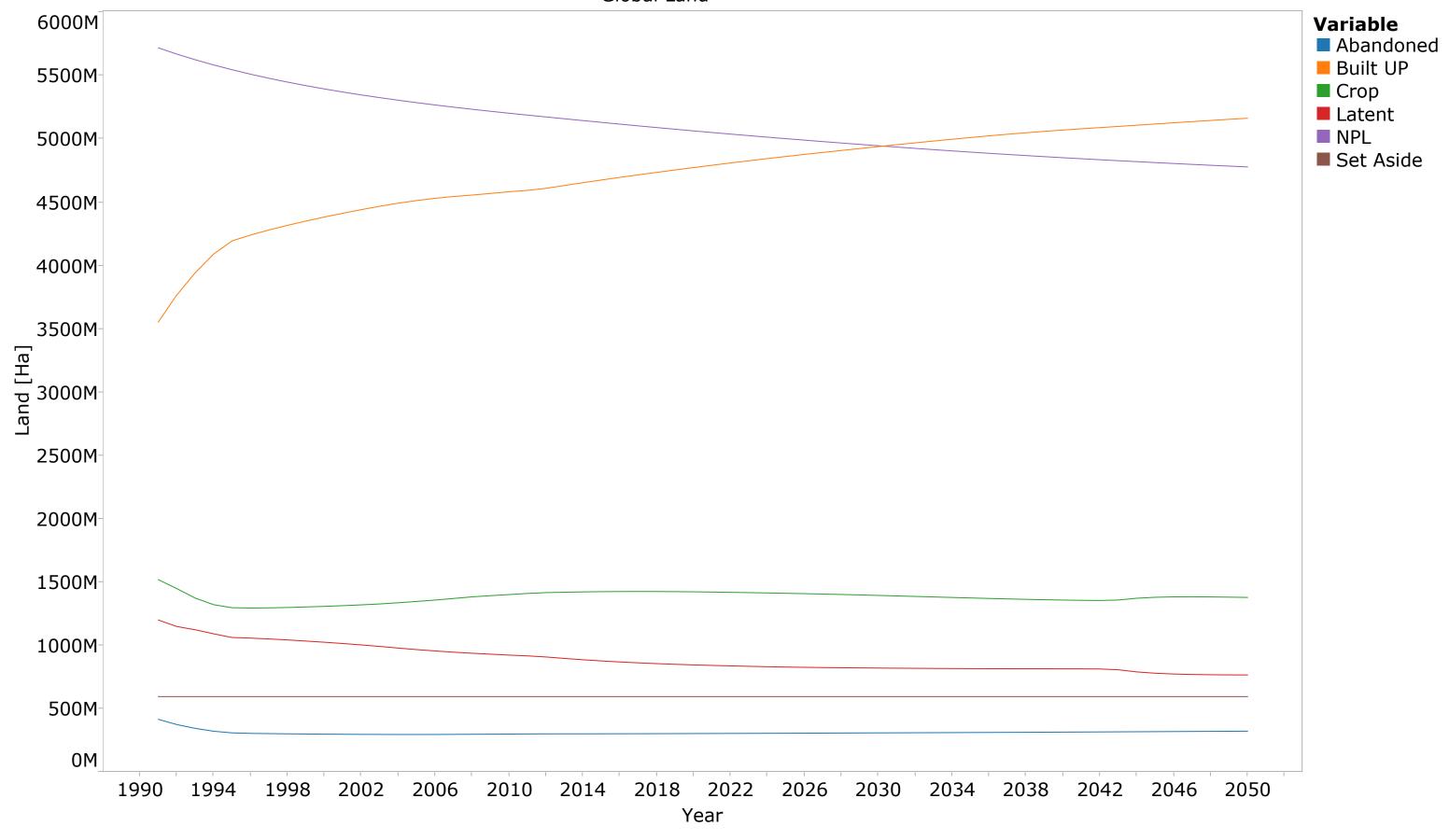
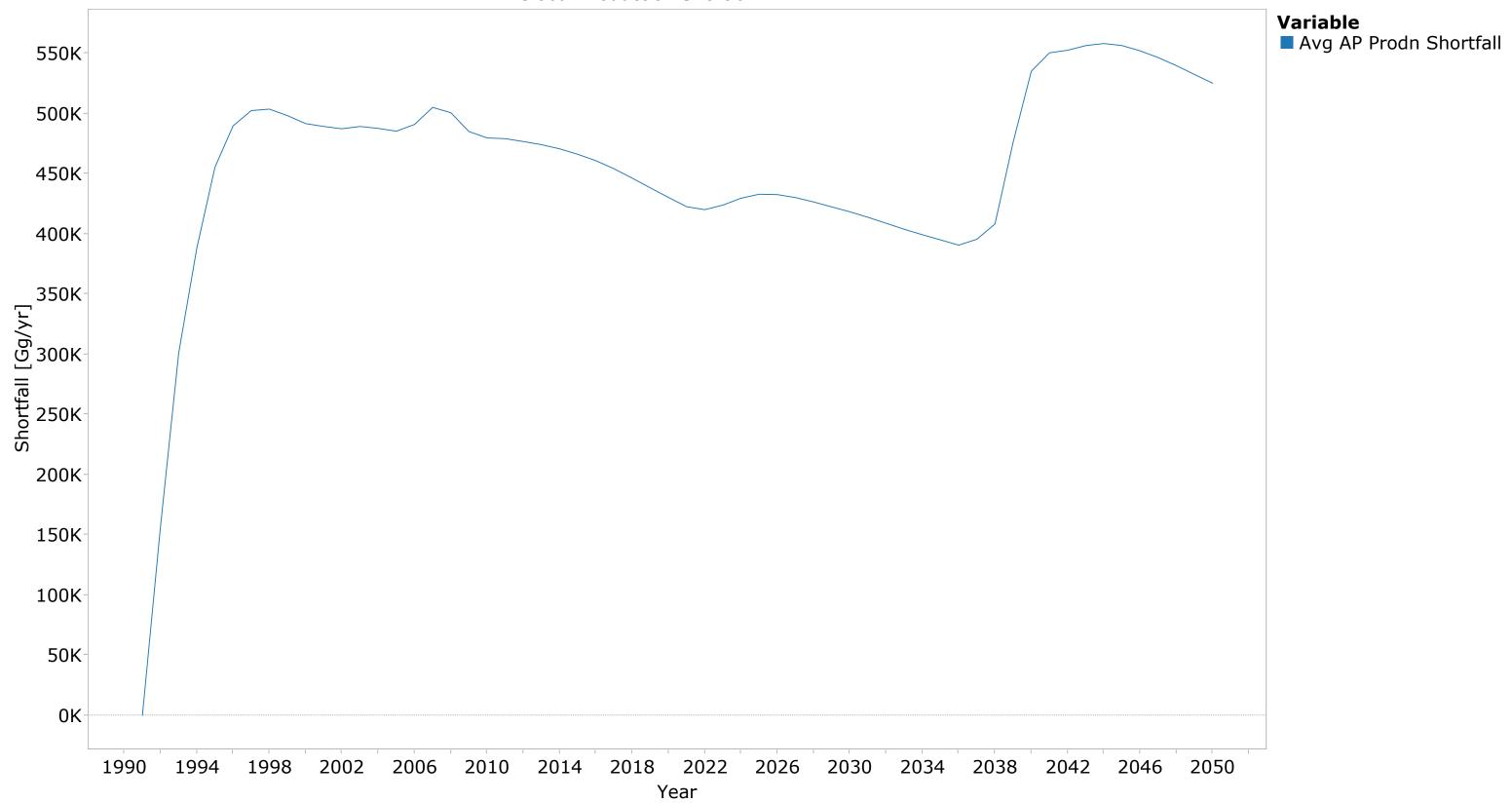
