

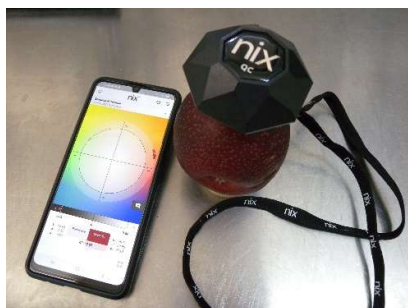
## ANABP 01 Colour Development – Manjimup 2021

### Steele Jacob – DPIRD, Australian National Apple Breeding Program

The following diagram shows the development of colour intensity of ANABP 01 apples weekly from February to May.

These measurements were recorded using a Nix QC Colour Sensor. This device is a Bluetooth® colour measurement tool used to scan the surface of an object or medium to give detailed colour descriptive data as well as a matching paint chip sample showing the actual colour scanned.

- 20 fruit were identified and labelled. Half on each side of the tree.
- A circle was drawn to identify the area to be scanned weekly to track colour development from the same point of the fruit.
- Fruit was colour scanned and a maturity test was conducted on fruit from the same trees weekly to establish maturity indices including starch score.
- The chart below indicates the colour development on 14 separate apples (down the page) from the 10<sup>th</sup> of February for 15 weeks (across the page).
- The photo at the bottom was taken of the starch pattern and fruit colour at the time of the weekly maturity test.
- This crop was storage mature and harvested on the 20<sup>th</sup> of April.
- The tagged fruit for measurement was left on the tree along with sufficient fruit for further maturity testing until measurements ended on the 21<sup>st</sup> of May.



