2. 6-15g/l - Brut/Herb 3. 12-20g/l - Extra Sec/Extra Trocken 4. 17-35g/l - Sec/Trocken 5. 33-50g/l - Demi-sec/Halbtrocken 6. >50g/l - Doux/Mild			
STYLES	1. Non-vintage: blend of several years 2. Vintage: single year base wine (Champagne), min 85% (other regions) 3. Rosé: addition of red wine or skin contact (rare) 4. Blanc de blancs: 100% white grapes (Chardonnay for Champagne). Meaningless for basic sparkling wines.			





SPARKLING WINE PRODUCTION



OUVÉE

After wines complete the first fermentation, the winemaker creates a blend or "ouves" with a selection of base wines.

TIRAGE

Wines are bottled blended with a small mature of yeast and sugar/must to initiate the 2nd fermentation. This mixture is called the Liqueur de Tirage.

AGING

Wines age for a period of time on the less (dead yeast particles). Aging lasts from about 9 months to about 5 years (depending on quality level).

TANK TRANSFER & FILTERING

Battles are opened and contents are transfered into high pressure tanks and then wine is clarified by being passed through high pressure filters.

DOSAGE

DRY 17-32 g/L RS DEMI SEC 32-50 g/L RS DOUX 50+ g/l RS

> Some wine and augor/must (called residual sugar—RS) is added back to to the bottle. The mixture is also called Liqueur d'Expedition

BRUT NATURE()=3g() -5

EXTRA BRUT 0-0 GL RS

BRUT 0-12 g/L R6 EXTRA DRY 12-17 g/L RS

DRY 17-37 g/j NS

DEMI SEC 32-50 g/L RS

DOUX 50 p/I RS