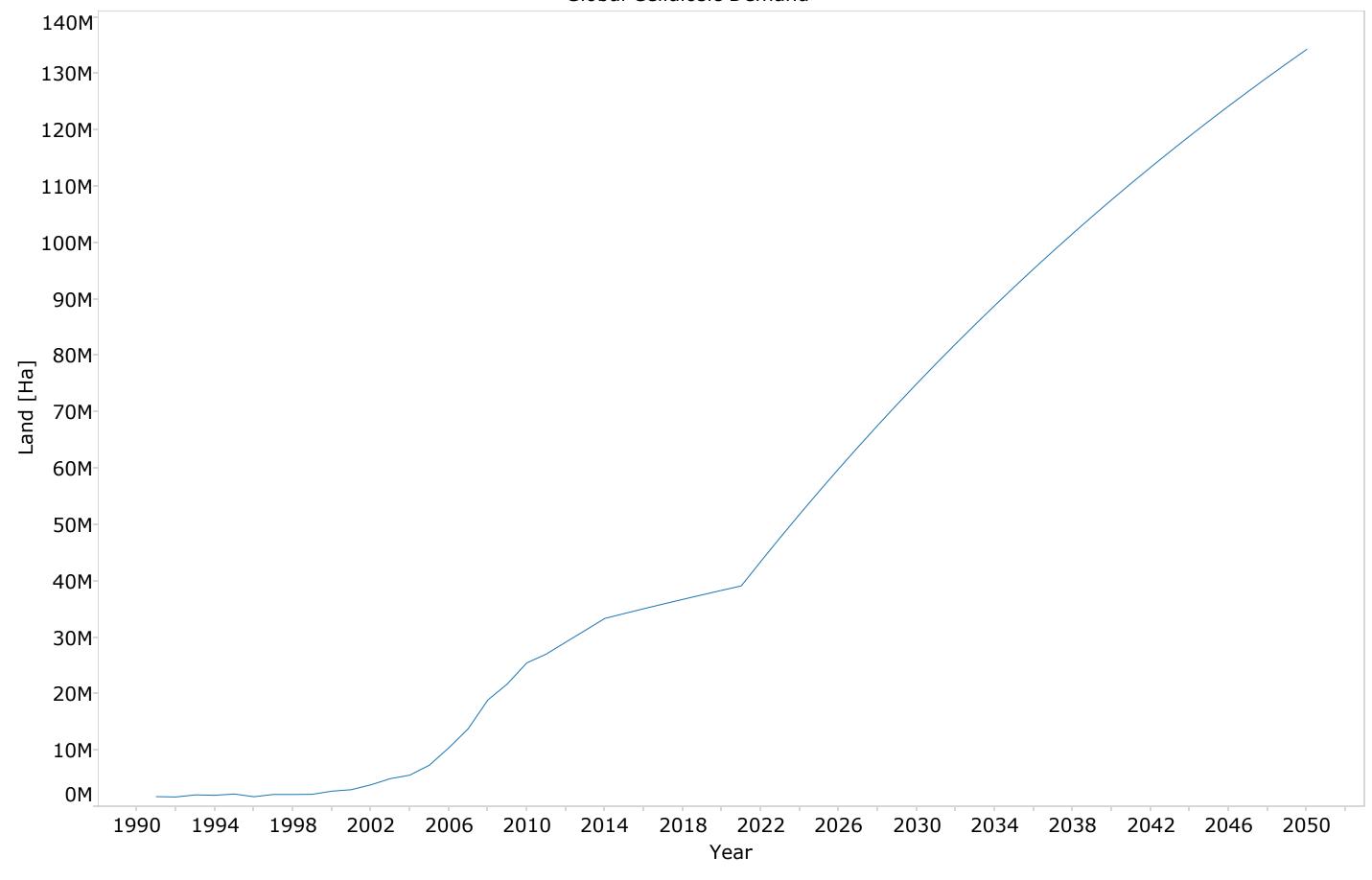
Global Land