Department of  
Primary Industries and  
Regional Development

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	10 <sup>th</sup> Feb	18 <sup>th</sup> Feb	25 <sup>th</sup> Feb	4 <sup>th</sup> Mar	11 <sup>th</sup> Mar	18 <sup>th</sup> Mar	26 <sup>th</sup> Mar	1 <sup>st</sup> Apr	9 <sup>th</sup> Apr	16 <sup>th</sup> Apr	23 <sup>rd</sup> Apr	29 <sup>th</sup> Apr	6 <sup>th</sup> May	13 <sup>th</sup> May	21 <sup>st</sup> May
1	#8F3D4D 143, 61, 77	#8A4047 138, 64, 71	#873B48 135, 59, 72	#843445 132, 52, 69	#823746 130, 55, 70	#783644 120, 54, 68	#763641 123, 54, 65	#723840 114, 56, 64	#6A3743 106, 55, 67	#612E3A 97, 46, 58	#5E3141 94, 49, 65	#582E3A 88, 46, 58	#50363A 80, 54, 58	#51373C 81, 55, 60	#47262E 71, 38, 46
2	#873849 135, 56, 73	#833745 131, 55, 69	#843644 132, 48, 68	#803444 128, 52, 68	#793240 127, 50, 64	#79313F 121, 49, 63	#7A303E 122, 48, 62	#772F3D 119, 47, 61	#6E3441 110, 52, 65	#663440 102, 52, 64	#5E303D 92, 48, 61	#55353E 86, 53, 62	#4D3239 77, 50, 57	#4E3138 78, 49, 59	#47313A 71, 49, 58
3	#8A3849 138, 59, 73	#8A3545 138, 53, 69	#863245 134, 50, 69	#823041 130, 48, 65	#833242 131, 50, 66	#783240 120, 50, 64	#793040 121, 48, 64	#73333D 115, 51, 61	#71303D 113, 48, 61	#6A2C3D 106, 44, 61	#593636 89, 54, 54	#5C3039 92, 48, 57	#53303A 85, 48, 58	#4F2F37 79, 47, 55	#463337 70, 51, 55
4	#863043 134, 48, 67	#823244 130, 50, 68	#832F41 131, 47, 65	#813143 129, 49, 67	#7D2A3D 125, 42, 61	#7A253D 122, 37, 61	#743038 116, 48, 59	#752539 117, 37, 57	#6B2E34 107, 46, 52	#6B2638 107, 38, 56	#5F2D38 95, 45, 59	#582935 88, 41, 53	#5B2939 91, 41, 57	#5B2C3A 91, 44, 58	#451E2A 69, 30, 42
5	#8A3649 138, 54, 73	#8B3D49 139, 60, 73	#843B47 132, 59, 71	#823944 130, 57, 68	#843946 132, 57, 70	#793746 127, 55, 70	#7C3445 124, 52, 69	#763643 118, 54, 67	#773547 119, 53, 71	#723843 114, 56, 67	#6B3942 104, 57, 66	#573743 103, 55, 67	#5C363F 92, 54, 63	#5F3D47 95, 61, 71	#573637 87, 48, 55
6	#914053 145, 64, 83	#8F444E 143, 68, 78	#8A3A48 138, 58, 75	#843C48 132, 60, 72	#813845 129, 59, 69	#783944 123, 57, 68	#733E3F 115, 62, 63	#763442 118, 52, 66	#6F3845 111, 56, 69	#63323B 99, 50, 59	#6A2A3D 106, 42, 61	#5C2E3A 92, 46, 58	#533639 85, 54, 57	#51383D 81, 56, 61	#50393D 80, 57, 61
7	#8A3248 138, 50, 72	#863548 134, 53, 72	#882F48 136, 47, 72	#853246 133, 50, 70	#812840 129, 40, 64	#7C3042 124, 48, 66	#76283F 118, 43, 63	#6F2F3D 111, 47, 61	#6C353F 108, 53, 63	#593831 89, 56, 49	#5E3638 94, 54, 56	#5F2F3D 95, 47, 61	#4F3039 79, 48, 57	#522F3C 82, 47, 60	#4F2E3A 79, 46, 58
8	#893D47 137, 48, 71	#853545 133, 53, 69	#863046 134, 48, 70	#843444 132, 52, 68	#855E40 133, 46, 64	#7D303F 125, 48, 63	#7B3040 123, 50, 64	#77383F 119, 48, 63	#7A2F47 122, 47, 71	#69303C 105, 48, 60	#5D343C 93, 62, 60	#55323A 86, 50, 58	#553F38 86, 47, 59	#513238 81, 50, 55	#472832 71, 41, 50
9	#8B384B 139, 59, 75	#873C4C 135, 60, 76	#833A47 131, 58, 71	#843A48 132, 58, 72	#7F3C45 127, 60, 69	#7A3D43 122, 61, 67	#7C3F43 124, 63, 67	#783A45 123, 58, 69	#713241 113, 50, 65	#723540 114, 53, 64	#6A3944 106, 57, 68	#673740 103, 55, 64	#5D3942 93, 57, 66	#5E383E 94, 56, 62	#5A343E 90, 52, 62
10	#8A384B 138, 56, 75	#843843 132, 56, 67	#853145 133, 49, 69	#7F3044 127, 48, 68	#79283B 121, 40, 59	#763241 118, 50, 65	#74313F 116, 49, 63	#70303D 112, 48, 61	#6C2F3E 108, 47, 62	#65303D 101, 48, 61	#60313D 96, 49, 61	#5F303C 95, 48, 60	#59303C 89, 48, 60	#522B38 82, 43, 56	#513138 81, 49, 56
11	#83264D 131, 38, 67	#81233F 129, 35, 63	#781F38 120, 31, 55	#74233D 116, 35, 59	#74263A 116, 32, 58	#692238 105, 34, 55	#642639 100, 38, 57	#5A2A38 90, 42, 56	#4A2931 74, 41, 49	#52C236 83, 44, 54	#452834 69, 43, 52	#3E3033 62, 48, 51	#44D437 74, 36, 55	#422735 66, 39, 53	#3B3127 59, 49, 39
12	#873546 135, 53, 70	#883947 136, 57, 71	#823042 130, 48, 66	#7C323F 124, 50, 63	#7B2236 123, 34, 54	#753038 117, 48, 59	#712E39 113, 46, 57	#6D3038 109, 48, 59	#652D38 101, 45, 59	#5D1D2F 93, 29, 47	#4F2F39 79, 47, 57	#54313C 84, 49, 60	#4D3139 77, 49, 57	#4A2A35 74, 42, 54	#34081F 52, 8, 31
13	#7C3442 124, 52, 66	#7A313E 122, 49, 62	#782E3D 120, 46, 61	#77303D 119, 48, 61	#70223D 112, 34, 48	#692F38 105, 47, 56	#629238 112, 41, 56	#6A2B36 106, 43, 54	#5C2C37 92, 44, 55	#512834 81, 40, 52	#543A3E 84, 58, 62	#462E38 70, 46, 56	#453138 69, 49, 56	#502E3A 80, 46, 58	#3F1327 63, 19, 39
14	#833745 131, 55, 69	#824047 130, 64, 71	#883A45 128, 58, 69	#7F3341 127, 51, 65	#7C3441 124, 52, 65	#6F3040 111, 61, 64	#6E373F 110, 55, 63	#68393D 104, 57, 61	#5D3438 80, 52, 56	#5D3739 93, 55, 57	#533138 83, 49, 56	#51373C 81, 55, 60	#48333D 75, 51, 60	#513A36 81, 58, 60	#3E222C 62, 34, 44

MATURITY



Harvest April 20th