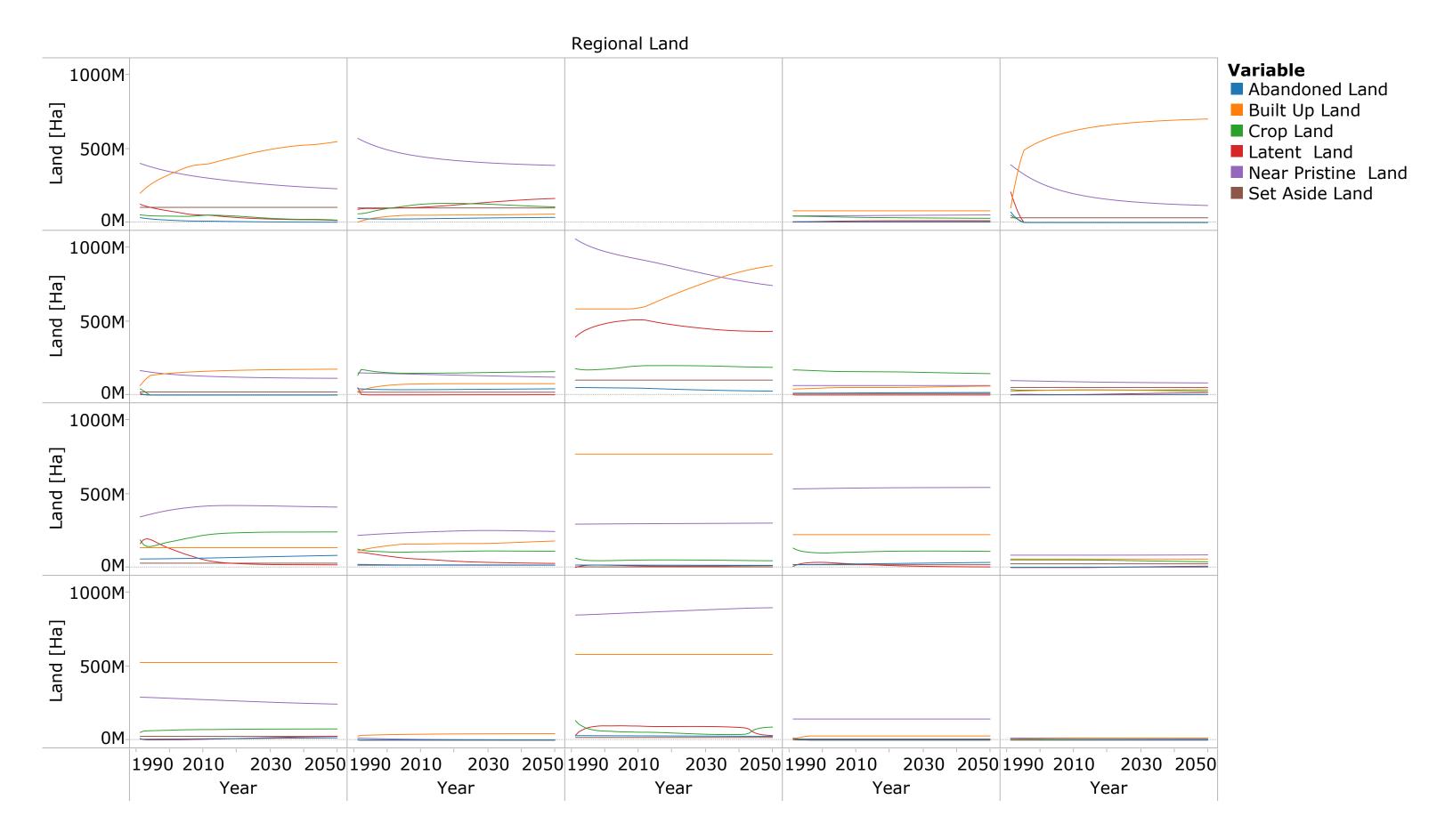
Global Production Shortfall



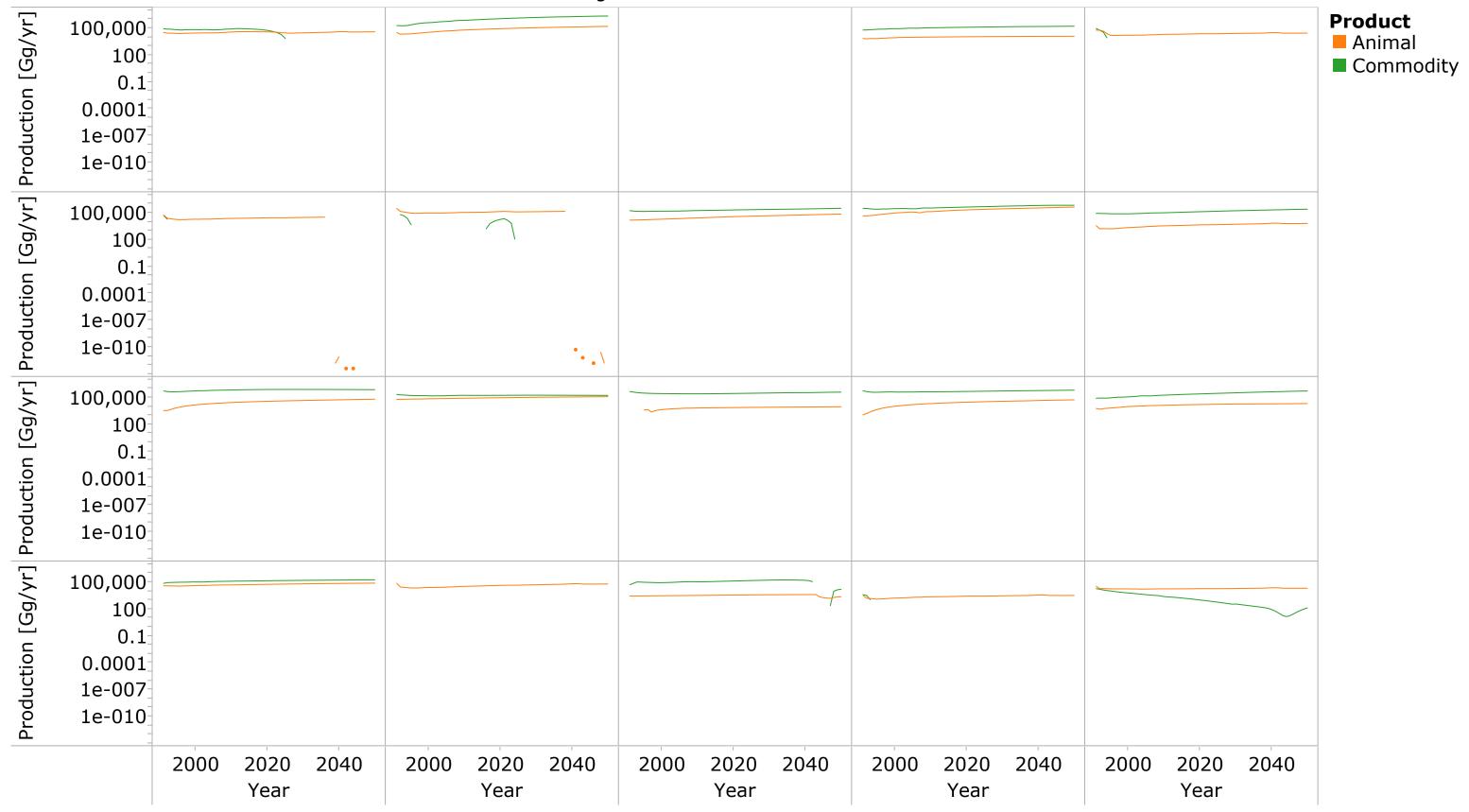


Key to Regions

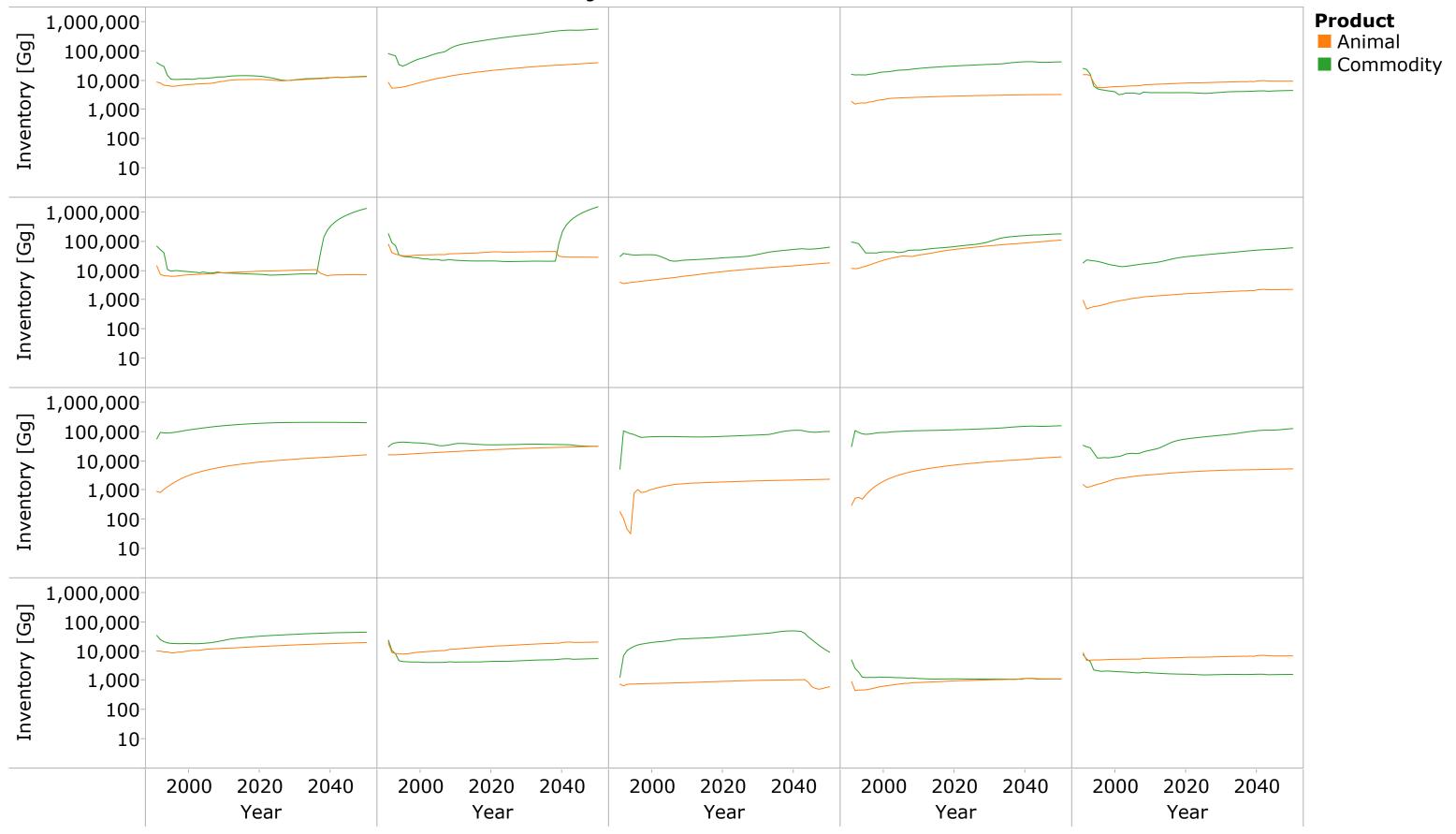
S o Amer	BRAZIL		R S Asia	Oceania
C C Amer	EU27	S S AFR	INDIA	Mala Indo
USA	Oth CEE CIS	MEAS NAfr	CHIHKG	R SE Asia
CAN	R Europe	Russia	E Asia	JAPAN

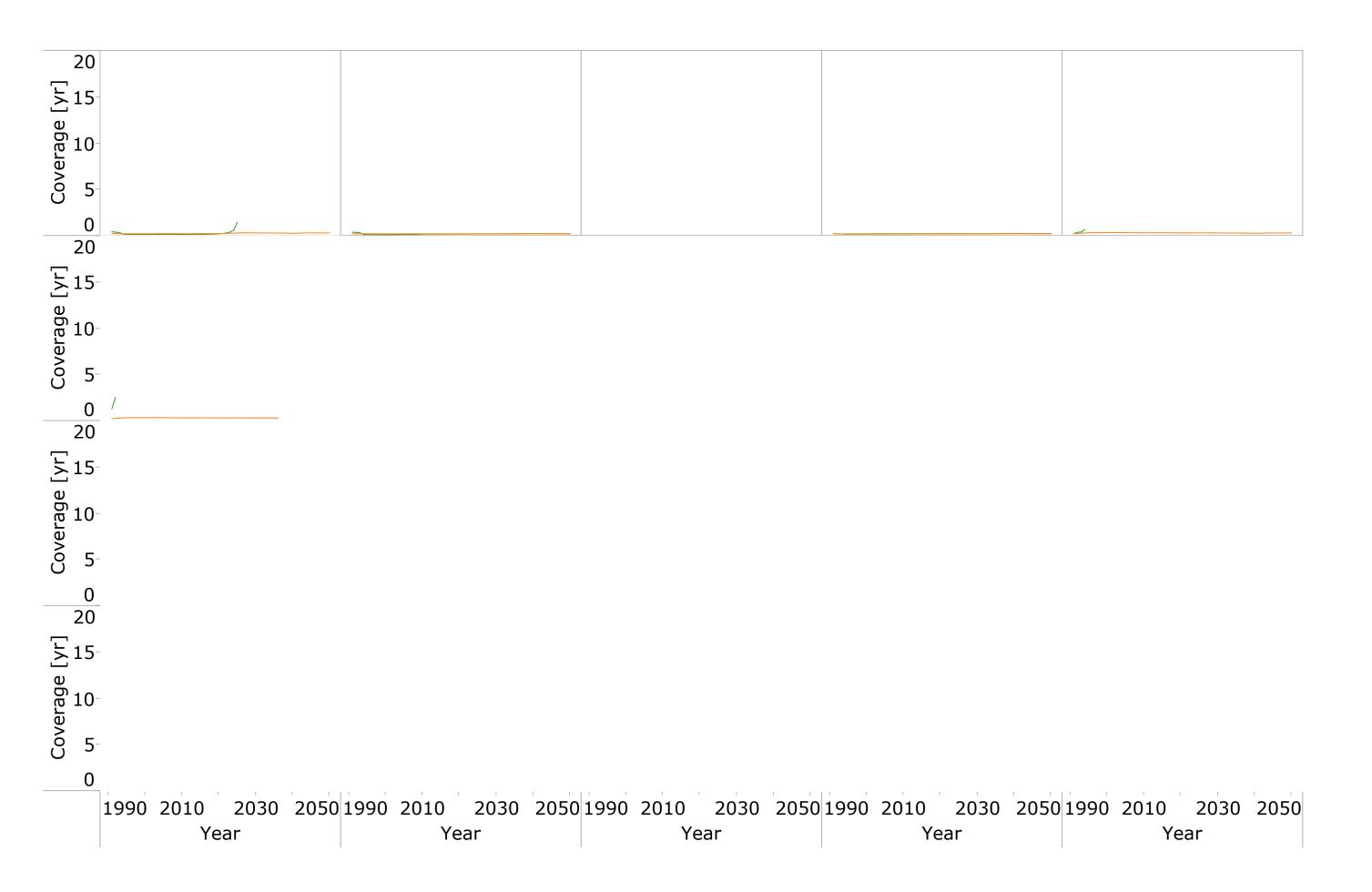


Regional Production

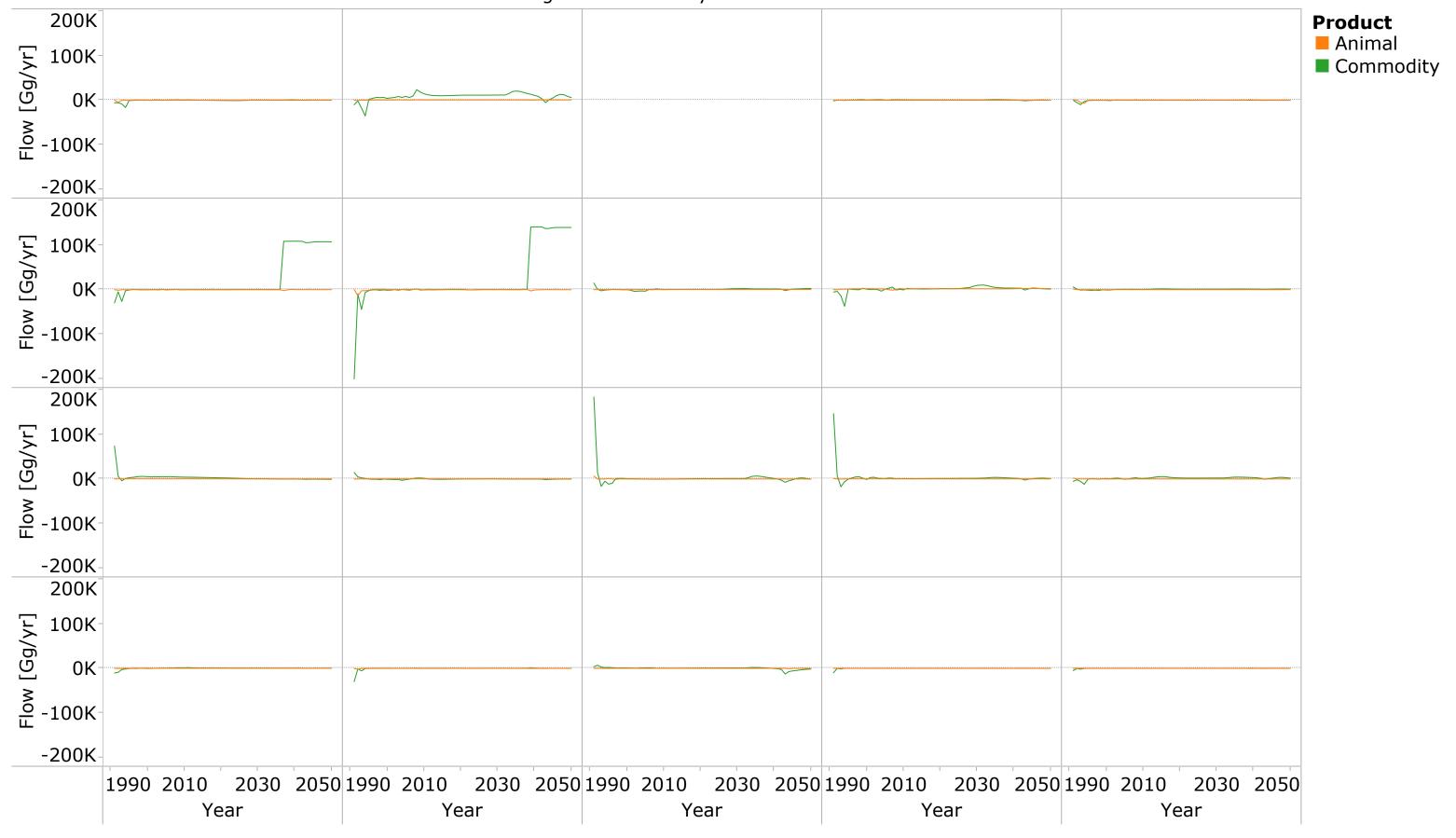


Regional Inventories

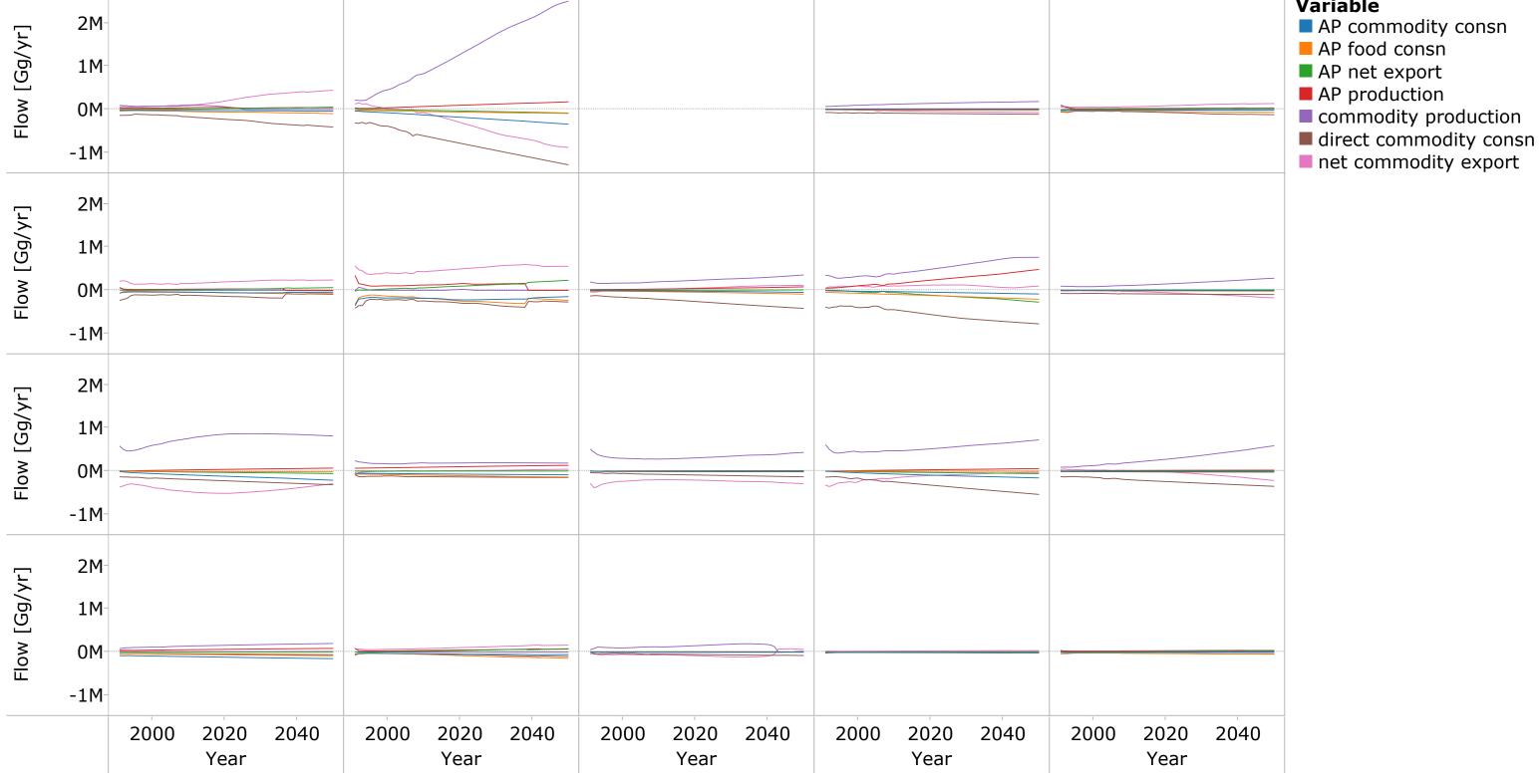




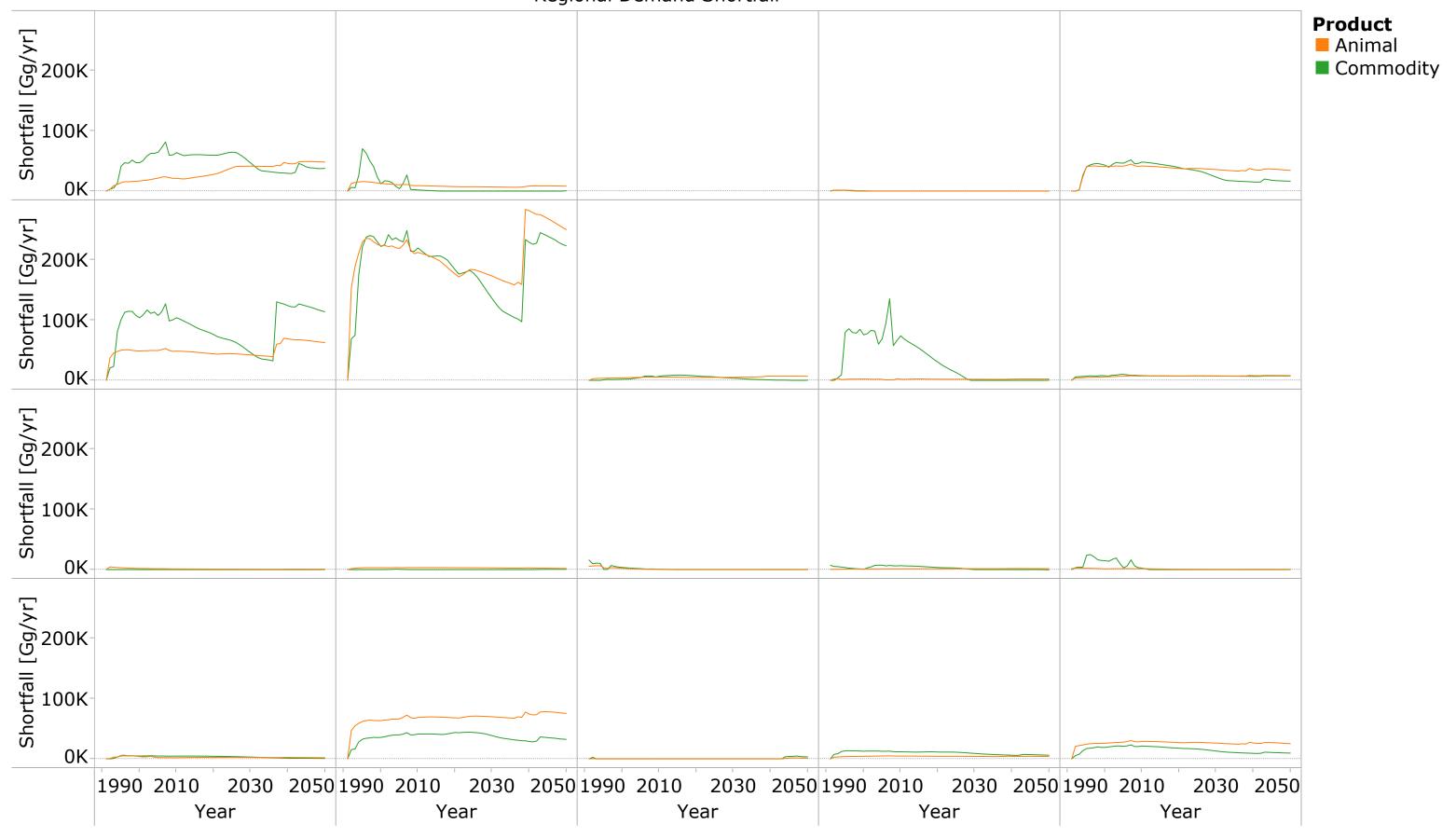
Regional Commodity Net Flow



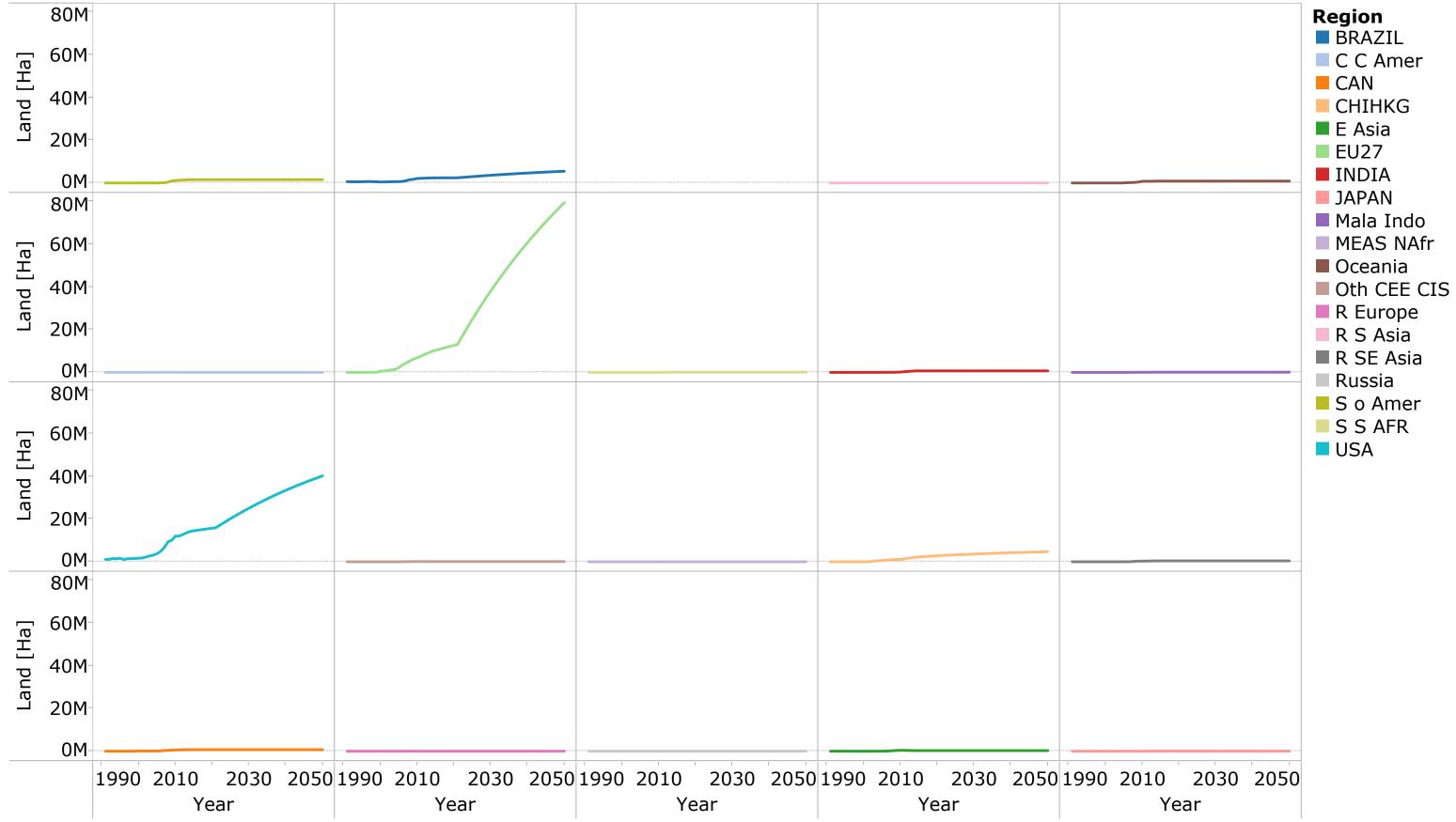
Regional Commodity Flows **Variable** 2M-■ AP commodity consn AP food consn 1M-■ AP net export ■ AP production 0Mcommodity production -1M-■ net commodity export 2M-1M-OM--1M-2M-1M-



Regional Demand Shortfall



Regional Cellulosic Demand 80M Region BRAZIL 60M C C Amer CAN 40M CHIHKG ■ E Asia 20M ■ EU27 **■** INDIA 0M-JAPAN 80M ■ Mala Indo 60M-MEAS NAfr Land [Ha] Oceania 40M R Europe 20M R S Asia R SE Asia 0M Russia 80M S o Amer S S AFR 60M Land [Ha] USA 40M 20M 0M 80M 60M 40M



Regional Yields Variable 1 commodity crop yield 0.1 Yield [Gg/Ha] crop land forage yield 0.01 fiber yield Other yield 0.001^{-} ■ VFN yield 0.0001 1e-005 0.1 Yield [Gg/Ha] 0.01 0.001 0.0001 1e-005 0.1 Yield [Gg/Ha] 0.01 0.001 0.0001 1e-005 0.1 Yield [Gg/Ha] 0.01 0.001 0.0001 1e-005 2020 2020 2040 2040 2020 2020 2020 2040 2000 2000 2040 2000 2040 2000 2000 Year Year Year Year Year

Zero Yield

Variable / Region								
	commodity crop yield fiber yield							
Year	CAN	E Asia	Mala I	R Eur	JAPAN	R Eur		
1991	0	0	0	0	0	0		
1992	0	0	0	0	0	0		
1993	0	0	0	0	0	0		
1994	0	0	0	0	0	0		
1995	0	0	0	0	0	0		
1996	0	0	0	0	0	0		
1997	0	0	0	0	0	0		
1998	0	0	0	0	0	0		
1999	0	0	0	0	0	0		
2000	0	0	0	0	0	C		
2001	0	0	0	0	0	C		
2002	0	0	0	0	0	C		
2003	0	0	0	0	0	0		
2004	0	0	0	0	0	0		
2005	0	0	0	0	0	C		
2006	0	0	0	0	0	0		
2007	0	0	0	0	0	C		
2008	0	0	0	0	0	C		
2009	0	0	0	0	0	C		
2010	0	0	0	0	0	C		
2011	0	0	0	0	0	C		
2012	0	0	0	0	0	C		
2013	0	0	0	0	0	C		
2013	0	0	0	0	0	C		
	0	0	0		0			
2015				0		C		
2016	0	0	0	0	0	0		
2017	0	0	0	0	0	C		
2018	0	0	0	0	0	0		
2019	0	0	0	0	0	C		
2020	0	0	0	0	0	C		
2021	0	0	0	0	0	C		
2022	0	0	0	0	0	0		
2023	0	0	0	0	0	0		
2024	0	0	0	0	0	0		
2025	0	0	0	0	0	C		
2026	0	0	0	0	0	C		
2027	0	0	0	0	0	C		
2028	0	0	0	0	0	C		
2029	0	0	0	0	0	C		
2030	0	0	0	0	0	C		
2031	0	0	0	0	0	0		
2032	0	0	0	0	0	C		
2033	0	0	0	0	0	C		
2034	0	0	0	0	0	C		
2035	0	0	0	0	0	C		
2036	0	0	0	0	0	C		
2037	0	0	0	0	0	C		
2038	0	0	0	0	0	C		
2039	0	0	0	0	0	C		
2040	0	0	0	0	0	C		
2041	0	0	0	0	0	C		
2042	0	0	0	0	0	C		
2042	0	0	0	0	0	C		
2043	0	0	0	0	0	C		
2045	0	0	0	0	0	C		
2046	0	0	0	0	0	C		
2047	0	0	0	0	0	C		
2048	0	0	0	0	0	C		
2049	0	0	0	0	0	0		
2050	0	0	0	0	0	C		

Variable